

attributes backend **base64** bibTeX bitset  
bitset blobs boolean buffers builders bytemap  
caches **callback** callbacks catcodes characters  
chemistry commands containers context  
converters **coroutine** ctxrunner **debug** dir  
directives document documentdata drivers  
effects environment experiments figures **file**  
**fio** floats **font** fonts functions globaldata  
globals graphics gzip helper images  
interactions interfaces **io** job kpse **language**  
languages layouts **lfs** libraries lmx loaders  
logs lpdf **lpeg** **lua** **luac** luatex lxml **math**  
mathematics **md5** metapost mime moduledata  
modules mp **mplib** nanojpeg noads **node** nodes  
number objects optional **os** **package**  
pagebuilders parametersets pdf **pdfdecode** **pdfe**  
physics **pngdecode** **posit** **potrace** publications  
qrcodegen regimes resolvers sandbox scripts  
serial set **sha2** **sio** **socket** sorters **sparse**  
statistics **status** storage streams **string**  
structures **table** **tex** texconditionals **texconfig**  
texconstants texifs **texio** texisdefined  
texmodes texsystemmodes thirddata **token** tokens  
tracers trackers typesetters updaters url  
userdata **utf8** utilities **vector** visualizers  
**xcomplex** **xdecimal** xinterval **xmath** xml **xzip**  
zbuffer zip zlib

# ConTeXt LMTX

# global (alias: \_G)

<b>CONTEXTLMTXMODE</b>	number	<b>dimen</b>	function
<b>LUAFORMAT</b>	number	<b>dir</b>	table
<b>LUAMAJORVERSION</b>	number	<b>directives</b>	table
<b>LUAMINORVERSION</b>	number	<b>document</b>	table
<b>LUATEXENGINE</b>	string	<b>documentdata</b>	table
<b>LUATEXFORMATID</b>	number	<b>dofile</b>	function
<b>LUATEXFUNCTIONALITY</b>	number	<b>drivers</b>	table
<b>LUATEXVERBOSE</b>	string	<b>effects</b>	table
<b>LUATEXVERSION</b>	number	<b>environment</b>	table
<b>LUAVERSION</b>	number	<b>error</b>	function
<b>MP</b>	function	<b>experiments</b>	table
<b>SAVEDREQUIRE</b>	function	<b>figures</b>	table
<b>aes</b>	table	<b>file</b>	table
<b>arg</b>	table	<b>fio</b>	table
<b>assert</b>	function	<b>floats</b>	table
<b>attributes</b>	table	<b>font</b>	table
<b>backends</b>	table	<b>fonts</b>	table
<b>basexx</b>	table	<b>functions</b>	table
<b>bibtex</b>	table	<b>getmetatable</b>	function
<b>bit32</b>	table	<b>globaldata</b>	table
<b>bitset</b>	table	<b>globals</b>	table
<b>blobs</b>	table	<b>graphics</b>	table
<b>boolean</b>	table	<b>gzip</b>	table
<b>buffers</b>	table	<b>helper</b>	table
<b>builders</b>	table	<b>images</b>	table
<b>bytemap</b>	table	<b>inspect</b>	function
<b>caches</b>	table	<b>interactions</b>	table
<b>callback</b>	table	<b>interfaces</b>	table
<b>callbacks</b>	table	<b>io</b>	table
<b>catcodes</b>	table	<b>ipairs</b>	function
<b>characterkern</b>	function	<b>job</b>	table
<b>characters</b>	table	<b>kpse</b>	table
<b>chemistry</b>	table	<b>language</b>	table
<b>collectgarbage</b>	function	<b>languages</b>	table
<b>commands</b>	table	<b>layouts</b>	table
<b>containers</b>	table	<b>lfs</b>	table
<b>context</b>	function	<b>libraries</b>	table
<b>converters</b>	table	<b>ltx</b>	table
<b>coroutine</b>	table	<b>load</b>	function
<b>ctxrunner</b>	table	<b>loaders</b>	data table
<b>debug</b>	table	<b>loadfile</b>	function

<b>loadstring</b>	function	<b>rawlen</b>	function
<b>logs</b>	table	<b>rawset</b>	function
<b>lpdf</b>	table	<b>regimes</b>	table
<b>lpeg</b>	table	<b>require</b>	function
<b>lua</b>	table	<b>resolvers</b>	table
<b>luac</b>	table	<b>sandbox</b>	table
<b>luatex</b>	table	<b>scripts</b>	table
<b>lxml</b>	table	<b>select</b>	function
<b>math</b>	table	<b>serial</b>	table
<b>mathematics</b>	table	<b>set</b>	table
<b>md5</b>	table	<b>setinspector</b>	function
<b>metapost</b>	table	<b>setmathparameters</b>	function
<b>mime</b>	table	<b>setmetatable</b>	function
<b>moduledata</b>	table	<b>sha2</b>	table
<b>modules</b>	table	<b>sio</b>	table
<b>mp</b>	function	<b>socket</b>	table
<b>mplib</b>	table	<b>sorters</b>	table
<b>nanojpeg</b>	table	<b>sparse</b>	table
<b>next</b>	function	<b>statistics</b>	table
<b>noads</b>	table	<b>status</b>	table
<b>node</b>	table	<b>storage</b>	table
<b>nodes</b>	table	<b>streams</b>	table
<b>number</b>	table	<b>string</b>	table
<b>objects</b>	table	<b>structures</b>	table
<b>optional</b>	table	<b>table</b>	table
<b>optionalrequire</b>	function	<b>tex</b>	table
<b>os</b>	table	<b>texconditionals</b>	data table
<b>package</b>	table	<b>texconfig</b>	table
<b>pagebuilders</b>	table	<b>texconstants</b>	data table
<b>pairs</b>	function	<b>texifs</b>	data table
<b>parametersets</b>	table	<b>texio</b>	table
<b>pcall</b>	function	<b>texisdefined</b>	data table
<b>pdf</b>	table	<b>texmodes</b>	data table
<b>pdfdecode</b>	table	<b>texsystemmodes</b>	data table
<b>pdfe</b>	table	<b>thirddata</b>	table
<b>physics</b>	table	<b>toboolean</b>	function
<b>pngdecode</b>	table	<b>todecimal</b>	function
<b>posit</b>	table	<b>token</b>	table
<b>potrace</b>	table	<b>tokens</b>	table
<b>print</b>	function	<b>tonumber</b>	function
<b>publications</b>	table	<b>tostring</b>	function
<b>qrcodegen</b>	table	<b>tracers</b>	table
<b>rawequal</b>	function	<b>trackers</b>	table
<b>rawget</b>	function	<b>type</b>	function

<b>typesetters</b>	table	<b>xcomplex</b>	table
<b>unpack</b>	function	<b>xdecimal</b>	table
<b>updaters</b>	table	<b>xinterval</b>	table
<b>url</b>	table	<b>xmath</b>	table
<b>userdata</b>	table	<b>xml</b>	table
<b>utf</b>	table	<b>xpcall</b>	function
<b>utf8</b>	table	<b>xzip</b>	table
<b>utilities</b>	table	<b>zbuffer</b>	table
<b>vector</b>	table	<b>zip</b>	table
<b>visualizers</b>	table	<b>zlib</b>	table
<b>warn</b>	function		

# aes (extra lua)

**decode** function  
**encode** function

**random** function

# attributes (context)

## **alternates** table

N attribute  
D data  
F enable  
F handler  
F register  
D registered  
D values

## **applyoverloads** function

## **checkvalues** function

## **colorintents** table

N attribute  
D data  
F enable  
F handler  
F register  
D registered

## **colors** table

N attribute  
F cmyk  
F cmyktogray  
F cmyktorgb  
F colorcomponents  
D counts  
B couple  
F currentmodel  
F currentnamedmodel  
D data  
N default  
F defineintermediatecolor  
F definemultitonecolor  
F defineprocesscolor  
F defineprocesscolordirect  
F definesimplegray  
F definespotcolor  
F definetransparency  
F enable  
F filter  
N forced  
F forcedmodel  
F forcesupport

F formatcolor  
F formatgray  
F formatluminance  
F formatluminanceratio  
F getpagecolormodel  
F gray  
F graytoHSV  
F handler  
T helpers  
F complement  
F inbetween  
F justone  
F hsvtogray  
F hsvtorgb  
F hwbtorgb  
F iccprofile  
F isblack  
F labtolch  
F labtorgb  
F labtoxyz  
F lchtolab  
F lchtorgb  
N main  
S model  
D models  
F mpcolor  
F mpnamedcolor  
F mpoptions  
F mprgbcolor  
F namedcolorattributes  
N none  
F popset  
F processcolorcomponents  
F pushset  
F register  
D registered  
F registerspotcolor  
F rgb  
F rgbbytes  
F rgbtocmyk  
F rgbtogray

F rgbtohsv  
 F rgbtoxyz  
 N selector  
 F setlist  
 F setmodel  
 F setpagecolormodel  
 D sets  
 F spec  
 F spot  
 F spotcolorname  
 F spotcolorparent  
 F spotcolorvalue  
 B supported  
 F toattributes  
 F transparencycomponents  
 B triggering  
 F usecolors  
 D valid  
 F value  
 D values  
 B weightgray  
 F xyztolab  
 F xyztorgb

**counts** data table  
**define** function  
**effects** table

N attribute  
 D data  
 F enable  
 F handler  
 F register  
 D registered  
 D values

**getvalue** function  
**getvalues** function  
**handlers** table  
**hasvalues** function  
**list** data table  
**markasoverload** function  
**names** data table  
**negatives** table

N attribute  
 D data  
 F enable

F handler  
 F register  
 D registered  
 F set

**numbers** data table  
**ofnode** function  
**private** function  
**public** function  
**registervalue** function  
**restore** function  
**save** function  
**setcleaner** function  
**showcurrent** function  
**states** table

F disabletriggering  
 F enabletriggering  
 F finalize  
 F initialize  
 F process  
 F selective  
 F simple  
 F stacked  
 F stacker

**system** function  
**tooverloads** function  
**transparencies** table

N attribute  
 D data  
 F enable  
 F forcesupport  
 F handler  
 T names  
 N color  
 N colorburn  
 N colordodge  
 N darken  
 N difference  
 N exclusion  
 N hardlight  
 N hue  
 N lighten  
 N luminosity  
 N multiply  
 N none

N normal		F definedlayoutcomponent
N overlay		F enable
N saturation		F forcesupport
N screen		F handler
N softlight		B hasorder
N none		D listwise
F register		F register
D registered		D registered
B supported		F resolve_begin
F toattribute		F resolve_end
B triggering		F resolve_reset
F value		F resolve_step
D values		D scopes
<b>unsetvalue</b>	number	F setfeatures
<b>values</b>	data table	F setup
<b>viewerlayers</b>	table	F start
N attribute		F stop
F cleanup		B supported
D data		D values
F define		

# backends (context)

<b>closeout</b>	function	F analyze normalsymbol
<b>codeinjections</b>	table	F analyzesymbol
F registerboxresource		F attachmentid
F registerfont		F bitmap
F restoreboxresource		F clonefield
<b>current</b>	string	F copyimage
<b>defaults</b>	table	F defaultprofile
T codeinjections		F definefield
F prerollreference		F definefieldset
F setautoprefix		F defineviewerlayer
F vfstartcolor		F discardpages
F vfstopcolor		F embedfile
T nodeinjections		F embedimage
F cmykcolor		F enabletags
F destination		F exportformdata
F graycolor		F fieldsurrounding
F injectknockout		F flushmergelayer
F injectoverprint		F getbookmarks
F reference		F getboxresourcebox
F rgbcolor		F getdefaultfieldvalue
F spotcolor		F getfieldcategory
F transparency		F getfieldset
T registrations		F getformatoption
F transparency		F getinfo
D tables		F getlinkstructureparent
<b>getcallbackstate</b>	function	F getreferencestructureobject
<b>included</b>	table	F getrefobj
B context		F insertrenderingwindow
B date		F jp2
B id		F jpg
B metadata		F maptag
B pdf		F mergebookmarks
<b>initialize</b>	function	F mergecomments
<b>latelua</b>	function	F mergefields
<b>nodeinjections</b>	table	F mergereferences
<b>nothing</b>	function	F mergerenditions
<b>openout</b>	function	F mergeviewerlayers
<b>registered</b>	table	F newimage
T pdf		F png
T codeinjections		F prerollreference
F addbookmarks		F presetsymbol

F presetsymbollist	F useviewerlayer
F processrendering	F validcompactor
F registerdocumentcloseaction	F validfield
F registerdocumentopenaction	F validfieldcategory
F registeredsymbol	F validfieldset
F registerfiguremask	F vfstartcolor
F registerfigurerange	F vfstopcolor
F registerpagecloseaction	F wrapimage
F registerpageopenaction	S name
F registerpattern	T nodeinjections
F registersymbol	F addtags
F ruleactionbox	F annotation
F ruleactiondraw	F attachfile
F ruleactionfill	F changestackedlayer
F ruleactionmp	F cmykcolor
F ruleactionstroke	F comment
F saveboxresource	F destination
F scanimage	F effect
F setattachmentsupport	F getboxresourcedimensions
F setautoprefix	F graycolor
F setencryption	F injectbitmap
F setfieldcalculationset	F insertu3d
F setfigurecolorspace	F knockout
F setfiguremask	F negative
F setformat	F overprint
F setformsmethod	F positive
F setjobcomment	F reference
F setpagetransition	F rgbcolor
F settaggingsupport	F spotcolor
F setupviewerlayer	F startalternate
F setuserdata	F startlayer
F setxmpfile	F startstackedlayer
F startactualtext	F stopalternate
F startalternativetext	F stoplayer
F startlayer	F stopstackedlayer
F startunicodetoactualtext	F transparency
F startunicodetoactualtextdirect	F typesetfield
F stopactualtext	F useboxresource
F stopalternativetext	T registrations
F stoplayer	F cmykindexcolor
F stopunicodetoactualtext	F cmykspotcolor
F stopunicodetoactualtextdirect	F getspotcolorreference
F supportedformats	F grayindexcolor
F unicodetoactualtext	F grayspotcolor

F `rgbindexcolor`  
F `rgbspotcolor`  
F `spotcolorname`  
F `transparency`  
T `tables`

**registrations**    `table`  
**setencryption**    `function`  
**tables**            `table`  
**writeout**          `function`

## basexx (extra lua)

**decode16** function  
**decode64** function  
**decode85** function  
**decodeLZW** function  
**decodeRL** function

**encode16** function  
**encode64** function  
**encode85** function  
**encodeLZW** function  
**encodeRL** function

## bit32 (context)

**arshift** function  
**band** function  
**bnot** function  
**bor** function  
**btest** function  
**bxor** function

**extract** function  
**lrotate** function  
**lshift** function  
**replace** function  
**rrotate** function  
**rshift** function

## bitset (context)

**asstring** function  
**get** function  
**new** function  
**reset** function

**set** function  
**totalable** function  
**traverse** function  
**wipe** function

## blobs (context)

<b>append</b>	function
<b>dimensions</b>	function
<b>dispose</b>	function
<b>new</b>	function
<b>pack</b>	function
<b>strdp</b>	function
<b>strhd</b>	function

<b>strht</b>	function
<b>strwd</b>	function
<b>tohpack</b>	function
<b>tonodes</b>	function
<b>tovpack</b>	function
<b>write</b>	function

# boolean (context)

**tocontext** function

**tonumber** function

# buffers (context)

<b>append</b>	function
<b>assign</b>	function
<b>collectcontent</b>	function
<b>empty</b>	function
<b>erase</b>	function
<b>exists</b>	function
<b>get</b>	function
<b>getcontent</b>	function
<b>getctxlua</b>	function
<b>getlines</b>	function
<b>getmkvi</b>	function
<b>gettex</b>	function
<b>loadcontent</b>	function

<b>parallel</b>	table
F define	
F hassomecontent	
F next	
F place	
F reset	
F save	
<b>prepend</b>	function
<b>raw</b>	function
<b>run</b>	function
<b>samplefile</b>	function
<b>splitsamplefile</b>	function
<b>undent</b>	function

# builders (context)

<b>checkparcontext</b>	function	F start	
<b>checksidefloat</b>	function	F stop	
<b>hpack</b>	table	F tag	
F qualityactions			<b>parpassidentifier</b> function
F report			<b>passnames</b> data table
F show			<b>profiling</b> table
<b>kernel</b>	table	F add	
F collapsing		F addrivers	
F hyphenating		F boxlinehandler	
F kerning		F distance	
F ligaturing		F fixedprofile	
F mlisttohlist		F get	
<b>paragraphs</b>	table	F getrivers	
T constructors		F list	
N attribute		F pagehandler	
F define		F pagelinehandler	
F disable		F profilebox	
F enable		F profilelines	
F handler		F set	
T methods		F setlines	
F basic		<b>registerpaspasscallback</b> function	
F default		<b>vpack</b> table	
F hpack		F qualityactions	
F oneline		F report	
D names		<b>vspacing</b> table	
D numbers		D categories	
F set		F checkstrutdepth	
F start		F collapsevbox	
F stop		T data	
T expansion		D map	
F trace		D skip	
F kepttogether		D snapmethods	
F registertogether		F definesnapmethod	
T solutions		B fixed	
T splitters		F flushcontributions	
F define		F forcepageflush	
F optimize		F forcestrutdepth	
T registered		F getnofpreviouslines	
F reset		F inject	
F set		F injectdisable	
F split		F injectnowhite	

F injectpenalty  
F injectskip  
F interceptsamepagecontent  
F pagehandler  
F pageoverflow  
F popatsame  
F pushatsame

F setmap  
F setskip  
F snapbox  
F synchronizepage  
F tocategories  
F tocategory  
F vboxhandler

## byteimap (context)

<b>bounds</b>	function	<b>hasbytergb</b>	function
<b>clip</b>	function	<b>new</b>	function
<b>copy</b>	function	<b>newdomain</b>	function
<b>dimensions</b>	function	<b>overlay</b>	function
<b>domain</b>	function	<b>process</b>	function
<b>downgrade</b>	function	<b>reduce</b>	function
<b>downsample</b>	function	<b>reset</b>	function
<b>fillgray</b>	function	<b>setgray</b>	function
<b>fillrgb</b>	function	<b>setgrayadd</b>	function
<b>filter</b>	function	<b>setgraymin</b>	function
<b>getbyte</b>	function	<b>setrgb</b>	function
<b>getbytes</b>	function	<b>slicegray</b>	function
<b>getvalue</b>	function	<b>slicerange</b>	function
<b>hasbytegray</b>	function	<b>slicergb</b>	function
<b>hasbyterange</b>	function	<b>totable</b>	function

## cache (context)

<b>base</b>	string	<b>loadcontent</b>	function
<b>collapsecontent</b>	function	<b>loaddata</b>	function
<b>configfiles</b>	function	<b>more</b>	string
<b>contentstate</b>	function	<b>savecontent</b>	function
<b>defaults</b>	table	<b>savadata</b>	function
<b>getfirstreadablefile</b>	function	<b>setfirstwritablefile</b>	function
<b>getreadablepaths</b>	function	<b>setluanames</b>	function
<b>getwritablepath</b>	function	<b>treehash</b>	function
<b>hashed</b>	function	<b>usedpaths</b>	function
<b>is_writable</b>	function		

## callback (basic tex)

<b>find</b>	function	<b>list</b>	function
<b>getindex</b>	function	<b>names</b>	function
<b>getoptions</b>	function	<b>register</b>	overloaded function
<b>getoptionvalues</b>	function	<b>setoptions</b>	function
<b>getstate</b>	function	<b>setstate</b>	function
<b>getstatevalues</b>	function	<b>testonly</b>	function
<b>known</b>	function	<b>usage</b>	function

# callbacks (context)

<b>freeze</b>	function	N linebreak
<b>functions</b>	table	N linebreak_check
F start_page_number		N linebreak_quality
F stop_page_number		N local_box
<b>getcomment</b>	function	N make_extensible
<b>getstates</b>	function	N math_rule
<b>known</b>	function	N missing_character
<b>list</b>	table	N mlist_to_hlist
N alignment		N open_data_file
N append_adjust		N packed_vbox
N append_line		N page_boundary
N append_migrate		N paragraph_context
N append_to_vlist		N paragraph_pass
N balance_boundary		N post_linebreak
N balance_check		N pre_dump
N balance_insert		N pre_linebreak
N begin_paragraph		N pre_output
N buildpage		N process_character
N define_font		N process_jobname
N delayed_glue		N quality_font
N find_format_file		N register_extensible
N find_log_file		N show_build
N get_attribute		N show_error_message
N get_math_dictionary		N show_loners
N get_noad_class		N show_lua_call
N glyph_run		N show_vsplitt
N handle_overload		N show_warning_message
N handle_uinsert		N show_whatsit
N handle_uleader		N start_file
N hpack		N start_run
N hpack_quality		N stop_file
N hyphenate		N stop_run
N insert_boundary		N tail_append
N insert_check_split		N test_only
N insert_distance		N trace_memory
N insert_par		N vpack
N intercept_lua_error		N vpack_quality
N intercept_tex_error		N wrapup_run
N italic_correction		<b>names</b> table
N kerning		<b>optimizer</b> function
N ligaturing		<b>optionbits</b> table

**optioncodes** table

N direct

N trace

**pop** function

**push** function

**register** function

**report** function

**statebits** table

**statecodes** table

N disabled

N frozen

N fundamental

N private

N selective

N set

N touched

N tracing

# catcodes (context)

**names** data table  
**numbers** data table

**register** function

# characters (context)

<b>addcharacternames</b>	function	T after_postscript
<b>adobename</b>	function	T after_subscript
<b>bidirectional</b>	data table	T anudatta
<b>blockrange</b>	function	T before_half
<b>blocks</b>	data table	T before_main
<b>can_have_space</b>	data table	T before_postscript
<b>casemap</b>	table	T before_subscript
<b>categories</b>	data table	T below_mark
<b>category</b>	function	T consonant
<b>categorytags</b>	data table	T dependent_vowel
<b>classifiers</b>	table	T halant
<b>collapsed</b>	data table	T independent_vowel
<b>combined</b>	data table	T nukta
<b>contextname</b>	function	T post_mark
<b>csletters</b>	data table	T pre_mark
<b>data</b>	data table	T ra
<b>decomposed</b>	data table	T stress_tone_mark
<b>description</b>	function	T twopart_mark
<b>descriptions</b>	data table	T vowel_modifier
<b>detailtags</b>	data table	
<b>directions</b>	table	
<b>emoji</b>	table	
F compact		
F known		
F resolve		
<b>emojized</b>	function	
<b>encodes</b>	data table	
<b>entities</b>	data table	
<b>fallbacks</b>	data table	
<b>filters</b>	data table	
<b>fractions</b>	table	
<b>fromnumber</b>	function	
<b>fschars</b>	data table	
<b>fscodes</b>	data table	
<b>getrange</b>	function	
<b>graphemes</b>	data table	
<b>hangul</b>	data table	
<b>indicgroups</b>	table	
T above_mark		
T after_half		
T after_main		
		<b>initialize</b> function
		<b>is_character</b> data table
		<b>is_command</b> data table
		<b>is_hyphenator</b> data table
		<b>is_letter</b> data table
		<b>is_mark</b> data table
		<b>is_nothing</b> data table
		<b>is_punctuation</b> data table
		<b>is_spacing</b> data table
		<b>is_symbol</b> data table
		<b>lcchars</b> data table
		<b>lccode</b> function
		<b>lccodes</b> data table
		<b>lettered</b> function
		<b>lhash</b> data table
		<b>linebreaks</b> data table
		<b>lower</b> function
		<b>mathlists</b> data table
		<b>mirrors</b> table
		<b>otfscripts</b> data table
		<b>ranges</b> data table
		<b>registerentities</b> function

<b>remap_hangul_syllabe</b>	function	<b>tex</b>	table
<b>scripthash</b>	table	D accentmapping	
<b>setactivecatcodes</b>	function	D commandmapping	
<b>setlettercatcodes</b>	function	F defineaccents	
<b>setothercatcodes</b>	function	F safechar	
<b>shape</b>	function	F strtextoutf	
<b>shaped</b>	function	F strtoutfpattern	
<b>shash</b>	data table	F toutf	
<b>shchars</b>	data table	F toutfpattern	
<b>shcodes</b>	data table	<b>textclasses</b>	table
<b>showstring</b>	function	<b>tonumber</b>	function
<b>specialchars</b>	data table	<b>ucchars</b>	data table
<b>specials</b>	data table	<b>uccode</b>	function
<b>splits</b>	table	<b>uccodes</b>	data table
T char		<b>uhash</b>	data table
T compat		<b>unicodechar</b>	function
<b>subscripts</b>	table	<b>upper</b>	function
<b>superscripts</b>	table	<b>verbosemarks</b>	data table
<b>synonyms</b>	data table		

# chemistry (context)

<b>component</b>	function	S line
<b>define</b>	function	S lrn
<b>definitions</b>	data table	S lrt
<b>format</b>	string	S mark
<b>inlinechemical</b>	function	S mir
<b>instance</b>	string	S mov
<b>method</b>	string	S move
<b>molecule</b>	function	S number
<b>moleculeparser</b>	userdata	S oe
<b>start</b>	function	S off
<b>stop</b>	function	S r
<b>syntax</b>	table	S rb
T alkyl		S rbd
S category		S rd
T keys		S rdb
S ad		S rdd
S adj		S rh
S arrow		S rm
S au		S rn
S b		S rot
S bb		S rrn
S bd		S rrt
S bw		S rt
S c		S rz
S cc		S sb
S ccd		S sd
S cd		S sr
S cz		S sub
S dash		S tb
S db		S z
S diff		S zln
S dir		S zlt
S dr		S zn
S ed		S zrn
S ep		S zrt
S es		S zt
S et		S keyword
S hb		N max
S label		T boat
S ldb		S category
S ldd		T keys

S adj	S rt
S arrow	S rz
S b	S sb
S bb	S sr
S c	S sub
S cc	S z
S ccd	S zln
S cd	S zlt
S dash	S zn
S diff	S zrn
S eb	S zrt
S label	S zt
S line	S keyword
S lr	N max
S lrb	T carbon
S lrbd	S category
S lrd	S keyword
S lrh	N max
S lrn	T chair
S lrt	S category
S lrz	S keyword
S lsr	N max
S lsub	T chem
S mark	N arguments
S mov	F direct
S move	T closecomplex
S number	S direct
S off	T eight
S r	S category
S rb	T keys
S rbd	S ad
S rd	S adj
S rh	S arrow
S rn	S au
S rr	S b
S rrb	S c
S rrbd	S cc
S rrd	S ccd
S rrh	S cd
S rrn	S crz
S rrt	S dash
S rrz	S db
S rsr	S diff
S rsub	S dr

S eb	S rz
S ed	S s
S er	S sb
S hb	S sr
S label	S ss
S line	S sub
S lr	S z
S lrb	S zln
S lrbd	S zlt
S lrd	S zn
S lrh	S zrn
S lrn	S zrt
S lrt	S zt
S lrz	S keyword
S lsr	N max
S lsub	T equals
S mark	S direct
S mid	T equilibrium
S mids	N arguments
S midz	F direct
S mir	T five
S mov	S category
S move	S keyword
S number	N max
S off	T fivefront
S r	S category
S rb	S keyword
S rbd	N max
S rd	T four
S rh	S category
S rm	S keyword
S rn	N max
S rot	T gives
S rr	N arguments
S rrb	F direct
S rrbd	T mesomeric
S rrd	N arguments
S rrh	F direct
S rrn	T minus
S rrt	S direct
S rrz	T mp
S rsr	N arguments
S rsub	F direct
S rt	T newmanclipsed

S category	S direct	
S keyword	T restore	
N max	S direct	
T newmanstagger	T save	
S category	S direct	
S keyword	T seven	
N max	S category	
T nine	S keyword	
S category	N max	
S keyword	T six	
N max	S category	
T one	S keyword	
S category	N max	
S keyword	T sixfront	
N max	S category	
T opencomplex	S keyword	
S direct	N max	
T pb	T space	
S direct	S direct	
T pe	T three	
S direct	S category	
T plus	S keyword	
S direct	N max	
T reset	<b>undefine</b>	function

## containers (context)

**cleanname** function  
**content** function  
**define** function  
**is\_usable** function

**is\_valid** function  
**read** function  
**usecache** boolean  
**write** function

## converters (context)

<b>A</b>	function	<b>cn-a</b>	function
<b>A:es</b>	function	<b>cn-c</b>	function
<b>A:ru</b>	function	<b>cn-d</b>	function
<b>A:sl</b>	function	<b>convert</b>	function
<b>AK</b>	function	<b>decimals</b>	function
<b>Alphabetic</b>	function	<b>define</b>	function
<b>Alphabetic:es</b>	function	<b>gregorian_to_hebrew</b>	function
<b>Alphabetic:ru</b>	function	<b>gregorian_to_jalali</b>	function
<b>Alphabetic:sl</b>	function	<b>hebrewnumerals</b>	function
<b>Character</b>	function	<b>helpers</b>	table
<b>Characters</b>	function	<b>hexstringtonumber</b>	function
<b>I</b>	function	<b>i</b>	function
<b>KA</b>	function	<b>isleapyear</b>	function
<b>KR</b>	function	<b>jalali_to_gregorian</b>	function
<b>R</b>	function	<b>lchexnumber</b>	function
<b>RK</b>	function	<b>lchexnumbers</b>	function
<b>Romannumerals</b>	function	<b>leapyear</b>	function
<b>Russiannumerals</b>	function	<b>lower</b>	function
<b>Sloveniannumerals</b>	function	<b>max</b>	function
<b>Spanishnumerals</b>	function	<b>maxchrs</b>	function
<b>Word</b>	function	<b>nicenumber</b>	function
<b>Words</b>	function	<b>nofdays</b>	function
<b>a</b>	function	<b>number</b>	function
<b>a:es</b>	function	<b>numbers</b>	function
<b>a:ru</b>	function	<b>octnumber</b>	function
<b>a:sl</b>	function	<b>octstringtonumber</b>	function
<b>abjadnodotnumerals</b>	function	<b>ordinal</b>	function
<b>abjadnumerals</b>	function	<b>r</b>	function
<b>alphabetic</b>	function	<b>romannumerals</b>	function
<b>alphabetic:es</b>	function	<b>russiannumerals</b>	function
<b>alphabetic:ru</b>	function	<b>sequences</b>	data table
<b>alphabetic:sl</b>	function	<b>settime</b>	function
<b>character</b>	function	<b>sloveniannumerals</b>	function
<b>characters</b>	function	<b>spaceddigits</b>	function
<b>chineseallnumerals</b>	function	<b>spanishnumerals</b>	function
<b>chinesecapnumerals</b>	function	<b>textime</b>	function
<b>chinesedatenumerals</b>	function	<b>toabjad</b>	function
<b>chinesenumerals</b>	function	<b>tochinese</b>	function
<b>chr</b>	function	<b>tohebrew</b>	function
<b>chrs</b>	function	<b>toroman</b>	function
<b>cn</b>	function	<b>totime</b>	function

**uchexnumber**  
**uchexnumbers**  
**upper**  
**verbose**

D data

function  
function  
function  
table

F translate

**weekday**  
**word**  
**words**

function  
function  
function

## coroutine (basic lua)

**close**        function  
**create**       function  
**isyieldable** function  
**resume**       function

**running**     function  
**status**       function  
**wrap**         function  
**yield**        function

# ctxrunner (context)

**load** function  
**preparedfile** function

**prepfileresolve** data table  
**resolve** function

## debug (basic lua)

**getinfo** function  
**sethook** function

**traceback** function

## dir (context)

<b>collectpattern</b>	function
<b>current</b>	function
<b>expandlink</b>	function
<b>expandname</b>	function
<b>found</b>	function
<b>glob</b>	function
<b>globdirs</b>	function

<b>globfiles</b>	function
<b>globpattern</b>	function
<b>ls</b>	function
<b>makedirs</b>	function
<b>mkdirs</b>	function
<b>pop</b>	function
<b>push</b>	function

## directives (context)

<b>data</b>	data table
<b>default</b>	function
<b>disable</b>	function
<b>done</b>	table
<b>enable</b>	function
<b>list</b>	function
<b>name</b>	string

<b>register</b>	function
<b>report</b>	function
<b>reset</b>	function
<b>show</b>	function
<b>value</b>	function
<b>values</b>	function

# document (context)

<b>arguments</b>	data table	<b>pdf_cleanup_procsets</b>	function
<b>files</b>	table	<b>pdf_identify_content</b>	function
<b>functions</b>	table	<b>pdf_serialize_content</b>	function
<b>getargument</b>	function	<b>pdf_strip_content</b>	function
<b>getfilename</b>	function	<b>pdf_strip_page</b>	function
<b>options</b>	table	<b>setargument</b>	function
T commandline		<b>setcommandline</b>	function
D environments		<b>setdefaultargument</b>	function
D modes		<b>setenvironments</b>	function
D modules		<b>setfilename</b>	function
T ctxfile		<b>setfilenames</b>	function
D environments		<b>setmodes</b>	function
D modes		<b>setmodules</b>	function
D modules		<b>variables</b>	data table
<b>pdf_cleanup_cidsets</b>	function		

# documentdata (context)

**variable** function

# drivers (context)

<b>applyanchor</b>	function	F rule
<b>applyorientation</b>	function	F simplerule
<b>convert</b>	function	F specialrule
<b>converters</b>	table	F updatefontstate
F analyze		T whatsit
F engine		S name
F lmtx		T json
F resyncbox		T actions
<b>enable</b>	function	F cleanup
<b>finalize</b>	function	F convert
<b>gethpos</b>	function	F finalize
<b>gethrpos</b>	function	F initialize
<b>getpos</b>	function	F outputfilename
<b>getrpos</b>	function	F prepare
<b>getvpos</b>	function	F wrapup
<b>helpers</b>	table	T flushers
<b>initialize</b>	function	F character
<b>install</b>	function	F popleaderlevel
<b>instances</b>	table	F pushleaderlevel
T empty		F rule
T actions		F setstate
F convert		F simplerule
F prepare		F specialrule
T flushers		F updatefontstate
F popleaderlevel		T whatsit
F pushleaderlevel		S name
T whatsit		T lua
S name		T actions
T js		F cleanup
T actions		F convert
F cleanup		F finalize
F convert		F initialize
F finalize		F outputfilename
F initialize		F prepare
F outputfilename		F wrapup
F prepare		T flushers
F wrapup		F character
T flushers		F popleaderlevel
F character		F pushleaderlevel
F popleaderlevel		F rule
F pushleaderlevel		F simplerule

F specialrule	T actions	
F updatefontstate	F cleanup	
T whatsit	F convert	
S name	F finalize	
T mpo	F initialize	
T actions	F outputfilename	
F finalize	F prepare	
F initialize	F wrapup	
T flushers	T flushers	
F character	F character	
F popleaderlevel	F flushimage	
F pushleaderlevel	F fontchar	
F rule	F group	
F simplerule	F literal	
F specialrule	F popgroup	
T whatsit	F popleaderlevel	
S name	F poporientation	
T mps	F pushgroup	
T actions	F pushleaderlevel	
F cleanup	F pushorientation	
F convert	F restore	
F finalize	F rule	
F initialize	F save	
F outputfilename	F setmatrix	
F prepare	F setstate	
F wrapup	F simplerule	
T flushers	F space	
F character	F specialrule	
F popleaderlevel	F startclipping	
F pushleaderlevel	F startmatrix	
F rule	F startmirroring	
F simplerule	F startrotation	
F specialrule	F startscaling	
F updatefontstate	F stopclipping	
T whatsit	F stopmatrix	
S name	F stopmirroring	
T none	F stoprotation	
T actions	F stopscaling	
T flushers	F updatefontstate	
F popleaderlevel	T whatsit	
F pushleaderlevel	S name	
T whatsit	<b>lmtxversion</b>	number
S name	<b>outputfilename</b>	function
T pdf	<b>report</b>	function

## effects (context)

<b>getoctaveloops</b>	function
<b>getoctavemethods</b>	function
<b>getoctavestatus</b>	function
<b>getoctavevariants</b>	function
<b>newoctave</b>	function
<b>octave</b>	function

<b>octavebytemap</b>	function
<b>perlinnoise</b>	function
<b>simplexangle</b>	function
<b>simplexdetail</b>	function
<b>simplexnoise</b>	function
<b>stepoctave</b>	function

# environment (context)

<b>argument</b>	function	<b>luafilechunk</b>	function
<b>arguments</b>	data table	<b>luatexengine</b>	string
<b>basicengines</b>	data table	<b>luatexfunctionality</b>	number
<b>currentrun</b>	number	<b>luatexverbose</b>	string
<b>definefilefallback</b>	function	<b>luatexversion</b>	number
<b>definefilesynonym</b>	function	<b>maxnofruns</b>	number
<b>engineflags</b>	data table	<b>oldhome</b>	string
<b>filename</b>	string	<b>originalarguments</b>	data table
<b>filenames</b>	table	<b>outputfilename</b>	string
<b>files</b>	table	<b>ownbin</b>	string
<b>filesynonyms</b>	data table	<b>ownmain</b>	string
<b>forcedruns</b>	number	<b>ownname</b>	string
<b>getargument</b>	function	<b>ownpath</b>	string
<b>globfiles</b>	function	<b>prerollrun</b>	boolean
<b>homedir</b>	string	<b>rawarguments</b>	data table
<b>initex</b>	boolean	<b>reconstructcommandline</b>	function
<b>initexmode</b>	boolean	<b>relativepath</b>	function
<b>initializearguments</b>	function	<b>setargument</b>	function
<b>initializefilenames</b>	function	<b>splitarguments</b>	function
<b>inputfilebarename</b>	string	<b>suffix</b>	string
<b>inputfilename</b>	string	<b>texfile</b>	function
<b>inputfilesuffix</b>	string	<b>texmfos</b>	string
<b>jobfilefullname</b>	string	<b>texos</b>	string
<b>jobfilename</b>	string	<b>texroot</b>	string
<b>jobfilesuffix</b>	string	<b>truefilename</b>	function
<b>kindofrun</b>	number	<b>uselua module</b>	function
<b>lmtxmode</b>	number	<b>usemodules</b>	function
<b>loadexamodes</b>	function	<b>validengines</b>	data table
<b>loadluafile</b>	function	<b>version</b>	string
<b>luafile</b>	function		

## experiments (context)

<b>data</b>	data table
<b>default</b>	function
<b>disable</b>	function
<b>enable</b>	function
<b>list</b>	function
<b>name</b>	string

<b>register</b>	function
<b>report</b>	function
<b>reset</b>	function
<b>show</b>	function
<b>value</b>	function
<b>values</b>	function

# figures (context)

<b>applyratio</b>	function	F resetdata	
<b>badname</b>	function	F resetstore	
<b>bases</b>	data table	F scan	
<b>bitmapimage</b>	function	F serialize	
<b>boxnumber</b>	number	T sizes	
<b>bytepalette</b>	function	B art	
<b>cachepaths</b>	data table	B bleed	
<b>check</b>	function	B crop	
<b>checkers</b>	data table	B media	
<b>conversions</b>	data table	B none	
<b>converters</b>	data table	B trim	
<b>current</b>	function	F storedata	
<b>defaultdepth</b>	number	F totable	
<b>defaultheight</b>	number	T types	
<b>defaultsearch</b>	boolean	N jbig2	
<b>defaultwidth</b>	number	N jp2	
<b>done</b>	function	N jpg	
<b>dummy</b>	function	N none	
<b>exists</b>	data table	N pdf	
<b>exists</b>	function	N png	
<b>formats</b>	data table	N stream	
<b>found</b>	data table	F wrap	
<b>get</b>	function	<b>include</b>	function
<b>getinfo</b>	function	<b>includers</b>	data table
<b>getpdfinfo</b>	function	<b>initialize</b>	function
<b>getrealpage</b>	function	<b>loaded</b>	data table
<b>guess</b>	function	<b>localpaths</b>	data table
<b>guessfromstring</b>	function	<b>magics</b>	data table
<b>hash</b>	function	<b>mergegoodies</b>	function
<b>identifiers</b>	data table	<b>nofmissing</b>	number
<b>identify</b>	function	<b>nofprocessed</b>	number
<b>images</b>	table	<b>order</b>	data table
F check		<b>palettes</b>	table
F checksize		<b>paths</b>	data table
F copy		<b>patterns</b>	data table
F create		<b>pop</b>	function
F embed		<b>preferquality</b>	boolean
F embedfromstore		<b>programs</b>	data table
F fetchdata		<b>push</b>	function
T keys		<b>qrcode</b>	function
F print		<b>registerpattern</b>	function

<b>registerresource</b>	function	<b>setconversion</b>	function
<b>registersuffix</b>	function	<b>setlookups</b>	function
<b>remappers</b>	data table	<b>setorder</b>	function
<b>resources</b>	data table	<b>setpaths</b>	function
<b>scale</b>	function	<b>suffixes</b>	data table
<b>set</b>	function	<b>used</b>	data table

## file (basic lua)

<b>addsuffix</b>	function	<b>needsupdating</b>	function
<b>basename</b>	function	<b>pathpart</b>	function
<b>checksum</b>	function	<b>readdata</b>	function
<b>collapsepath</b>	function	<b>removesuffix</b>	function
<b>copy</b>	function	<b>replacesuffix</b>	function
<b>dirname</b>	function	<b>reslash</b>	function
<b>expandname</b>	function	<b>robustname</b>	function
<b>extname</b>	function	<b>savechecksum</b>	function
<b>is_qualified_path</b>	function	<b>savedata</b>	function
<b>is_readable</b>	function	<b>size</b>	function
<b>is_rootbased_path</b>	function	<b>splitbase</b>	function
<b>is_writable</b>	function	<b>splitname</b>	function
<b>isreadable</b>	function	<b>splitpath</b>	function
<b>iswritable</b>	function	<b>suffix</b>	function
<b>join</b>	function	<b>suffixes</b>	function
<b>joinpath</b>	function	<b>suffixesonly</b>	function
<b>loadchecksum</b>	function	<b>suffixonly</b>	function
<b>nameonly</b>	function	<b>syncmtimes</b>	function
<b>nametotable</b>	function	<b>withinbase</b>	function
<b>needs Updating</b>	function		

## fio (extra lua)

<b>getposition</b>	function	<b>readinteger1le</b>	function
<b>read2dot14</b>	function	<b>readinteger2</b>	function
<b>readbytes</b>	function	<b>readinteger2le</b>	function
<b>readbytetable</b>	function	<b>readinteger3</b>	function
<b>readcardinal1</b>	function	<b>readinteger3le</b>	function
<b>readcardinal1le</b>	function	<b>readinteger4</b>	function
<b>readcardinal2</b>	function	<b>readinteger4le</b>	function
<b>readcardinal2le</b>	function	<b>readintegertable</b>	function
<b>readcardinal3</b>	function	<b>setposition</b>	function
<b>readcardinal3le</b>	function	<b>skipposition</b>	function
<b>readcardinal4</b>	function	<b>writecardinal1</b>	function
<b>readcardinal4le</b>	function	<b>writecardinal1le</b>	function
<b>readcardinaltable</b>	function	<b>writecardinal2</b>	function
<b>readcline</b>	function	<b>writecardinal2le</b>	function
<b>readcstring</b>	function	<b>writecardinal3</b>	function
<b>readdouble</b>	function	<b>writecardinal3le</b>	function
<b>readdoublele</b>	function	<b>writecardinal4</b>	function
<b>readfixed2</b>	function	<b>writecardinal4le</b>	function
<b>readfixed4</b>	function	<b>writedouble</b>	function
<b>readfloat</b>	function	<b>writedoublele</b>	function
<b>readfloatle</b>	function	<b>writefloat</b>	function
<b>readinteger1</b>	function	<b>writefloatle</b>	function

## floats (context)

<b>analysemethod</b>	function
<b>checkedpagefloat</b>	function
<b>collect</b>	function
<b>consult</b>	function
<b>flush</b>	function
<b>getvariable</b>	function
<b>hasstacked</b>	function

<b>nofstacked</b>	function
<b>pop</b>	function
<b>push</b>	function
<b>resave</b>	function
<b>save</b>	function
<b>stacked</b>	function

## font (basic tex)

<b>addcharacters</b>	function	<b>getmathspec</b>	function
<b>addquality</b>	function	<b>getparameterfields</b>	function
<b>current</b>	function	<b>gettextcharacterfields</b>	function
<b>define</b>	function	<b>id</b>	function
<b>getfont</b>	function	<b>max</b>	function
<b>getfontdimen</b>	function	<b>nextid</b>	function
<b>getfontfields</b>	function	<b>setfont</b>	function
<b>getfontspec</b>	function	<b>setfontdimen</b>	function
<b>getmathcharacterfields</b>	function	<b>xscaled</b>	function
<b>getmathindex</b>	function	<b>yscaled</b>	function

# fonts (context)

## **analyzers** table

- D features
- D initializers
- D methods
- F setstate
- D states
- B useunicodemarks

## **callbacks** table

- F compile
- F devirtualize

## **checkers** table

- F getmissing
- D mapping
- F missing
- F placeholder

## **cid** table

- F getmap
- F loadfile

## **collections** table

- F checkenabled
- F clonevector
- F define
- T definitions
- F direct
- F found
- F prepare
- F process
- F register
- F registermain
- F report
- F reset
- T rscales
- T vectors

## **constructors** table

- F addcharacters
- F addcoreunicodes
- F aftercopyingcharacters
- F applyfinalizers
- F applymanipulators
- F assignmathparameters
- F beforecopyingcharacters

- F beforepassingfonttotex

- D cache
- F calculatescale
- F checkedfeatures
- F checkedfilename
- F collectprocessors
- F currentfonthasfeature

- D designsizes
- F enhanceparameters

- T enhancers

- T afm
  - F apply
  - F patch
  - T patches
    - F register

- F report

- F register

- F report

- T otf
  - F addfeature

- F apply

- F enhance

- F patch

- T patches

- F register

- F report

- F register

- F report

- T tfm

- F apply

- F patch

- T patches

- F register

- F report

- F register

- F report

- N factor

- T features

- D afm

- D otf

- D tfm

F finalize	S defaultbasealternate
F getfeatureaction	S defaultnodealternate
F getmathparameter	D features
F getprivate	F featuresinitializer
T handlers	F featuresprocessor
T afm	T fixers
B autoprefixed	F getactualtext
D cache	F getalternate
D features	F getgsub
F getkern	F getkern
T helpdata	F getmultiple
D bothkerned	F getstreamhash
D leftkerned	F getsubstitution
D ligatures	T handlers
D rightkerned	F ctx_camelcasing
D texligatures	F devanagari_remove_joiners
F load	F devanagari_reorder_matras
T readers	F devanagari_reorder_pre_base_reordering_consonants
F getinfo	F devanagari_reorder_reph
F loadfont	F gpos_context
F loadshapes	F gpos_contextchain
F setfeatures	F gpos_cursive
B syncspace	F gpos_mark2base
N version	F gpos_mark2ligature
T otf	F gpos_mark2mark
F addfeature	F gpos_pair
F basemodeinitializer	F gpos_single
D cache	F gsub_alternate
F collectlookups	F gsub_context
T coverup	F gsub_contextchain
T actions	F gsub_ligature
F alternate	F gsub_multiple
F chainposition	F gsub_reversecontextchain
F chainsubstitution	F gsub_single
F kern	F trigger_space_kerns
F ligature	T helpers
F multiple	F blockligatures
F pair	F pardirstate
F single	F txtfirststate
F substitution	F load
F register	F loadoutlinedata
S stepkey	F loadstreamdata
F dataset	F modeinitializer
F datasetpositionprocessor	D mpscache

D pdfcache	T gsubhandlers
F plugininitializer	F alternate
F pluginprocessor	F chainedcontext
T plugins	F context
T text	F extension
D pngcache	F ligature
B pngenabled	F multiple
T readers	F reversechainedcontextsingl
F addunicodetable	F single
F avar	F gvar
F cbdt	F head
F cblc	T helpers
F cff	F axistofactors
F cff2	F cleanname
T cffencoder	F getaxisscale
F checkhash	F getfactors
F cmap	F getscales
F colr	F gotodatatable
F compact	F normalizedaxis
F condense	T normalizedaxishash
F cpal	F readvariationdata
F dsig	F reportskippedtable
F ebdt	F setvariabledata
F eblc	F hhea
F ebsc	F hmtx
F expand	F hvar
F extend	F kern
F fvar	F loadfont
F gdef	F loadshapes
F getcomponents	F loca
F getinfo	F math
F glyf	F maxp
F gpos	F mvar
T gposhandlers	F name
F chainedcontext	F os/2
F context	F pack
F cursive	F parsecharstrings
F extension	F post
F marktobase	F potracetocff
F marktligature	F registerextender
F marktmark	F rehash
F pair	F sbix
F single	F stat
F gsub	T streamreader

F close	F writecardinal1
F getposition	F writecardinal1le
F getsize	F writecardinal2
F look	F writecardinal2le
F open	F writecardinal3
F read2dot14	F writecardinal3le
F readbyte	F writecardinal4
F readbytes	F writecardinal4le
F readbytetable	F writeinteger1
F readcardinal	F writeinteger1le
F readcardinal1	F writeinteger2
F readcardinal1le	F writeinteger2le
F readcardinal2	F writeinteger3
F readcardinal2le	F writeinteger3le
F readcardinal3	F writeinteger4
F readcardinal3le	F writeinteger4le
F readcardinal4	F writestring
F readcardinal4le	F stripredundant
F readcardinaltable	F svg
F readchar	N tableversion
F readcline	F unifymissing
F readcstring	F unpack
F readfixed2	F vhea
F readfixed4	F vmtx
F readinteger	F vorg
F readinteger1	F vvar
F readinteger1le	F woff2otf
F readinteger2	F registerpalette
F readinteger2le	F registerplugin
F readinteger3	F reorderlookups
F readinteger3le	F scriptandlanguage
F readinteger4	F setdynamics
F readinteger4le	F setfeatures
F readintegertable	T statistics
F readsignedbyte	D usedfeatures
F readstring	D svgcache
F readtag	B svgenabled
F setposition	T tables
F size	D baselines
F skip	D features
F skiplong	D featuretypes
F skipposition	D languages
F skipshort	D scripts
F writebyte	F texthandler

T vectors	F combine	
T arab	T combiner	
T gpos	D commands	
N curs	D helpers	
N kern	D math	
N mark	D predefined	
N mkmk	N version	
T gsub	D whatever	
N calt	F hashfeatures	
N ccmp	F hashinstance	
N cswh	T hashmethods	
N dlig	F normal	
N fina	F virtual	
N init	F initializefeatures	
N isol	D loadedfonts	
N liga	N noffontsloaded	
N medi	N nofsharedfonts	
N mset	N nofsharedhashes	
N rclt	N nofsharedvectors	
N rlig	N privateoffset	
N version	D privateslots	
T pfb	F readanddefine	
F filterencoding	F registerfeature	
F filtermetadata	F registerscriptset	
F loadvector	F resetfeature	
N version	B resolvevirtualtoo	
T tfm	F scale	
D cache	F scaled	
D features	F setfactor	
N maxnestingdepth	F setfeature	
N maxnestingsize	F setmathparameter	
T readers	F setname	
F loadpk	B sharefonts	
F loadtfm	F trytosharefont	
F loadtfmvf	N version	
F loadvf	<b>current</b>	function
F pktopdf	<b>currentid</b>	function
F potracetopdf	<b>definers</b>	table
F showpk	F addlookup	
F reencode	F analyze	
F setfeatures	F applypostprocessors	
N version	F checkedmode	
T vf	F checkedscript	
T combinations	S defaultlookup	

- F define
- F getspecification
- F internal
- F loadfont
- F makespecification
- T methods
  - F install
  - D variants
- F read
- F register
- F registered
- F registerfallbackfont
- F registersplit
- F resetnullfont
- F resolve
- T resolvers
  - F file
  - F name
  - F spec

**definetypeface** function

**dropins** table

- F clone
- F getshape
- F getshapes
- F nextid
- F provide
- F registerglyph
- F registerglyphs
- F swap
- F swapone

**effects** table

**encodings** table

- T agl
  - D ctxcodes
  - D extras
  - D synonyms
  - D unicodes
- D cache
- F is\_known
- D known
- F load
- F make\_unicode\_vector
- D math
- N version

- enhanceid** function
- expansions** data table
- formats** data table
- getalternate** function
- getindices** function
- getkern** function
- getmultiple** function
- getsubstitution** function
- getters** table

- T alternate
- F opentype
- T kern
  - F opentype
  - F type1
  - F type3
- T multiple
  - F opentype
- T substitution
  - F opentype

**goodies** table

- D colorschemes
- T data
  - T common-math.lfg
    - S author
    - S comment
    - S copyright
  - B initialized
  - T mathematics
    - T tweaks
  - T presets
    - F addmathkerns
    - F braille
    - F eulertocalligraphic
    - F fallbacks
    - F moderntocalligraphic
    - F moveintegrals
    - F moveitalics
    - F pagellaradical
    - F rsfstoscript
    - F rsfsuprighttoscript
    - F scripttocalligraphic
    - F smallldigits
    - F wipeanchors
    - F wipeitalics

F xitsarabic  
 S name  
 S version  
 T dejavu-math  
 S author  
 S comment  
 S copyright  
 B initialized  
 T mathematics  
 T alternates  
 T dotless  
 S comment  
 S feature  
 N value  
 T bigslots  
 T parameters  
 N AccentBaseDepth  
 N AccentTopShiftUp  
 N DelimiterDisplayPercent  
 N DelimiterDisplayShortfall  
 N DelimiterPercent  
 N DelimiterShortfall  
 N DisplayOperatorMinHeight  
 N FlattenedAccentTopShiftUp  
 N FractionRuleThickness  
 S PrimeBaselineDropMax  
 S PrimeShiftUp  
 S PrimeShiftUpCramped  
 N SubscriptShiftDown  
 S SubscriptShiftDownWithSuperscript  
 N SuperscriptShiftUp  
 T tweaks  
 T aftercopying  
 S name  
 S version  
 T dejavu-text  
 S author  
 S comment  
 S copyright  
 T extensions  
 B initialized  
 S name  
 S version  
 D designsizes

D filenames  
 F getcompositions  
 T list  
 F load  
 F prepare\_features  
 F register  
 F registerpostprocessor  
 F report  
 T suffixes

**handlers**                    table

**hashes**                      table

D characters  
 D classes  
 D csnames  
 D descriptions  
 D dynamics  
 D emwidths  
 D exheights  
 D features  
 D identifiers  
 D italics  
 D lastmathids  
 D marks  
 D mathparameters  
 D modes  
 D originals  
 D parameters  
 T processes  
 D properties  
 D quads  
 D resources  
 T setdynamics  
 T shapes  
 D spaces  
 D spacings  
 T streams  
 D unicodes  
 D unislots  
 D variants  
 D xheights

**helpers**                    table

F addextraprivate  
 F addprivate  
 F appendcommands

F appendcommandtable	F startcolor	
F checkflags	F stopcolor	
F checkmerge	T vfspecials	
F checksteps	T backgrounds	
F collectanchors	T outlines	
F combineglyphs	<b>infofont</b>	function
D commands	<b>iterators</b>	table
F composecharacters	F characters	
F descriptiontoslot	F descriptions	
F dimenfactor	F glyphs	
F expandglyph	<b>loggers</b>	table
D extraprivates	F format	
F fontpatternhassize	F onetimemessage	
F getcoloredglyphs	F register	
F getdigitwidth	F reportdefinedfonts	
F getinstancespec	F reportusedfeatures	
F getparameters	<b>mappings</b>	table
F getprivatecharornode	F addtounicode	
F getprivatenode	F fromunicode16	
F getprivates	F getentry	
F getprivateslot	F loadfile	
F glyphdimenfactor	F loadline	
F hasprivate	F makenameparser	
F indextoslot	D overloads	
F isprivate	F reset	
F mathscriptslots	F tounicode	
F name	F tounicode16	
F nametoslot	F tounicode16sequence	
F newprivateslot	<b>metapost</b>	table
F prependcommands	F baseline	
F prependcommandtable	F boundingbox	
F privateslot	F boxtomp	
F registerglyphbox	F boxtompdimensions	
F scalecommands	F boxtomposition	
F setboxdirectly	F draw	
F setboxglyph	F fill	
F setboxglyphs	F glyph	
F setdigitwidth	F maxbounds	
F setmetaglyph	F paths	
F setmetaglyphs	F widthline	
D sharedprivates	F zeroline	
F splitfontpattern	<b>mode</b>	function
F tochar	<b>names</b>	data table
T vfinjectors	<b>nulldata</b>	data table

<b>privateoffsets</b>	table	D presets
B keepnames		F registerfallback
N mathbase		F registerfiles
N mathextrabase		F registerfontalternative
N textbase		F registerfontfamily
N textextrabase		F textfallback
<b>protrusions</b>	data table	F typeface
<b>readers</b>	table	F typescript
F afm		F userdata
F check_lua		<b>specifiers</b>
F check_tfm		table
F lua		D contextmerged
F ofm		F contextnumber
F opentype		D contextnumbers
F otf		D contextsetups
F pfb		F contexttostring
D sequence		F definecontext
F tfm		F mergecontext
F ttc		F presetcontext
F ttf		F registercontext
F woff		T scriptsets
F woff2		T af
<b>registersanitizer</b>	function	S language
<b>reserveid</b>	function	N number
<b>select</b>	table	S script
D alternatives		T always
F bodyfont		S autolanguage
D data		S autoscript
F default		B checkmissing
D defaults		B compoundhyphen
F definefallbackfamily		B curs
F definefontfamily		B kern
F definefontfamilypreset		B mark
D extras		B mkmk
F fallback		S mode
D fallbacks		N number
F features		S script
F filefallback		S textcontrol
F fontdata		B wipemath
F fontfallback		T arabic
F fontsynonym		B analyze
F goodies		S autolanguage
F mathfallback		S autoscript
D methods		B calt
		B ccmp

B clig	B pres
B curs	B pstf
B dlig	B psts
B fina	B rphf
B init	S script
B isol	B vatu
B kern	T bengali-two
S language	B abvm
B liga	B abvs
B mark	B akhn
B medi	B blwf
B mkmk	B blwm
S mode	B blws
N number	B calt
B rlig	B cjct
S script	B dist
T ba	B half
S language	B haln
N number	S indic
S script	B init
T bandw:overlay	B kern
B ccmp	S language
B dist	B locl
N number	S mode
T bengali-one	B nukt
B abvm	N number
B abvs	B pres
B akhn	B pstf
B blwf	B psts
B blwm	B rphf
B blws	S script
B calt	B vatu
B cjct	T boldened
B dist	S effect
B half	N number
B haln	T boldened-10
S indic	S effect
B init	N number
B kern	T boldened-15
S language	S effect
B locl	N number
S mode	T boldened-20
B nukt	S effect
N number	N number

T boldened-25	B kern
S effect	B liga
N number	B mark
T boldened-30	B mkmk
S effect	S mode
N number	N number
T ca	S script
S language	S textcontrol
N number	B wipemath
S script	T cy
T camelcasing	S language
B camelcasing	N number
N number	S script
T cn	T cz
S language	S language
N number	N number
S script	S script
T color	T de
B ccmp	S language
S color	N number
B dist	S script
N number	T default
T color:bitmap	S autolanguage
B ccmp	S autoscript
B dist	B checkmissing
N number	B compoundhyphen
B sbix	B curs
T color:overlay	B itlc
B ccmp	B kern
B colr	B liga
B dist	B mark
N number	B mkmk
T color:svg	S mode
B ccmp	N number
B dist	S script
N number	S textcontrol
B svg	B wipemath
T complete	T deo
S autolanguage	S language
S autoscript	N number
B checkmissing	S script
B compose	T devanagari-one
B compoundhyphen	B abvm
B curs	B abvs

B akhn	B rphf
B blwf	S script
B blwm	B vatu
B blws	T dingbats
B calt	S goodies
B cjct	S mode
B dist	N number
B half	B unicoding
B haln	T es
S indic	S language
B kern	N number
S language	S script
B locl	T et
S mode	S language
B nukt	N number
N number	S script
B pres	T f:fractions
B psts	B frac
B rkrf	N number
B rphf	T f:inferiors
S script	N number
B vatu	B subs
T devanagari-two	T f:kern
B abvm	B kern
B abvs	N number
B akhn	T f:kerns
B blwf	B kern
B blwm	N number
B blws	T f:oldstyle
B calt	N number
B cjct	B onum
B dist	T f:smallcaps
B half	N number
B haln	B smcp
S indic	T f:superiors
B kern	N number
S language	B sups
B locl	T f:tabular
S mode	N number
B nukt	B tnum
N number	T fi
B pres	S language
B psts	N number
B rkrf	S script

T followtext	B abvs
B liga	B akhn
N number	B blwf
T fr	B blwm
S language	B blws
N number	B calt
S script	B cjct
T fullprotrusion	B dist
N number	B half
S protrusion	B haln
T gr	S indic
S language	B kern
N number	S language
S script	B locl
T grek	S mode
N number	B nukt
S script	N number
T gujarati-one	B pres
B abvm	B psts
B abvs	B rkrf
B akhn	B rphf
B blwf	S script
B blwm	B vatu
B blws	T gurmukhi-one
B calt	B abvm
B cjct	B abvs
B dist	B akhn
B half	B blwf
B haln	B blwm
S indic	B blws
B kern	B calt
S language	B cjct
B locl	B dist
S mode	B half
B nukt	B haln
N number	S indic
B pres	B kern
B psts	S language
B rkrf	B locl
B rphf	S mode
S script	B nukt
B vatu	N number
T gujarati-two	B pres
B abvm	B pstf

B psts	B mark
B rphf	B medi
S script	B mkmk
B vatu	S mode
T gurmukhi-two	N number
B abvm	B reordercombining
B abvs	B rlig
B akhn	S script
B blwf	T hr
B blwm	S language
B blws	N number
B calt	S script
B cjct	T hu
B dist	S language
B half	N number
B haln	S script
S indic	T indic-common
B kern	B abvm
S language	B abvs
B locl	B akhn
S mode	B blwm
B nukt	B blws
N number	B calt
B pres	B dist
B pstf	B haln
B psts	S indic
B rphf	B kern
S script	S language
B vatu	B locl
T hebrew	S mode
B analyze	B nukt
S autolanguage	N number
S autoscript	B pres
B calt	B psts
B ccmp	B rphf
B clig	T inlinenumbers
B curs	N number
B dlig	B pnum
B fina	B tnum
B init	T is
B isol	S language
B kern	N number
S language	S script
B liga	T it

S language	B akhn
N number	B blwf
S script	B blwm
T ja	B blws
S language	B calt
N number	B cjct
S script	B dist
T jamoforms	B half
B ljmo	B haln
N number	S indic
B tjmo	B kern
B vjmo	S language
T just-os	B locl
S mode	S mode
N number	B nukt
B onum	N number
T kannada-one	B pref
B abvm	B pres
B abvs	B pstf
B akhn	B psts
B blwf	B rphf
B blwm	S script
B blws	T la
B calt	S language
B cjct	N number
B dist	S script
B half	T latn
B haln	N number
S indic	S script
B kern	T letterspacing
S language	B ccmp
B locl	B clig
S mode	B dlig
B nukt	S keepligatures
N number	B liga
B pref	N number
B pres	B rlig
B pstf	T ligatures
B psts	S autolanguage
B rphf	S autoscript
S script	B checkmissing
T kannada-two	B compoundhyphen
B abvm	B curs
B abvs	B kern

B liga	B blwm
B mark	B blws
B mkmk	B calt
S mode	B cjct
N number	B dist
S script	B half
S textcontrol	B haln
B wipemath	S indic
T lm-math-bold	B kern
S effect	S language
N number	B locl
T lowercasing	S mode
B lowercasing	B nukt
N number	N number
T malayalam-one	B pref
B abvm	B pres
B abvs	B pstf
B akhn	B psts
B blwf	B rphf
B blwm	S script
B blws	T math
B calt	B compactmath
B cjct	B flattenaccents
B dist	B kern
B half	S language
B haln	B mathalternates
S indic	S mathexpansion
B kern	S mode
S language	N number
B locl	S script
S mode	B ssty
B nukt	B wipemath
N number	T math-script
B pref	B compactmath
B pres	B flattenaccents
B pstf	B kern
B psts	S language
B rphf	B mathalternates
S script	S mathexpansion
T malayalam-two	S mode
B abvm	N number
B abvs	S script
B akhn	N ssty
B blwf	B wipemath

T math-scriptscript  
   B compactmath  
   B flattenaccents  
   B kern  
   S language  
   B mathalternates  
   S mathexpansion  
   S mode  
   N number  
   S script  
   N ssty  
   B wipemath  
 T math-text  
   B compactmath  
   B flattenaccents  
   B kern  
   S language  
   B mathalternates  
   S mathexpansion  
   S mode  
   N number  
   S script  
   B ssty  
   B wipemath  
 T mathematics  
   B compactmath  
   B flattenaccents  
   B kern  
   S language  
   B mathalternates  
   S mathexpansion  
   S mode  
   N number  
   S script  
   B wipemath  
 T mixed  
 T mongolian  
   S autolanguage  
   S autoscript  
   B calt  
   B checkmissing  
   B compoundhyphen  
   B curs  
   B fina

B init  
 B isol  
 B itlc  
 B kern  
 B liga  
 B mark  
 B medi  
 B mkmk  
 S mode  
 B mset  
 N number  
 B rclt  
 B rlig  
 S script  
 S textcontrol  
 B wipemath  
 T nl  
   S language  
   N number  
   S script  
 T none  
   B features  
   S mode  
   N number  
 T oldstyle  
   S autolanguage  
   S autoscript  
   B checkmissing  
   B compoundhyphen  
   B curs  
   B kern  
   B liga  
   B mark  
   B mkmk  
   S mode  
   N number  
   B onum  
   S script  
   S textcontrol  
   B wipemath  
 T oldstylenumbers  
   N number  
   B onum  
 T original

S autolanguage	B blws
S autoscript	B calt
B checkmissing	B cjct
B compoundhyphen	B dist
B curs	B haln
B itlc	S indic
B kern	B kern
B liga	S language
B mark	B locl
B mkmk	S mode
S mode	B nukt
N number	N number
S script	B pres
S textcontrol	B pstf
B wipemath	B psts
T oriya-one	B rphf
B abvm	S script
B abvs	T pl
B akhn	S language
B blwf	N number
B blwm	S script
B blws	T primes
B calt	N number
B cjct	B primes
B dist	T pt
B haln	S language
S indic	N number
B kern	S script
S language	T quality
B locl	S expansion
S mode	N number
B nukt	S protrusion
N number	T recommended
B pres	S autolanguage
B pstf	S autoscript
B psts	B calt
B rphf	B checkmissing
S script	B clig
T oriya-two	B compoundhyphen
B abvm	B curs
B abvs	B itlc
B akhn	B kern
B blwf	B liga
B blwm	B mark

B mkmk	B ccmp
S mode	B curs
N number	B fina
B rlig	B init
S script	B isol
S textcontrol	B kern
B wipemath	S language
T reordercombining	B mark
N number	B medi
B reordercombining	B mkmk
T ro	S mode
S language	N number
N number	B rlig
S script	T simplearabic
T ru	B analyze
S language	S autolanguage
N number	S autoscript
S script	B calt
T semitic-complete	B ccmp
B analyze	B curs
S autolanguage	B fina
S autoscript	B init
B calt	B isol
B ccmp	B kern
B clig	S language
B curs	B mark
B dlig	B medi
B fina	B mkmk
B init	S mode
B isol	N number
B kern	B rlig
S language	S script
B liga	T simplehebrew
B mark	B analyze
B medi	S autolanguage
B mkmk	S autoscript
S mode	B calt
N number	B ccmp
B rlig	B curs
T semitic-simple	B fina
B analyze	B init
S autolanguage	B isol
S autoscript	B kern
B calt	S language

B mark	B curs
B medi	B dlig
B mkmk	B fin2
S mode	B fin3
N number	B fina
B rlig	B init
S script	B isol
T sk	B kern
S language	S language
N number	B liga
S script	B mark
T sl	B med2
S language	B medi
N number	B mkmk
S script	S mode
T slanted	N number
N number	B rlig
N slant	S script
T smallcaps	T system:tabnum
S autolanguage	B lnum
S autoscript	N number
B checkmissing	B tnum
B compoundhyphen	T tabledigits
B curs	N number
B kern	B tabledigits
B mark	B tnum
B mkmk	T tabulardigits
S mode	N number
N number	B pnum
S script	B tnum
B smcp	T tamil-one
S textcontrol	B abvm
B wipemath	B abvs
T sv	B akhn
S language	B blwm
N number	B blws
S script	B calt
T syriac	B dist
B analyze	B half
S autolanguage	B haln
S autoscript	S indic
B calt	B kern
B ccmp	S language
B clig	B locl

S mode	S language
B nukt	B locl
N number	S mode
B pref	B nukt
B pres	N number
B psts	B pref
B rphf	B pres
S script	B pstf
T tamil-two	B psts
B abvm	B rphf
B abvs	S script
B akhn	T telugu-two
B blwm	B abvm
B blws	B abvs
B calt	B akhn
B dist	B blwf
B half	B blwm
B haln	B blws
S indic	B calt
B kern	B cjct
S language	B dist
B locl	B half
S mode	B haln
B nukt	S indic
N number	B kern
B pref	S language
B pres	B locl
B psts	S mode
B rphf	B nukt
S script	N number
T telugu-one	B pref
B abvm	B pres
B abvs	B pstf
B akhn	B psts
B blwf	B rphf
B blwm	S script
B blws	T th
B calt	S language
B cjct	N number
B dist	S script
B half	T tibetan
B haln	B abvm
S indic	B abvs
B kern	S autolanguage

S autoscript	B flattenaccents
B blwm	B kern
B blws	S language
B calt	B mathalternates
B ccmp	S mathexpansion
B checkmissing	S mode
B compoundhyphen	N number
B curs	S script
B kern	B wipemath
S language	T vn
B liga	S language
B locl	N number
B mark	S script
B mkmk	T zero
S mode	N number
N number	B zero
S script	F showcontext
S textcontrol	F splitcontext
B wipemath	D synonyms
T tr	D variants
S language	<b>symbols</b> table
N number	T emoji
S script	F checked
T uk	F resolved
S language	F uselibrary
N number	<b>tables</b> table
S script	<b>toeffect</b> function
T uppercasing	<b>tracers</b> table
N number	<b>treatments</b> table
B uppercasing	F applyfixes
T us	D data
S language	S filename
N number	F ignoredfile
S script	F report
T virtualmath	F trace
B compactmath	<b>typefaces</b> table

# functions (context)

**dummy** function

# globaldata (context)

<b>CONTEXTLMTXMODE</b>	number	F colorcomponents
<b>LUAFORMAT</b>	number	D counts
<b>LUAMAJORVERSION</b>	number	B couple
<b>LUAMINORVERSION</b>	number	F currentmodel
<b>LUATEXENGINE</b>	string	F currentnamedmodel
<b>LUATEXFORMATID</b>	number	D data
<b>LUATEXFUNCTIONALITY</b>	number	N default
<b>LUATEXVERBOSE</b>	string	F defineintermediatecolor
<b>LUATEXVERSION</b>	number	F definemultitonecolor
<b>LUAVERSION</b>	number	F defineprocesscolor
<b>MP</b>	function	F defineprocesscolordirect
<b>SAVEDREQUIRE</b>	function	F definesimplegray
<b>aes</b>	table	F definespotcolor
F decode		F definetransparency
F encode		F enable
F random		F filter
<b>arg</b>	table	N forced
<b>assert</b>	function	F forcedmodel
<b>attributes</b>	table	F forcesupport
T alternates		F formatcolor
N attribute		F formatgray
D data		F formatluminance
F enable		F formatluminanceratio
F handler		F getpagecolormodel
F register		F gray
D registered		F graytoHSV
D values		F handler
F applyoverloads		F hsvtorgb
F checkvalues		F hsvtorgb
T colorintents		F hwbtorgb
N attribute		F iccprofile
D data		F isblack
F enable		F labtolch
F handler		F labtorgb
F register		F labtoxyz
D registered		F lchtoLab
T colors		F lchtorgb
N attribute		N main
F cmyk		S model
F cmyktorgb		D models
F cmyktorgb		F mpcolor

F mnamedcolor	F handler
F mpoptions	F register
F mprgbcolor	D registered
F namedcolorattributes	D values
N none	F getvalue
F popset	F getvalues
F processcolorcomponents	T handlers
F pushset	F hasvalues
F register	D list
D registered	F markasoverload
F registerspotcolor	D names
F rgb	T negatives
F rgbbytes	N attribute
F rgbtocmyk	D data
F rgbtogray	F enable
F rgbtohsv	F handler
F rgbtoxyz	F register
N selector	D registered
F setlist	F set
F setmodel	D numbers
F setpagecolormodel	F ofnode
D sets	F private
F spec	F public
F spot	F registervalue
F spotcolorname	F restore
F spotcolorparent	F save
F spotcolorvalue	F setcleaner
B supported	F showcurrent
F toattributes	T states
F transparencycomponents	F disabletriggering
B triggering	F enabletriggering
F usecolors	F finalize
D valid	F initialize
F value	F process
D values	F selective
B weightgray	F simple
F xyztolab	F stacked
F xyztorgb	F stacker
D counts	F system
F define	F tooverloads
T effects	T transparencies
N attribute	N attribute
D data	D data
F enable	F enable

F forcesupport	D tables	
F handler	F getcallbackstate	
N none	T included	
F register	B context	
D registered	B date	
B supported	B id	
F toattribute	B metadata	
B triggering	B pdf	
F value	F initialize	
D values	F latelua	
N unsetvalue	T nodeinjections	
D values	F nothing	
T viewerlayers	F openout	
N attribute	T registered	
F cleanup	T registrations	
D data	F setencryption	
F define	T tables	
F definedlayoutcomponent	F writeout	
F enable	<b>basexx</b>	table
F forcesupport	F decode16	
F handler	F decode64	
B hasorder	F decode85	
D listwise	F decodeLZW	
F register	F decodeRL	
D registered	F encode16	
F resolve_begin	F encode64	
F resolve_end	F encode85	
F resolve_reset	F encodeLZW	
F resolve_step	F encodeRL	
D scopes	<b>bibtex</b>	table
F setfeatures	<b>bit32</b>	table
F setup	F arshift	
F start	F band	
F stop	F bnot	
B supported	F bor	
D values	F btest	
<b>backends</b>	F bxor	
F closeout	F extract	
T codeinjections	F lrotate	
F registerboxresource	F lshift	
F registerfont	F replace	
F restoreboxresource	F rrotate	
S current	F rshift	
T defaults	<b>bitset</b>	table

F asstring  
F get  
F new  
F reset  
F set  
F totable  
F traverse  
F wipe

**blobs** table

F append  
F dimensions  
F dispose  
F new  
F pack  
F strdp  
F strhd  
F strht  
F strwd  
F tohpack  
F tonodes  
F tovpack  
F write

**boolean** table

F tocontext  
F tonumber

**buffers** table

F append  
F assign  
F collectcontent  
F empty  
F erase  
F exists  
F get  
F getcontent  
F getctxlua  
F getlines  
F getmkvi  
F gettex  
F loadcontent  
T parallel  
F define  
F hassomecontent  
F next  
F place

F reset  
F save  
F prepend  
F raw  
F run  
F samplefile  
F splitsamplefile  
F undent

**builders** table

F checkparcontext  
F checksidefloat  
T hpack  
F qualityactions  
F report  
F show  
T kernel  
F collapsing  
F hyphenating  
F kerning  
F ligaturing  
F mlisttohtml  
T paragraphs  
F keeptogether  
F registertogether  
F tag  
F parpassidentifier  
D passnames  
T profiling  
F add  
F addrivers  
F boxlinehandler  
F distance  
F fixedprofile  
F get  
F getrivers  
F list  
F pagehandler  
F pagelinehandler  
F profilebox  
F profilelines  
F set  
F setlines  
F registerpasspasscallback  
T vpack

F qualityactions  
F report  
T vspaceing  
D categories  
F checkstrutdepth  
F collapsevbox  
F definesnapmethod  
B fixed  
F flushcontributions  
F forcepageflush  
F forcestrutdepth  
F getnofpreviouslines  
F inject  
F injectdisable  
F injectnowhite  
F injectpenalty  
F injectskip  
F interceptsamepagecontent  
F pagehandler  
F pageoverflow  
F popatsame  
F pushatsame  
F setmap  
F setskip  
F snapbox  
F synchronizepage  
F tocategories  
F tocategory  
F vboxhandler

**bytemap** table

F bounds  
F clip  
F copy  
F dimensions  
F domain  
F downgrade  
F downsample  
F fillgray  
F fillrgb  
F filter  
F getbyte  
F getbytes  
F getvalue  
F hasbytegray

F hasbyterange  
F hasbytergb  
F new  
F newdomain  
F overlay  
F process  
F reduce  
F reset  
F setgray  
F setgrayadd  
F setgraymin  
F setrgb  
F slicegray  
F slicerange  
F slicergb  
F totable

**caches** table

S base  
F collapsecontent  
F configfiles  
F contentstate  
T defaults  
F getfirstreadablefile  
F getreadablepaths  
F getwritablepath  
F hashed  
F is\_writable  
F loadcontent  
F loaddata  
S more  
F savecontent  
F savedata  
F setfirstwritablefile  
F setluaname  
F treehash  
F usedpaths

**callback** table

F find  
F getindex  
F getoptions  
F getoptionvalues  
F getstate  
F getstatevalues  
F known

F list	N intercept_lua_error
F names	N intercept_tex_error
F register	N italic_correction
F setoptions	N kerning
F setstate	N ligaturing
F testonly	N linebreak
F usage	N linebreak_check
<b>callbacks</b>	N linebreak_quality
	N local_box
	N make_extensible
F freeze	N math_rule
T functions	N missing_character
F start_page_number	N mlist_to_hlist
F stop_page_number	N open_data_file
F getcomment	N packed_vbox
F getstates	N page_boundary
F known	N paragraph_context
T list	N paragraph_pass
N alignment	N post_linebreak
N append_adjust	N pre_dump
N append_line	N pre_linebreak
N append_migrate	N pre_output
N append_to_vlist	N process_character
N balance_boundary	N process_jobname
N balance_check	N quality_font
N balance_insert	N register_extensible
N begin_paragraph	N show_build
N buildpage	N show_error_message
N define_font	N show_loners
N delayed_glue	N show_lua_call
N find_format_file	N show_vsplitt
N find_log_file	N show_warning_message
N get_attribute	N show_whatst
N get_math_dictionary	N start_file
N get_noad_class	N start_run
N glyph_run	N stop_file
N handle_overload	N stop_run
N handle_uinsert	N tail_append
N handle_uleader	N test_only
N hpack	N trace_memory
N hpack_quality	N vpack
N hyphenate	N vpack_quality
N insert_boundary	N wrapup_run
N insert_check_split	
N insert_distance	
N insert_par	T names

F optimizer  
T optionbits  
T optioncodes  
  N direct  
  N trace  
F pop  
F push  
F register  
F report  
T statebits  
T statecodes  
  N disabled  
  N frozen  
  N fundamental  
  N private  
  N selective  
  N set  
  N touched  
  N tracing

**catcodes**                   table

D names  
D numbers  
F register

**characterkern**           function

**characters**             table

F addcharacternames  
F adobename  
D bidi  
F blockrange  
D blocks  
D can\_have\_space  
T casemap  
D categories  
F category  
D categorytags  
T classifiers  
D collapsed  
D combined  
F contextname  
D csletters  
D data  
D decomposed  
F description  
D descriptions

D detailtags  
T directions  
T emoji  
  F compact  
  F known  
  F resolve  
F emojiized  
D encodes  
D entities  
D fallbacks  
D filters  
T fractions  
F fromnumber  
D fschars  
D fscodes  
F getrange  
D graphemes  
D hangul  
T indicgroups  
F initialize  
D is\_character  
D is\_command  
D is\_hyphenator  
D is\_letter  
D is\_mark  
D is\_nothing  
D is\_punctuation  
D is\_spacing  
D is\_symbol  
D lchars  
F lcode  
D lccodes  
F lettered  
D lhash  
D linebreaks  
F lower  
D mathlists  
T mirrors  
D otfscripts  
D ranges  
F registerentities  
F remap\_hangul\_syllabe  
T scripthash  
F setactivecatcodes

F setlettercatcodes  
 F setothercatcodes  
 F shape  
 F shaped  
 D shash  
 D shchars  
 D shcodes  
 F showstring  
 D specialchars  
 D specials  
 T splits  
 T subscripts  
 T superscripts  
 D synonyms  
 T tex  
 D accentmapping  
 D commandmapping  
 F defineaccents  
 F safechar  
 F strttextoutf  
 F strtoutfpattern  
 F toutf  
 F toutfpattern  
 T textclasses  
 F tonumber  
 D ucchars  
 F uccode  
 D uccodes  
 D uhash  
 F unicodechar  
 F upper  
 D verbosemarks

## chemistry

F component  
 F define  
 D definitions  
 S format  
 F inlinechemical  
 S instance  
 S method  
 F molecule  
 U moleculeparser  
 F start  
 F stop

table

T syntax  
 F undefine  
**collectgarbage**      function  
**commands**            table  
 F Alphabetic  
 F MPLIBconvertfollowtext  
 F MPLIBconvertoutlinetext  
 F MPc  
 F MPd  
 F MPfromhash  
 F MPH  
 F MPll  
 F MPlr  
 F MPLs  
 F MPn  
 F MPp  
 F MPpadata  
 F MPplus  
 F MPpos  
 F MPr  
 F MPrest  
 F MPrs  
 F MPul  
 F MPur  
 F MPw  
 F MPwhd  
 F MPx  
 F MPxy  
 F MPxywhd  
 F MPy  
 F Romannumerals  
 F actualday  
 F actualmonth  
 F actualyear  
 F adaptfontfeature  
 F adaptivecheckbox  
 F addbtxentry  
 F addcounter  
 F adddefaultsuffix  
 F addfeature  
 F addfontpath  
 F addgrapheme  
 F addlinenumbers  
 F addlinklistelement

F addreplacements	F bf
F addreplacementslist	F bi
F addrivers	F bitmapimage
F addtocolumnset	F bitwise
F addtocolumnsetmvl	F bitwiseand
F addtojavascriptpreamble	F bitwiseflip
F addtolist	F bitwiseneil
F align_point_delta	F bitwisenet
F allinputpaths	F bitwiseor
F alphabetic	F bitwiseset
F analysefloatmethod	F bitwiseshift
F analyzeitemgroup	F bitwisexor
F analyzelist	F blockcolumnset
F analyzelocalanchors	F blockligatures
F analyzeregister	F boolcase
F analyzerotate	F boxdir
F analyzeupcomingitemgroup	F boxline
F applypattern	F boxlinedp
F applytobox	F boxlineht
F applytofirstcharacter	F boxlineil
F arraycompare	F boxlinein
F arrayequals	F boxlineir
F arraymaxvalue	F boxlinelh
F arrayminvalue	F boxlinelp
F arraysize	F boxlinels
F arrayvalue	F boxlinemaxdp
F ascender	F boxlinemaxht
F askedreference	F boxlinemaxwd
F assignbuffer	F boxlinend
F async	F boxlinenh
F attachinsertion	F boxlinew
F attachinsertions	F boxlinerh
F atwordboundary	F boxlinerp
F autofinishstructurelevels	F boxliners
F autoinsertnextspace	F boxlines
F automigrationcodestring	F boxlinewd
F autonextstructurelevel	F boxoptioncodestring
F autorule	F boxrangedp
F autosetups	F boxrangeht
F autostarttext	F boxrangewd
F autostoptext	F boxtostring
F badnessmodecodestring	F bposcolumn
F balanceshapeextra	F bposcolumnregistered
F benchmarktimer	F bs

F btxabbreviatedjournal	F btxpreparelistentries
F btxaddentry	F btxremapauthor
F btxaddjournal	F btxsavedataset
F btxauthor	F btxsavejournallist
F btxauthorfield	F btxsetdataset
F btxauthorregister	F btxsetentry
F btxcmdstring	F btxsetregister
F btxcollectlistentries	F btxsetspecification
F btxcurrentfirstnames	F btxshortcut
F btxcurrentinitials	F btxshowauthorremapping
F btxcurrentjuniors	F btxsingularorplural
F btxcurrentsurnames	F bxtoregister
F btxcurrentvons	F btxusedataset
F btxdetail	F btxuservariable
F btxdirect	F build_page_after_shipout
F btxdoif	F build_page_before_shipout
F btxdoifelse	F build_page_setup
F btxdoifelsecitedone	F capheight
F btxdoifelsecombiinlist	F charactercontrolcodestring
F btxdoifelsematches	F chardescription
F btxdoifelsesameasprevious	F checkcolumnset
F btxdoifelseuservariable	F checkcolumnsetmvl
F btxdoifnot	F checkcountersetup
F btxentrytobuffer	F checkedconversion
F btxentrytostring	F checkedemoji
F btxexpandedjournal	F checkedpagefloat
F btxfetchlistentries	F checkinjector
F btxfield	F checkinterfacechain
F btxfirstofrange	F checkmarkedpages
F btxflush	F checknesting
F btxflushlistcombi	F checkspacingavailable
F btxflushlistentry	F checkstrutdepth
F btxflushlisttag	F chemicalcomponent
F btxflushmarked	F chinesenumerals
F btxflushpages	F chr
F btxhandlecite	F classoptioncodestring
F btxhandlenocite	F cleancolumnset
F btxlastofrange	F cleanfontname
F btxlistvariant	F cleanupattributes
F btxloaddefinitionfile	F cleanupbox
F btxloadjournallist	F cleanuplayers
F btxloadreplacementfile	F clonefield
F btxmissing	F closein
F btxoneorrange	F closeout

F codedef	F convertbtxdatasettoxml
F collectedmath	F converteddimen
F collectfloat	F convertmpstopdf
F collecthelp	F copyboxfromcache
F columnsetbalancefirst	F copyboxline
F columnsetbalancelast	F copyposition
F columnsetbalancepage	F cos
F columnsetcolumnwidth	F cosd
F columnsetdisablewide	F ctxfunction
F columnsetenablewide	F ctxluamatch
F columnsetgoto	F ctxluamatchfile
F columnsethascontent	F ctxresetter
F columnsethspan	F ctxscanner
F columnsetlastfuture	F currentcomponent
F columnsetlastmvl	F currentdate
F columnsetlimit	F currentdesignsize
F columnsetnoto	F currentenvironment
F columnsetresetdirect	F currentfontinstancespec
F columnsetresetshapeextra	F currentposthyphenchar
F columnsetreshape	F currentprehyphenchar
F columnsetsblockrows	F currentproduct
F columnsetsetshapeextra	F currentproject
F columnsetshape	F currentsectiontolist
F columnsetshapebalancecheck	F datasetsize
F columnsetshapebalanceextend	F datasetvariable
F columnsetshapecolumn	F day
F columnsetshapecount	F daynmem
F columnsetshapeindex	F dayname
F columnsetshapepage	F decimals
F columnsetshapesetbalancerange	F decrementcounter
F columnsetshapeslots	F decrementsubcounter
F columnsetshapespread	F deferredenhancelist
F columnsetshapevsize	F deferredenhancereference
F columnsetshapeworst	F deferredenhanceregister
F columnsetshowgrid	F defineaccents
F columnsetshowshape	F defineattribute
F columnsetshowtracedgrid	F defineboundary
F columnsetstate	F definebreakpoint
F columnsetstatus	F definebreakpoints
F combineglyphs	F definecharacterspacing
F component	F definechemical
F concatcommalist	F definecolumnset
F consultfloat	F defineconversion
F continueifinputfile	F definecounter

F definedlayoutcomponent	F depthnumber
F definefallbackfamily	F depthofstring
F definefield	F descender
F definefieldset	F detachinsertions
F definefilefallback	F diagnostic
F definefilesynonym	F digits_normal
F definefont_one	F digits_reverse
F definefont_two	F directboxfromcache
F definefontcolorpalette	F disableautofontscript
F definefontfamily	F disablecollectingmath
F definefontfamilypreset	F disabledirectives
F definefontfeature	F disableexperiments
F definefontscriptset	F disablejobsave
F definefontsolution	F disableparbuilder
F definehyphenationfeatures	F disableregime
F defineinsertion	F disablespellchecking
F defineintermediatecolor	F disablestatetriggering
F definelabcolorglobal	F disablestream
F definelabcolorlocal	F disabletrackers
F definelabels	F discardfromlist
F definelanguage	F discoptioncodestring
F definelinkedlist	F disposeboxesincache
F definemathpreset	F disposeuatable
F definemultitonecolorglobal	F doanalyzeframedbox
F definenamespace	F doif
F definenote	F doifcounter
F defineparallel	F doifelse
F defineparbuilder	F doifelseblack
F defineprocesscolordummy	F doifelseboxincache
F defineprocesscolorglobal	F doifelsebuffer
F defineprocesscolorlocal	F doifelsebufferempty
F defineprogram	F doifelsecharinfont
F definereference	F doifelseconverter
F defineregister	F doifelsecounter
F definesectionlevels	F doifelsecounteractive
F definespotcolorglobal	F doifelsecurrentfonthasfeature
F definestructureblock	F doifelseedimenstring
F definestructureset	F doifelsedrawingblack
F definesubcolumnset	F doifelsefieldcategory
F definetransparency	F doifelsefieldset
F definetransparencyglobal	F doifelsefiledefined
F definetypeface	F doifelsefileexist
F defineviewerlayer	F doifelsefirstchar
F delayedcolumnsetsheet	F doifelsefirstsectionpage

F doifelsefontfeature	F doifelsevalidhashedfiles
F doifelsefontpresent	F doifelsevisualizer
F doifelseindented	F doifmarkedpage
F doifelseinelement	F doifnot
F doifelseinputfile	F doifnotcounter
F doifelseleapyear	F doifnotecontent
F doifselisthasentry	F doifnotsame
F doifselisthasnumber	F doifnothing
F doifselisthaspage	F doifposition
F doifselisthastitle	F doifsame
F doifselemarkedcontent	F doifsomething
F doifselemarkedpage	F doifunknownfontfeature
F doifselmessage	F domainattribute
F doifselnoteonsamepage	F doreshapeframedbox
F doifselobjectfound	F doresyncframedbox
F doifselobjectreferencefound	F dosaveposition
F doifselolderversion	F dosavepositionplus
F doifseloverlapping	F dosavepositionwhd
F doifselparallel	F dosetposition
F doifselparentfile	F dosetpositionbox
F doifselpathexist	F dosetpositionplus
F doifselpendingpagecontent	F dosetpositionstrut
F doifselposition	F dosetpositionstrutkind
F doifselpositiononpage	F dosetpositionwhd
F doifselpositionsonsamepage	F dostarttextfile
F doifselpositionsonthispage	F dostoptextfile
F doifselpositionsused	F doublescriptmodecodestring
F doifselrangeonpage	F droptablegroup
F doifselreference	F elapsedsteptime
F doifselreferencechecked	F elapsedtime
F doifselreferenced	F embedimagefromstore
F doifselrighttoleftinbox	F enablealignmentcharacter
F doifselesame	F enablealignskips
F doifselomething	F enableasciimode
F doifselspaces	F enableautofences
F doifselstackedfloats	F enableautofontscript
F doifselstructureblockempty	F enablebackgroundalign
F doifselssynonymshown	F enablebackgroundboxes
F doifselssynonymused	F enablecollectingmath
F doifselsetaggednoteonsamepage	F enablecolor
F doifselseurldefined	F enablecolorintents
F doifselseutfmathaccent	F enablecrlf
F doifselseutfmathfiller	F enabledirectives
F doifselseutfmathlimop	F enabledriver

F enableexperiments	F figure_nof_registered_pages
F enablefontcolorsschemes	F figure_register_page
F enablehidecontent	F figuresetdimensions
F enablemathalignrelocate	F filebasename
F enablematrixornaments	F filedirname
F enablematrixrules	F filenameonly
F enableparbuilder	F filesuffix
F enableregime	F filterdefaultreference
F enablescriptunstacking	F filterreference
F enablesidefloatchecker	F finalizeobjectbox
F enablespellchecking	F finalizeshipoutbox
F enablestacking	F findregisterinternal
F enablestatetriggering	F finishcolumnsetflush
F enablestream	F finishexport
F enableswapping	F firstinset
F enabletighten	F firstsectionpage
F enabletrackers	F firstsubcountervalue
F enabletransparency	F flagcodestring
F enableutf	F flushcolumnsetareas
F enhancecelinkedlist	F flushcolumnsetcolumn
F enhancecelist	F flushfloat
F enhanceceregister	F flushlabeledfloat
F enhancesynonym	F flushnoterange
F environment	F flushnotes
F eposcolumn	F flushpageblocks
F eposcolumnregistered	F flushpageinjectionsafter
F erasebuffer	F flushpageinjectionsbefore
F execute	F flushpostponedblocks
F exportbox	F flushpostponednotes
F exportformdata	F flushstream
F exportreferences	F flushstreamcopy
F expression	F fontchar
F extendregister	F fontcharbyindex
F extendregisterlate	F fontcollectionclone
F extensiblecode	F fontcollectiondefine
F fakeword	F fontcollectionprepare
F featureattribute	F fontcollectionregister
F feedback	F fontcollectionreport
F fetchlanguagetext	F fontcollectionreset
F fetchmultipar	F fontlookupgetkey
F fetchposboxes	F fontlookupgetkeyofindex
F fetchterminaldata	F fontlookupinitialize
F figure_flush_registered_pages	F fontlookupnofound
F figure_mergegoodies	F forceendjob

F forcepageflush	F getinternallistreference
F forcequitjob	F getinternalorderreference
F forcestrutdepth	F getmathblobindex
F format	F getmathblobmapping
F formatcolor	F getmathcharone
F formatgray	F getmathchartwo
F formatluminance	F getmathmathblob
F formatluminanceratio	F getmathtextblob
F formatone	F getmathvariant
F framedoutline	F getmessage
F from	F getmpextensions
F frozenparcodestring	F getnaturaldimensions
F frule	F getnaturalwd
F getMPdata	F getnofpreviouslines
F getbidimode	F getnotestate
F getbodyfontsizes	F getnotestorecount
F getboxcountfromcache	F getnotestoreflushed
F getboxdpfromcache	F getobjectdimensions
F getboxfromcache	F getobjectreference
F getboxhtdpfromcache	F getobjectreferencepage
F getboxhtfromcache	F getparshape
F getboxwdfromcache	F getparwrapper
F getbuffer	F getprivatechar
F getbuffercontent	F getprivateglyphslot
F getbufferctxlua	F getprivatemathchar
F getbuffermkvi	F getprivateslot
F getbuffertext	F getprogram
F getcharactercasingcategory	F getrandomdimen
F getclubpenalties	F getrandomfloat
F getcurrentprefixspec	F getrandomnumber
F getcurrentreferencelabel	F getrandomseed
F getcurrentreferencemetadata	F getreadfilename
F getdefaultfieldvalue	F getreferencesectionnumber
F getdisplaywidowpenalties	F getrivers
F getdocumentargument	F getsetupstring
F getdocumentfilename	F getshapeparameter
F getfieldcategory	F getsomefullstructurenumber
F getfile	F getsomestructurenumber
F getfirstcharacter	F getspecificstructuretitle
F getfloatvariable	F getstructurelevel
F getfromluatable	F getstructurenumber
F getfullstructurenumber	F getsubstring
F getinterlinepenalties	F getsynchronizemarking
F getinternalcachedlistreference	F geturl

F getvisual	F ifsystemmode
F getwidowpenalties	F iftext
F globalpopmacro	F ifxml
F globalpushmacro	F ifxmlatt
F gluetoinesinbox	F ifxmlattempty
F glyhptioncodestring	F ifxmlempty
F gobblenested	F ifxmlselfempty
F gotocolumnsetslot	F ifxmltext
F grabbuffer	F ignorefile
F groupcodestring	F ignoretagsinexport
F groupsetgroup	F immediatemessage
F grph_nodes_initialize	F includesvgbuffer
F grph_nodes_register	F includesvgfile
F grph_nodes_reset	F incrementcounter
F grph_nodes_resolve	F incrementsubcounter
F handlemathhang	F inhibitprimitive
F hboxtovbox	F initializeexport
F heightofstring	F initializejob
F helpaction	F initializemathcollapsing
F helpreference	F initializemathfencing
F hour	F initializemathitalics
F hpackbox	F initializemathkernpairs
F hpackedbox	F initializemathnumbers
F hsplit	F initializemathspacing
F hyphenateddigits	F initializestream
F hyphenatedlist	F initializetexdirectives
F hyphenationcodestring	F initializetexexperiments
F ic	F initializetextrackers
F idxfromluatable	F injectcurrentreference
F if_common	F injectcurrentreferencehtdp
F ifallmodes	F injectdisable
F ifbitwiseand	F injectnowhite
F ifblobindexdone	F injectreference
F ifboxhaslist	F injectvpenalty
F ifcommon	F injectvskip
F ifeof	F injectvspacing
F ifgluelineinbox	F injectzerobaselineskip
F ifinset	F inlinechemical
F iflua	F inputfilebarename
F ifmode	F inputfilename
F ifmodes	F inputfilerealsuffix
F ifmvl	F inputfilesuffix
F ifpositunum	F insertattachment
F ifsetups	F insertcategorycodestring

F insertcomment	F limited
F insertfield	F linebuffering
F insertionnumber	F linedir
F insertoptioncodestring	F lineprofilebox
F insertrenderingwindow	F linesegment
F inspectluatable	F listanchorcodestring
F installedlanguages	F listbookmark
F installtexdirective	F listexternal
F installtexexperiment	F listgroupindex
F installtextracker	F listlabel
F interceptsamepagecontent	F listlocation
F it	F listnamespaces
F jobfilefullname	F listprefixednumber
F jobfilename	F listprefixedpage
F jobfilesuffix	F listrawnumber
F jobposd	F listrawrealpage
F jobposh	F listrawuserpage
F jobposp	F listsigncodestring
F jobposw	F listsize
F jobposx	F listtitle
F jobposy	F listuserdata
F languagecharwidth	F lmt_parameters_define
F languagenumber	F lmt_parameters_preset
F lastblobindex	F lmt_parameters_reset
F lastnodeequals	F loadcldfile
F lastnodeid	F loadcldfileonce
F lastnodeidstring	F loadexamodes
F lastnodesubtypestring	F loadfontgoodies
F lastparwrapper	F loadlibrary
F lastrpos	F loadluafile
F lastsavedboxresourceindex	F loadluafileonce
F lastsavedimageresourceindex	F loadluamodule
F lastsavedimageresourcepages	F loadmapfile
F lastsectionpage	F loadmapline
F lastsubcountervalue	F loadspellchecklist
F lastunitstring	F loadtexfile
F lastxpos	F loadtexfileonce
F lastypos	F loadtypescriptfile
F lateindent	F loadvisualizer
F latelua	F loadxmlfile
F lateundent	F loadxmlfileonce
F lchexnumber	F localanchorx
F lchexnumbers	F localanchory
F leapyear	F localboxindent

F localboxindex	F markregionboxcorrected
F localboxlefthang	F markregionboxtagged
F localboxleftoffset	F markregionboxtaggedkind
F localboxleftskip	F markregionboxtaggedn
F localboxlinenumber	F markvisualfonts
F localboxlinewidth	F mathclassvalue
F localboxlocalwidth	F mathcontrolcodestring
F localboxmarkonce	F mathhorizontalcode
F localboxovershoot	F mathoptioncodestring
F localboxparfillleftskip	F mathrenderset
F localboxparfillrightskip	F mathstrutcode
F localboxparinitleftskip	F mathvariantcode
F localboxparinitrightskip	F mathvariantcount
F localboxprogress	F mathvariantslot
F localboxrighthang	F maxbufferwidth
F localboxrightoffset	F message
F localboxrightskip	F metapostescaped
F localpopmacro	F metapostformatted
F localpushmacro	F metapostgraphformat
F locatefilepath	F minute
F loopcs	F mixcleanup
F loopcsn	F mixfinalize
F lousiness	F mixflushlist
F luacardinal	F mixflushrest
F luacount	F mixgetsplit
F luadimen	F mixsetsplit
F luaexpression	F mixstate
F luafloat	F modecodestring
F luainteger	F molecule
F luanumber	F month
F luarandom	F monthmnm
F luascript	F monthname
F luathread	F mpblobtext
F lxmlid	F mpcolor
F manipulated	F mpgetblob
F markblobindexdone	F mpgettext
F markcontent	F mpgraphic
F markedpageparameter	F mpgraphictexttoks
F markedpages	F mpoptions
F markingnumber	F mpoutlinetoks
F markingtitle	F mppopvariables
F markinjector	F mppushvariables
F markpage	F mprunset
F markregionbox	F mpruntab

F mprunvar	F ntb_split_section_locate
F mpsetclippath	F ntb_split_section_reset
F mpsetoutercolor	F ntimes
F mpsetsxsy	F number
F mpsettext	F numbers
F mptexget	F objectreference
F mptexreset	F objectreferencepage
F mptexset	F octnumber
F mptexsetfrombuffer	F openin
F mptexttoks	F openout
F mvloptioncodestring	F operatingsystem
F namedstructureuservariable	F ordinal
F namedstructurevariable	F outputfilename
F naturalwd	F overloadbookmark
F negatedcolorcomponent	F overloadlowercase
F newarray	F overloadsattribute
F newhashedtable	F overloaduppercase
F newindexedtable	F pageblockrealpage
F newluatable	F pageofinternal
F newparwrapper	F pageoverflow
F newrepeatablerandom	F pagestaterealpage
F newstacking	F pagestaterealpageorder
F nextparallel	F paragraphfillmodecodestring
F nextsubcountervalue	F paragraphoptioncodestring
F nodimen	F parcontextcodestring
F nofbufferlines	F pardir
F nofconversions	F parpasscallback
F nofdays	F parpassidentifier
F nofdetachedinsertions	F parpos
F noflinesinbox	F partriggercodestring
F nofmathvariants	F pdfbackendcurrentresources
F nofstackedfloats	F pdfbackendsetcatalog
F nologbuffering	F pdfbackendsetcolorspace
F normalizecodestring	F pdfbackendsettextgstate
F normalizedbodyfontsize	F pdfbackendsetinfo
F normalizeparcodestring	F pdfbackendsetname
F nospacesmodecodestring	F pdfbackendsetpageattribute
F notedeltapage	F pdfbackendsetpageresource
F noteinternal	F pdfbackendsetpagesattribute
F notelistindex	F pdfbackendsetpattern
F noteprefixednumber	F pdfbackendsetshade
F notetitle	F pdfcolor
F ntb_split_section_check	F pdfextension
F ntb_split_section_fetch	F pdffeedback

F pdflastobj	F poprandomseed
F pdfliteral	F popreferenceprefix
F pdfobj	F popregime
F pdfrefobj	F poprunstate
F pdfsetuserdata	F popsectionblock
F pdfvariable	F positunum
F percentageof	F positunumdef
F pfabs	F postlistbox
F pfacos	F postlistcopy
F pfacosh	F postponenotes
F pfasin	F prefixedconverted
F pfasinh	F prelistbox
F pfatan	F prelistcopy
F pfatanh	F preparecolumnsetflush
F pfatantwo	F prerolledpages
F pfceil	F presetcolumnsetsheets
F pfcos	F presetcolumnsetspreadsheets
F pfcosh	F presetmathematics
F pfdeg	F presetmathfontalternate
F pfexp	F presetsymbollist
F pffloor	F previoussubcountervalue
F pflog	F privatecharacter
F pfmod	F privatecharactercode
F pfpow	F processbodyfontsizes
F pfrad	F processbuffer
F pfrem	F processcollectedmath
F pfround	F processedfile
F pfsin	F processedfiles
F pfsinh	F processfile
F pfsqrt	F processfilemany
F pftan	F processfilenone
F pftanh	F processfileonce
F pgfxcolorspec	F processjob
F pickupbuffer	F processlist
F pickupmarkedcontent	F processregister
F pickuppunctuation	F processsplit
F placeparallel	F processsynonyms
F popfloat	F product
F pophyphenation	F profilebox
F poplist	F profilemacro
F poplocalanchors	F project
F poplogfile	F pruneboxesincache
F popparagraphtweak	F purefontname
F poppath	F pushfloat

F pushhyphenation	F registercolumnsetspreadsheets
F pushlist	F registerengineclass
F pushlocalanchors	F registerfallbackfont
F pushlogfile	F registerfiguremask
F pushparagraphtweak	F registerfigurepattern
F pushpath	F registerfigurerange
F pushrandomseed	F registerfiguresuffix
F pushreferenceprefix	F registerfilescheme
F pushregime	F registerfontalternative
F pushrunstate	F registerfontfamily
F pushsectionblock	F registerforcedbreak
F pushstream	F registergroupset
F putboxincache	F registerhashedfiles
F putincolumnset	F registerhelp
F putincolumnsetdirect	F registerhyphenationexception
F putnextboxincache	F registerhyphenationpattern
F qrcodebuffer	F registeritemgroup
F qrcodestring	F registerlabel
F rawMPdata	F registerlanguagefeatures
F rawcharacter	F registerlinenumbering
F rawsetupstring	F registermaintextcolor
F rawsubcountervalue	F registermpextensible
F read	F registernamedlua
F readfromterminal	F registernamespace
F readline	F registerobject
F readlinedirect	F registerpattern
F recolorbox	F registerpostponedblock
F referencecolumn	F registerreferencedobject
F referencepagedetail	F registerrendering
F referencepagestate	F registersection
F referenceposix	F registershownsynonym
F referenceposy	F registersnaprange
F referencerealpage	F registerstructureprocessor
F registeranchorbox	F registersynchronize
F registerattachment	F registersynonym
F registerbackendsymbol	F registertransliteration
F registerbackground	F registerunit
F registerbodyfontsize	F registerunitshortcut
F registerbookmark	F registerunknownbodysize
F registerboxglyph	F registerusedsynonym
F registerbuttons	F registeruserdata
F registercolorintent	F registerverbosemathlabel
F registercolumnsetarea	F removelastring
F registercolumnsetsheet	F renderingvar

F reorderfloats	F revivefeature
F replacefeature	F rightmathkern
F replacepospxywhd	F romannumerals
F replacewildcard	F rotateparshape
F reportstructure	F rounded
F resavefloat	F roundedfill
F reservedautoregiontag	F roundedoutline
F resetMPinstance	F ruby
F resetalternate	F ruleoptioncodestring
F resetbackgroundrowdata	F runcontextjob
F resetboxesincache	F safechar
F resetcharacteralign	F samplefile
F resetcolumnset	F saveboxresource
F resetcomparingtext	F savebuffer
F resetcounter	F savecounter
F reseteffect	F savecurrentattributes
F resetfeature	F savecurrentvalue
F resetfontfeature	F savedlistnumber
F resetfontsolution	F savedlistprefixednumber
F resetforcedbreak	F savedlisttitle
F resetinjector	F savefloat
F resetlogfile	F saveimageresource
F resetmapfiles	F savemargindata
F resetmathattributes	F savenote
F resetnullfont	F savepagedata
F resetparallel	F savepageinjections
F resetpath	F saveparallel
F resetreference	F savepos
F resetscript	F savespecificfloat
F resetstructureprocessor	F savestructureblock
F resetsubcounter	F scangivendimensions
F resetsynchronizemarking	F scriptsmodecodestring
F resetsynonyms	F second
F resettimer	F selectstructureblock
F resettrackers	F set_extensible_data
F resolvedemoji	F setadaptive
F restartcounter	F setalternate
F restartsubcounter	F setautoprefix
F restorecounter	F setbackgroundrowdata
F restorecurrentattributes	F setboxglyph
F restorenote	F setboxline
F restoreobject	F setbreakpoints
F reuserandomseed	F setcharacteralign
F reverseboxcontent	F setcharacteraligndetail

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F setcharactercleaning	F setsizecolumnspan
F setcharacterkerning	F sethyphenatedurlcharacters
F setcharacterspacing	F sethyphenationfeatures
F setcharacterstripping	F sethyphenationmethod
F setcloseddocumentaction	F setidentityvariable
F setclosepageaction	F setinitial
F setcolormodel	F setinitialsectionblock
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F setcolumnsetlines	F setinsertionlocation
F setcolumnsetmvl	F setinsertmigration
F setcolumnsetpresent	F setinterfaceconstant
F setcolumnsetproperties	F setinterfaceelement
F setcolumnsetstart	F setinterfacemessage
F setcomparetext	F setinterfacemessages
F setcomparingtext	F setinterfacevariable
F setcounter	F setinternalreference
F setdataset	F setitaliccorrection
F setdestinationattribute	F setjavascriptpreamble
F setdigitsmanipulation	F setjobcomment
F setdirection	F setlanguageexceptions
F setdocumentargument	F setlanguageoptions
F setdocumentcommandline	F setlanguagepatterns
F setdocumentctxfile	F setlanguagesynonym
F setdocumentdefaultargument	F setlinefiller
F setdocumentenvironments	F setlineprofile
F setdocumentfilename	F setlocalalignanchor
F setdocumentfilenames	F setlocalmarkanchor
F setdocumentmodes	F setlocalsyncanchor
F setdocumentmodules	F setluatable
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F setelementbackendtag	F setmathattribute
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F setextrafontkerns	F setmathfontstyle
F setfieldcalculationset	F setmathsnapping
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F setfontsolution	F setnextreferenceorder
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F setperiodkerning	F settagmarginintext
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F setprelistbox	F settagnotation
F setprofile	F settagnotationsymbol
F setrandomseed	F settagparagraph
F setrealign	F settagproperty
F setrealspaces	F settagpublication
F setreferencelinkmethod	F settagregister
F setregionbox	F settagsetreferencedescription
F setregionboxtagged	F settagssorting
F setregistermethod	F settagssubsentencesymbol
F setreplacements	F settagssynonym
F setruby	F settagtablecell
F setrule	F settagtabulatecell
F setscript	F settransliteration
F setsectionblock	F setupbookmarks
F setsectionentry	F setupcanvas
F setshadow	F setupcharacterspacing
F setshift	F setupcomparingtext
F setsofthyphens	F setupexport
F setsplitlisthtdp	F setupfontexpansion
F setstacking	F setupfontprotrusion
F setstructureblockstate	F setupinsertion
F setstructurelevel	F setuplinenumbering
F setstructurenumber	F setupsynctex
F setsubcounter	F setupusermetadata
F settagcodepoint	F setupviewerlayer
F settagcombination	F setvisual
F settagcombinationpair	F setvisualfont
F settagconstruct	F setvisuallayer
F settagdelimitedsymbol	F setvisuals
F settagdescriptionindex	F setvsizecolumnset

F setxmpfile	F spaceddiggins
F shiftmatrixornaments	F spacefactorcodestring
F shiftparshape	F spaceskipcodestring
F shipoutpage	F special
F showarray	F specificationoptioncodestring
F showassignerror	F specifiedfont
F showattributes	F specifiedfontsize
F showbits	F specifiedfontspec
F showboxinbuffer	F splitfilename
F showbtxdatasetauthors	F splitsamplefile
F showbtxdatasetcompleteness	F spotcolorname
F showbtxdatasetfields	F spotcolorparent
F showbtxentry	F spotcolorvalue
F showbtxfields	F squid_check
F showbtxhashedauthors	F startactualtext
F showbtxtables	F startalternativetext
F showbtxvariants	F startchemical
F showchardata	F startclipping
F showcounter	F startcollectingmath
F showdirectives	F startcolorset
F showdiscretionaries	F startcomponent
F showexperiments	F startenvironment
F showfontparameters	F startfontsolution
F showhyphenatedinlist	F startgraphicgroup
F showhyphenationtrace	F startlocalcomponent
F showinjector	F startmarkpages
F showjustification	F startmatrix
F showlogcategories	F startmirroring
F showluatables	F startpageblock
F showluatokens	F startparbuilder
F showmacrostack	F startprerollpageblock
F showmessage	F startproduct
F showpagelist	F startproject
F showparagraphshape	F startregime
F showprofiledmacros	F startrotation
F showstructure	F startruby
F showtrackers	F startscaling
F silliness	F startsectionlevel
F simplealign	F startstream
F simplecases	F starttext
F simplematrix	F startviewerlayer
F sin	F step
F sind	F stopactualtext
F sl	F stopalternativetext

F stopchemical	F structureblockuservariable
F stopclipping	F structurecatcodedget
F stopcollectingmath	F structuregivencatcodedget
F stopcolorset	F structurenumber
F stopcomponent	F structuretitle
F stopenvironment	F structureuservariable
F stopfontsolution	F structurevariable
F stopgraphicgroup	F subcountervalue
F stoplocalcomponent	F subsubcountervalues
F stopmarkpages	F subtocolumnsetmvl
F stopmatrix	F subtocolumnsetmvlbalance
F stopmirroring	F subtractfeature
F stoppageblock	F svghashed
F stopparbuilder	F sync
F stopprerollpageblock	F synccolor
F stopproduct	F synccolorclone
F stopproject	F synccolorcount
F stopregime	F synchronizelocalanchors
F stoprotation	F synchronizemarking
F stopscaling	F synchronizesteps
F stopsectionlevel	F synchronizestream
F stopstream	F syntexblockfilename
F stoptext	F syntexdisable
F stopviewerlayer	F syntexpause
F storejavascriptcode	F syntexpopline
F storejavascriptpreamble	F syntexpushline
F storenote	F syntexresetfilename
F storeregister	F syntexresume
F strc_tags_document_pop	F syntexsetfilename
F strc_tags_document_push	F synonymfirstuserpage
F strc_tags_get_element_tag	F synonymmeaning
F strc_tags_parcounter_pop	F synonymname
F strc_tags_parcounter_push	F synonympages
F strc_tags_set_aspect	F synonymuserpages
F strc_tags_set_element_user_properties	F systemlog
F strc_tags_start	F tabl_ntb_get_sec
F strc_tags_start_chained	F tabl_ntb_set_sec
F strc_tags_start_detail	F tagmfunctionlab
F strc_tags_start_ignore	F tagmfunctionlabattribute
F strc_tags_start_userdata	F tan
F strc_tags_stop	F tand
F stringtoorientation	F textdir
F stripinserts	F texttime
F structureautocatcodedget	F tf

F thebox	F useenvironment
F thefirstcharacter	F usefigurebase
F themaxboxwidth	F usefile
F theremainingcharacters	F useimageresource
F tightfitcompensation	F usejavascriptpreamble
F timestring	F usejavascriptscripts
F tobigpoints	F uselibrary
F tobit	F uselist
F tobits	F useluamodule
F tochar	F useluatable
F tohexa	F usemathpluginlibrary
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F analyze	F getsubstitution
F applypostprocessors	T getters
F checkedmode	T goodies
F checkedscript	D colorschemes
S defaultlookup	D designsizes
F define	D filenames
F getspecification	F getcompositions
F internal	F load
F loadfont	F prepare_features
F makespecification	F register
F read	F registerpostprocessor
F register	F report
F registered	T handlers
F registerfallbackfont	T hashes
F registersplit	D characters
F resetnullfont	D classes
F resolve	D csnames
F definetypeface	D descriptions
T dropins	D dynamics
F clone	D emwidths
F getshape	D exheights
F getshapes	D features
F nextid	D identifiers
F provide	D italics
F registerglyph	D lastmathids

D marks	F name
D mathparameters	F nametoslot
D modes	F newprivateslot
D originals	F prependcommands
D parameters	F prependcommandtable
D properties	F privateslot
D quads	F registerglyphbox
D resources	F scalecommands
D spaces	F setboxdirectly
D spacings	F setboxglyph
D unicates	F setboxglyphs
D unislots	F setdigitwidth
D variants	F setmetaglyph
D xheights	F setmetaglyphs
T helpers	D sharedprivates
F addextraprivate	F splitfontpattern
F addprivate	F tochar
F appendcommands	F infofont
F appendcommandtable	T iterators
F checkflags	F characters
F checkmerge	F descriptions
F checksteps	F glyphs
F collectanchors	T loggers
F combineglyphs	F format
D commands	F onetimemessage
F composecharacters	F register
F descriptiontoslot	F reportdefinedfonts
F dimenfactor	F reportusedfeatures
F expandglyph	T mappings
D extraprivates	F addtounicode
F fontpatternhassize	F fromunicode16
F getcoloredglyphs	F getentry
F getdigitwidth	F loadfile
F getinstancespec	F loadline
F getparameters	F makenameparser
F getprivatecharornode	D overloads
F getprivatenode	F reset
F getprivates	F tounicode
F getprivateslot	F tounicode16
F glyphdimenfactor	F tounicode16sequence
F hasprivate	T metapost
F indextoslot	F baseline
F isprivate	F boundingbox
F mathscriptslots	F boxtomp

F boxtompdimensions	F definefontfamilypreset
F boxtomposition	D extras
F draw	F fallback
F fill	D fallbacks
F glyph	F features
F maxbounds	F filefallback
F paths	F fontdata
F widthline	F fontfallback
F zeroline	F fontsynonym
F mode	F goodies
D names	F mathfallback
D nulldata	D methods
T privateoffsets	D presets
B keepnames	F registerfallback
N mathbase	F registerfiles
N mathextrabase	F registerfontalternative
N textbase	F registerfontfamily
N textextrabase	F textfallback
D protrusions	F typeface
T readers	F typescript
F afm	F userdata
F check_lua	T specifiers
F check_tfm	D contextmerged
F lua	F contextnumber
F ofm	D contextnumbers
F opentype	D contextsetups
F otf	F contexttostring
F pfb	F definecontext
D sequence	F mergecontext
F tfm	F presetcontext
F ttc	F registercontext
F ttf	F showcontext
F woff	F splitcontext
F woff2	D synonyms
F registersanitizer	D variants
F reserveid	T symbols
T select	F uselibrary
D alternatives	T tables
F bodyfont	F toeffect
D data	T tracers
F default	T treatments
D defaults	F applyfixes
F definefallbackfamily	D data
F definefontfamily	S filename

F ignoredfile		F setcleaner
F report		F showcurrent
F trace		F system
T typefaces		F tooverloads
<b>functions</b>	table	N unsetvalue
F dummy		D values
<b>getmetatable</b>	function	T backends
<b>globaldata</b>	table	F closeout
N CONTEXTLMTXMODE		S current
N LUAFORMAT		F getcallbackstate
N LUAMAJORVERSION		F initialize
N LUAMINORVERSION		F latelua
S LUATEXENGINE		F nothing
N LUATEXFORMATID		F openout
N LUATEXFUNCTIONALITY		F setencryption
S LUATEXVERBOSE		F writeout
N LUATEXVERSION		T basexx
N LUAVERSION		F decode16
T MP		F decode64
F SAVEDREQUIRE		F decode85
T aes		F decodeLZW
F decode		F decodeRL
F encode		F encode16
F random		F encode64
T arg		F encode85
F assert		F encodeLZW
T attributes		F encodeRL
F applyoverloads		T bibtex
F checkvalues		T bit32
D counts		F arshift
F define		F band
F getvalue		F bnot
F getvalues		F bor
F hasvalues		F btest
D list		F bxor
F markasoverload		F extract
D names		F lrotate
D numbers		F lshift
F ofnode		F replace
F private		F rrotate
F public		F rshift
F registervalue		T bitset
F restore		F asstring
F save		F get

F new	F checkparcontext
F reset	F checksidefloat
F set	F parpassidentifier
F totable	D passnames
F traverse	F registerpaspasscallback
F wipe	T bytemap
T blobs	F bounds
F append	F clip
F dimensions	F copy
F dispose	F dimensions
F new	F domain
F pack	F downgrade
F strdp	F downsample
F strhd	F fillgray
F strht	F fillrgb
F strwd	F filter
F tohpack	F getbyte
F tonodes	F getbytes
F tovpack	F getvalue
F write	F hasbytegray
T boolean	F hasbyterange
F tocontext	F hasbytergb
F tonumber	F new
T buffers	F newdomain
F append	F overlay
F assign	F process
F collectcontent	F reduce
F empty	F reset
F erase	F setgray
F exists	F setgrayadd
F get	F setgraymin
F getcontent	F setrgb
F getctxlua	F slicegray
F getlines	F slicerange
F getmkvi	F slicergb
F gettex	F totable
F loadcontent	T caches
F prepend	S base
F raw	F collapsecontent
F run	F configfiles
F samplefile	F contentstate
F splitsamplefile	F getfirstreadablefile
F undent	F getreadablepaths
T builders	F getwritablepath

F hashed	D bidi
F is_writable	F blockrange
F loadcontent	D blocks
F loaddata	D can_have_space
S more	D categories
F savecontent	F category
F savedata	D categorytags
F setfirstwritablefile	D collapsed
F setluanames	D combined
F treehash	F contextname
F usedpaths	D csletters
T callback	D data
F find	D decomposed
F getindex	F description
F getoptions	D descriptions
F getoptionvalues	D detailtags
F getstate	F emojiized
F getstatevalues	D encodes
F known	D entities
F list	D fallbacks
F names	D filters
F register	F fromnumber
F setoptions	D fschars
F setstate	D fscodes
F testonly	F getrange
F usage	D graphemes
T callbacks	D hangul
F freeze	F initialize
F getcomment	D is_character
F getstates	D is_command
F known	D is_hyphenator
F optimizer	D is_letter
F pop	D is_mark
F push	D is_nothing
F register	D is_punctuation
F report	D is_spacing
T catcodes	D is_symbol
D names	D lcchars
D numbers	F lccode
F register	D lccodes
F characterkern	F lettered
T characters	D lhash
F addcharacternames	D linebreaks
F adobename	F lower

D mathlists	F MPd
D oftscripts	F MPfromhash
D ranges	F MPh
F registerentities	F MPll
F remap_hangul_syllabe	F MPlr
F setactivecatcodes	F MPls
F setlettercatcodes	F MPn
F setothercatcodes	F MPp
F shape	F MPpardata
F shaped	F MPplus
D shash	F MPpos
D shchars	F MPr
D shcodes	F MPrest
F showstring	F MPrs
D specialchars	F MPul
D specials	F MPur
D synonyms	F MPw
F tonumber	F MPwhd
D ucchars	F MPx
F uccode	F MPxy
D uccodes	F MPxywhd
D uhash	F MPy
F unicodechar	F Romannumerals
F upper	F actualday
D verbosemarks	F actualmonth
T chemistry	F actualyear
F component	F adaptfontfeature
F define	F adaptivecheckbox
D definitions	F addbtxentry
S format	F addcounter
F inlinechemical	F adddefaultsuffix
S instance	F addfeature
S method	F addfontpath
F molecule	F addgrapheme
U moleculeparser	F addlinenumbers
F start	F addlinklistelement
F stop	F addreplacements
F undefine	F addreplacementslist
F collectgarbage	F addrivers
T commands	F addtocolumnset
F Alphabetic	F addtocolumnsetmvl
F MPLIBconvertfollowtext	F addtojavascriptpreamble
F MPLIBconvertoutlinetext	F addtolist
F MPc	F align_point_delta

F allinputpaths	F bitwiseor
F alphabetic	F bitwiseset
F analysefloatmethod	F bitwiseshift
F analyzezeitemgroup	F bitwisexor
F analyzelist	F blockcolumnset
F analyzelocalanchors	F blockligatures
F analyzeregister	F boolcase
F analyzerotate	F boxdir
F analyzeupcomingitemgroup	F boxline
F applypattern	F boxlinedp
F applytobox	F boxlineht
F applytofirstcharacter	F boxlineil
F arraycompare	F boxlinein
F arrayequals	F boxlineir
F arraymaxvalue	F boxlineih
F arrayminvalue	F boxlineip
F arraysize	F boxlinels
F arrayvalue	F boxlinemaxdp
F ascender	F boxlinemaxht
F askedreference	F boxlinemaxwd
F assignbuffer	F boxlinend
F async	F boxlinenh
F attachinsertion	F boxlinenw
F attachinsertions	F boxlinerh
F atwordboundary	F boxlinerp
F autofinishstructurelevels	F boxliners
F autoinsertnextspace	F boxlines
F automigrationcodestring	F boxlinewd
F autonextstructurelevel	F boxoptioncodestring
F autorule	F boxrangedp
F autosetups	F boxrangeht
F autostarttext	F boxrangewd
F autostoptext	F boxtostring
F badnessmodecodestring	F bposcolumn
F balanceshapeextra	F bposcolumnregistered
F benchmarktimer	F bs
F bf	F btxabbreviatedjournal
F bi	F btxaddentry
F bitmapimage	F btxaddjournal
F bitwise	F btxauthor
F bitwiseand	F btxauthorfield
F bitwiseflip	F btxauthorforegister
F bitwisenil	F btxcmdstring
F bitwisenot	F btxcollectlistentries

F btxcurrentfirstnames	F btxshortcut
F btxcurrentinitials	F btxshowauthorremapping
F btxcurrentjuniors	F btxsingularorplural
F btxcurrentsurnames	F btxtoregister
F btxcurrentvons	F btxusedataset
F btxdetail	F btxuservariable
F btxdirect	F build_page_after_shipout
F btxdoif	F build_page_before_shipout
F btxdoifelse	F build_page_setup
F btxdoifelsecitedone	F capheight
F btxdoifelsecombiinlist	F charactercontrolcodestring
F btxdoifelsematches	F chardescription
F btxdoifelsesameasprevious	F checkcolumnset
F btxdoifelseuservariable	F checkcolumnsetmvl
F btxdoifnot	F checkcountersetup
F btxentrytobuffer	F checkedconversion
F btxentrytostring	F checkedemoji
F btxexpandedjournal	F checkedpagefloat
F btxfetchlistentries	F checkinjector
F btxfield	F checkinterfacechain
F btxfirstofrange	F checkmarkedpages
F btxflush	F checknesting
F btxflushlistcombi	F checkspacingavailable
F btxflushlistentry	F checkstrutdepth
F btxflushlisttag	F chemicalcomponent
F btxflushmarked	F chinesenumerals
F btxflushpages	F chr
F btxhandlecite	F classoptioncodestring
F btxhandlenocite	F cleancolumnset
F btxlastofrange	F cleanfontname
F btxlistvariant	F cleanupattributes
F btxloaddefinitionfile	F cleanupbox
F btxloadjournallist	F cleanuplayers
F btxloadreplacementfile	F clonefield
F btxmissing	F closein
F btxoneorange	F closeout
F btxpreparelistentries	F codedef
F btxremapauthor	F collectedmath
F btxsavedataset	F collectfloat
F btxsavejournallist	F collecthelp
F btxsetdataset	F columnsetbalancefirst
F btxsetentry	F columnsetbalancelast
F btxsetregister	F columnsetbalancepage
F btxsetspecification	F columnsetcolumnwidth

F columnsetdisablewide	F ctxfunction
F columnsetenablewide	F ctxluamatch
F columnsetgoto	F ctxluamatchfile
F columnsethascontent	F ctxresetter
F columnsethspan	F ctxscanner
F columnsetlastfuture	F currentcomponent
F columnsetlastmvl	F currentdate
F columnsetlimit	F currentdesignsize
F columnsetnoto	F currentenvironment
F columnsetresetdirect	F currentfontinstancespec
F columnsetresetshapeextra	F currentposthyphenchar
F columnsetreshape	F currentprehyphenchar
F columnsetsblockrows	F currentproduct
F columnsetsetshapeextra	F currentproject
F columnsetshape	F currentsectiontolist
F columnsetshapebalancecheck	F datasetsize
F columnsetshapebalanceextend	F datasetvariable
F columnsetshapecolumn	F day
F columnsetshapecount	F daynmem
F columnsetshapeindex	F dayname
F columnsetshapepage	F decimals
F columnsetshapesetbalancerange	F decrementcounter
F columnsetshapeslots	F decrementsubcounter
F columnsetshapespread	F deferredenhancelist
F columnsetshapevsize	F deferredenhancereference
F columnsetshapeworst	F deferredenhanceregister
F columnsetshowgrid	F defineaccents
F columnsetshowshape	F defineattribute
F columnsetshowtracedgrid	F defineboundary
F columnsetstate	F definebreakpoint
F columnsetstatus	F definebreakpoints
F combineglyphs	F definecharacterspacing
F component	F definechemical
F concatcommalist	F definecolumnset
F consultfloat	F defineconversion
F continueifinputfile	F definecounter
F convertbtxdatasettoxml	F definedlayoutcomponent
F converteddimen	F definefallbackfamily
F convertmpstopdf	F definefield
F copyboxfromcache	F definefieldset
F copyboxline	F definefilefallback
F copyposition	F definefilesynonym
F cos	F definefont_one
F cosd	F definefont_two

F definefontcolorpalette	F disableautofontscript
F definefontfamily	F disablecollectingmath
F definefontfamilypreset	F disabledirectives
F definefontfeature	F disableexperiments
F definefontscriptset	F disablejobsave
F definefontsolution	F disableparbuilder
F definehyphenationfeatures	F disableeregime
F defineinsertion	F disablespellchecking
F defineintermediatecolor	F disablestatetriggering
F definelabcolorglobal	F disablestream
F definelabcolorlocal	F disabletrackers
F definelabels	F discardfromlist
F definelanguage	F discoptioncodestring
F definelinkedlist	F disposeboxesincache
F definemathpreset	F disposeluatable
F definemultitonecolorglobal	F doanalyzeframedbox
F definenamespace	F doif
F definenote	F doifcounter
F defineparallel	F doifelse
F defineparbuilder	F doifelseblack
F defineprocesscolordummy	F doifelseboxincache
F defineprocesscolorglobal	F doifelsebuffer
F defineprocesscolorlocal	F doifelsebufferempty
F defineprogram	F doifelsecharinfont
F definereference	F doifelseconverter
F defineregister	F doifelsecounter
F definesectionlevels	F doifelsecounteractive
F definespotcolorglobal	F doifelsecurrentfonthasfeature
F definestructureblock	F doifelseedimenstring
F definestructureset	F doifelsedrawingblack
F definesubcolumnset	F doifelsefieldcategory
F definetransparency	F doifelsefieldset
F definetransparencyglobal	F doifelsefiledefined
F definetypeface	F doifelsefileexist
F defineviewerlayer	F doifelsefirstchar
F delayedcolumnsetsheet	F doifelsefirstsectionpage
F depthnumber	F doifelsefontfeature
F depthofstring	F doifelsefontpresent
F descender	F doifelseindented
F detachinsertions	F doifelseinelement
F diagnostic	F doifelseinputfile
F digits_normal	F doifelseleapyear
F digits_reverse	F doifselisthasentry
F directboxfromcache	F doifselisthasnumber

F doifselisthaspage	F doifposition
F doifselisthastitle	F doifsame
F doifselmarkedcontent	F doifsomething
F doifselmarkedpage	F doifunknownfontfeature
F doifselmessage	F domainattribute
F doifselnoteonsamepage	F doreshapeframedbox
F doifselobjectfound	F doresyncframedbox
F doifselobjectreferencefound	F dosaveposition
F doifselolderversion	F dosavepositionplus
F doifseloverlapping	F dosavepositionwhd
F doifselparallel	F dosetposition
F doifselparentfile	F dosetpositionbox
F doifselpathexist	F dosetpositionplus
F doifselpendingpagecontent	F dosetpositionstrut
F doifselposition	F dosetpositionstrutkind
F doifselpositiononpage	F dosetpositionwhd
F doifselpositionsonsamepage	F dostarttextfile
F doifselpositionsonthispage	F dostoptextfile
F doifselpositionsused	F doublescriptmodecodestring
F doifselrangeonpage	F droptablegroup
F doifselreference	F elapsedsteptime
F doifselreferencechecked	F elapsedtime
F doifselreferenced	F embedimagefromstore
F doifselrighttoleftinbox	F enablealignmentcharacter
F doifselesame	F enablealignskips
F doifselomething	F enableasciimode
F doifselspaces	F enableautofences
F doifselstackedfloats	F enableautofontscript
F doifselstructureblockempty	F enablebackgroundalign
F doifsel synonymshown	F enablebackgroundboxes
F doifsel synonymused	F enablecollectingmath
F doifseltaggednoteonsamepage	F enablecolor
F doifselurldefined	F enablecolorintents
F doifselutfmathaccent	F enablecrlf
F doifselutfmathfiller	F enabledirectives
F doifselutfmathlimop	F enabledriver
F doifselvalidhashedfiles	F enableexperiments
F doifselvisualizer	F enablefontcolorchemes
F doifmarkedpage	F enablehidecontent
F doifnot	F enablemathalignrelocate
F doifnotcounter	F enablematrixornaments
F doifnotecontent	F enablematrixrules
F doifnotsame	F enableparbuilder
F doifnotthing	F enableregime

F enablescriptunstacking	F filterreference
F enablesidefloatchecker	F finalizeobjectbox
F enablespellchecking	F finalizeshipoutbox
F enablestacking	F findregisterinternal
F enablestatetriggering	F finishcolumnsetflush
F enablestream	F finishsexport
F enableswapping	F firstinset
F enabletighten	F firstsectionpage
F enabletrackers	F firstsubcountervalue
F enabletransparency	F flagcodestring
F enableutf	F flushcolumnsetareas
F enhancelinkedlist	F flushcolumnsetcolumn
F enhancelist	F flushfloat
F enhanceregister	F flushlabeledfloat
F enhancesynonym	F flushnoterange
F environment	F flushnotes
F eposcolumn	F flushpageblocks
F eposcolumnregistered	F flushpageinjectionsafter
F erasebuffer	F flushpageinjectionsbefore
F execute	F flushpostponedblocks
F exportbox	F flushpostponednotes
F exportformdata	F flushstream
F exportreferences	F flushstreamcopy
F expression	F fontchar
F extendregister	F fontcharbyindex
F extendregisterlate	F fontcollectionclone
F extensiblecode	F fontcollectiondefine
F fakeword	F fontcollectionprepare
F featureattribute	F fontcollectionregister
F feedback	F fontcollectionreport
F fetchlanguagegetext	F fontcollectionreset
F fetchmultipar	F fontlookupgetkey
F fetchposboxes	F fontlookupgetkeyofindex
F fetchterminaldata	F fontlookupinitialize
F figure_flush_registered_pages	F fontlookupnoffound
F figure_mergegoodies	F forceendjob
F figure_nof_registered_pages	F forcepageflush
F figure_register_page	F forcequitjob
F figuresetdimensions	F forcestrutdepth
F filebasename	F format
F filedirname	F formatcolor
F filenameonly	F formatgray
F filesuffix	F formatluminance
F filterdefaultreference	F formatluminanceratio

F formatone	F getmathvariant
F framedoutline	F getmessage
F from	F getmpextensions
F frozenparcodestring	F getnaturaldimensions
F frule	F getnaturalwd
F getMPdata	F getnofpreviouslines
F getbidimode	F getnotestate
F getbodyfontsizes	F getnotestorecount
F getboxcountfromcache	F getnotestoreflushed
F getboxdpfromcache	F getobjectdimensions
F getboxfromcache	F getobjectreference
F getboxhtdpfromcache	F getobjectreferencepage
F getboxhtfromcache	F getparshape
F getboxwdfromcache	F getparwrapper
F getbuffer	F getprivatechar
F getbuffercontent	F getprivateglyphslot
F getbufferctxlua	F getprivatemathchar
F getbuffermkvi	F getprivateslot
F getbuffertex	F getprogram
F getcharactercasingcategory	F getrandomdimen
F getclubpenalties	F getrandomfloat
F getcurrentprefixspec	F getrandomnumber
F getcurrentreferencelabel	F getrandomseed
F getcurrentreferencemetadata	F getreadfilename
F getdefaultfieldvalue	F getreferencesectionnumber
F getdisplaywidowpenalties	F getrivers
F getdocumentargument	F getsetupstring
F getdocumentfilename	F getshapeparameter
F getfieldcategory	F getsomefullstructurenumber
F getfile	F getsomestructurenumber
F getfirstcharacter	F getspecificstructuretitle
F getfloatvariable	F getstructurelevel
F getfromluatable	F getstructurenumber
F getfullstructurenumber	F getsubstring
F getinterlinepenalties	F getsynchronizemarking
F getinternalcachedlistreference	F geturl
F getinternallistreference	F getvisual
F getinternalorderreference	F getwidowpenalties
F getmathblobindex	F globalpopmacro
F getmathblobmapping	F globalpushmacro
F getmathcharone	F gluetoinesinbox
F getmathchartwo	F glyphoptioncodestring
F getmathmathblob	F gobblenested
F getmathtextblob	F gotocolumnsetslot

F grabbuffer	F ignorefile
F groupcodestring	F ignoretagsinexport
F groupsetgroup	F immediatemessage
F grph_nodes_initialize	F includesvgbuffer
F grph_nodes_register	F includesvgfile
F grph_nodes_reset	F incrementcounter
F grph_nodes_resolve	F incrementsubcounter
F handlemathhang	F inhibitprimitive
F hboxtovbox	F initializeexport
F heightofstring	F initializejob
F helpaction	F initializemathcollapsing
F helpreference	F initializemathfencing
F hour	F initializemathitalics
F hpackbox	F initializemathkernpairs
F hpackedbox	F initializemathnumbers
F hsplit	F initializemathspacing
F hyphenateddigits	F initializestream
F hyphenatedlist	F initializetexdirectives
F hyphenationcodestring	F initializetexexperiments
F ic	F initializetextrackers
F idxfromluatable	F injectcurrentreference
F if_common	F injectcurrentreferencehtdp
F ifallmodes	F injectdisable
F ifbitwiseand	F injectnowhite
F ifblobindexdone	F injectreference
F ifboxhaslist	F injectvpenalty
F ifcommon	F injectvskip
F ifeof	F injectvspacing
F ifgluelineinbox	F injectzerobaselineskip
F ifinset	F inlinechemical
F iflua	F inputfilebarename
F ifmode	F inputfilename
F ifmodes	F inputfilerealsuffix
F ifmvl	F inputfilesuffix
F ifpositunum	F insertattachment
F ifsetups	F insertcategorycodestring
F ifsystemmode	F insertcomment
F iftext	F insertfield
F ifxml	F insertionnumber
F ifxmlatt	F insertoptioncodestring
F ifxmlattempty	F insertrenderingwindow
F ifxmlempty	F inspectluatable
F ifxmlselfempty	F installedlanguages
F ifxmltext	F installtexdirective

F installtexexperiment	F listgroupindex
F installtextracker	F listlabel
F interceptsamepagecontent	F listlocation
F it	F listnamespaces
F jobfilefullname	F listprefixednumber
F jobfilename	F listprefixedpage
F jobfilesuffix	F listrawnnumber
F jobposd	F listrawrealpage
F jobposh	F listrawuserpage
F jobposp	F listsigncodestring
F jobposw	F listsize
F jobposx	F listtitle
F jobposy	F listuserdata
F languagecharwidth	F lmt_parameters_define
F languagenumber	F lmt_parameters_preset
F lastblobindex	F lmt_parameters_reset
F lastnodeequals	F loadcldfile
F lastnodeid	F loadcldfileonce
F lastnodeidstring	F loadexamodes
F lastnodesubtypestring	F loadfontgoodies
F lastparwrapper	F loadlibrary
F lastrpos	F loadluafile
F lastsavedboxresourceindex	F loadluafileonce
F lastsavedimageresourceindex	F loadluamodule
F lastsavedimageresourcepages	F loadmapfile
F lastsectionpage	F loadmapline
F lastsubcountervalue	F loadspellchecklist
F lastunitstring	F loadtexfile
F lastxpos	F loadtexfileonce
F lastypos	F loadtypescriptfile
F lateindent	F loadvisualizer
F latelua	F loadxmlfile
F lateundent	F loadxmlfileonce
F lchexnumber	F localanchorx
F lchexnumbers	F localanchory
F leapyear	F localboxindent
F limited	F localboxindex
F linebuffering	F localboxlefthang
F linedir	F localboxleftoffset
F lineprofilebox	F localboxleftskip
F linesegment	F localboxlinenumber
F listanchorcodestring	F localboxlinewidth
F listbookmark	F localboxlocalwidth
F listexternal	F localboxmarkonce

F localboxovershoot	F mathoptioncodestring
F localboxparfillleftskip	F mathrenderset
F localboxparfillrightskip	F mathstrutcode
F localboxparinitleftskip	F mathvariantcode
F localboxparinitrightskip	F mathvariantcount
F localboxprogress	F mathvariantslot
F localboxrighthang	F maxbufferwidth
F localboxrightoffset	F message
F localboxrightskip	F metapostescaped
F localpopmacro	F metapostformatted
F localpushmacro	F metapostgraphformat
F locatefilepath	F minute
F loopcs	F mixcleanup
F loopcsn	F mixfinalize
F lousiness	F mixflushlist
F luacardinal	F mixflushrest
F luacount	F mixgetsplit
F luadimen	F mixsetsplit
F luaexpression	F mixstate
F luafloat	F modecodestring
F luainteger	F molecule
F luanumber	F month
F luarandom	F monthnmem
F luascript	F monthname
F luathread	F mpblobtext
F lxmlid	F mpcolor
F manipulated	F mpgetblob
F markblobindexdone	F mpgettext
F markcontent	F mpgraphic
F markedpageparameter	F mpgraphictexttoks
F markedpages	F mpoptions
F markingnumber	F mpoutlinetoks
F markingtitle	F mppopvariables
F markinjector	F mppushvariables
F markpage	F mprunset
F markregionbox	F mpruntab
F markregionboxcorrected	F mprunvar
F markregionboxtagged	F mpsetclippath
F markregionboxtaggedkind	F mpsetoutercolor
F markregionboxtaggedn	F mpsetsxsy
F markvisualfonts	F mpsettext
F mathclassvalue	F mptexget
F mathcontrolcodestring	F mptexreset
F mathhorizontalcode	F mptexset

F mpdexsetfrombuffer	F openin
F mpextttoks	F openout
F mvloptioncodestring	F operatingsystem
F namedstructureuservariable	F ordinal
F namedstructurevariable	F outputfilename
F naturalwd	F overloadbookmark
F negatedcolorcomponent	F overloadlowercase
F newarray	F overloadsattribute
F newhashedtable	F overloaduppercase
F newindexedtable	F pageblockrealpage
F newluatable	F pageofinternal
F newparwrapper	F pageoverflow
F newrepeatablerandom	F pagestaterealpage
F newstacking	F pagestaterealpageorder
F nextparallel	F paragraphfillmodecodestring
F nextsubcountervalue	F paragraphoptioncodestring
F nodimen	F parcontextcodestring
F nofbufferlines	F pardir
F nofconversions	F parpasscallback
F nofdays	F parpassidentifier
F nofdetachedinsertions	F parpos
F noflinesinbox	F partriggercodestring
F nofmathvariants	F pdfbackendcurrentresources
F nofstackedfloats	F pdfbackendsetcatalog
F nologbuffering	F pdfbackendsetcolorspace
F normalizecodestring	F pdfbackendsettextgstate
F normalizedbodyfontsize	F pdfbackendsetinfo
F normalizeparcodestring	F pdfbackendsetname
F nospacesmodecodestring	F pdfbackendsetpageattribute
F notedeltapage	F pdfbackendsetpageresource
F noteinternal	F pdfbackendsetpagesattribute
F notelistindex	F pdfbackendsetpattern
F noteprefixednumber	F pdfbackendsetshade
F notetitle	F pdfcolor
F ntb_split_section_check	F pdfextension
F ntb_split_section_fetch	F pdffeedback
F ntb_split_section_locate	F pdflastobj
F ntb_split_section_reset	F pdfliteral
F ntimes	F pdfobj
F number	F pdfrefobj
F numbers	F pdfsetuserdata
F objectreference	F pdfvariable
F objectreferencepage	F percentageof
F octnumber	F pfabs

F pfacos	F postlistcopy
F pfacosh	F postponenotes
F pfasin	F prefixedconverted
F pfasinh	F prelistbox
F pfatan	F prelistcopy
F pfatanh	F preparecolumnsetflush
F pfatantwo	F prerolledpages
F pfceil	F presetcolumnsetsheets
F pfcos	F presetcolumnsetspreadsheets
F pfcosh	F presetmathematics
F pfdeg	F presetmathfontalternate
F pfexp	F presetsymbolist
F pffloor	F previoussubcountervalue
F pflog	F privatecharacter
F pfmod	F privatecharactercode
F pfpow	F processbodyfontsizes
F pfrad	F processbuffer
F pfrem	F processcollectedmath
F pfround	F processedfile
F pfsin	F processedfiles
F pfsinh	F processfile
F pfsqrt	F processfilemany
F pftan	F processfilenone
F pftanh	F processfileonce
F pgfxcolorspec	F processjob
F pickupbuffer	F processlist
F pickupmarkedcontent	F processregister
F pickuppunctuation	F processsplit
F placeparallel	F processsynonyms
F popfloat	F product
F pophyphenation	F profilebox
F poplist	F profilemacro
F poplocalanchors	F project
F poplogfile	F pruneboxesincache
F popparagraphtweak	F purefontname
F poppath	F pushfloat
F poprandomseed	F pushhyphenation
F popreferenceprefix	F pushlist
F popregime	F pushlocalanchors
F poprunstate	F pushlogfile
F popsectionblock	F pushparagraphtweak
F positunum	F pushpath
F positunumdef	F pushrandomseed
F postlistbox	F pushreferenceprefix

F pushregime	F registerfontalternative
F pushrunstate	F registerfontfamily
F pushsectionblock	F registerforcedbreak
F pushstream	F registergroupset
F putboxincache	F registerhashedfiles
F putincolumnset	F registerhelp
F putincolumnsetdirect	F registerhyphenationexception
F putnextboxincache	F registerhyphenationpattern
F qrcodebuffer	F registeritemgroup
F qrcodestring	F registerlabel
F rawMPdata	F registerlanguagefeatures
F rawcharacter	F registerlinenumbering
F rawsetupstring	F registermaintextcolor
F rawsubcountervalue	F registermpextensible
F read	F registernamedlua
F readfromterminal	F registernamespace
F readline	F registerobject
F readlinedirect	F registerpattern
F recolorbox	F registerpostponedblock
F referencecolumn	F registerreferencedobject
F referencepagedetail	F registerrendering
F referencepagestate	F registersection
F referenceposx	F registershownsynonym
F referenceposy	F registersnaprange
F referencerealpage	F registerstructureprocessor
F registeranchorbox	F registersynchronize
F registerattachment	F registersynonym
F registerbackendsymbol	F registertransliteration
F registerbackground	F registerunit
F registerbodyfontsize	F registerunitshortcut
F registerbookmark	F registerunknownbodysize
F registerboxglyph	F registerusedsynonym
F registerbuttons	F registeruserdata
F registercolorintent	F registerverbosemathlabel
F registercolumnsetarea	F removelastline
F registercolumnsetsheet	F renderingvar
F registercolumnsetspreadsheets	F reorderfloats
F registerengineclass	F replacefeature
F registerfallbackfont	F replacepospxywhd
F registerfiguremask	F replacewildcard
F registerfigurepattern	F reportstructure
F registerfigurerange	F resavefloat
F registerfiguresuffix	F reservedautoregiontag
F registerfilescheme	F resetMPinstance

F resetalternate	F ruleoptioncodestring
F resetbackgroundrowdata	F runcontextjob
F resetboxesincache	F safechar
F resetcharacteralign	F samplefile
F resetcolumnset	F saveboxresource
F resetcomparingtext	F savebuffer
F resetcounter	F savecounter
F reseteffect	F savecurrentattributes
F resetfeature	F savecurrentvalue
F resetfontfeature	F savedlistnumber
F resetfontsolution	F savedlistprefixednumber
F resetforcedbreak	F savedlisttitle
F resetinjector	F savefloat
F resetlogfile	F saveimageresource
F resetmapfiles	F savemargindata
F resetmathattributes	F savenote
F resetnullfont	F savepagedata
F resetparallel	F savepageinjections
F resetpath	F saveparallel
F resetreference	F savepos
F resetscript	F savespecificfloat
F resetsstructureprocessor	F savestructureblock
F resetsubcounter	F scangivendimensions
F resetsynchronizemarking	F scriptsmodecodestring
F resetsynonyms	F second
F resettimer	F selectstructureblock
F resettrackers	F set_extensible_data
F resolvedemoji	F setadaptive
F restartcounter	F setalternate
F restartsubcounter	F setautoprefix
F restorecounter	F setbackgroundrowdata
F restorecurrentattributes	F setboxglyph
F restorenote	F setboxline
F restoreobject	F setbreakpoints
F reuserandomseed	F setcharacteralign
F reversevboxcontent	F setcharacteraligndetail
F revivefeature	F setcharactercasing
F rightmathkern	F setcharactercleaning
F romannumerals	F setcharacterkerning
F rotateparshape	F setcharacterspacing
F rounded	F setcharacterstripping
F roundedfill	F setclosedocumentaction
F roundedoutline	F setclosepageaction
F ruby	F setcolormodel

F setcolumnsetarea	F setinjector
F setcolumnsetlines	F setinsertionlocation
F setcolumnsetmvl	F setinsertmigration
F setcolumnsetpresent	F setinterfaceconstant
F setcolumnsetproperties	F setinterfaceelement
F setcolumnsetstart	F setinterfacemessage
F setcomparetext	F setinterfacemessages
F setcomparingtext	F setinterfacevariable
F setcounter	F setinternalreference
F setdataset	F setitaliccorrection
F setdestinationattribute	F setjavascriptpreamble
F setdigitsmanipulation	F setjobcomment
F setdirection	F setlanguageexceptions
F setdocumentargument	F setlanguageoptions
F setdocumentcommandline	F setlanguagepatterns
F setdocumentctxfile	F setlanguagesynonym
F setdocumentdefaultargument	F setlinefiller
F setdocumentenvironments	F setlineprofile
F setdocumentfilename	F setlocalalignanchor
F setdocumentfilenames	F setlocalmarkanchor
F setdocumentmodes	F setlocalsyncanchor
F setdocumentmodules	F setluatable
F seteffect	F setmathalphabet
F setelementbackentag	F setmathattribute
F setelementnature	F setmathfontalternate
F setextrafontkerns	F setmathfontstyle
F setfieldcalculationset	F setmathsnapping
F setfigureconversion	F setmathvariant
F setfigurelookuporder	F setmetaglyph
F setfigurepaths	F setmpextensions
F setfirstline	F setnaturalwd
F setfontfeature	F setnegative
F setfontofid	F setnextinternalreferences
F setfontsolution	F setnextreferenceorder
F setformat	F setnotestate
F setformsmethod	F setopendocumentaction
F sethsizecolumnset	F setopenpageaction
F sethsizecolumnspan	F setowncounter
F sethyphenatedurlcharacters	F setownsubcounter
F sethyphenationfeatures	F setpagecolormodel
F sethyphenationmethod	F setpagestate
F setidentityvariable	F setpagestaterealpageno
F setinitial	F setpagetransition
F setinitialsectionblock	F setparagraphmetashape

F setparagraphshape	F settagitem
F setparbuilder	F settagitemgroup
F setparwrapper	F settaglist
F setpdfcompression	F settagmarginanchor
F setperiodkerning	F settagmargintext
F setpostlistbox	F settagmgraphic
F setprelistbox	F settagnotation
F setprofile	F settagnotationsymbol
F setrandomseed	F settagparagraph
F setrealign	F settagproperty
F setrealspaces	F settagpublication
F setreferencelinkmethod	F settagregister
F setregionbox	F settagsetreferencedescription
F setregionboxtagged	F settagsorting
F setregistermethod	F settagssubsentencesymbol
F setreplacements	F settagssynonym
F setruby	F settagtablecell
F setrule	F settagtabulatecell
F setscript	F settransliteration
F setsectionblock	F setupbookmarks
F setsectionentry	F setupcanvas
F setshadow	F setupcharacterspacing
F setshift	F setupcomparingtext
F setsofthyphens	F setupexport
F setsplitlisthtdp	F setupfontexpansion
F setstacking	F setupfontprotrusion
F setstructureblockstate	F setupinsertion
F setstructurelevel	F setuplinenumbering
F setstructurenumber	F setupsynctex
F setsubcounter	F setupusermetadata
F settagcodepoint	F setupviewerlayer
F settagcombination	F setvisual
F settagcombinationpair	F setvisualfont
F settagconstruct	F setvisualallayer
F settagdelimitedsymbol	F setvisuals
F settagdescriptionindex	F setvsizecolumnset
F settagfigure	F setxmpfile
F settagfloat	F shiftmatrixornaments
F settagformulacontent	F shiftparshape
F settaggedmetadata	F shipoutpage
F settaggingcomment	F showarray
F settaggingoption	F showassignerror
F settaggingpresets	F showattributes
F settaghighlight	F showbits

F showboxinbuffer	F splitfilename
F showbtxdatasetauthors	F splitsamplefile
F showbtxdatasetcompleteness	F spotcolorname
F showbtxdatasetfields	F spotcolorparent
F showbtxentry	F spotcolorvalue
F showbtxfields	F squid_check
F showbtxhashedauthors	F startactualtext
F showbtxtables	F startalternativetext
F showbtxvariants	F startchemical
F showchardata	F startclipping
F showcounter	F startcollectingmath
F showdirectives	F startcolorset
F showdiscretionaries	F startcomponent
F showexperiments	F startenvironment
F showfontparameters	F startfontsolution
F showhyphenatedinlist	F startgraphicgroup
F showhyphenationtrace	F startlocalcomponent
F showinjector	F startmarkpages
F showjustification	F startmatrix
F showlogcategories	F startmirroring
F showluatables	F startpageblock
F showluatokens	F startparbuilder
F showmacrostack	F startprerollpageblock
F showmessage	F startproduct
F showpagelist	F startproject
F showparagraphshape	F startregime
F showprofiledmacros	F startrotation
F showstructure	F startruby
F showtrackers	F startscaling
F silliness	F startsectionlevel
F simplealign	F startstream
F simplecases	F starttext
F simplematrix	F startviewerlayer
F sin	F step
F sind	F stopactualtext
F sl	F stopalternativetext
F spaceddigits	F stopchemical
F spacefactorcodestring	F stopclipping
F spaceskipcodestring	F stopcollectingmath
F special	F stopcolorset
F specificationoptioncodestring	F stopcomponent
F specifiedfont	F stopenvironment
F specifiedfontsize	F stopfontsolution
F specifiedfontspec	F stopgraphicgroup

F stoplocalcomponent	F subsubcountervalues
F stopmarkpages	F subtocolumnsetmvl
F stopmatrix	F subtocolumnsetmvlbalance
F stopmirroring	F subtractfeature
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F stopparbuilder	F sync
F stopprerollpageblock	F synccolor
F stopproduct	F synccolorclone
F stopproject	F synccolorcount
F stopregime	F synchronizelocalanchors
F stoprotation	F synchronizemarking
F stopscaling	F synchronizesteps
F stopsectionlevel	F synchronizestream
F stopstream	F syntexblockfilename
F stoptext	F syntexdisable
F stopviewerlayer	F syntexpause
F storejavascriptcode	F syntexpopline
F storejavascriptpreamble	F syntexpushline
F storenote	F syntexresetfilename
F storeregister	F syntexresume
F strc_tags_document_pop	F syntexsetfilename
F strc_tags_document_push	F synonymfirstuserpage
F strc_tags_get_element_tag	F synonymmeaning
F strc_tags_parcounter_pop	F synonymname
F strc_tags_parcounter_push	F synonympages
F strc_tags_set_aspect	F synonymuserpages
F strc_tags_set_element_user_properties	F systemlog
F strc_tags_start	F tabl_ntb_get_sec
F strc_tags_start_chained	F tabl_ntb_set_sec
F strc_tags_start_detail	F tagmfunctionlab
F strc_tags_start_ignore	F tagmfunctionlabattribute
F strc_tags_start_userdata	F tan
F strc_tags_stop	F tand
F stringtoorientation	F textdir
F stripinserts	F textime
F structureautocatcodedget	F tf
F structureblockuservariable	F thebox
F structurecatcodedget	F thefirstcharacter
F structuregivencatcodedget	F themaxboxwidth
F structurenumber	F theremainingcharacters
F structuretitle	F tightfitcompensation
F structureuservariable	F timestring
F structurevariable	F tobigpoints
F subcountervalue	F tobit

F tobits	F useluamodule
F tochar	F useluatable
F tohexa	F usemathpluginlibrary
F toorientation	F usemodules
F totalofstring	F usepath
F tounicharnum	F useproduct
F towholebigpoints	F useproject
F transliterate	F userferences
F transliteratebuffer	F userregister
F transliterated	F usesubpath
F transliteratedbuffer	F usesymbols
F transliterationexception	F usetransliteration
F traverseblock	F useurl
F traversemath	F usezipfile
F triggerpagebuilder	F utfchar
F truefilename	F utflower
F truefontname	F utfmathclass
F type	F utfmathcommand
F typebuffer	F utfmathcommandfiller
F typefile	F utfmathfiller
F uchar	F utfmathstretch
F uchexnumber	F utfshape
F uchexnumbers	F utfstrip
F undefinechemical	F utfupper
F unicodechar	F uuid
F unihex	F vboxlisttohbox
F unit	F verbose
F unloadlanguage	F vpackbox
F unstripinserts	F vpackedbox
F unsupportedcs	F way
F useMPlibrary	F weekday
F useanyfile	F weekdayname
F useanyfileonce	F widthofstring
F useboxresource	F widthuptohere
F usecolors	F write
F usecomponent	F writeline
F useenvironment	F writestatus
F usefigurebase	F writestring
F usefile	F x_table_c
F useimageresource	F x_table_cleanup
F usejavascriptpreamble	F x_table_construct
F usejavascriptscripts	F x_table_create
F uselibrary	F x_table_finish_row
F uselist	F x_table_flush

F x_table_init_construct	F xmldoifelseatt
F x_table_init_reflow_height	F xmldoifelseempty
F x_table_init_reflow_height_option	F xmldoifelseselfempty
F x_table_init_reflow_width	F xmldoifelsestext
F x_table_init_reflow_width_option	F xmldoifempty
F x_table_next_row	F xmldoifnot
F x_table_next_row_option	F xmldoifnotatt
F x_table_r	F xmldoifnotempty
F x_table_reflow_height	F xmldoifnotselfempty
F x_table_reflow_width	F xmldoifnottext
F x_table_set_construct	F xmldoifselfempty
F x_table_set_reflow_height	F xmldoiftext
F x_table_set_reflow_width	F xmlelement
F xmladdindex	F xmlfileline
F xmlaftersetup	F xmlfilename
F xmlall	F xmlfilter
F xmlappendsetup	F xmlfilterlist
F xmlapplyselectors	F xmlfirst
F xmlatt	F xmlflush
F xmlattdef	F xmlflushcontext
F xmlattribute	F xmlflushlinewise
F xmlattributedef	F xmlflushpure
F xmlbadinclusions	F xmlflushsetups
F xmlbeforesetup	F xmlflushspacewise
F xmlchainatt	F xmlflushstext
F xmlchainattdef	F xmlformulatobuffer
F xmlchecknamespace	F xmlfunction
F xmlcommand	F xmlgetindex
F xmlconcat	F xmlinclude
F xmlconcatrange	F xmlincludeoptions
F xmlcontext	F xmlinclusion
F xmlcount	F xmlinclusionbase
F xmlcssmappedstylevalue	F xmlinclusions
F xmlcssstylevalue	F xmlindex
F xmldelete	F xmlinlineverbatim
F xmldepth	F xmlinstalldirective
F xmldirect	F xmllast
F xmldirectives	F xmllastatt
F xmldirectivesafter	F xmllastmatch
F xmldirectivesbefore	F xmllastpar
F xmldisplayverbatim	F xmlloadbuffer
F xmldoif	F xmlloaddata
F xmldoifatt	F xmlloaddirectives
F xmldoifelse	F xmlloadentities

F xmlloadfile	F xmltag
F xmlmain	F xmltexatt
F xmlmatch	F xmltexentity
F xmlname	F xmltext
F xmlnamespace	F xmltobuffer
F xmlnonspace	F xmltobuffertextonly
F xmlpar	F xmltobufferverbose
F xmlparam	F xmltofile
F xmlpath	F xmltoparameters
F xmlpopmatch	F xmlverbatim
F xmlpos	F xmlwithindex
F xmlprependsetup	F year
F xmlpure	T containers
F xmlpushmatch	F cleanname
F xmlraw	F content
F xmlrawtex	F define
F xmlrefatt	F is_usable
F xmlregisterns	F is_valid
F xmlremapname	F read
F xmlremapnamespace	B usecache
F xmlremovesetup	F write
F xmlresetinjectors	T context
F xmlresetsetups	F bc
F xmlsave	F bgroup
F xmlsetatt	F char
F xmlsetattribute	F concat
F xmlsetcommandtonone	D conditionals
F xmlsetcommandtotext	F cssdimension
F xmlsetentity	F ctxescape
F xmlsetinjectors	F ctxescaped
F xmlsetpar	F direct
F xmlsetparam	F egroup
F xmlsetsetup	F escape
F xmlsnippet	F escaped
F xmlstartraw	F firstofoneargument
F xmlstarttiming	F firstoftwoarguments
F xmlstopraw	F fprint
F xmlstoptiming	F getlogger
F xmlstrip	F glyph
F xmlstripanywhere	F gobbleoneargument
F xmlstripeeverything	F latelua
F xmlstripnolines	F loadfile
F xmlstripped	F loadviafile
F xmlstrippednolines	D modes

F newindexer	F Alphabetic:es
F newtexthandler	F Alphabetic:ru
F newerbosehandler	F Alphabetic:sl
F nr	F Character
F par	F Characters
F popcatcodes	F I
F poplogger	F KA
F printlines	F KR
F printtable	F R
F protect	F RK
F pushcatcodes	F Romannumerals
F pushlogger	F Russiannumerals
F rule	F Sloveniannumerals
F runfile	F Spanishnumerals
F runstring	F Word
F safechar	F Words
F secondoftwoarguments	F a
F setconditional	F a:es
F setfontid	F a:ru
F setmode	F a:sl
F setsystemmode	F abjadnodotnumerals
F settracing	F abjadnumerals
F settrialtypesettingmethod	F alphabetic
F space	F alphabetic:es
F sprint	F alphabetic:ru
F startcollecting	F alphabetic:sl
F step	F character
F stepwise	F characters
F stopcollecting	F chineseallnumerals
D systemmodes	F chineseacapnumerals
F tobuffer	F chinesedatenumerals
D tokenizedcs	F chinesenumerals
F tolines	F chr
F trialtypesetting	F chrs
F unprotect	F cn
F utfchar	F cn-a
F viafile	F cn-c
T converters	F cn-d
F A	F convert
F A:es	F decimals
F A:ru	F define
F A:sl	F gregorian_to_hebrew
F AK	F gregorian_to_jalali
F Alphabetic	F hebrewnumerals

F hexstringtonumber	F wrap
F i	F yield
F isleapyear	T ctxrunner
F jalali_to_gregorian	F load
F lchexnumber	F preparedfile
F lchexnumbers	D prepfiles
F leapyear	F resolve
F lower	T debug
F max	F getinfo
F maxchrs	F sethook
F nicenumber	F traceback
F nofdays	F dimen
F number	T dir
F numbers	F collectpattern
F octnumber	F current
F octstringtonumber	F expandlink
F ordinal	F expandname
F r	F found
F romannumerals	F glob
F russiannumerals	F globdirs
D sequences	F globfiles
F settime	F globpattern
F sloveniannumerals	F ls
F spaceddigits	F makedirs
F spanishnumerals	F makedirs
F textime	F pop
F toabjad	F push
F tochinese	T directives
F tohebrew	D data
F toroman	F default
F totime	F disable
F uchexnumber	F enable
F uchexnumbers	F list
F upper	S name
F weekday	F register
F word	F report
F words	F reset
T coroutine	F show
F close	F value
F create	F values
F isyieldable	T document
F resume	D arguments
F running	F getargument
F status	F getfilename

F pdf_cleanup_cidsets	F simplexdetail
F pdf_cleanup_procsets	F simplexnoise
F pdf_identify_content	F stepoctave
F pdf_serialize_content	T environment
F pdf_strip_content	F argument
F pdf_strip_page	D arguments
F setargument	D basicengines
F setcommandline	N currentrun
F setdefaultargument	F definefilefallback
F setenvironments	F definefilesynonym
F setfilename	D engineflags
F setfilenames	S filename
F setmodes	D filesynonyms
F setmodules	N forcedruns
D variables	F getargument
T documentdata	F globfiles
F variable	S homedir
F dofile	B initex
T drivers	B initexmode
F applyanchor	F initializearguments
F applyorientation	F initializefilenames
F convert	S inputfilebarename
F enable	S inputfilename
F finalize	S inputfilesuffix
F gethpos	S jobfilefullname
F gethvrpos	S jobfilename
F getpos	S jobfilesuffix
F getrpos	N kindofrun
F getvpos	N lmtxmode
F initialize	F loadexamodes
F install	F loadluafile
N lmtxversion	F luafile
F outputfilename	F luafilechunk
F report	S luatexengine
T effects	N luatexfunctionality
F getoctaveloops	S luatexverbose
F getoctavemethods	N luatexversion
F getoctavestatus	N maxnofruns
F getoctavevariants	S oldhome
F newoctave	D originalarguments
F octave	S outputfilename
F octavebytemap	S ownbin
F perlinnoise	S ownmain
F simplexangle	S ownname

S ownpath	N defaultdepth
B prerollrun	N defaultheight
D rawarguments	B defaultsearch
F reconstructcommandline	N defaultwidth
F relativepath	F done
F setargument	F dummy
F splitarguments	D exists
S suffix	F exists
F texfile	D formats
S texmfos	D found
S texos	F get
S texroot	F getinfo
F truefilename	F getpdfinfo
F useluamodule	F getrealpage
F usemodules	F guess
D validengines	F guessfromstring
S version	F hash
F error	D identifiers
T experiments	F identify
D data	F include
F default	D includers
F disable	F initialize
F enable	D loaded
F list	D localpaths
S name	D magics
F register	F mergegoodies
F report	N nofmissing
F reset	N nofprocessed
F show	D order
F value	D paths
F values	D patterns
T figures	F pop
F applyratio	B preferquality
F badname	D programs
D bases	F push
F bitmapimage	F qrcode
N boxnumber	F registerpattern
F bytepalette	F registerresource
D cachepaths	F registersuffix
F check	D remappers
D checkers	D resources
D conversions	F scale
D converters	F set
F current	F setconversion

F setlookups	F withinbase
F setorder	T fio
F setpaths	F getposition
D suffixes	F read2dot14
D used	F readbytes
T file	F readbytetable
F addsuffix	F readcardinal1
F basename	F readcardinal1le
F checksum	F readcardinal2
F collapsepath	F readcardinal2le
F copy	F readcardinal3
F dirname	F readcardinal3le
F expandname	F readcardinal4
F extname	F readcardinal4le
F is_qualified_path	F readcardinaltable
F is_readable	F readcline
F is_rootbased_path	F readcstring
F is_writable	F readdouble
F isreadable	F readdoublele
F iswritable	F readfixed2
F join	F readfixed4
F joinpath	F readfloat
F loadchecksum	F readfloatle
F nameonly	F readinteger1
F nametotable	F readinteger1le
F needs Updating	F readinteger2
F needsupdating	F readinteger2le
F pathpart	F readinteger3
F readdata	F readinteger3le
F removesuffix	F readinteger4
F replacesuffix	F readinteger4le
F reslash	F readintegertable
F robustname	F setposition
F savechecksum	F skipposition
F savedata	F writecardinal1
F size	F writecardinal1le
F splitbase	F writecardinal2
F splitname	F writecardinal2le
F splitpath	F writecardinal3
F suffix	F writecardinal3le
F suffixes	F writecardinal4
F suffixesonly	F writecardinal4le
F suffixonly	F writedouble
F syncmtimes	F writedoublele

F writefloat	F getalternate
F writefloatle	F getindices
T floats	F getkern
F analysemethod	F getmultiple
F checkedpagefloat	F getsubstitution
F collect	F infofont
F consult	F mode
F flush	D names
F getvariable	D nulldata
F hasstacked	D protrusions
F nofstacked	F registersanitizer
F pop	F reserveid
F push	F toeffect
F resave	T functions
F save	F dummy
F stacked	F getmetatable
T font	T globaldata
F addcharacters	N CONTEXTLMTXMODE
F addquality	N LUAFORMAT
F current	N LUAMAJORVERSION
F define	N LUAMINORVERSION
F getfont	S LUATEXENGINE
F getfontdimen	N LUATEXFORMATID
F getfontfields	N LUATEXFUNCTIONALITY
F getfontspec	S LUATEXVERBOSE
F getmathcharacterfields	N LUATEXVERSION
F getmathindex	N LUAVERSION
F getmathspec	F SAVEDREQUIRE
F getparameterfields	F assert
F gettextcharacterfields	F characterkern
F id	F collectgarbage
F max	F dimen
F nextid	F dofile
F setfont	F error
F setfontdimen	F getmetatable
F xscaled	T graphics
F yscaled	T backgrounds
T fonts	F fetchmultipar
F current	F pair
F currentid	F path
F definitypeface	F point
F enhanceid	T bitmaps
D expansions	F flush
D formats	F load

T loaders	F mathstep
F jpeg	F snapindeed
F jpg	F snaplist
F png	F traversecharmmethod
F new	F traverseglyphmethod
F placeholder	F traversehorizontal
F tocontext	F traversevertical
F bpsize	F inspect
T colorspaces	T interactions
T identifiers	D attachments
F bitmap	T fields
F jp2	F clone
F jpeg	F define
F jpg	F defineset
F png	F insert
F identify	T general
F registerpdfcompactor	F getidentity
F registerpdffont	F getidentityvariable
T synchronizers	T help
F collapse	F collect
F collect	F reference
F extend	F register
F getbottom	T javascripts
F getd	F addtopreamble
F geth	F code
F getkind	D codes
F getsize	F flushpreambles
F gettask	D functions
F gettop	D preambles
F getw	F setpreamble
F getx	F storecode
F gety	F storepreamble
F prune	F usepreamblenow
T gzip	F usescripts
F compress	D linkedlists
F compressed	T pages
F decompress	F setpagetransition
F load	F setupcanvas
F save	T references
F suffix	F setclosedocumentaction
T helper	F setclosepageaction
F getprofile	F setopendocumentaction
F mathnested	F setopenpageaction
F mathprocess	D renderings

T interfaces	F settranslation
T arrays	D setupstrings
D cachedsetups	F setvariable
F cachesetup	F showmessage
T cardinals	D storedscanners
F checkedspecification	F tolist
D complete	D translations
D constants	D usednamespaces
D corenamespaces	D variables
S currentinterface	F writestatus
S currentresponse	T io
F definecommand	F ask
F defined	F bytes
F doifelsemessage	F characters
D elements	F close
T floats	F copydata
D formats	F exists
F getmessage	S fileseparator
F getnamespace	F flush
F getsetupstring	F gobble
D hashedsetups	F input
F implement	F lines
T integers	F loadchunk
F interfacedcommand	F loaddata
T interfaces	F loadlines
F knownscanner	F newreader
F message	F noflines
F nameofscanner	F open
T namesofscanners	F output
T namespaces	S pathseparator
F define	F popen
F list	F read
T numbers	F readall
F registernamespace	F readnumber
F registerscanner	F readstring
D scanners	F savedata
F setconstant	F size
F setcount	U stderr
F setdimen	U stdin
F setelement	U stdout
F setformat	F tmpfile
F setmacro	F type
F setmessage	F write
F setmessages	F ipairs

T job	F extend
F comment	F realpage
T datasets	F realpageorder
D collected	F setstate
F extend	D tobesaved
F getdata	T parwrappers
F setdata	D collected
D tobesaved	D tobesaved
F disablesave	T positions
T embedded	F b_column
D collected	F b_region
D tobesaved	F c
T fileobjreferences	D collected
D collected	F column
D tobesaved	F columnofpos
T files	F copy
D collected	F depth
F context	F e_column
B forcerun	F e_region
F run	F enhance
D tobesaved	F extra
F getrandomseed	F get
F initialize	F getcolumndata
T linkedlists	F getfree
D collected	F gethpos
D tobesaved	F gethvrpos
F load	F getpos
F loadother	F getreserved
T meshedup	F getrpos
D collected	F getsync
D tobesaved	F gettobesaved
T objects	F getvpos
D collected	F hangafter
F get	F hangindent
F number	F height
F page	F hsize
F save	N lastr
F set	N lastx
D tobesaved	N lasty
B pack	F leftskip
N packversion	F lowerleft
T pagestates	F lowerright
D collected	F markregionbox
F countervalue	F n

F onsamepage	D tobесaved
F overlapping	N version
F p	T kpse
F page	T language
F paragraph	F clean
F parindent	F clearhyphenation
F position	F clearpatterns
F r	F current
F region	F gethjcode
F registerhandlers	F has_language
F replace	F hyphenate
F rightskip	F hyphenation
F set	F hyphenationmin
F setall	F id
F setregionbox	F new
F setspec	F patterns
F settobesaved	F postexhyphenchar
D tobесaved	F posthyphenchar
F upperleft	F preexhyphenchar
F upperright	F prehyphenchar
F used	F sethjcode
F whd	F setwordhandler
F width	T languages
F x	F addgoodiesdata
F xy	F addgoodiesfile
F y	T appliedoptions
F register	F associate
F save	D associated
T structure	F association
D collected	D counters
T components	F current
T namestack	D data
T tobесaved	D decimals
T branches	F define
S name	F explicithyphen
S type	F exportlanguage
T variables	F flatten
D checksums	T frequencies
D collected	F averagecharwidth
F getchecksum	F getdata
F makechecksum	F getdata
F restore	F getmetadata
F save	F getnumber
F setchecksum	F goodiefiles

T hjcounts	D registered
F hyphenate	T registeredactions
T hyphenators	T replacements
T dictionaries	F add
D featuresets	F addlist
F handler	F handler
T methods	F set
F expanded	F serializediscretionary
B none	F setexceptions
F original	F setgoodieshandler
F tex	F setoptions
F traditional	F setpatterns
F popmethod	F setsynonym
F pushmethod	F setwordhandler
F setmethod	F showdiscretionaries
F setup	F strippedgoodiewords
F showhyphenationtrace	F tolang
T traditional	T transliteration
F definefeatures	F exception
F gettrace	F handler
F hyphenate	F register
F injecthyphens	F set
F installmethod	F use
F lasttrace	F unload
F loadpatterns	T urls
F registerexception	D characters
F registerpattern	N lefthyphenmin
F setfeatures	D mapping
F installed	B packslashes
F installhandler	N righthyphenmin
T labels	F setcharacters
F define	N version
F split	F visualizediscretionaries
F loadable	T words
F loadwords	F check
T logger	T data
F report	F disable
F nofflattened	F enable
D numbers	T enablers
F pdflanguage	B enables
F postexhyphenchar	F found
F posthyphenchar	F load
F preexhyphenchar	T methods
F prehyphenchar	N threshold

T layouts	F convertstring
F getcanvas	F einject
F getpagedimensions	F eprint
F setupcanvas	F escape
T status	F finalized
F isleftpage	F finject
F leftorrightpageaction	F fprint
T lfs	F get
F attributes	F getvariables
F chdir	F htmfile
F currentdir	T html
F dir	F a
F isdir	F td
F isfile	F th
F isfound	F include
F isreadabledir	T inherited
F isreadablefile	S color-background-four
F iswriteabledir	S color-background-one
F iswriteablefile	S color-background-three
F link	S color-background-two
F mkdir	S title
F mkdirs	F initialize
F modification	F inject
F readlink	F lmxfile
F rmdir	F loadedfile
F setexecutable	F make
F symlink	F new
F symlinktarget	F popupfile
F touch	F print
F walkdir	F pv
T libraries	F report
D basiclua	F reset
D basictex	F result
D builtin	F set
D extralua	F show
D extratex	F stripcss
D functions	F tv
D globals	F type
D obsolete	F urlescape
D optional	F variable
T lmx	T variables
F color	S color-background-blue
F convert	S color-background-body
F convertfile	S color-background-green

S color-background-main	F status
S color-background-purple	F stop_page_number
S color-background-yellow	F stoperrorlogging
S title-default	F stopfilelogging
F load	F subdirect
D loaders	F subreport
F loadfile	F system
F loadstring	F texerrormessage
T logs	F writer
F application	T lpdf
F categories	F action
F direct	F adddocumentcolorspace
F disable	F adddocumenttextgstate
F enable	F adddocumentpattern
F finalactions	F adddocumentshade
F flush	F addtocatalog
F loggingerrors	F addtoinfo
F messenger	F addtonames
F new	F addtopageattributes
F newline	F addtopageresources
F poplogfile	F addtopagesattributes
F poptarget	F addxmpinfo
T private	F annotationspecification
F enablepagetiming	F array
F getpagetiming	F attachmentsymbols
F pushlogfile	F boolean
F pushtarget	F border
F registerfinalactions	F checkedkey
F report	F checkedresources
F reporter	F checkedvalue
F resetlogfile	F circularshade
F setformats	F close
F setformatters	F cmykcode
F setlogfile	F collectedresources
F setmessenger	F color
F setprocessor	F colorspace
F settarget	D colorspaceconstants
F settimedlog	F colorspec
F settranslations	F colorvalue
F show	F colorvalues
F start_page_number	F commentsymbols
F start_run	F compressdata
F starterrorlogging	F compresslevel
F startfilelogging	F constant

F copyarray	F open
F copyboolean	F query
F copyconstant	F load
F copydictionary	F mergewidths
F copyfloat	D objectcodes
F copyinteger	F objectrange
F copynumber	F objecttype
F copystring	F pageplugin
F copyunicode	F parsecontent
F deferredobject	F producer
F delayedobject	T resolvers
F destinationspecification	F destinations
F dictionary	F embeddedfiles
F docstring	F javascripts
T encodingvalues	F layers
N base16	F pages
N base85	F structure
N decoded	F widgets
N encoded	F unload
N plain	F verboseobject
N utf16be	F escaped
N utf16le	F finalizedocument
T endpoints	F finalizepage
S Div	F finalizesignature
S Part	F finishtransparencycode
S Sect	T flags
T epdf	T annotations
F allcontent	N AutoView
F analyzefonts	N Hidden
F contentplugin	N Invisible
F contenttostring	N Locked
F contenttotext	N LockedContents
D encryptioncodes	N NoRotate
F expanded	N NoView
F expandwidths	N NoZoom
F fontplugin	N Print
F getpagecontent	N Printable
F getstructure	N ReadOnly
T helpers	N ToggleNoView
F tounicodetable	N auto
T image	N hidden
F close	N printable
F copy	T widgets
F new	N Comb

N CommitOnSelChange	F getmatrix
N DoNotScroll	F getnofpages
N DoNotSpellCheck	F getpageproperties
N Edit	F getpagereference
N FileSelect	F getpagetags
N MultiLine	F getpos
N NoExport	F gettaggingstatus
N NoToggleToOff	F gettrailerid
N Password	F getversion
N PopUp	F getxformname
N PushButton	F graycode
N Radio	T h_hex_2
N RadiosInUnison	S
N ReadOnly	S
N Required	S
N RichText	S
N Sort	S
N file	S (
N fixed	S )
N nocheck	S \
N protected	T h_hex_4
N readonly	F hasmatrix
N required	F immediateobject
N sorted	F includeimage
N unavailable	F initialize
F flushfonts	T injectors
F flushgroup	F bitmap
F flushobject	F jp2
F flushstreamfileobject	F jpg
F flushstreamobject	F png
T fonts	F injectxmpinfo
F color_direct	F insertxmpinfo
F color_indirect	F lastreferredpage
D formats	F layerreference
F frombytes	F limited
F fromeight	F linearshade
F frompdfdoc	F literal
F fromsixteen	F majorversion
F getcatalog	F makenametree
F getcompression	F minorversion
F getfontname	F noffontregistries
F getfontobjectnumber	F nopages
F getformatoption	F null
F getinfo	F number

F object	F splitsixteen
F objectcompresslevel	F spotcode
F pagereference	F stream
F patternstream	F string
F pdfcolor	F supportedformats
F pdftimestamp	F tocidset
T permissions	F toeight
N access	F topdfdoc
N add	F topermissions
N assemble	F tosixteen
N extract	F transparency
N fillin	F transparencycode
N modify	T transparencygroups
N print	B none
N quality	F transparencyvalue
F preparesignature	F unicode
F print	T usedcharacters
F procset	T usedfontnames
B protectresources	N dejavusansmonoboldttf-1-0-0
F quads	T usedfontobjects
F rectangle	N dejavusansmonoboldttf-1-0-0
F reference	D usedfontstreams
F registerannotation	T usedindices
F registerdestination	T dejavusansmonoboldttf-1-0-0
F registerdocumentfinalizer	T dejavusansmonottf-1-0-0
F registerfontmethod	F verbose
F registerinitializer	T lpeg
F registerpagefinalizer	F B
F registerpattern	F C
F registersignature	F Carg
F replacexmpinfo	F Cb
F reserveobject	F Cc
F rgbcode	F Cf
F rotationcm	F Cg
F setcompression	F Cmt
F setencryption	F Cp
F setpageorder	F Cs
F setpagestate	F Ct
F setpagetag	F P
F setutfstringmode	F R
F setversion	F S
F sharedobject	F UP
F shareobject	F UR
F shareobjectreference	F US

F V	F callbytecode
F afterprefix	F comparekeys
F anywhere	F finalizeinitex
F append	N firstbytecode
F balancer	F get_functions_table
F beforesuffix	F getallkeys
F checkedsplit	F getbytecode
F containsws	F getcheckedkeys
F counter	F getcurrenttime
F endstripper	F getdebuginfo
F finder	F getexitcode
F firstofsplit	F getfunctionstable
F frontstripper	F getnibble
F instringchecker	F getnumerickeys
F is_lpeg	F getprecisesecconds
F keeper	F getpreciseticks
F locale	F getruntime
F match	F getstacktop
F oneof	F getstartupfile
D patterns	F getstringkeys
F pcode	F getversion
F print	N lastbytecode
F ptree	D messages
F replacer	F newindex
F secondofsplit	F newtable
F setmaxstack	D numbers
F setutfcasers	F protectglobal
F split	F registercode
F splitat	F registeredcodes
F splitter	F registerglobal
F stripper	F registerinitexfinalizer
F times	F registername
F tsplitat	F setbytecode
F tsplitter	F setexitcode
F type	F setnibble
F utfR	S startupfile
F utfchartabletopattern	F subnibble
F utfreplacer	S version
S version	T luac
T lua	F inspect
F addnibble	F print
T bytecode	T luatex
D bytedata	F abort
T bytedone	F cleanup

F cleanuptempfiles	F concat
F currentfile	F concatrange
F currentlevel	F content
F currenttotal	F context
F poprunstate	F convert
F pushrunstate	F count
F registerdumpactions	F delete
F registerpageactions	F depth
F registerstartactions	F direct
F registerstopactions	T directives
F registertempfile	F after
N starttime	F before
T syntex	F handle
F blockfilename	F load
F collect	F setup
F disable	F displayverbatim
F enable	F doif
F finish	F doifelse
F isenabled	F doifelseempty
F pause	F doifelsetext
F popline	F doifempty
F pushline	F doifnot
F registerdisabler	F doifnotempty
F registerenabler	F doifnottext
F resetfilename	F doiftext
F resume	F element
F setfilename	F elements
F setup	D entities
F start	F fileline
F stop	F filename
F wrapup	F filter
F wrapup	F filterlist
T lxml	F first
F addindex	F flush
F all	F flushlinewise
F applyfunction	F flushsetups
F applyselectors	F flushspacewise
F att	F get_id
F attribute	F getid
F badinclusions	F getindex
F chainattribute	F id
F checkindex	U idsplitter
F collected	F ifatt
F command	F ifattempty

F include	F setaction
F inclusion	F setatt
F inclusions	F setattribute
F index	F setcdata
F inlineverbatim	F setcommandtone
F installsetup	F setcommandtotext
F last	F setpar
F lastatt	F setparam
F lastmatch	F setparameter
F lastpar	F setsetup
F load	F snippet
F loadbuffer	T sorters
F loaddata	F add
T loaded	F compare
F main	F flush
F match	F reset
F name	F show
F namespace	F sort
F nonspace	F splitid
T obsolete	F startraw
F get_id	F startunescaped
F par	F stopraw
F param	F stopunescaped
F parameter	F store
F path	F strip
F popmatch	F stripped
F pos	F tag
F position	F texatt
F pure	F text
F pushmatch	F tobuffer
F raw	F tofile
F rawroot	F topparameters
F rawtex	F toverbatim
F refatt	F verbatim
F register	F withinindex
F registerentity	D xmltexhandler
F removesetup	T math
F replace	F abs
F resetcdata	F acos
F resetsetups	F asin
F resolvedentity	F atan
F root	F atan2
F save	F ceil
F serialize	F ceiling

F cos	F beforepassingfonttotex
F cosd	F big
F cosh	D boldmap
F deg	T categories
F div	D functions
F even	D charactersets
F exp	F checkaftercopyingfont
F floor	D classes
F fmod	D classnames
F frexp	D codes
N huge	F define
N initialiseseed	T dictionaries
F ldexp	D data
F log	D defaults
F log10	D groups
F max	F groupset
N maxinteger	F groupsetgroup
F min	F name
N mininteger	D names
F mod	F registercharacter
F modf	F registergroup
F odd	F registergroupset
N pi	D sets
F pow	D variants
F rad	F dimensions
F random	F disablecollecting
F randomseed	T domainlabels
F round	T domainnames
F setrandomseedi	N default
F sin	F enablecollecting
F sind	F extensiblecode
F sinh	D extensibles
F sqrt	N extrabase
F tan	T fallbacks
F tand	F apply
F tanh	F install
F tointeger	F fallbackstyleattr
F type	F familyname
F ult	F functiontype
T mathematics	D gaps
F addfallbacks	F getblobindex
F addvariant	F getboth
D alphabets	F getdomainname
D alternatives	F getextensibledata

F getmathblob	F tweakaftercopyingfont
F getoptionallabel	F tweakbeforecopyingfont
F getstyle	T tweaks
F gettextblob	F accentdimensions
F getverboselabel	F action
F horizontalcode	F addactuarian
F initializeparameters	F addarrows
F makefont	F addbars
D mapremap	F addcomposites
F markblobindexdone	F addequals
F overloadparameters	F addfourier
F preset	F addmirrors
T presets	F addparts
T less	F addprivates
T more	F addrules
T zero	F addscripts
N privatebase	F bigslots
F registerextensible	F checkaccents
F registersimplematrix	F checkspacing
F registerverboselabel	F copyaccents
F remapalphabets	T datasets
F renderextensible	T accentdimensions
T renderings	T accent
D mappings	T over
D numbers	T under
D sets	T addarrows
F renderset	T addscripts
F resetattributes	T checkspacing
F scaleparameters	T copyaccents
F setextensibledata	T fixprimes
F setmathsymbol	T fixslashes
D sets	T wipecues
F setsnapping	F dimensions
F setvariant	F extendaccents
F strutcode	F fallbacks
D styles	F fixaccents
F syncboth	F fixellipses
F syncname	F fixintegrals
F syncstyle	F fixoldschool
T tagging	F fixprimes
B mfenced	F fixradicals
F toengineclass	F fixslashes
F toname	F fixvariants
F tostyle	F flattenaccents

F fontname	F wipevariants
F inspect	F utfmathaccent
F keepbases	F utfmathclass
F kernpairs	F utfmathcommand
F kerns	F utfmathfiller
T kernsets	F utfmathstretch
T .,	F variantcode
F margins	F variantcount
F message	F virtualize
F moveitalics	D virtualized
F movelimits	T md5
F parameters	F HEX
F radicalbodymargins	F dec
F radicaldegreeanchors	F hex
F replace	F sum
F replacealphabets	F sumHEXA
F replacerules	F sumhexa
F setoptions	T metapost
F setovershoots	F checkformat
F showinfo	F checktracingonline
F simplifykerns	F cm
F sortvariants	T codes
F staircase	N addto
F strut	N ampersand
T subsets	N and
T acenorsuvxz	N assignment
T bhklt	N atleast
T d	N begingroup
T dotless	N btex
T f	N capsule
T gjqy	N colon
T horizontalfences	N comma
T i	N controls
T integrals	N curl
T letterlike	N cycle
T mw	N definedmacro
T p	N delimiters
F substitute	N endgroup
F topanchors	N equals
F tweaks	N etex
F version	N everyjob
F wipeanchors	N exittest
F wipecues	N expandafter
F wipeitalics	N fiorelse

N if	N step
N input	N stop
N interim	N str
N internal	N string
N iteration	N tag
N leftbrace	N tension
N leftbracket	N tertiarybinary
N leftdelimiter	N tertiarydef
N let	N thingstoadd
N macrodef	N to
N macrospecial	N typename
N maketext	N unary
N message	N undefinedcs
N mode	N until
N newbytemap	N void
N newinternal	N with
N nullary	N within
N numeric	N write
N of	F colorinitializer
N ofbinary	F convert
N onlyset	F currentmpx
N parametertype	F currentmpxstatus
N pathconnect	S defaultformat
N pathjoin	S defaultinstance
N plusorminus	S defaultmethod
N primarybinary	F directrun
N primarydef	F escaped
N property	T exectime
N protection	D extensiondata
N relax	F filter
N repeatloop	F filterclippath
N rightbrace	F flush
N rightbracket	T flushers
N rightdelimiter	T pdf
N runscript	F flushfigure
N save	F startfigure
N scantokens	F stopfigure
N secondarybinary	F textfigure
N secondarydef	F tocomment
N semicolon	F flushnormalpath
N setbounds	T fonts
N shipout	F define
N show	F format_number
N slash	F format_string

F formatnumber	F nofsciptruns
F getbackendoption	F nvformat
F getbendtolerance	F pdfliterals
F getbuffer	F pluginactions
F getclippath	F popformat
F getextensions	F popscriptrunner
F getextradata	F popvariable
F gethashentries	F popvariables
F getinstancebyname	F preparetextextsdata
F getinstanceinfo	F process
F getinstancenames	F processing
F getjobdata	F processplugins
F getmovetolerance	T properties
F getparameter	F pushformat
F getparameterpreset	F pushscriptrunner
F getparameterset	F pushvariable
F getrecord	F pushvariables
F getstatistics	B quitonerror
F gettext	B reducetogray
F gettolerance	F registerdirect
F graphic	F registerfilter
F graphic_base_pass	F registermesher
F hascurvature	F registermeshupper
F includesvgbuffer	F registerscript
F includesvgfile	F registertokens
F installplugin	F remappedtext
F isobject	F remaptext
T knownparameters	F reporterror
S lastlog	F reportsvgfonts
F load	F reset
F maketext	F resetbackendoptions
F mesh	F resetlastlog
F mesher	F resetplugins
F meshupper	F run
T metafonts	F runinternal
T metafun	F runscript
F interpolate	F scanparameters
F topath	F scriptindex
T mptopdf	F setbendtolerance
F convertmpstopdf	F setbuffer
N nofconverted	F setextensions
N n	F setlogging
F newlogger	F setmovetolerance
N nofruns	F setoutercolor

F setparameter	F totable
F setparameterset	T types
F setrecord	N boolean
F settext	N cmykcolor
F settolerance	N color
F setvariable	N dependent
B showlog	N independent
F showsvgpage	N known
F simple	N nep
F splitprescript	N numeric
F startgraphic	N pair
F startsvghashing	N path
F stopgraphic	N pen
F stopsvghashing	N picture
F svformat	N protodependent
B svgcachefile	N string
F svgcolorremapper	N structured
T svgfactors	N suffixedmacro
N %	N tokenlist
N bp	N transform
N cm	N unknownboolean
N em	N unknownnep
N ex	N unknownpath
N in	N unknownpen
N mm	N unknownpicture
N pc	N unknownstring
N pt	N unsuffixedmacro
N px	N vacuous
F svglyphomp	F typesvgpage
F svgshapestomp	F unload
F svgshapestopdf	F untagvariable
F svgsplitcolor	T variables
F svgtomp	T mime
F svgtopdf	F b64
F sxsy	F decode
T tex	T decodet
F get	F base64
F reset	F quoted-printable
F set	F dot
F setfrombuffer	F encode
B texerrors	T encodet
F texexp	F base64
F theclippath	F quoted-printable
F tographic	F eol

F normalize	D cldf-com
F qp	D cldf-ver
F qpwrp	D colo-icc
F report	D colo-ini
F stuff	D cont-run
F unb64	D core-con
F unqp	D core-ctx
F wrap	D core-dat
T wrapt	D core-sys
F base64	D driv-shp
F default	D file-mod
F quoted-printable	D file-syn
F text	D font-afk
F wrp	D font-agl
T moduledata	D font-aux
T modules	D font-cff
D anch-loc	D font-chk
D anch-pgr	D font-cid
D anch-snc	D font-col
D back-exp	D font-con
D back-exp-imp-fnt	D font-ctx
D back-exp-imp-mth	D font-def
D back-exp-imp-ref	D font-dsp
D back-exp-imp-tag	D font-enc
D back-imp-lua	D font-enh
D back-imp-mps	D font-fbk
D back-imp-pdf	D font-fmp
D back-imp-pdp	D font-hsh
D back-inc	D font-imp-checks
D blob-ini	D font-imp-combining
D buff-imp-default	D font-imp-compound
D buff-imp-escaped	D font-imp-digits
D buff-imp-lua	D font-imp-dimensions
D buff-imp-mp	D font-imp-effects
D buff-imp-nested	D font-imp-italics
D buff-imp-parsed-xml	D font-imp-ligatures
D buff-imp-tex	D font-imp-math
D buff-imp-xml	D font-imp-notused
D buff-ini	D font-imp-properties
D buff-par	D font-imp-quality
D buff-ver	D font-imp-reorder
D char-enc	D font-imp-scripts
D chem-ini	D font-imp-spacekerns
D chem-str	D font-imp-tex

D font-imp-text	D good-ini
D font-imp-tracing	D good-mth
D font-imp-tweaks	D grph-bmp
D font-imp-unicode	D grph-con
D font-ini	D grph-epd
D font-lig	D grph-fil
D font-log	D grph-img
D font-lua	D grph-inc
D font-map	D grph-pat
D font-mpf	D grph-raw
D font-mps	D grph-rul
D font-nod	D grph-trf
D font-ogr	D grph-u3d
D font-one	D java-ini
D font-onr	D lang-cnt
D font-osd	D lang-def
D font-ota	D lang-dis
D font-otc	D lang-exc
D font-otd	D lang-hup
D font-oth	D lang-hyp
D font-oti	D lang-ini
D font-otj	D lang-lab
D font-otl	D lang-rep
D font-oto	D lang-tra
D font-otr	D lang-txt
D font-ots	D lang-url
D font-ott	D lang-wrd
D font-oup	D libs-imp-curl
D font-pat	D libs-imp-ghostscript
D font-prv	D libs-imp-graphicsmagick
D font-san	D libs-ini
D font-sel	D lpdf-ano
D font-shp	D lpdf-col
D font-sol	D lpdf-epa
D font-syn	D lpdf-epd
D font-tfm	D lpdf-fix
D font-tpk	D lpdf-fix-imp-contents
D font-trt	D lpdf-fix-imp-fonts
D font-ttf	D lpdf-fld
D font-txt	D lpdf-fmt
D font-vfc	D lpdf-grp
D font-vir	D lpdf-img
D good-ctx	D lpdf-ini
D good-gen	D lpdf-lmt

D lpdf-mis	D mlib-int
D lpdf-ren	D mlib-lmp
D lpdf-rul	D mlib-lmt
D lpdf-sig	D mlib-lua
D lpdf-tag	D mlib-mat
D lpdf-u3d	D mlib-mpf
D lpdf-wid	D mlib-msh
D lpdf-xmp	D mlib-pdf
D lxml-css	D mlib-pos
D lxml-dir	D mlib-pps
D lxml-ent	D mlib-ptr
D lxml-ini	D mlib-ran
D lxml-mms	D mlib-run
D lxml-sor	D mlib-scn
D lxml-tex	D mlib-snc
D math-act	D mlib-svg
D math-ali	D node-ali
D math-dim	D node-bck
D math-ext	D node-fnt
D math-fbk	D node-par
D math-fnt	D node-ref
D math-frc	D node-rul
D math-ini	D node-tra
D math-map	D node-tyt
D math-mps	D pack-obj
D math-noa	D pack-ori
D math-pre	D pack-rul
D math-rad	D page-blk
D math-ren	D page-cst
D math-spa	D page-flt
D math-tag	D page-ini
D math-txt	D page-inj
D math-vfu	D page-ins
D meta-blb	D page-lin
D meta-fnt	D page-mix
D meta-fun	D page-otr
D meta-imp-txt	D page-pst
D meta-ini	D page-sel
D meta-lua	D page-str
D meta-nod	D phys-dim
D meta-pdf	D publ-aut
D meta-tex	D publ-dat
D mlib-ctx	D publ-fnd
D mlib-fio	D publ-inc

D publ-ini	D strc-num
D publ-jrn	D strc-pag
D publ-oth	D strc-ref
D publ-reg	D strc-reg
D publ-sor	D strc-rsc
D publ-tra	D strc-syn
D publ-usr	D strc-tag
D regi-ini	D strc-usr
D scrn-but	D symb-emj
D scrn-fld	D symb-ini
D scrn-hlp	D syst-cmp
D scrn-ini	D tabl-ali
D scrn-pag	D tabl-ntb
D scrn-ref	D tabl-tbl
D scrn-wid	D tabl-xtb
D scrp-cjk	D task-ini
D scrp-eth	D trac-blđ
D scrp-ini	D trac-jus
D scrp-tha	D trac-par
D scrp-tib	D trac-riv
D sort-ini	D trac-sig
D sort-lan	D trac-vis
D spac-ali	D type-ini
D spac-brk	D typo-adj
D spac-chr	D typo-blđ
D spac-hor	D typo-brk
D spac-ovl	D typo-cap
D spac-par	D typo-chr
D spac-pas	D typo-cln
D spac-prf	D typo-dha
D spac-twi	D typo-dif
D spac-ver	D typo-dig
D strc-bkm	D typo-dir
D strc-blk	D typo-drp
D strc-con	D typo-duc
D strc-doc	D typo-fkr
D strc-flt	D typo-fln
D strc-ini	D typo-hid
D strc-itm	D typo-inj
D strc-lev	D typo-itc
D strc-lst	D typo-krn
D strc-mar	D typo-lan
D strc-mat	D typo-lbx
D strc-not	D typo-man

D typo-mar	F bytemap_load_from_file
D typo-ovl	F cleaned
D typo-pag	F color
D typo-par	F dataset
D typo-pnc	T datasets
D typo-prc	F load
D typo-rep	F direct
D typo-rub	F downgradebytemap
D typo-spa	F downsamplebytemap
D typo-stc	F draw
D typo-sus	F expandtex
D typo-syn	F fill
D typo-tal	F fillbytemap
D typo-wrp	F flatten
D unic-ini	F flush
T mp	F format
F autoinject	F formatted
T aux	F fprint
F boolean	T get
F color	F hashentry
F direct	F getbytemap
F draw	F getbytemapdata
F fill	F getbytemapdirect
F flush	F getlastadddtype
F fprint	F graphformat
F integer	T inject
F number	F boolean
F numeric	F cmykcolor
F pair	F color
F pairpoints	F integer
F path	F number
F pathpoints	F numeric
F points	F pair
F print	F path
F quadruple	F pt
F quadruplepoints	F quadruplet
F quoted	F string
F size	F transform
F string	F triplet
F transform	F vector
F triplet	F vectors
F tripletpoints	F whatever
F vprint	F whd
F boolean	F xy

F integer	F mf_map_text
F lmt_function_x	F mf_named_color
F lmt_glyphshape_accent	F mf_outline_text
F lmt_glyphshape_baseline	F mf_save_data
F lmt_glyphshape_boundingbox	F mf_script_index
F lmt_glyphshape_depth	F mf_start_saving_data
F lmt_glyphshape_height	F mf_stop_saving_data
F lmt_glyphshape_italic	F mode
F lmt_glyphshape_llx	F n
F lmt_glyphshape_n	F newbytemap
F lmt_glyphshape_path	F number
F lmt_glyphshape_start	F numeric
F lmt_glyphshape_stop	F pair
F lmt_glyphshape_usedbox	F pairpoints
F lmt_glyphshape_usedline	F path
F lmt_glyphshape_width	F pathpoints
F lmt_mesh_set	F points
F lmt_mesh_update	F processbytemap
F lmt_poisson_generate	F processingmode
F lmt_start_potrace	F quadruple
F lmt_step_potrace	F quadruplepoints
F lmt_stop_potrace	F quoted
F lmt_svg_include	F report
F loadbytemap	T scan
F loadbytemapfile	F boolean
F mesh_register	F cmykcolor
F mf_blob_add	F color
F mf_blob_dimensions	F expression
F mf_blob_index	F integer
F mf_blob_new	F next
F mf_blob_raw_content	F number
F mf_blob_raw_dimensions	F numeric
F mf_blob_raw_reset	F pair
F mf_blob_raw_toutf	F path
F mf_blob_raw_wipe	F pen
F mf_blob_size	F property
F mf_blob_width	F string
F mf_external_figure	F symbol
F mf_finish_saving_data	F token
F mf_formatted_text	T tokenscanners
F mf_get_outline_text	F transform
F mf_graphic_text	T typescanners
F mf_inject_blob	F whatever
F mf_map_move	T set

F setbytemap	F getresultstates
F setbytemapoctave	F getscaledbits
F size	F getscantypes
T skip	F getstates
F token	F getstatistics
F solve	F getstatus
F string	F gettolerance
F systemmode	F gettype
F transform	F gettypes
F triplet	F injectboolean
F tripletpoints	F injectcmykcolor
F vprint	F injectcolor
T mplib	F injectinteger
F downgradebytemap	F injectnumber
F downsamplebytemap	F injectnumeric
F execute	F injectpair
F expandtex	F injectpath
F fillbytemap	F injectstring
F finder	F injecttransform
T finders	F injectvector
F file	F injectvectors
F mpstemplate	F injectwhatever
F finish	F new
F getbytemap	F newbytemap
F getbytemapdata	F peninfo
F getbytemapdirect	F processbytemap
F getcallbackstate	T propertycodes
F getcodes	B realtime logging
F getcolormodels	F scanboolean
F getfields	F scancmykcolor
F gethashentries	F scancolor
F gethashentry	F scanexpression
F getinternalactions	F scaninteger
F getknotstates	F scannext
F getlastaddtype	F scannumber
F getlogtargets	F scannumeric
F getobjectdata	F scanpair
F getobjectpeninfo	F scanpath
F getobjectstacking	F scanpen
F getobjecttypes	F scanproperty
F getprimitivelegacies	F scanstring
F getprimitiveorigins	F scansymbol
F getprimitives	F scantoken
F getpruneoptions	F scantransform

F setbytemap	F processouter
F setbytemapoctave	T node
F settolerance	F checkdiscretionaries
F showcontext	F checkdiscretionary
F skiptoken	F copy
F solvepath	F copylist
F version	F count
T nanojpeg	F currentattributes
F decode	F dimensions
F next	T direct
T noads	F addmargins
F getmathmode	F addxoffset
T handlers	F addxymargins
F alternates	F addyoffset
F autofences	F appendaftertail
F classes	F appendcurrenttail
F collapse	F beginofmath
F dictionaries	F checkdiscretionaries
F export	F checkdiscretionary
F families	F collapsing
F fencing	F copy
F intervals	F copylist
F kernpairs	F copyonly
F makeup	F count
F normalize	F currentattributes
F numbers	F dimensions
F relocate	F effectiveglue
F render	F endofmath
F showtree	F exchange
F snap	F fields
F spacing	F findattribute
F suspicious	F findattributerange
F tags	F findnode
F unscript	F firstchar
F unstack	F firstglyph
F variants	F firstglyphnode
F process	F firstitalicglyph
F processnested	F flattendiscretionaries
T processors	F flattenleaders
T dictionaries	F flushlist
T intervals	F flushnode
T suspicious	F free
T unscript	F freeze
T unstack	F getanchors

F getattribute	F getkerndimension
F getattributelist	F getlanguage
F getattributes	F getleader
F getboth	F getleftdelimiter
F getbottom	F getlist
F getbottomdelimiter	F getlistdimensions
F getbox	F getlocalparboxstate
F getcachestate	F getmvl
F getchar	F getnaturalwhd
F getchardict	F getnext
F getcharspec	F getnodeerrorvalues
F getchoice	F getnodes
F getclass	F getnormalizedline
F getcontinuation	F getnucleus
F getcontrol	F getnumerator
F getcornerkerns	F getoffsets
F getcurrenttail	F getoptions
F getdata	F getorientation
F getdegree	F getparstate
F getdelimiter	F getpenalty
F getdenominator	F getpost
F getdepth	F getpre
F getdirection	F getprev
F getdisc	F getprime
F getdiscpart	F getpropertystable
F getexcept	F getproperty
F getexpansion	F getreplace
F getfam	F getrightdelimiter
F getfield	F getruledimensions
F getfielderror	F getscale
F getfirstdirectioninlist	F getscales
F getfont	F getscript
F getfontcheck	F getscripts
F getgeometry	F getshift
F getglue	F getshort
F getglyphdata	F getslant
F getglyphdimensions	F getspeciallist
F getheight	F getstate
F getid	F getsub
F getidsubtype	F getsubpre
F getidsubtypenext	F getsubtype
F getindex	F getsup
F getinputfields	F getsuppre
F getkern	F gettop

F gettopdelimiter	F isprevchar
F gettotal	F isprevcharcheck
F getusage	F isprevglyph
F getusedattributes	F issimilarglyph
F getweight	F issnapped
F getwhd	F isspeciallist
F getwidth	F isvalid
F getwordrange	F iszeroglue
F getxscale	F kerning
F getxyscales	F lastnode
F getscale	F length
F gluetostring	F ligaturing
F hasattribute	F makeextensible
F hasdimensions	F markglyphprocessing
F hasdiscoption	F migrate
F hasfield	F mlisttohtml
F hasgeometry	F naturalhsize
F hasglyph	F naturalwidth
F hasglyphoption	F new
F hasidsubtype	F newcontinuationatom
F hasoptions	F newfontcheck
F hasusage	F newmathglyph
F hpack	F newtextglyph
F hyphenating	F patchattributes
F id	F patchparshape
F ignoremathskip	F prependbeforehead
F insertafter	F prependcurrenttail
F insertbefore	F protectglyph
F insertcurrenthead	F protectglyphs
F isboth	F protectglyphsbase
F ischar	F protectglyphsnone
F ischarcheck	F protrusionskipable
F ischardisc	F rangedimensions
F isdirect	F remove
F isfontcheck	F removefromlist
F isglyph	F repack
F isitalicglyph	F reverse
F isloop	F samefontcheck
F isnext	F serialized
F isnextchar	F setanchors
F isnextcharcheck	F setattribute
F isnextglyph	F setattributelist
F isnode	F setattributes
F isprev	F setattributesinlist

F setboth	F setpenalty
F setbottom	F setpost
F setbottomdelimiter	F setpre
F setbox	F setprev
F setchar	F setprime
F setchardict	F setproperty
F setchoice	F setreplace
F setclass	F setrightdelimiter
F setcontinuation	F setruledimensions
F setcontrol	F setscale
F setcurrenttail	F setscales
F setdata	F setscript
F setdegree	F setscripts
F setdelimiter	F setshift
F setdenominator	F setslant
F setdepth	F setsnapped
F setdirection	F setspeciallist
F setdisc	F setsplit
F setdiscpart	F setstate
F setexcept	F setsub
F setexpansion	F setsubpre
F setfam	F setsubtype
F setfield	F setsup
F setfielderror	F setsuppre
F setfont	F settop
F setfontcheck	F settopdelimiter
F setgeometry	F settotal
F setglue	F setweight
F setglyphdata	F setwhd
F setheight	F setwidth
F setindex	F show
F setinputfields	F size
F setkern	F slide
F setlanguage	F softenhypens
F setleader	F startofpar
F setleftdelimiter	F subtypes
F setlink	F tail
F setlist	F todirect
F setnext	F tonode
F setnucleus	F toString
F setnumerator	F tovalldirect
F setoffsets	F traverse
F setoptions	F traversechar
F setorientation	F traversecontent

F traverseglyph	F hasglyph
F traverseid	F hpack
F traverseitalic	F hyphenating
F traverseleader	F id
F traverselist	F insertafter
F traversepossible	F insertbefore
F type	F instock
F types	F intracking
F unprotectglyph	F inuse
F unprotectglyphs	F isnode
F unsetattribute	F iszeroglu
F unsetattributes	F kerning
F updatefirstandbotmark	F lastnode
F updatefirstmarks	F length
F updatemarks	F ligaturing
F updatetopmarks	F makeextensible
F usedlist	F mliststohlist
F usesfont	F new
F vbalance	F protectglyph
F verticalbreak	F protectglyphs
F vpack	F protrusionskippable
F write	F rangedimensions
F xscaled	F remove
F yscaled	F serialized
F effectiveglue	F setattribute
F endofmath	F setfield
F family_font	F setfielderror
F fields	F setglue
F findattribute	F setproperty
F flattendiscretionaries	F show
F flushlist	F size
F flushnode	F slide
F free	F subtypes
F getattribute	F tail
F getcachestate	F todirect
F getfield	F tonode
F getfielderror	F toString
F getglue	F traverse
F getnodeerrorvalues	F traverseid
F getpropertiestable	F type
F getproperty	F types
F gluetostring	F unprotectglyph
F hasattribute	F unprotectglyphs
F hasfield	F unsetattribute

F usedlist	D directioncodes
F usesfont	D directionvalues
F vpack	D dirvalues
F write	D disccodes
T nodes	D discretionarycodes
D accentcodes	D fencecodes
T adaptive	F fields
F handlehorizontal	T fieldtypes
F handlevertical	D fillcodes
T methods	D fillvalues
F set	F firstdirinbox
F aligned	F flush
F append	F flushlist
F apply	F flushnode
F applyvisuals	D fractioncodes
F astable	F fullhpack
F basepoints	F getattr
D boundarycodes	F getattribute
T boxes	F getboth
F count	F getbox
F dimensions	F getchar
F direct	F getfield
F dispose	F getfont
F found	F getid
F prune	F getleader
F reset	F getlist
F restore	F getnext
F save	F getprev
F savenode	F getproperty
T builders	F getsubtype
D choicecodes	D gluecodes
F concat	D glyphcodes
F copy	T handlers
F copy_node	F adjusters
F copyleft	F aligncharacter
F countall	F backgrounds
F currentattributes	F backgroundspage
F delete	F backgroundsvbox
T destinations	F characters
N attribute	F checkglyphs
T done	F checkparcounter
F handler	F cleanupbox
T stack	F cleanuppape
D dircodes	F export

F finalizebox	F insertbefore
F finalizelist	F insertlistafter
F flatten	F installattributehandler
F flattenline	F is_display_math
T linebreakchecks	F isdirect
F mathalignrelocate	F isnode
F mathmatrixornaments	F isnut
F mathmatrixrules	D kerncodes
F migrate	F leftmarginwidth
F protectglyphs	T linefillers
F recolor	F filler
F show	F handler
F showhyphenation	F set
F showpreamble	T lines
F stripping	T boxed
F tabulateskip	F addlinenumbers
F textbackgrounds	F register
F unprotectglyphs	F setup
F visualizehyphenation	D data
F wipe	F finalize
F hasattribute	F number
F hasfield	F link
F hpack	F linked
F idsandsubtypes	F list
F idstostring	D listcodes
T injections	F listtoutf
F copy	D literalvalues
F getligaindex	F locate
F getthreshold	D markcodes
F handler	T markers
F installgetspaceboth	F get
F installnewkern	F set
F isspace	D mathcodes
F keepcounts	D mathvalues
F reset	F maxboxwidth
F resetcounts	T migrations
F setcursive	F setinserts
F setkern	F setmarks
F setligaindex	F new
F setmark	D noadcodes
F setmove	D nodecodes
F setposition	F nopts
F setspacekerns	T nuts
F insertafter	F addmargins

F addxoffset	F flattendiscretionaries
F addxymargins	F flattenleaders
F addyoffset	F flush
F append	F flushlist
F appendaftertail	F flushnode
F apply	F free
F applyvisuals	F freeze
F beginofmath	F fullhpack
F checkdiscretionaries	F fullhpackrl
F checkdiscretionary	F getanchors
F checkslide	F getattr
F collapsing	F getattribute
T colors	F getattributelist
F set	F getattributes
T components	F getattrlist
F copynocomponents	F getattrts
F copyonlyglyphs	F getboth
F count	F getbottom
F flush	F getbottomdelimiter
F get	F getbox
F set	F getboxglue
F concat	F getchar
F copy	F getchardict
F copy_properties	F getcharspec
F copyleft	F getchoice
F copynode	F getclass
F copyonly	F getcomponents
F copyvisual	F getcontinuation
F count	F getcontrol
F countall	F getcornerkerns
F currentattributes	F getdata
F delete	F getdegree
F dimensions	F getdelimiter
F dirdimensions	F getdenominator
F effectiveglue	F getdepth
F endofmath	F getdirection
F exchange	F getdisc
F findattribute	F getdiscpart
F findattributerange	F getdiscretionary
F findnode	F getexcept
F firstchar	F getexpansion
F firstglyph	F getfam
F firstglyphnode	F getfield
F firstitalicglyph	F getfirstdirectioninlist

F getfont	F getscales
F getfontcheck	F getscript
F getgeometry	F getscripts
F getglue	F getshift
F getglyphdata	F getshort
F getglyphdimensions	F getslant
F getheight	F getspeciallist
F getid	F getstate
F getidsubtype	F getsub
F getidsubtypenext	F getsubpre
F getindex	F getsubtype
F getinputfields	F getsup
F getkern	F getsuppre
F getkerndimension	F getsurround
F getlang	F gettop
F getlanguage	F gettopdelimiter
F getleader	F gettotal
F getleftdelimiter	F getusedattributes
F getlist	F getvalue
F getlistdimensions	F getweight
F getlocalparboxstate	F getwhd
F getmiddle	F getwidth
F getmiddledelimiter	F getwordrange
F getmvlldlist	F getxscale
F getnaturalwhd	F getxyscales
F getnext	F getsyscale
F getnormalizedline	F gluetostring
F getnucleus	F hasattribute
F getnumerator	F hasdimensions
F getoffsets	F hasdiscoption
F getoptions	F hasfield
F getorientation	F hasgeometry
F getparstate	F hasglyph
F getpenalty	F hasglyphoption
F getpost	F hasidsubtype
F getpre	F hasoptions
F getprev	F hpack
F getprime	F hyphenating
F getprop	F ignoremathskip
F getreplace	F insertafter
F getrightdelimiter	F insertbefore
F getruledata	F insertlistafter
F getruledimensions	F is_display_math
F getscale	F isboth

F ischar	F characterkern
F ischarcheck	F choice
F isdirect	F cleanup
F isdone	F delim
F isglyph	F delimiter
F isitalicglyph	F direction
F isnext	F directliteral
F isnextchar	F disc
F isnextcharcheck	F discretionaryglue
F isnextglyph	F emptyrule
F isnode	F fence
F isnut	F fontkern
F isprev	F fraction
F isprevchar	F glue
F isprevcharcheck	F gluespec
F isprevglyph	F glyph
F issimilarglyph	F hlist
F issnapped	F imagerule
F iszeroglue	F indentskip
F kerning	F intercharacterglue
F lastnode	F italiccorrection
F length	F italic kern
F ligaturing	F kern
F link	F latelua
F linked	F leader
F locate	F lefthangskip
F migrate	F leftmargin kern
F migratebox	F leftskip
F mlisttohlist	F lineskip
F naturalhsize	F literal
F naturalwidth	F luaboundary
F nestedtracedslide	F mathchar
F new	F mathtextchar
F newcontinuationatom	F negatedglue
F newfontcheck	F noad
F newmathglyph	F originliteral
F openup	F outlinerule
F patchattributes	F pageliteral
F patchparshape	F penalizedglue
T pool	F penalizedspace
F accent	F penalty
F baselineskip	F radical
F boundary	F rawliteral
F boxrule	F register

F restore	F removefromlist
F righthangskip	F repack
F rightmarginkern	F repackhlist
F rightskip	F replace
F rule	F reverse
F save	T rules
F savepos	T ruleactions
F setmatrix	F box
F setstate	F draw
F shrink	F fill
F spacefontkern	F mp
F spacingrule	F stroke
F startrotation	F userrule
F startscaling	F serialized
F stock	F setanchors
F stoprotation	F setattr
F stopscaling	F setattribute
F stretch	F setattributelist
F strutrue	F setattributes
F subbox	F setattributesinlist
F submlist	F setattrlist
F temp	F setattrs
F usage	F setattrsinlist
F userdefined	F setboth
T userids	F setbottom
F usernode	F setbox
F userrule	F setboxglue
F virtualrule	F setchar
F vlist	F setchardict
F wordboundary	F setchoice
F prepend	F setclass
F prependbeforehead	F setcomponents
F processranges	F setcontinuation
F processwords	F setcontrol
F protectglyph	F setdata
F protectglyphs	F setdegree
F protectglyphsbase	F setdelimiter
F protectglyphsnone	F setdenominator
F protrusionskippable	F setdepth
F rangedimensions	F setdirection
F rawprop	F setdisc
F reference	F setdiscpart
F rehpack	F setdiscretionary
F remove	F setexcept

F setexpansion	F setstate
F setfam	F setsub
F setfield	F setsubpre
F setfont	F setsubtype
F setfontcheck	F setsup
F setgeometry	F setsuppre
F setglue	F setsurround
F setglyphdata	F settop
F setheight	F setvalue
F setinputfields	F setvisual
F setkern	F setvisuals
F setlang	F setweight
F setlanguage	F setwhd
F setleader	F setwidth
F setleftdelimiter	F show
F setlink	F slide
F setlist	F softenhyphens
F setmiddledelimiter	F somepenalty
F setnext	F somespace
F setnucleus	F splitbox
F setnumerator	F startofpar
F setoffsets	F striprange
F setoptions	F tail
F setorientation	F takeattr
F setparproperty	F takebox
F setpenalty	F takelist
F setpost	F theprop
F setpre	F tonode
F setprev	F tonodes
F setprime	F tonut
F setprop	F tosequence
F setreplace	F tostring
F setrightdelimiter	F tracedslide
F setruledata	F traverse
F setruledimensions	F traversechar
F setscale	F traversecontent
F setscales	F traverseglyph
F setscript	F traverseid
F setscripts	F traverseitalic
F setshift	F traverseleader
F setslant	F traverselist
F setsnapped	F traversepossible
F setspeciallist	T traversers
F setsplit	F alignrecord

F boundary	F verticalbreak
F char	F vianodes
F content	F vianuts
F dir	F vpack
F disc	F write
F glue	F xscaled
F glyph	F yscaled
F hlist	F packlist
F leader	D parcodes
F list	D penaltycodes
F mark	T plugindata
F next	F finalizer
F node	F initializer
F penalty	S name
F possible	F processor
F rule	F points
F unset	T pool
F vlist	F baselineskip
F whatsit	F cleanup
T treversers	F directliteral
F char	F glyph
F content	F hlist
F glyph	F latelua
F leader	F leader
F list	F lineskip
F node	F literal
F possible	F originliteral
T typesetters	F register
F tohbox	F restore
F tohpack	F save
F tonodes	F savepos
F tovbox	F setmatrix
F tovpack	F stock
F unprotectglyph	F usage
F unprotectglyphs	F usernode
F unsetattribute	F vlist
F unsetattributes	F prepend
F untracedslide	F print
F updatefirstandbotmark	T processors
F updatefirstmarks	F trace_glyph_run_a
F updatemarks	F trace_glyph_run_b
F updatetopmarks	T properties
F usedlist	T data
F usesfont	F pts

D radicalcodes	F showsimplelist
T references	D skipcodes
N attribute	T snapshots
T done	F getsamples
F handler	F resetsamples
T stack	F takesample
F reheap	F somepenalty
F remove	F somespace
F repackhlist	T specialskipcodes
F replace	F splitbox
F report	F startofpar
F rightmarginwidth	F stripdiscretionaries
D rulecodes	T stripping
T rules	T glyphs
F handler	F set
F process	D subtypes
F set	F tail
F userrule	F takeattr
F serialize	F takebox
F serializebox	T tasks
F serialized	F actions
F setattr	F appendaction
F setattribute	F disableaction
F setattrlist	F disablegroup
F setboth	F enableaction
F setbox	F enablegroup
F setboxtonaturalwd	F freeze
F setchar	F freezegroup
F setfield	F new
F setfont	F prependaction
F setleader	F removeaction
F setlink	F replaceaction
F setlist	F restart
F setnext	F setaction
F setprev	F showactions
F setproperty	F table
T shadows	F tobasepoints
F handler	F tocentimeters
F set	F tociceros
T shifts	F todidots
F handler	F todimen
F set	F toinches
F showboxes	F tomillimeters
F showlist	F tonode

F tonodes	F reset
F tonut	F set
F topicas	F setlist
F topoints	F traverse
F toscaledpoints	F traverseid
F tosequence	T typesetters
F tostring	F hbox
F totable	F hpack
F totree	F tohbox
F toutf	F tohpack
T tracers	F tonodes
T colors	F tovbox
F reset	F tovpack
F set	F vpack
F setlist	F unsetattribute
F directions	F upcomingproperties
F fontchar	F usedlist
T frequencies	F vianodes
F register	F vianuts
T pool	F visualizebox
T nodes	T visualizers
F rule	F attribute
T nuts	T attributes
F rule	F box
F resetproperties	F definelayer
F rule	F enable
F setlist	T filters
F setproperties	N cglue
F start	N ckern
T steppers	N continuation
F check	N hglue
F codes	N hkern
F features	N hpenalty
F font	N pglue
F glyphs	N sglue
F message	N short
F messages	N toddler
F nofsteps	N vglue
F register	N vkern
F reset	N vpenalty
F start	F getusedfont
F stop	F handler
F stop	F markfonts
T transparencies	T modes

N boundary	F registercache
N cglue	F setfont
N ckern	F setlayer
N depth	F setruledglyph
N dir	F setvisual
N discretionary	F vpack
N expansion	D whatsitcodes
N fontkern	F write
N glue	T number
N glyph	F %
N hbox	F basepoints
N hglue	F bytetodecimal
N hkern	F compactfloat
N hpenalty	F decimaltobyte
N insert	D dimenfactors
N italic	F formatted
N kern	F formattedfloat
N line	F formattedinteger
N marginkern	F fractiontobyte
N mark	F idiv
N math	N maxdimen
N mathglue	F nopts
N mathkern	F nubasepoints
N origin	F nupoints
N par	F percent
N penalty	F points
N pglue	F pts
N sglue	F signed
N short	F sparseexponent
N simple	F splitdimen
N simplehbox	F tol6dot16
N simplevbox	F tobasepoints
N simplevtop	F tobitstring
N space	F tocentimeters
N strut	F tociceros
N toddler	F tocontext
N user	F todidots
N vbox	F todimen
N vglue	F toediths
N vkern	F toevenhex
N vpenalty	F toinches
N vtop	F tomillimeters
N whatsit	F tonumberf
F register	F tonumberg

F topicas	F execute
F topoints	F initialize
F toscaled	T kpse
F toscaledpoints	F expand_braces
F totoves	F expand_path
F valid	F expand_var
T objects	F find_file
T data	F find_files
F dimensions	F get_file_types
F found	F initialize
N n	F readable_file
F page	F set_program_name
F reference	F var_value
F register	T library
F restore	F load
T optional	T loaded
T curl	T lz4
F escape	F compress
F fetch	F decompresssize
F getversion	F framecompress
F initialize	F framedecompress
F unescape	F initialize
T foreign	T lzma
F abivalues	F compress
F getbuffer	F decompress
F initialize	F initialize
F load	T lzo
F newbuffer	F compress
F totable	F decompresssize
F types	F initialize
T ghostscript	T mujs
F execute	F dofile
F initialize	F execute
T graphicsmagick	F initialize
F execute	F reset
F getnoisetypes	F setclosefile
F initialize	F setconsole
T hb	F setfindfile
F getshapers	F setopenfile
F getversion	F setreadfile
F initialize	F setseekfile
F loadfont	T mysql
F shapestring	F close
T imagemagick	F execute

F getmessage	F getenv
F initialize	F getnamevalues
F open	F gettimeofday
T openssl	F gettypevalues
F getversion	F getunamefields
F initialize	F isleapyear
F sign	F launch
F verify	S libsuffix
T postgres	F localtime
F close	S name
F execute	S newline
F getmessage	F nofdays
F initialize	F now
F open	F pipeto
T sqlite	S platform
F close	F remove
F execute	F rename
F getmessage	F resultof
F initialize	F runtime
F open	T selfarg
T zint	S selfbin
F execute	S selfcore
F initialize	S selfdir
T zstd	S selflink
F compress	S selfname
F decompress	S selfpath
F initialize	F serialwrite
F optionalrequire	F setenv
T os	F setexitcode
F __getenv__	F setlocale
F __setenv__	F sleep
S binsuffix	F startuptime
T binsuffixes	F time
N bits	F timezone
F clock	F tmpname
F converttime	F today
F date	S type
F difftime	F uname
F enableansi	F uuid
D env	F validddate
F execute	F weekday
F exit	F where
F fulltime	F which
F getcodepage	T package

S config	B back-exp-imp-mth
S cpath	B back-exp-imp-ref
F extralibpath	B back-exp-imp-tag
F extralibpaths	B back-imp-lua
F extraluaopath	B back-imp-mps
F extraluaopaths	B back-imp-pdf
T helpers	B back-imp-pdp
T builtin	B back-inc
F path specification	B blob-ini
F preload table	B buff-imp-default
F cleanpath	B buff-imp-escaped
F loaded	B buff-imp-lua
F loadedaslib	B buff-imp-mp
F loadedbyformat	B buff-imp-nested
F loadedbyname	B buff-imp-parsed-xml
F loadedbypath	B buff-imp-tex
F lualibfile	B buff-imp-xml
T methods	B buff-ini
F all in one fallback	B buff-par
F already loaded	B buff-ver
F cpath specification	B char-enc
F lib extra list	B chem-ini
F lib variable format	B chem-str
F lua extra list	B cldf-com
F lua variable format	B cldf-ver
F not loaded	B colo-icc
F path specification	B colo-ini
F preload table	B cont-run
F qualified path	B core-con
F reset loaded	B core-ctx
F registerpath	B core-dat
F report	B core-sys
T sequence	T curl
F showused	F escape
B trace	F fetch
B traceused	F getversion
F unload	S libfile
F libpaths	S libpath
T loaded	F unescape
B anch-loc	B driv-shp
B anch-pgr	B file-mod
B anch-snc	B file-syn
B back-exp	B font-afk
B back-exp-imp-fnt	B font-agl

B font-aux	B font-onr
B font-cff	B font-osd
B font-chk	B font-ota
B font-cid	B font-otc
B font-col	B font-otd
B font-con	B font-oth
B font-ctx	B font-oti
B font-def	B font-otj
B font-dsp	B font-otl
B font-enc	B font-oto
B font-enh	B font-otr
B font-fbk	B font-ots
B font-fmp	B font-ott
B font-hsh	B font-oup
B font-imp-checks	B font-pat
B font-imp-combining	B font-prv
B font-imp-compound	B font-san
B font-imp-digits	B font-sel
B font-imp-dimensions	B font-shp
B font-imp-effects	B font-sol
B font-imp-italics	B font-syn
B font-imp-ligatures	B font-tfm
B font-imp-math	B font-tpk
B font-imp-notused	B font-trt
B font-imp-properties	B font-ttf
B font-imp-quality	B font-txt
B font-imp-reorder	B font-vfc
B font-imp-scripts	B font-vir
B font-imp-spacekerns	B good-ctx
B font-imp-tex	B good-gen
B font-imp-text	B good-ini
B font-imp-tracing	B good-mth
B font-imp-tweaks	B grph-bmp
B font-imp-unicode	B grph-con
B font-ini	B grph-epd
B font-lig	B grph-fil
B font-log	B grph-img
B font-lua	B grph-inc
B font-map	B grph-pat
B font-mpf	B grph-raw
B font-mps	B grph-rul
B font-nod	B grph-trf
B font-ogr	B grph-u3d
B font-one	B java-ini

T json	T filter
F load	F chain
F tojson	F cycle
F tolua	T pump
F toString	F all
B lang-cnt	F step
B lang-def	F report
B lang-dis	T sink
B lang-hup	F chain
B lang-hyp	F error
B lang-ini	F file
B lang-lab	F null
B lang-rep	F simplify
B lang-tra	F table
B lang-txt	T source
B lang-url	F cat
B lang-wrd	F chain
B libs-imp-curl	F empty
B libs-imp-ghostscript	F error
B libs-imp-graphicsmagick	F file
B libs-ini	F rewind
B lpdf-ano	F simplify
B lpdf-col	F string
B lpdf-epa	B lxml-css
B lpdf-epd	B lxml-dir
B lpdf-fix	B lxml-ent
B lpdf-fix-imp-contents	B lxml-ini
B lpdf-fix-imp-fonts	B lxml-mms
B lpdf-fld	B lxml-sor
B lpdf-fmt	B lxml-tex
B lpdf-grp	B math-act
B lpdf-img	B math-ali
B lpdf-ini	B math-dim
B lpdf-lmt	B math-ext
B lpdf-mis	B math-fbk
B lpdf-ren	B math-fnt
B lpdf-rul	B math-frc
B lpdf-sig	B math-ini
B lpdf-tag	B math-map
B lpdf-u3d	B math-mps
B lpdf-wid	B math-noa
B lpdf-xmp	B math-pre
T ltn12	B math-rad
N BLOCKSIZE	B math-ren

B math-spa	B page-flt
B math-tag	B page-ini
B math-txt	B page-inj
B math-vfu	B page-ins
B meta-blb	B page-lin
B meta-fnt	B page-mix
B meta-fun	B page-otr
B meta-imp-txt	B page-pst
B meta-ini	B page-sel
B meta-lua	B page-str
B meta-nod	T pdfdecode
B meta-pdf	T pdfe
B meta-tex	F arraytotable
B mlib-ctx	F close
B mlib-fio	F closestream
B mlib-int	F dictionarytotable
B mlib-lmp	F getarray
B mlib-lmt	F getboolean
B mlib-lua	F getbox
B mlib-mat	F getcatalog
B mlib-mpf	F getdictionary
B mlib-msh	F getencodingvalues
B mlib-pdf	F getfieldtypes
B mlib-pos	F getfromarray
B mlib-pps	F getfromdictionary
B mlib-ptr	F getfromobject
B mlib-ran	F getfromreference
B mlib-run	F getfromstream
B mlib-scn	F getinfo
B mlib-snc	F getinteger
B mlib-svg	F getmemoryusage
B node-ali	F getname
B node-bck	F getnofobjects
B node-fnt	F getnofpages
B node-par	F getnumber
B node-ref	F getobjectrange
B node-rul	F getpage
B node-tra	F getpages
B node-typ	F getpermissions
B pack-obj	F getsize
B pack-ori	F getstatus
B pack-rul	F getstatusvalues
B page-blk	F getstream
B page-cst	F getstring

F gettrailer	F __unm
F getversion	F abs
F new	F acos
F open	F asin
F openfile	F atan
F openstream	F band
F pagestotable	F bor
F readfromstream	F bxor
F readwholestream	F ceil
F type	F conj
F unencrypt	F copy
B phys-dim	F cos
T pngdecode	F exp
F applyfilter	F exp2
F expand	F expand
F frompalette	F floor
F interlace	F frombyte
F makemask	F fromchar
F palettemask	F fromposit
F reduce	F integer
F setexperiment	F log
F splitmask	F log10
F tocmk	F log1p
F togray	F log2
F tomask	F logb
F transparentmask	F max
T posit	F min
F NaN	F modf
F NaR	F new
F __add	F pow
F __band	F rotate
F __bor	F round
F __bxor	F rounded
F __div	F shift
F __eq	F sin
F __le	F sqrt
F __lt	F tan
F __mul	F tobyte
S __name	F tochar
F __pow	F tonumber
F __shl	F toposit
F __shr	F toString
F __sub	T potrace
F __toString	F checked

F concat	T serial
F contourplot	F __gc
F convert	S __name
F count	F __tostring
F flush	F close
F free	F open
F fromfile	F send
F getbitmap	F tostring
F getnewfields	F write
F getpolicyvalues	T sha2
F getprocessfields	F HASH256
F new	F HASH384
F process	F HASH512
F setbitmap	F HEX256
F stripped	F HEX384
F totable	F HEX512
F trace	F digest256
B publ-aut	F digest384
B publ-dat	F digest512
B publ-fnd	F hash256
B publ-inc	F hash384
B publ-ini	F hash512
B publ-jrn	F hex256
B publ-oth	F hex384
B publ-reg	F hex512
B publ-sor	F sum256
B publ-tra	F sum384
B publ-usr	F sum512
T qrcodegen	T sio
F bitmap	F read2dot14
F generate	F readbytes
B regi-ini	F readbytetable
B scrn-but	F readcardinal1
B scrn-fld	F readcardinal1le
B scrn-hlp	F readcardinal2
B scrn-ini	F readcardinal2le
B scrn-pag	F readcardinal3
B scrn-ref	F readcardinal3le
B scrn-wid	F readcardinal4
B scrp-cjk	F readcardinal4le
B scrp-eth	F readcardinaltable
B scrp-ini	F readcline
B scrp-tha	F readcstring
B scrp-tib	F readdouble

F readdoublele	S accept-encoding
F readfixed2	S accept-language
F readfixed4	S accept-ranges
F readfloat	S action
F readfloatle	S age
F readfloatle12	S allow
F readfloatle6	S alternate-recipient
F readinteger1	S arrival-date
F readinteger1le	S authorization
F readinteger2	S bcc
F readinteger2le	S cache-control
F readinteger3	S cc
F readinteger3le	S comments
F readinteger4	S connection
F readinteger4le	S content-description
F readintegertable	S content-disposition
F tocardinal1	S content-encoding
F tocardinal1le	S content-id
F tocardinal2	S content-language
F tocardinal2le	S content-length
F tocardinal3	S content-location
F tocardinal3le	S content-md5
F tocardinal4	S content-range
F tocardinal4le	S content-transfer-encoding
T socket	S content-type
N BLOCKSIZE	S cookie
N _SETSIZE	S date
N _SOCKETINVALID	S diagnostic-code
F bind	S dsn-gateway
F choose	S etag
F connect	S expect
F connect4	S expires
F connect6	S final-log-id
T dns	S final-recipient
F getaddrinfo	S from
F gethostname	S host
F getnameinfo	S if-match
F tohostname	S if-modified-since
F toip	S if-none-match
F gettime	S if-range
T headers	S if-unmodified-since
T canonic	S in-reply-to
S accept	S keywords
S accept-charset	S last-attempt-date

S last-modified	S x-mailer
S location	F lower
S max-forwards	F normalize
S message-id	T http
S mime-version	N TIMEOUT
S original-envelope-id	S USERAGENT
S original-recipient	F genericform
S pragma	F open
S proxy-authenticate	F request
S proxy-authorization	F newtry
S range	F protect
S received	F report
S received-from-mta	F select
S references	F sink
S referer	T sinkt
S remote-mta	F close-when-done
S reply-to	F default
S reporting-mta	F http-chunked
S resent-bcc	F keep-open
S resent-cc	F skip
S resent-date	F sleep
S resent-from	F source
S resent-message-id	T sourcet
S resent-reply-to	F by-length
S resent-sender	F default
S resent-to	F http-chunked
S retry-after	F until-closed
S return-path	F tcp
S sender	F tcp4
S server	F tcp6
S smtp-remote-recipient	T tp
S status	N TIMEOUT
S subject	F connect
S te	F try
S to	T url
S trailer	F absolute
S transfer-encoding	F build
S upgrade	F build_path
S user-agent	F escape
S vary	F parse
S via	F parse_path
S warning	F unescape
S will-retry-until	B sort-ini
S www-authenticate	B sort-lan

B spac-ali	F getparameterstate
B spac-brk	F getpoolstate
B spac-chr	F getreadstate
B spac-hor	F getsavestate
B spac-ovl	F getsparsestate
B spac-par	F getstringstate
B spac-pas	F gettexstate
B spac-prf	F gettokenstate
B spac-twi	F getwarningstate
B spac-ver	T iocodes
T sparse	F list
F concat	F resetmessages
F get	B strc-bkm
F max	B strc-blk
F min	B strc-con
F new	B strc-doc
F range	B strc-flt
F restore	B strc-ini
F set	B strc-itm
F traverse	B strc-lev
F wipe	B strc-lst
T status	B strc-mar
F getbalancestate	B strc-mat
F getbufferstate	B strc-not
F getcallbackstate	B strc-num
F getconstants	B strc-pag
F geterrorlinestate	B strc-ref
F geterrorstate	B strc-reg
F getexpandstate	B strc-rsc
F getfilestate	B strc-syn
F getfontstate	B strc-tag
F gethalferrorlinestate	B strc-usr
F gethashstate	T string
F gethyphenationstate	F autodouble
F getinputstate	F autosingle
F getinsertstate	F booleanstring
F getlanguagestate	F byte
F getlinebreakstate	F bytepairs
F getlookupstate	F bytes
F getluastate	F bytetable
F getmarkstate	F char
F getmvlstate	F characterpairs
F getneststate	F characters
F getnodestate	F checkedsplit

F chrtointeger	F splitup
F collapsespaces	F strip
F containsws	F sub
F count	F texhashed
F dectointeger	F texnewlines
F dump	F tformat
F escapedpattern	F toHEX
F escapedquotes	F toboolean
F f6	F tobytes
F find	F tocontext
F format	F todec
F formatter	F todimen
D formatters	F tohex
F fullstrip	F tonodes
F gmatch	F topattern
F gsub	F totable
T hashes	F tounicode16
T X00	F toutf
T spaces	F toutf16
F hextocharacters	F toutf32
F hextointeger	F toutf8
F is_boolean	F tracedchar
F is_empty	F unescapedquotes
F itself	F unpack
F len	F unquote
F limit	F unquoted
F linetable	F upper
F longtostring	F utf16toutf8
F lower	F utfcharacter
F match	F utfcharacters
F nospaces	F utfcharactertable
F octtointeger	F utflength
F optionalquoted	F utfpadd
F pack	F utfpadding
F packrowscolumns	F utftabletostring
F packsize	F utfvalue
F quote	F utfvalues
F quoted	F utfvaluetable
F rep	F valid
F replacelines	F wordsplitter
F reverse	B symb-emj
F split	B symb-ini
F splitintolines	B syst-cmp
F splitlines	B tabl-ali

B tabl-ntb	F sequenced
B tabl-tbl	F serialize
B tabl-xtb	F setmetatablecall
T table	F setmetatableindex
F append	F setmetatableindices
F are_equal	F setmetatablenewindex
F combine	F sort
F compact	F sorted
F concat	F sortedhash
F contains	F sortedhashkeys
F copy	F sortedhashonly
F count	F sortedindexonly
F create	F sortedkeys
F derive	F sortedpairs
F deserialize	F sparse
F fastcopy	F strip
F fastserialize	F sub
F filtered	F swapped
F flattened	F tocontext
F fromhash	F tocsv
F getn	F tofile
F has_one_entry	F tohandle
F hashed	F tohash
F identical	F toxml
F imerge	F unique
F imerged	F unpack
F insert	B task-ini
F is_empty	T tex
F is_simple_table	T amcode
F keys	T attribute
F load	F attributetracking
F loweredkeys	D automigrationcodes
F makewweak	D autoparagraphcodes
F merge	F badness
F merged	D badnessmodecodes
F mirrored	F balance
F move	D balancecallbackcodes
F pack	T boundaries
F prepend	D names
F print	D numbers
F remove	F system
F reverse	T box
F reversed	D boxcontinuationcodes
F save	D boxoptioncodes

T boxresources	D frozenparcodes
F getbox	F get
F getdimensions	F getadjustoptionvalues
F save	F getalignmentcontextvalues
F use	F getamcode
D breakcodes	F getappendadjustcontextvalues
D buildcodes	F getappendmigratecontextvalues
T catcode	F getattribute
T cccode	F getautomigrationvalues
D charactercontrolcodes	F getautoparagraphvalues
D charactertagcodes	F getbadnessmodevalues
F chardef	F getbalancecallbackvalues
D classoptioncodes	F getbalanceparameterfields
T codes	F getbalanceresultfields
D conditionals	F getbalancestepoptionvalues
D constants	F getbox
T count	F getboxcontinuationvalues
F cprint	F getboxdir
N ctdcatcodes	F getboxoptionvalues
N ctxcatcodes	F getboxresourcebox
F definefont	F getboxresourcedimensions
T delcode	F getbreakcontextvalues
T dimen	F getbuildcontextvalues
F dimensiondef	F getcardinalvalue
D directioncodes	F getcatcode
D directives	F getcccode
D discoptioncodes	F getcharactercontrolvalues
D discpartcodes	F getcharactertagvalues
F dontcomplain	F getcount
D doublescriptoptioncodes	F getcurrentmvl
F enableprimitives	F getdelayedgluelocationvalues
F error	F getdelayedgluetargetvalues
F expandasvalue	F getdelcode
D experiments	F getdelcodes
F extraprimitives	F getdimen
F fatalerror	F getdimensionvalue
D fillcodes	F getdirectionvalues
D flagcodes	F getdiscoptionvalues
F fontidentifier	F getdiscpartvalues
F fontname	F getdoublescriptoptionvalues
F forcehmode	F getemptyparagraphmodevalues
F forceinputstatefile	F geterrorrecoverymodevalues
F forceinputstateline	F geterrorvalues
F fprint	F getfillvalues

F getflagvalues	F getlinebreakstatevalues
F getfloat	F getlinedir
F getfontdimension	F getlist
F getfontoffamily	F getlistanchorvalues
F getfrozenparvalues	F getlistfields
F getglue	F getlistgeometryvalues
F getglueoptionvalues	F getlistsignvalues
F getglyphdata	F getlocalbox
F getglyphdiscvalues	F getlocalboxlocations
F getglyphoptionvalues	F getlocallevel
F getglyphprotectionvalues	F getmark
F getglyphscales	F getmarknames
F getglyphscript	F getmath
F getglyphstate	F getmathclassoptionvalues
F getgroupvalues	F getmathcode
F gethccode	F getmathcodes
F gethelptext	F getmathcontrolvalues
F gethmcodes	F getmathdir
F gethyphenationvalues	F getmathgluevalues
F getiftypes	F getmathoptionvalues
F getinputstatefile	F getmathparametervalues
F getinputstateline	F getmathscriptordervalue
F getinputstatemode	F getmathscriptsmodevalues
F getinsertcategoryvalues	F getmathstylenamevalues
F getinsertcontent	F getmathstylevalues
F getinsertdepth	F getmathstylevariant
F getinsertdistance	F getmathsurroundvalues
F getinsertheight	F getmathvariantpresets
F getinsertlimit	F getmathvariantvalues
F getinsertmaxplaced	F getmeasure
F getinsertmultiplier	F getmissingcharactervalues
F getinsertoptionvalues	F getmode
F getinsertsplitvalues	F getmodevalues
F getinsertwidth	F getmuglue
F getintegervalue	F getmuskip
F getinteraction	F getmvloptionvalues
F getinteractionmodes	F getnest
F getiovalues	F getnestfields
F getkerneloptionvalues	F getnestlevel
F getkernoptionvalues	F getnoadooptionvalues
F getlargestusedmark	F getnormalizelinevalues
F getlccode	F getnormalizeparvalues
F getlinebreakparameterfields	F getnospacesmodevalues
F getlinebreakresultfields	F getoutputactive

F	getoverloadstate	D	glueoptioncodes
F	getpacktypevalues	D	glyphdisccodes
F	getpagecontextvalues	D	glyphoptioncodes
F	getpagestate	D	groupcodes
F	getpagestatevalues	F	hashtokens
F	getparagraphfillmodevalues	T	hccode
F	getparagraphoptionvalues	T	hmcode
F	getparametermodevalues	N	hshcatcodes
F	getparcontextvalues	D	hyphenationcodes
F	getpardataspecifications	D	ifs
F	getpardir	N	inimatcodes
F	getparmodevalues	D	insertcategorycodes
F	getparstate	D	insertoptioncodes
F	getparstatefields	D	insertsplitcodes
F	getpartriggervalue	F	integerdef
F	getpenaltyoptionvalues	D	interactioncodes
F	getpositvalue	F	isattribute
F	getprepoststatevalues	F	isbox
F	getprimitivelegacies	F	iscount
F	getprimitiveorigins	F	isdefined
F	getprotrusionboundaryvalues	F	isdimen
F	getregisterindex	F	isfloat
F	getruleoptionvalues	F	isglue
F	getrunstate	F	ismuglue
F	getrunstatevalues	F	ismuskip
F	getsfcode	F	isprintable
F	getshapingpenaltiesvalues	F	isskip
F	getskip	F	istoks
F	getsnappingvalues	F	lastnodetype
F	getspacefactorvalues	T	lccode
F	getspaceskipvalues	F	linebreak
F	getspcode	D	linebreakstatecodes
F	getspecialmathclassvalues	D	listanchorcodes
F	getspecification	D	listgeometrycodes
F	getspecificationoptionvalues	T	lists
F	gettextcontrolvalues	D	listsigncodes
F	gettextdir	N	luacatcodes
F	gettoks	T	magicconstants
F	getuccode	S	activecharacternamespace
F	getuleaderlocationvalues	N	allfitnessvalues
F	getunitclassvalues	N	assumedmathcontrol
F	getusedmarks	N	awfulbad
F	getvsplitcontextvalues	N	decentcriterion
T	glue	N	defaultcatcodetable

N defaultcharactercontrol	N maxintegerregisterindex
N defaultdeadcycles	N maxintregisterindex
N defaulteqnogapstep	N maxlimitedscale
N defaulthangafter	N maxmarkindex
N defaultoutputbox	N maxmathclasscode
N defaultpredisplaygap	N maxmathfamilyindex
N defaultrule	N maxmathscalingfactor
N defaultspacefactor	N maxmathstylescale
N defaulttolerance	N maxmuregisterindex
N deplorable	N maxmvlindex
N ejectpenalty	N maxnewlinecharacter
N ignoredepth	N maxnofbytecodes
N infinitebad	N maxnofcatcodetables
N infinitepenalty	N maxnoffitnessvalues
N infinity	N maxnoffonts
N largewidthexcess	N maxnoflanguages
N loosecriterion	N maxnofmarks
N mathallclass	N maxnofmathfamilies
N mathbeginclass	N maxquarterword
N mathdefaultpenalty	N maxscalefactor
N mathendclass	N maxsizeofword
N mathfirstuserclass	N maxspacefactor
N mathlastuserclass	N maxtoksregisterindex
N maxattributeregisterindex	N maxtwinlength
N maxboxregisterindex	N mincardinal
N maxbytecodeindex	N mindatavalue
N maxcalculatedbadness	N mindimen
N maxcardinal	N mindimension
N maxcharactercode	N minhalfword
N maxdatavalue	N mininfinity
N maxdimen	N mininteger
N maxdimenregisterindex	N minmvlindex
N maxdimension	N minnoffitnessvalues
N maxdimensionregisterindex	N minquarterword
N maxendlinecharacter	N minscalefactor
N maxfloatregisterindex	N minspacefactor
N maxfontadjustshrinkfactor	N nocatcodetable
N maxfontadjuststep	N null
N maxfontadjuststretchfactor	N nullflag
N maxfunctionreference	N nullfont
N maxglueregisterindex	N onebp
N maxhalfvalue	N presetrulethickness
N maxhalfword	N runningrule
N maxinteger	N saparthigh

N	sapartlow	D	parcontextcodes
N	sapartmiddle	D	partriggercodes
N	smallstretchability	D	penaltyoptioncodes
N	specialspacefactor	F	poplocal
N	texeqtbsize	F	popsavelevel
N	texhashprime	T	posit
N	texhashsize	F	positdef
N	texmemorymode	F	preparelinebreak
N	two	F	primitives
N	undefinedmathparameter	F	print
N	unity	D	protrusionboundarycodes
N	unusedattributevalue	N	prtcatcodes
N	unusedmathfamily	F	pushlocal
N	unusedmathstyle	F	pushsavelevel
N	unusedscriptvalue	F	quitlocal
N	unusedstatevalue	F	quittoks
N	zeroglue	F	resetparagraph
F	mathchardef	N	rlnccatcodes
T	mathcode	F	romannumeral
D	mathcontrolcodes	F	round
D	mathoptioncodes	D	ruleoptioncodes
D	mathparametercodes	F	runlocal
D	mathscriptordercodes	D	runstatecodes
D	mathscriptsmodecodes	F	runstring
T	modelevels	F	runtoks
N	horizontal	F	saveboxresource
N	math	F	scale
N	unset	F	scantoks
N	vertical	F	set
D	modes	F	setamcode
F	mprint	F	setattribute
T	muglue	F	setbalanceshape
T	muskip	F	setbox
D	mvloptioncodes	F	setboxdir
T	nest	F	setcardinalvalue
N	nilcatcodes	F	setcatcode
D	noadoptioncodes	F	setcccode
D	normalizelinecodes	F	setconditional
D	normalizeparcodes	F	setcount
D	nospacesmodecodes	F	setdelcode
N	notcatcodes	F	setdimen
F	number	F	setdimensionvalue
D	paragraphfillmodecodes	F	setfloat
D	paragrophoptioncodes	F	setglue

F setglyphdata	D spacefactorcodes
F setglyphscript	D spaceskipcodes
F setglyphstate	D specialmathclasscodes
F sethccode	D specificationoptioncodes
F sethmcodes	F splitbox
F setinputstatefile	D splitcodes
F setinputstateline	F sprint
F setinputstatemode	F stringcodesbitmap
F setinsertcontent	D systemmodes
F setinsertdistance	F takebox
F setinsertlimit	N texcatcodes
F setinsertmaxplaced	D textcontrolcodes
F setinsertmultiplier	T toks
F setintegervalue	F tonumber
F setinteraction	F toscaled
F setlccode	N tpacatcodes
F setlinedir	N tpbcacodes
F setlist	F tprint
F setlocalbox	F trackedattribute
F setmath	D trackers
F setmathcode	F triggerbuildpage
F setmathdir	N txtcatcodes
F setmuglue	T uccode
F setmuskip	F uprint
F setnest	F useboxresource
F setoverloadstate	D userdiscoptioncodes
F setpardir	D userglyphoptioncodes
F setpositvalue	N vrbcatcodes
F setrunstate	F write
F setsfcode	T texio
F setskip	F closeinput
F setspcode	F forceendoffile
F settextdir	F getinputindex
F settoks	F getselectorvalues
F setuccode	F getsourcefilename
T sfcode	F setlogfile
D shapingpenaltiescodes	F terminal
F shiftparshape	F write
F shipout	F write_nl
F showcontext	F writenl
T skip	F writeselector
D snappingcodes	F writeselectorlf
F snapshotpar	F writeselectornl
F sp	T token

F create	F getflags
F expand	F getfrozen
F expand_macro	F getfunctionvalues
F expandmacro	F getid
F future_expand	F getimmutable
F futureexpand	F getindex
F get_active	F getinstance
F get_cmdchracs	F getinteger
F get_cmdname	F getlength
F get_command	F getmacro
F get_csname	F getmeaning
F get_cstoken	F getnoaligned
F get_dimension	F getparameters
F get_expandable	F getpermanent
F get_fields	F getprimitive
F get_flags	F getprimitives
F get_frozen	F getprotected
F get_id	F getrange
F get_immutable	F gettok
F get_index	F gettolerant
F get_instance	F gobble
F get_integer	F gobble_dimension
F get_macro	F gobble_integer
F get_meaning	F gobbledimension
F get_noaligned	F gobbleinteger
F get_parameters	F grab
F get_permanent	F grabstring
F get_primitive	F inhibit
F get_protected	F is_defined
F get_range	F is_next_char
F get_tok	F is_token
F get_tolerant	F isactivestring
F getactive	F isdefined
F getcmdchracs	F isnextchar
F getcmdname	F istoken
F getcommand	F locatemacro
F getcommandvalues	F new
F getconstant	F peek_next
F getcsname	F peek_next_char
F getcstoken	F peek_next_expanded
F getdimension	F peeknext
F getexpandable	F peeknextchar
F getexpansion	F peeknextexpanded
F getfields	F pop_macro

F popmacro	F scancardinal
F push_macro	F scanchar
F pushmacro	F scancmdchr
F put_back	F scancmdchrexploded
F put_next	F scancode
F putback	F scancsname
F putnext	F scancstoken
F save_lua	F scandelimited
F savelua	F scandetokened
F scan_argument	F scandimen
F scan_box	F scandimenargument
F scan_cardinal	F scandimension
F scan_char	F scandimensionargument
F scan_cmdchr	F scanfloat
F scan_cmdchr_expanded	F scanglue
F scan_code	F scanint
F scan_csname	F scaninteger
F scan_delimited	F scanintegerargument
F scan_dimen	F scankey
F scan_float	F scankeyword
F scan_glue	F scankeywordcs
F scan_integer	F scanletters
F scan_key	F scanluacardinal
F scan_keyword	F scanluainteger
F scan_keyword_cs	F scanluanumber
F scan_letters	F scannext
F scan_luacardinal	F scannextchar
F scan_luainteger	F scannextexploded
F scan_luanumber	F scanposit
F scan_next	F scanreal
F scan_next_char	F scanscale
F scan_next_expanded	F scanskip
F scan_real	F scanstring
F scan_scale	F scantoken
F scan_skip	F scantokencode
F scan_string	F scantokenlist
F scan_token	F scantokenstring
F scan_token_code	F scantoks
F scan_tokenlist	F scanvalue
F scan_toks	F scanword
F scan_value	F serialize
F scan_word	F set_dimension
F scanargument	F set_integer
F scanbox	F set_lua

F set_macro	B typo-pag
F setdimension	B typo-par
F setinteger	B typo-pnc
F setlua	B typo-prc
F setmacro	B typo-rep
F setmacrofrommark	B typo-rub
F setmacrotonothing	B typo-spa
F skip_next	B typo-stc
F skip_next_expanded	B typo-sus
F skipnext	B typo-syn
F skipnextexpanded	B typo-tal
F type	B typo-wrp
F undefine_macro	B unic-ini
F undefinemacro	T utf8
B trac-bld	F char
B trac-jus	S charpattern
B trac-par	F codepoint
B trac-riv	F codes
B trac-sig	F len
B trac-vis	F offset
B type-ini	T vector
B typo-adj	F add
B typo-bld	F append
B typo-brk	F average
B typo-cap	F ceiling
B typo-chr	F checkoverlap
B typo-cln	F collectoverlap
B typo-dha	F concat
B typo-dif	T contour
B typo-dig	F average
B typo-dir	F bounds
B typo-drp	F checkoverlap
B typo-duc	F collectoverlap
B typo-fkr	F getarea
B typo-fln	F getmesh
B typo-hid	F makemesh
B typo-inj	F overlapping
B typo-itc	F show
B typo-krn	F sort
B typo-lan	F copy
B typo-lbx	F crossproduct
B typo-man	F delete
B typo-mar	F determinant
B typo-ovl	F div

F equal	F normalize
F exchange	F onecolumn
F floor	F onerow
F get	T point
F getdimensions	F add
F getepsilon	F copy
F getmemory	F cross
F getmesh	F crossproduct
F getrc	F dist
F getrow	F distance
F getsize	F div
F getstacking	F dot
F gettype	F dotproduct
T helpers	F equal
F points	F get
F transform	F ispoint
F xrotation	F iszero
F xyzscale	F len
F yrotation	F length
F zrotation	F mul
F homogenize	F neg
F identity	F negate
F inner	F new
F insert	F norm
F inverse	F normalize
F ismesh	F perp
F ispoints	F perpendicular
F issingular	F set
F isvector	F sub
F iszero	F tostring
T mesh	F totable
F get	F type
F getdimensions	T points
F gettypevalues	F get
F ismesh	F getbounds
F new	F getnormal
F set	F getxyz
F tostring	F ispoints
F totable	F new
F type	F set
F meshname	F setnormal
F mul	F setxyz
F negate	F tostring
F new	F totable

F type	F erf
F product	F erfc
F remove	F erfcx
F replace	F erfi
F round	F exp
F rowechelon	F i
F set	F imag
F setepsilon	F log
F setnext	F new
F setrc	F pow
F setstacking	F proj
F slice	F real
F sort	F sin
F sub	F sinh
F swap	F sqrt
F tostring	F tan
F totable	F tanh
F transpose	F topair
F triangulate	F tostring
F truncate	F totable
F type	F voigt
T xcomplex	F voigt_hwhm
F I	T xdecimal
F __add	F __add
F __div	F __band
F __eq	F __bor
F __mul	F __bxor
S __name	F __div
F __pow	F __eq
F __sub	F __idiv
F __tostring	F __le
F __unm	F __lt
F abs	F __mod
F acos	F __mul
F acosh	S __name
F arg	F __pow
F asin	F __shl
F asinh	F __shr
F atan	F __sub
F atanh	F __tostring
F conj	F __unm
F cos	F abs
F cosh	F band
F dawson	F bor

F bxor	F diameter
F conj	F equal
F copy	F erf
F exp	F erfc
F getprecision	F exp
F ln	F exp10
F log	F exp2
F max	F expm1
F min	F greater
F minus	F greaterequal
F new	F hull
F plus	F intersect
F pow	F less
F rotate	F lessequal
F setprecision	F log
F shift	F log10
F sqrt	F log1p
F toengstring	F log2
F tonumber	F mid
F toString	F mod
F trim	F new
T xinterval	F neweps
F __add	F pow
F __div	F seteq
F __eq	F setge
F __le	F setgt
F __lt	F setle
F __mod	F settl
F __mul	F sin
S __name	F sinh
F __pow	F sqr
F __sub	F sqrt
F __toString	F tan
F __unm	F tanh
F abs	F topair
F acos	F toString
F acosh	F totable
F asin	F usedendian
F asinh	F within
F asstring	T xmath
F atan	F acos
F atanh	F acosh
F cos	F asin
F cosh	F asinh

F atan	F nextafter
F atan2	F normalize
F atanh	N pi
F cbrt	F pow
F ceil	F rad
F copysign	F remainder
F cos	F remquo
F cosh	F round
F crossproduct	F scalbn
F deg	F sin
F dotproduct	F sinh
F erf	F sqrt
F erfc	F tan
F exp	F tanh
F exp2	F tgamma
F expm1	F trunc
F fabs	F y0
F fdim	F y1
F floor	F yn
F fma	T xzip
F fmax	F adler32
F fmin	F compress
F fmod	F compresssize
F frexp	F crc32
F gamma	F decompress
F hypot	F decompresssize
N inf	T zbuffer
F isfinite	F bounds
F isinf	F composite
F isnan	F crop
F isnormal	F edgepoint
F j0	F flatten
F j1	F get
F jn	F getcolor
F ldexp	F getdepth
F lgamma	F getnormal
F log	F getopacity
F log10	F getsize
F log1p	F implicit
F log2	F iszbuffer
F logb	F meshmesh
F modf	F new
N nan	F points
F nearbyint	F process

F project	F delayedsheet
F resolve	F finishflush
F set	F flushareas
F setcolor	F flushcolumn
F setdepth	F goto
F setnormal	F gotoslot
F setopacity	F limit
F setup	F noto
F smoothen	F prepareflush
F stipple_0	F presetsheets
F stipple_1	F presetspreadsheets
F stipple_2	F put
F stipple_3	F putdirect
F stipple_4	F registerarea
F stipple_setup	F registersheet
F tobytes	F registerspreadsheets
F tostring	F reset
F totable	F resetdirect
F transform	F reshape
F trianglebounds	F setarea
F triangles	F setextra
F type	F sethsize
T loaders	F sethspan
F loadlib	F setlines
F luapaths	F setmvl
S path	F setpresent
F poplibpath	F setproperties
F popluapath	F setstart
T preload	F shape
F pushlibpath	F showshape
F pushluapath	F state
F searchpath	F status
T pagebuilders	F submvl
T columnsets	F submvlbalance
F add	T injections
F addmvl	F flushafter
F block	F flushbefore
F blockrows	F save
F check	T mixedcolumns
F checkmvl	F cleanup
F clean	F finalize
T data	F getlist
F define	F getrest
F definesub	F getsplit

F setsplit	F keywords
F pairs	F num
T parametersets	F page
F pcall	F short
T pdf	F tag
F immediateobj	F textnum
T physics	F year
T units	D collected
F registershortcut	T components
F registerunit	F author
D tables	F concatstate
F print	F converttoxml
T publications	T currentspecification
F addtexentry	S author
F analyze	T categories
F anywhere	T article
D authorcache	S category
D authorcollapsers	T extra
T authorhashers	T fields
F invertedshort	S author
F normal	S editor
F normalinverted	S journal
F normalshort	S keywords
F sequential	S note
F sequentialshort	S number
F short	S pages
D authormap	S title
F authortoregister	S volume
T btx	S year
T casters	T optional
F author	T required
F keyword	T sets
F pagenumber	T author
F range	T virtual
F checkeddataset	T book
T citevariants	S category
F author	T extra
F authornum	T fields
F authoryear	S address
F authoryears	S author
F category	S edition
F default	S editor
F entry	S keywords
F index	S note

S number	T fields
S publisher	S name
S subtitle	T types
S title	S author
S volume	S editor
S year	S keywords
T optional	S number
T required	S page
T sets	S pages
T author	S volume
T editionset	S version
T virtual	D virtual
T demo-a	T virtualfields
S category	B authornum
T extra	B authoryear
T fields	B authoryears
S author	B num
S institution	B suffix
S organization	T datasets
S subtitle	T detailed
S title	F endnotes_to_btx
S year	T enhancer
T optional	S arguments
T required	T askip
T sets	T attr
T author	B dirty
T virtual	T gskip
T demo-b	T kind
S category	T list
T extra	T system
T fields	T order
S author	N steps
S institution	T enhancers
S organization	F details
S subtitle	F order
S title	F suffixes
S year	F finder
T optional	F firstofrange
T required	F found
T sets	F get
T authors	F getcasted
T virtual	F getdetail
S comment	F getdirect
S copyright	F getfaster

F getfield	F tag
F getfuzzy	F load
F getindex	F loadbibdata
D inspectors	F loaddefinitionfile
T journals	T loaders
F abbreviated	F bbl
F add	F bib
F expanded	F buffer
F load	F endnote
F save	F json
F lastofrange	F lua
T lists	F refman
F collectentries	F registercleaner
F combiinlist	F xml
F fetchentries	F loadreplacementfile
F filterall	T meanings
F flushcombi	F new
F flushentry	F okay
F flushtag	F oneorange
T methods	F parenttag
F dataset	F permitted
F force	F prerollcmdstring
F global	F refman_to_btx
F label	F resolvedname
F local	F save
F nofregistered	T savers
F prepareentries	F bib
F register	F lua
F sameasprevious	F xml
T sorters	F search
F cite	F setcategory
F dataset	F setspecification
F default	F singularorplural
F index	F sortedentries
F list	T sortmethods
F reference	T authortitle
F short	T sequence
F used	T authoryear
F uservariable	T sequence
T listvariants	T dataset
F default	T sequence
F index	T key
F num	T sequence
F short	T specifications

F splitauthor	F fromregime
F splitoneauthor	F list
T statistics	D mapping
N nofbytes	F pop
N nofdatasets	F process
N nofdefinitions	F push
N nofshortcuts	F toregime
T tables	F translate
D implicits	F require
D origins	T resolvers
D privates	F allprefixes
D sets	F appendhash
D specials	F automount
D types	F booleanvariable
D virtuals	S cacheversion
F tags	F checkedvariable
T tracers	F cleanedpathlist
F showdatasetauthors	D cleaners
F showdatasetcompleteness	F cleanpath
F showdatasetfields	F cleanpathlist
F showentry	F cleanupbinfile
F showfields	D concatenators
F showhashedauthors	S configbanner
F showtables	F configurationfiles
F showvariants	D dangerous
T typesetters	F datastate
F author	T decompressors
F string	F register
F usedataset	F unregister
F usedentries	T defaultsuffixes
T writers	F dirstatus
F author	F dowithfilesandreport
F keyword	F dowithfilesintree
F pagenumber	F dowithpath
F range	F dowithvariable
F rawequal	T executers
F rawget	F expandbraces
F rawlen	F expandedpathfromlist
F rawset	F expandedpathlist
T regimes	F expandedpathlistfromvariable
D backmapping	F expandpath
F cleanup	F expandpathfromvariable
F disable	F expansion
F enable	F extendexmfvariable

F filtered_from_content	F justacomponent
F find_file	F namelist
F find_files	D processors
F findbinfile	F productcomponent
F findctxfile	F usefile
D finders	F joinpath
F findfile	F knownvariables
F findfiles	T libraries
F findgivenfile	F optionalloaded
F findgivenfiles	F validoptional
F findlib	F load
F findpath	F loadbinfile
F findpk	D loaders
F findtexfile	F loadlualib
F findwildcardfile	F loadtexfile
F findwildcardfiles	F loadtime
F formatofsuffix	F locateformat
F formatofvariable	D locators
D formats	S luacnffallback
F foundintree	S luacnfname
F foundintrees	S luacnfspec
D generators	S luacnfstate
F get_from_content	T macros
F getdetails	F convertfile
F getenv	F decodecomment
F getextrapaths	F enablecomment
F getfilehashes	F encodecomment
F gethashes	F preprocessed
F getownpath	F processmk
F getreadfilename	F processmklx
D hashers	F processmkvi
S homedir	F version
F ignorelibrary	N maxreadlevel
F initialized	F methodhandler
F installinputfilehandler	F missinglibrary
F installinputlinehandler	F openbinfile
F jobpath	D openers
T jobs	F openfile
F collectstructure	F opentexfile
F currentcomponent	S ownpath
F currentenvironment	F popextrapath
F currentproduct	F popinputname
F currentproject	F poppath
F currentstructure	D prefixes

F prependhash	F suffixofformat
F pushextrapath	F texdatablob
F pushinputname	F toppath
F pushpath	D tracers
F registerextrapath	F unexpandedpath
F registerfile	F unexpandedpathlist
F registerfilehash	F unresolve
F registerintrees	F updaterelations
F registermethod	F updatescript
F registerzipfile	F uselibrary
D relations	D usertypes
F renew	F usezipfile
F renewcache	F validatedpath
F repath	F variable
F reset	F variableofformat
F resetextrapaths	F variableofformatorsuffix
F resetresolve	F wildcardpattern
F resolve	T sandbox
D savers	F blockrequire
F scandata	F disablelibraries
F scanfiles	F disablerunners
T schemes	F enable
T cleaners	F filehandlerone
F md5	F filehandlertwo
F none	F finalizer
F strip	F getrunner
F cleanname	F initializer
F fetchstring	F iohandler
F fetchtable	F logcalls
F install	F logfiles
F setdynamic	F original
F setenv	F overload
F showdetails	F possiblepath
F showpath	F redefine
F simplescanfiles	F register
F splitconfigurationpath	F registerbinary
F splitexpansions	F registerlibrary
F splitmethod	F registerroot
F splitpath	F registerrunner
F stackpath	F report
F starttiming	F setfilenamelogger
F stoptiming	F setlogger
D suffixes	F setreporter
D suffixmap	F settrace

F validfilename	F tonumber
T scripts	F totable
T autofontfeature	F setinspector
F disable	F setmathparameters
F enable	F setmetatable
F handler	T sorters
D colors	F basicsorter
F decomposehangul	T comparers
T defaults	F basic
N inter_char_half_shrink_factor	T constants
N inter_char_half_stretch_factor	S defaultdigits
N inter_char_hangul_penalty	S defaultlanguage
N inter_char_quarter_shrink_factor	S defaultmethod
N inter_char_quarter_stretch_factor	N digitsmaximum
N inter_char_shrink_factor	N digitsoffset
N inter_char_stretch_factor	N ignoredoffset
N inter_word_stretch_factor	N replacementoffset
F getdata	T validmethods
F getinjector	B ch
F getsplitter	B mc
F getstatus	B mm
D handlers	B pc
D helpers	B pm
D injectors	B uc
T inserters	B zc
F nobreakspace_after	B zm
F nobreakspace_before	D definitions
F space_after	F firstofsplit
F space_before	F packch
F zerowidthspace_after	F packuc
F zerowidthspace_before	F replacementlist
F installdataset	F setlanguage
F installmethod	F sort
D numbertodataset	T splitters
D numbertohandler	F utf
F reset	F strip
F set	D tracers
F setstatus	F update
D splitters	T statistics
F select	F benchmarktimer
T set	F checkfmtstatus
F contains	F currenttime
F create	F elapsed
F tolist	F elapsedindeed

F elapsedseconds	F initialize
F elapsedtime	F push
B enable	F start
T feedback	F stop
F info	F synchronize
F processstates	T structures
F register	F atlocation
F reportstates	T blocks
F setstate	D collected
F formatruntime	F define
F hastiming	F empty
F memused	F print
F register	F save
F resettiming	F select
F runtime	F setstate
F savefmtstatus	D states
F show	D tobesaved
F showmemory	F uservariable
F showusage	T bookmarks
F starttiming	T extras
F stoptiming	F get
N threshold	F mergesections
F timed	F register
F tracefunction	F reset
T storage	F tosections
F allocate	F finalize
T data	F flatten
F mark	F installhandler
F marked	F merge
N max	S method
N min	F overload
N nofmodules	F place
N noftables	F register
F register	F setopened
D shared	F setup
D storedfunctions	T counters
B strip	F add
N tofmodules	F analyze
N toftables	F check
T streams	D collected
F collect	F compact
F disable	F converted
F enable	F currentvalue
F flush	D data

F define	F simplify
F first	F title
F get	F touserdata
F isset	T inserts
F last	F attach
F next	D data
F prev	F define
F previous	F detach
F raw	F getdata
F record	F getlocation
F reset	F getname
F restart	F getnumber
F restore	F nofdetached
F save	F setlocation
F set	F setup
F setlevel	D stored
F setoffset	T itemgroups
F setown	D collected
F setstate	D tobesaved
F setvalue	T lists
T specials	F addto
F userpage	F analyze
F subs	F bookmark
D tobesaved	D cached
F value	D collected
F way	F discard
F currentsectionnumber	F enhance
T descriptions	T enhancers
T documents	F external
D data	F filter
F initialize	F formulanumber
F preset	F getresult
F reset	F groupindex
T floats	F hasnumberdata
T formulas	F haspagedata
T helpers	F hastitledata
F analyze	F integrate
F formulanumber	F iscached
F merged	D kinds
F page	F label
F pageofinternal	F location
F prefix	D names
F prefixlastpage	F number
F prefixpage	D ordered

F page	D numbers
F popnesting	F ordered
F prefix	F postpone
F prefixednumber	F resetpostponed
F prefixedpage	F restore
F process	F save
D pushed	F setstate
F pushnesting	D states
F rawnumber	F store
F rawrealpage	T pages
F rawuserpage	F allmarked
F realpage	F analyze
F reorder	D collected
F reordered	F fraction
T result	F getlabels
F savedlistnumber	F in_body
F savedlistprefixednumber	F is_odd
F savedlisttitle	F mark
D sectionblocks	F marked
F size	F markedlist
F title	N nofpages
D tobesaved	F number
F use	F on_right
F userdata	F save
F userpage	D tobesaved
F uservalue	F toranges
T marks	T references
F number	F analyze
F title	F checked
T notes	F checkedfile
F checkpagechange	F checkedfileorurl
F define	F checkedprogram
F flushrange	F checkedrealpage
F get	F checkedurl
F getdeltapage	D collected
F getinternal	U componentsplitter
F getn	F currentmetadata
F getstate	F currentorder
F getstorecount	D currentset
F getstoreflushed	F define
F hascontent	D defined
F internal	D derived
F internalid	F enhance
F listindex	D executers

F export	U referencesplitter
T files	D referred
T data	F referredpage
F define	F registerfinalizer
F found	F registerinitializer
F get	F registerpage
F filter	F reset
F filterdefault	D runners
D filters	F set
D flaginternals	F setandgetattribute
F forceinnermode	F setinternalreference
F from	F setlinkmethod
D functions	F setnextinternal
F get	F setnextorder
F getcurrentlabel	F setreferencerealpage
F getcurrentmetadata	F setstructure
F getcurrentprefixspec	D specials
F getinnermethod	F splitcomponent
F getinternalcachedlistreference	F splitprefix
F getinternallistreference	F splitreference
F getinternalreference	F synchronizepage
F getoutermethod	T testrunners
D handlers	F inner
F identify	F special
F import	F special operation
F inject	F special operation with arguments
F injectcurrentset	T testspecials
S innermethod	F deltapage
F integrate	F i
D internals	F internal
F load	F page
F loadpresets	F realpage
F mark	F section
S outermethod	F userpage
F pagefromhash	D tobereferred
D pages	D tobesaved
U prefixsplitter	D tracedpages
D productdata	T urls
T programs	T data
T data	F define
F define	F found
F get	F get
F realpageofpage	F untex
F referenced	D usedinternals

D usedviews	D levels
F valid	F matchingtilldepth
T registers	F numberatdepth
F analyze	F numbers
D collected	F popblock
F compare	F prefixedconverted
F define	F pushblock
F enhance	F register
F extend	D registered
F filter	F reportstructure
F filtercollected	F save
F finalize	T sectionblockdata
F findinternal	T bodypart
F flush	S bookmark
F get	F set
F integrate	F setblock
F prepare	F setchecker
F process	F setentry
F setmethod	F setinitialblock
F sort	F setlevel
F store	F setnumber
D tobesaved	F showstructure
F tweak	F structuredata
F unique	F title
F use	D tobesaved
F userdata	F typesetnumber
T sections	F userdata
F autodepth	B verbose
F cct	T sets
D collected	F define
F current	F get
F currentblock	F getall
F currentid	D setlist
F currentlevel	T specials
F currentsectionindex	D collected
F depthnumber	F retrieve
F finddata	F store
F findnumber	D tobesaved
F fullnumber	T synonyms
F getcurrentlevel	F analyzed
F getlevel	D collected
F getnumber	F compare
F internalreference	F define
D levelmap	F enhance

F filter	F formulacontent
F finalize	F image
F firstuserpage	F item
F flush	F itemgroup
F isshown	F link
F isused	F listitem
F meaning	F mmultiscripts
F pages	F mover
F prepare	F mpgraphic
F process	F msub
F register	F msubsup
F registershown	F msup
F registerused	F munder
F reset	F munderover
F resetall	F paragraph
F resetlist	F publication
F resetshown	F reference
F resetused	F registerlocation
F sort	F registerpages
F synonym	F registerseparator
D tobesaved	F section
F userpages	F sorting
T tags	F subsentencesymbol
F analyze	F synonym
T backend	F tablecell
T checks	F tabulate
F marginanchor	F tabulatecell
F margintext	T finalizers
F math	F descriptions
F mrow	T fixes
F mtable	F linenumbers
T destinationhash	F fontfaced
T extras	T listdata
F adddestination	T referencehash
F addimplicit	F setattribute
F addinternal	F tofontface
F addreference	T usedimages
F combination	T image
F combinationpair	T mpgraphic
F delimitedsymbol	T usedstyles
F description	T construct
F descriptionsymbol	T highlight
F document	F checknesting
F float	F current

F elementtag	D properties
F enabled	F push
F exportbox	F registerextradata
F finishexport	F registermetadata
F getdescriptionindex	F restart
F getextradata	F setaspect
F getid	F setattributehash
F getitemgroup	F setcodepoint
F getmetadata	F setcombination
F getoption	F setcombinationpair
F getsorting	F setconstruct
F getsynonym	F setdescriptionindex
F gettablecell	F setfigure
F gettabulatecell	F setfloat
F gettagreferencedescription	F setformulacontent
F handler	F sethighlight
T ignored	F setitem
F initializeexport	F setitemgroup
D labels	F setmpgraphic
F last	F setnotation
F lastinchain	F setnotationsymbol
F localexport	F setparagraph
F locatedtag	F setproperty
T modes	F setpublication
S BlockQuote	F setregister
S FENote	F setsorting
S H1	F setsynonym
S H2	F settablecell
S H3	F settabulatecell
S H4	F settagdelimitedsymbol
S H5	F settagsubsentencesymbol
S H6	F setupexport
S H7	F setuserproperties
S H8	D specifications
S H9	F start
S Lbl	F stop
S NonStruct	F strip
S P	D taglist
S Part	T unsupported
S Sect	B Annot
D overloads	B Art
T patterns	B BibEntry
U splitter	B Caption
F pop	B Document

B DocumentFragment	T texconfig
B Em	T buffersize
B Form	N size
B H	N step
B Index	T errorlinesize
B Link	N size
B Note	T expandsize
B Quote	N size
B Reference	T filesize
B Strong	N size
B TOC	N step
B TOCI	S firstline
B Title	T fontsize
T usewithcare	N size
T where	N step
S Art	S formatname
S Artifact	N functionsize
S Aside	T halferrorlinesize
S BibEntry	N size
S BlockQuote	T hashsize
S Code	N size
S DocumentFragment	N step
S Em	F init
S FENote	T inputsize
S H1	N size
S H2	N step
S H3	T insertsize
S H4	N size
S H5	N step
S H6	B kpse_init
S H7	T languagesize
S H8	N size
S H9	N step
S Index	T marksize
S Note	N size
S Private	N step
S Quote	T nestsize
S Reference	N size
S Strong	N step
S Sub	T nodesize
S TOC	N size
S TOCI	N step
S Title	T parametersize
D texconditionals	N size

N step	N comment
T poolsize	N endgroup
N size	N endofline
N step	N escape
N propertiessize	N ignore
T savesize	N invalid
N size	N letter
N step	N mathshift
S shell_escape	N open
T stringsize	N other
N size	N parameter
N step	N space
T tokensize	N subscript
N size	N superscript
N step	N whitespace
D texconstants	D cache
D texifs	D commands
D txisdefined	F compile
D texmodes	F constant
D texsystemmodes	T converters
T thirddata	S toboolean
F toboolean	S todimen
F todecimal	S toglue
T tokens	S tonumber
T accessors	S tostring
F active	F create
F cmd	F defined
F cmdchrsc	F flags
F cmdname	F getinteger
F command	T getters
F csname	F box
F expandable	F count
F frozen	F cstoken
F index	F dimen
F name	F glue
F protected	F macro
F range	F meaning
F astable	F skip
T bits	F token
N active	F gobble
N alignment	F isactivestring
N begingroup	F isdefined
N character	F istoken
N close	F new

F pickup	F dimension
F popmacro	F dimensionargument
T presets	F float
T 1 argument	F glue
T 1 integer	F gluespec
T 1 optional	F gluevalues
T 1 string	F hash
T 2 arguments	F hbox
T 2 integers	F integer
T 2 optionals	F integerargument
T 2 strings	F ischar
T 3 arguments	F key
T 3 integers	F keyword
T 3 optionals	F keywordcs
T 3 strings	F letters
T 4 arguments	F list
T 4 integers	F lua
T 4 optionals	F luacardinal
T 4 strings	F luainteger
T 5 strings	F luanumber
T 6 strings	F lxmlid
T 7 strings	F next
T 8 strings	F nextchar
F pushmacro	F nextexpanded
T scanners	F number
F argument	F optional
F argumentasis	F peek
F array	F peekchar
F boolean	F peekexpanded
F box	F posit
F bracketed	F real
F bracketedasis	F scanclose
F cardinal	F scanopen
F char	F skip
F cmdchr	F skipexpanded
F cmdchrexpanded	F string
F code	F table
F conditional	F token
F count	F tokencode
F csname	F tokenlist
F csnameunchecked	F tokens
F delimited	F tokenstring
F detokened	F toks
F dimen	F value

F vbox	F scaninteger
F verbatim	F scanintegerargument
F vtop	F scankeyword
F whd	F scankeywordcs
F word	F scanletters
F setinteger	F scanlist
T setters	F scanlua
F box	F scannumber
F char	F scanopen
F count	F scanoptional
F dimen	F scanposit
F glue	F scanstring
F lua	F scantable
F macro	F scantokenlist
F skip	F scantokenstring
T shortcuts	F scantoks
N close	F scanvbox
F inspect	F scanverbatim
N open	F scanvtop
F report	F scanword
F scanargument	F toboolean
F scanargumentasis	F todimen
F scanarray	F tonumber
F scanboolean	F tostring
F scanbox	D values
F scanbracketed	F tonumber
F scanbracketedasis	F tostring
F scancardinal	T tracers
F scanclose	F printerror
F scancode	F printwarning
F scanconditional	F showlines
F scansname	T trackers
F scansnameunchecked	D data
F scandelimited	F default
F scandetokened	F disable
F scandimen	T done
F scandimension	F dumphashtofile
F scandimensionargument	F enable
F scanfloat	F list
F scanglue	S name
F scangluespec	F register
F scangluevalues	F report
F scanhash	F reset
F scanhbox	F savehash

F show	F handler
F value	T digits
F values	T actions
F type	F handler
T typesetters	F set
T alignments	T directions
F handler	F getfences
F set	F getglobal
T breakpoints	F getmethod
F define	F handler
F handler	T handlers
D mapping	F installhandler
T methods	F set
T numbers	F setcolor
F set	F tomode
F setreplacement	T firstlines
T cases	T actions
T actions	F default
F handler	F line
F register	F word
F set	F handler
T characteralign	F set
F handler	T fontkerns
F resetcharacteralign	F handler
F setcharacteralign	T initials
T characters	T actions
F handler	F default
T methods	F handler
F replacensp	F set
F replacenspaces	T injectors
T checkers	F check
F handler	T list
F reset	F mark
F set	F reset
T cleaners	F set
F handler	F show
F set	T italics
T compare	F enablemath
F handler	F enabletext
F reset	F handler
F set	T kerns
F setpair	D factors
F setup	F handler
T corrections	F keepligature

D mapping	F tostring
F set	T rubies
T localboxes	F attach
F handler	F check
T manipulators	F showinvisibles
F apply	F showsuspects
F applyspecification	T spacings
T methods	F define
F Word	F handler
F Words	D mapping
F abbreviatedjournal	T numbers
F expandedjournal	T frenchpunctuation
F lowercase	T characters
F stripperperiod	S name
F uppercase	N number
T patterns	F reset
U list	F set
U pair	F setup
F splitspecification	T stacking
T margins	F getindex
F finalhandler	F getselection
F globalhandler	F handler
F localhandler	T swapping
F save	F handler
F marksuspects	T synchronize
T paragraphs	F handler
F addanchortoline	T tighten
F addtoline	F handler
F calculatedelta	T wrappers
F checkline	T xtables
F moveinline	F cleanup
T periodkerns	F construct
D factors	F create
F handler	F finish_row
D mapping	F flush
F set	F initialize_construct
T processors	F initialize_reflow_height
F apply	F initialize_reflow_width
F register	F next_row
F reset	F reflow_height
F split	F reflow_width
F startapply	F set_construct
F stopapply	F set_reflow_height
F stripped	F set_reflow_width

F unpack	F ustring
T updaters	F utf16_to_utf8_be
F apply	F utf16_to_utf8_be_t
F register	F utf16_to_utf8_le
T url	F utf16_to_utf8_le_t
F addscheme	F utf16_to_utf8_t
F barepath	F utf32_to_utf8_be
F construct	F utf32_to_utf8_be_t
F decode	F utf32_to_utf8_le
F encode	F utf32_to_utf8_le_t
F escape	F utf32_to_utf8_t
F filename	F utf8_to_utf16
F hashed	F utf8_to_utf16_be
F hasscheme	F utf8_to_utf16_le
F query	F utf8_to_utf8_t
F split	F values
F toquery	F xstring
F unescape	T utilities
F unescapepet	T debugger
T userdata	F disable
T utf	F enable
F byte	F savestats
F bytepairs	F showstats
F char	F showtraceback
F characters	T formatters
F chrln	F formatcolumns
F count	F list
F filetype	F stripzeros
F is_valid	T ghostscript
F len	F convert
F length	F statistics
F lower	T graphicmagick
F remapper	F convert
F replacer	F statistics
F split	T lua
F splitlines	B alwaysstripcode
F sub	F checkmemory
F substituter	F compile
F tocodes	F loadedluacode
F toeight	F loadstring
F toentities	F loadstripped
F tostring	N nofstrippedbytes
F totable	N nofstrippedchunks
F upper	F registerfinalizer

B stripcode	B paper
T strippedchunks	B rightpage
F strippedloadstring	B text
T suffixes	F iterator
S lmt	F keq_to_hash
S lua	F listitem
S luc	F make_settings_to_hash_pattern
S lui	F mergehashes
S luj	F options_to_array
S luv	F options_to_hash
S tma	T patterns
S tmc	U settings_to_array
S tua	U settings_to_hash_a
S tuc	U settings_to_hash_b
T packers	U settings_to_hash_c
F hashed	U settings_to_hash_d
F new	U unittotex
F pack	F process_stripped_settings
F simplehashed	F rfc4180splitter
F strip	F runtime
F unpack	F settings_to_array
N version	F settings_to_array_obey_fences
T parsers	F settings_to_array_with_repeat
F add_settings_to_array	F settings_to_hash
F arguments_to_table	F settings_to_hash_colon_too
F array_to_string	F settings_to_hash_strict
F csvsplitter	F settings_to_hash_tolerant
F getparameters	F settings_to_numbers
F groupedsplitat	F settings_to_set
F hash_to_string	F simple_hash_to_string
T hashes	F splitmethod
T settings_to_list	F splitthousands
T tablet	F stepper
T settings_to_set	F stripped_settings_to_array
T min,max,fit,broad,auto	F totime
B auto	F unittotex
B broad	F unittotxml
B fit	T randomizer
B max	F get
B min	F getnumber
T text,hidden,paper,page,leftpage,rightpage	F getrepeatable
B hidden	F getrepeatableseed
B leftpage	F getseed
B page	F newrepeatable

F popseed	F serialopen
F pushseed	S serialprefix
F repeatable	F serialsend
F reuseseed	F serialwrite
F setseed	N version
F setseedi	T stacker
T randomizers	F new
F poisson	T storage
T sequencers	F allocate
F appendaction	F checked
F appendgroup	F mark
F compile	F marked
F disableaction	F setinitializer
F disablegroup	F sparse
F enableaction	T streams
F enablegroup	F close
D functions	F getposition
F localize	F getsize
F new	F getstring
F nodeprocessor	F look
F prependaction	F open
F prependgroup	F openstring
F removeaction	F read2dot14
F replaceaction	F readbyte
F setkind	F readbytes
F tostring	F readbytetable
T setters	F readcardinal
F disable	F readcardinal1
F enable	F readcardinal11le
F initialize	F readcardinal2
F list	F readcardinal2le
F new	F readcardinal3
F register	F readcardinal3le
F report	F readcardinal4
F reset	F readcardinal4le
F show	F readcardinaltable
T signals	F readchar
S configuration	F readcline
F initialize	F readcstring
F loadstate	F readdouble
F report	F readdoublele
F savestate	F readfixed2
F serialclose	F readfixed4
F serialfast	F readfloat

F readfloatle	U retain
F readfloatle12	U retain and collapse
F readfloatle6	U retain and no empty
F readinteger	F striplines
F readinteger1	F tabtospace
F readinteger1le	T tables
F readinteger2	F accesstable
F readinteger2le	F definedtable
F readinteger3	F definetable
F readinteger3le	F encapsulate
F readinteger4	F insertaftervalue
F readinteger4le	F insertbeforevalue
F readintegertable	F migratetable
F readsignedbyte	F removevalue
F readstring	F replacevalue
F setposition	T tar
F size	T archives
F skip	F closearchive
F skipbytes	T files
F skiplong	F fetch
F skipshort	F hash
F tocardinal1	F list
F tocardinal1le	F pack
F tocardinal2	F unpack
F tocardinal2le	F openarchive
F tocardinal3	T registeredfiles
F tocardinal3le	T streams
F tocardinal4	F fetch
F tocardinal4le	F hash
T strings	F list
F collapse	F pack
F collapsecrlf	F unpack
T formatters	T strings
F add	F fetch
F new	F hash
F newcollector	F list
F newrepeater	F pack
T striplinepatterns	F unpack
U collapse	T templates
U collapse all	F load
U prune	F replace
U prune and collapse	F replacer
U prune and no empty	F resolve
U prune and to space	T zipfiles

F close	F assign
F found	F attribute
F hash	F badinclusions
F list	F before
F open	F body
F unzip	T builinentities
F unzipdir	B amp
F zipdir	B apos
T visualizers	B gt
D escapepatterns	B lt
F getspecification	B quot
F getvisualizer	F cdata
F load	F cdatatotext
F makenested	F checkbom
F makepattern	F checkedempty
F newgrammar	F checkerror
F newhandler	F checknamespace
F parsedxml	F checkns
F pattern	F cleansed
F register	F collect
F registerescapecommand	F collect_elements
F registerescapepline	F collect_tags
F registerescapepattern	F collect_texts
S signal	F collected
U signalpattern	F collecttexts
D specifications	F compactelement
F visualize	F content
F visualizebuffer	F convert
F visualizefile	F copy
F visualizestring	F count
F write	F cprint
F writeargument	T css
F writedefault	F applyselector
F writeemptyline	F colorspecification
F writenewline	F dimension
F writespace	F family
F warn	F fontspecification
T xml	F mappedstylevalue
F addentitiesdoctype	F padding
F addspecialcode	F size
F after	F style
F all	F stylevalue
F applylpath	F todimension
F applyselector	F variant

F weight	F filter
T defaulthandlers	T finalizers
D file	F paragraphs
D parsedxml	T tex
D string	F all
D tex	F attribute
D texline	F chainattribute
D texspace	F chainpath
D verbose	F collapsed
S defaultprotocol	F command
F delete	F concat
F delete_element	F concatrange
F despecialized	F context
F each	F count
F each_element	F ctxtext
F elements	F default
F elementtocdata	F depth
F empty	F first
D entities	F function
F erase	F index
F errorhandler	F last
F escaped	F lettered
F expand	F lower
T expressions	F lowerall
F attribute	F match
F boolean	F name
F child	F param
F contains	F parameter
F count	F position
F error	F reverse
F find	F stripped
F hasclass	F tag
F idstring	F tags
F lower	F text
F name	F upper
F number	F upperall
F oneof	F url
F print	F xml
F quit	T xml
F tag	F all
F text	F att
F undefined	F attribute
F upper	F attributes
F fillin	F cdata

F chainattribute	F insert
F count	F insert_element
F default	F insert_element_after
F elements	F insert_element_before
F empty	F insertafter
F first	F insertbefore
F function	F insertcdata
F index	F insertcomment
F last	F inspect
F lowerall	F is_valid
F match	F kind
F name	F last
F position	F lastmatch
F reverse	F load
F table	F lpath
F tag	F lpathcached
F tags	F lpathcalls
F text	F lshow
F texts	F makestandalone
F tomacro	F match
F upperall	T mml
F url	F stripped
F first	F verbose
F found	F name
T functions	F newhandlers
F classes	F nodesettostring
F hasclass	T obsolete
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F gethandlers	F collect_texts
F gethandlersfunction	F delete_element
T helpers	F each_element
F recursetext	F inject_element
F include	F inject_element_after
F inclusion	F inject_element_before
F inclusions	F insert_element_after
F index	F insert_element_before
F inheritattributes	F process_attributes
F inheritedconvert	F process_elements
F inject	F remap_name
F inject_element	F remap_namespace
F inject_element_after	F remap_tag
F inject_element_before	F replace_element
F injectafter	F strip_whitespace
F injectbefore	F originalload

F package	F setcdata
F parent	F setcomment
U parsedentitylpeg	F sethandlersfunction
T pihandlers	F setinjectors
F injector	F setproperty
F tex	F settings
T placeholders	D specialcodes
F unknown_any_entity	T specialhandler
F unknown_dec_entity	F sprint
F unknown_hex_entity	F string
F popmatch	F strip
F position	F strip_whitespace
D privatecodes	F stripelement
F privatetoken	F stripleadingspaces
F process	F table
F process_attributes	F text
F process_elements	F textonly
F processattributes	F texttocdata
T profiled	F tocdata
F pure	F toelement
F pushmatch	F tostring
F raw	F totable
F registerentity	F toxml
F registers	F tprint
F reindex	F traverse
F remap_name	F unescaped
F remap_namespace	U unescapedentitylpeg
F remap_tag	F unprivatized
F remapname	F unspecialized
F remapnamespace	F wipe
F remaptag	F withelement
F rename	F withelements
F renamespace	F wrap
U reparsedentitylpeg	T xmlns
F replace	F xpcall
F replace_element	T zip
F resetinjectors	T archives
F resolvens	F closearchive
F root	F openarchive
F save	T registeredfiles
F selection	F inspect
F separate	F ipairs
F serialize	F load
F serializetotext	D loaders

F loadfile  
 F loadstring  
 F next  
 F optionalrequire  
 F pairs  
 F pcall  
 F print  
 F rawequal  
 F rawget  
 F rawlen  
 F rawset  
 F require  
 F select  
 F setinspector  
 F setmathparameters  
 F setmetatable  
 D texconditionals  
 D texconstants  
 D texifs  
 D texisdefined  
 D texmodes  
 D texsystemmodes  
 F toboolean  
 F todecimal  
 F tonumber  
 F tostring  
 F type  
 F unpack  
 F warn  
 F xpcall

## globals

table

N CONTEXTLMTXMODE  
 N LUAFORMAT  
 N LUAMAJORVERSION  
 N LUAMINORVERSION  
 S LUATEXENGINE  
 N LUATEXFORMATID  
 N LUATEXFUNCTIONALITY  
 S LUATEXVERBOSE  
 N LUATEXVERSION  
 N LUAVERSION  
 F SAVEDREQUIRE  
 F assert  
 F characterkern

F collectgarbage  
 F dimen  
 F dofile  
 F error  
 F getmetatable  
 F inspect  
 F ipairs  
 F load  
 D loaders  
 F loadfile  
 F loadstring  
 F next  
 F optionalrequire  
 F pairs  
 F pcall  
 F print  
 F rawequal  
 F rawget  
 F rawlen  
 F rawset  
 F require  
 F select  
 F setinspector  
 F setmathparameters  
 F setmetatable  
 D texconditionals  
 D texconstants  
 D texifs  
 D texisdefined  
 D texmodes  
 D texsystemmodes  
 F toboolean  
 F todecimal  
 F tonumber  
 F tostring  
 F type  
 F unpack  
 F warn  
 F xpcall

## graphics

table

F bpsize  
 F identify  
 F registerpdfcompactor  
 F registerpdffont

<b>gzip</b>	table	D constants	
F compress		D corenamespaces	
F compressed		S currentinterface	
F decompress		S currentresponse	
F load		F definecommand	
F save		F defined	
F suffix		F doifelsemessage	
<b>helper</b>	table	D elements	
F getprofile		D formats	
F mathnested		F getmessage	
F mathprocess		F getnamespace	
F mathstep		F getsetupstring	
F snapindeed		D hashedsetups	
F snaplist		F implement	
F traversecharmmethod		F interfacedcommand	
F traverseglyphmethod		F knownscanner	
F traversehorizontal		F message	
F traversevertical		F nameofscanner	
<b>images</b>	table	F registernamespace	
F check		F registerscanner	
F checksize		D scanners	
F copy		F setconstant	
F create		F setcount	
F embed		F setdimen	
F embedfromstore		F setelement	
F fetchdata		F setformat	
F print		F setmacro	
F resetdata		F setmessage	
F resetstore		F setmessages	
F scan		F settranslation	
F serialize		D setupstrings	
F storedata		F setvariable	
F totable		F showmessage	
F wrap		D storedscanners	
<b>inspect</b>	function	F tolist	
<b>interactions</b>	table	D translations	
D attachments		D usednamespaces	
D linkedlists		D variables	
D renderings		F writestatus	
<b>interfaces</b>	table	<b>io</b>	table
D cachedsetups		F ask	
F cachesetup		F bytes	
F checkedspecification		F characters	
D complete		F close	

F copydata  
 F exists  
 S fileseparator  
 F flush  
 F gobble  
 F input  
 F lines  
 F loadchunk  
 F loaddata  
 F loadlines  
 F newreader  
 F noflines  
 F open  
 F output  
 S pathseparator  
 F popen  
 F read  
 F readall  
 F readnumber  
 F readstring  
 F savedata  
 F size  
 U stderr  
 U stdin  
 U stdout  
 F tmpfile  
 F type  
 F write

**ipairs**                   function  
**job**                       table

F comment  
 F disablesave  
 F getrandomseed  
 F initialize  
 F load  
 F loadother  
 B pack  
 N packversion  
 F register  
 F save  
 N version

**kpse**                    table  
**language**               table

F clean

F clearhyphenation  
 F clearpatterns  
 F current  
 F gethjcode  
 F has\_language  
 F hyphenate  
 F hyphenation  
 F hyphenationmin  
 F id  
 F new  
 F patterns  
 F postexhyphenchar  
 F posthyphenchar  
 F preexhyphenchar  
 F prehyphenchar  
 F sethjcode  
 F setwordhandler

**languages**               table

F addgoodiesdata  
 F addgoodiesfile  
 F associate  
 D associated  
 F association  
 D counters  
 F current  
 D data  
 D decimals  
 F define  
 F explicithyphen  
 F exportlanguage  
 F flatten  
 F getdata  
 F getmetadata  
 F getnumber  
 F goodiefiles  
 F hyphenate  
 F installed  
 F installhandler  
 F loadable  
 F loadwords  
 F nofflattened  
 D numbers  
 F pdflanguage  
 F postexhyphenchar

F posthyphenchar  
F preexhyphenchar  
F prehyphenchar  
D registered  
F serializediscretionary  
F setexceptions  
F setgoodieshandler  
F setoptions  
F setpatterns  
F setsynonym  
F setwordhandler  
F showdiscretionaries  
F strippedgoodiewords  
F tolang  
F unload  
N version  
F visualizediscretionaries

**layouts** table

F getcanvas  
F getpagedimensions  
F setupcanvas

**lfs** table

F attributes  
F chdir  
F currentdir  
F dir  
F isdir  
F isfile  
F isfound  
F isreadabledir  
F isreadablefile  
F iswriteabledir  
F iswriteablefile  
F link  
F mkdir  
F mkdirs  
F modification  
F readlink  
F rmdir  
F setexecutable  
F symlink  
F symlinktarget  
F touch  
F walkdir

**libraries**

D basiclua  
D basictex  
D builtin  
D extralua  
D extratex  
D functions  
D globals  
D obsolete  
D optional

**ltx**

F color  
F convert  
F convertfile  
F convertstring  
F einject  
F eprint  
F escape  
F finalized  
F finject  
F fprint  
F get  
F getvariables  
F htmfile  
F include  
F initialize  
F inject  
F ltxfile  
F loadedfile  
F make  
F new  
F popupfile  
F print  
F pv  
F report  
F reset  
F result  
F set  
F show  
F stripcss  
F tv  
F type  
F urlescape  
F variable

table

table

<b>load</b>	function	F texerrormessage	
<b>loaders</b>	data table	F writer	
<b>loadfile</b>	function	<b>lpdf</b>	table
<b>loadstring</b>	function	F action	
<b>logs</b>	table	F adddocumentcolorspace	
F application		F adddocumenttextgstate	
F categories		F adddocumentpattern	
F direct		F adddocumentshade	
F disable		F addtocatalog	
F enable		F addtoinfo	
F finalactions		F addtonames	
F flush		F addtopageattributes	
F loggingerrors		F addtopageresources	
F messenger		F addtopagesattributes	
F new		F addxmpinfo	
F newline		F annotationspecification	
F poplogfile		F array	
F poptarget		F attachmentsymbols	
F pushlogfile		F boolean	
F pushtarget		F border	
F registerfinalactions		F checkedkey	
F report		F checkedresources	
F reporter		F checkedvalue	
F resetlogfile		F circularshade	
F setformats		F close	
F setformatters		F cmykcode	
F setlogfile		F collectedresources	
F setmessenger		F color	
F setprocessor		F colorspace	
F settarget		D colorspaceconstants	
F settimedlog		F colorspec	
F settranslations		F colorvalue	
F show		F colorvalues	
F start_page_number		F commentsymbols	
F start_run		F compressdata	
F starterrorlogging		F compresslevel	
F startfilelogging		F constant	
F status		F copyarray	
F stop_page_number		F copyboolean	
F stoperrorlogging		F copyconstant	
F stopfilelogging		F copydictionary	
F subdirect		F copyfloat	
F subreport		F copyinteger	
F system		F copynumber	

F copystring	F insertxmpinfo
F copyunicode	F lastreferredpage
F deferredobject	F layerreference
F delayedobject	F limited
F destinationspecification	F linearshade
F dictionary	F literal
F docstring	F majorversion
F escaped	F makenametree
F finalizeddocument	F minorversion
F finalizepage	F nofontregistries
F finalizesignature	F nopages
F finishtransparencycode	F null
F flushfonts	F number
F flushgroup	F object
F flushobject	F objectcompresslevel
F flushstreamfileobject	F pagereference
F flushstreamobject	F patternstream
D formats	F pdfcolor
F frombytes	F pdftimestamp
F fromeight	F preparesignature
F frompdfdoc	F print
F fromsixteen	F procset
F getcatalog	B protectresources
F getcompression	F quads
F getfontname	F rectangle
F getfontobjectnumber	F reference
F getformatoption	F registerannotation
F getinfo	F registerdestination
F getmatrix	F registerdocumentfinalizer
F getnofpages	F registerfontmethod
F getpageproperties	F registerinitializer
F getpagereference	F registerpagefinalizer
F getpagetags	F registerpattern
F getpos	F registersignature
F gettaggingstatus	F replacexmpinfo
F gettrailerid	F reserveobject
F getversion	F rgbcode
F getxformname	F rotationcm
F graycode	F setcompression
F hasmatrix	F setencryption
F immediateobject	F setpageorder
F includeimage	F setpagestate
F initialize	F setpagetag
F injectxmpinfo	F setutfstringmode

F setversion  
F sharedobject  
F shareobject  
F shareobjectreference  
F splitsixteen  
F spotcode  
F stream  
F string  
F supportedformats  
F tocidset  
F toeight  
F topdfdoc  
F topermissions  
F tosixteen  
F transparency  
F transparencycode  
F transparencyvalue  
F unicode  
D usedfontstreams  
F verbose

## **lpeg** table

F B  
F C  
F Carg  
F Cb  
F Cc  
F Cf  
F Cg  
F Cmt  
F Cp  
F Cs  
F Ct  
F P  
F R  
F S  
F UP  
F UR  
F US  
F V  
F afterprefix  
F anywhere  
F append  
F balancer  
F beforesuffix

F checkedsplit  
F containsws  
F counter  
F endstripper  
F finder  
F firstofsplit  
F frontstripper  
F instringchecker  
F is\_lpeg  
F keeper  
F locale  
F match  
F oneof  
D patterns  
F pcode  
F print  
F ptree  
F replacer  
F secondofsplit  
F setmaxstack  
F setutfcasers  
F split  
F splitat  
F splitter  
F stripper  
F times  
F tsplitat  
F tsplitter  
F type  
F utfR  
F utfchartabletopattern  
F utfreplacer  
S version

## **lua** table

F addnibble  
D bytedata  
F callbytecode  
F comparekeys  
F finalizeinitex  
N firstbytecode  
F get\_functions\_table  
F getallkeys  
F getbytecode  
F getcheckedkeys

F getcurrenttime  
 F getdebuginfo  
 F getexitcode  
 F getfunctionstable  
 F getnibble  
 F getnumerickeys  
 F getpreciseseconds  
 F getpreciseticks  
 F getruntime  
 F getstacktop  
 F getstartupfile  
 F getstringkeys  
 F getversion  
 N lastbytecode  
 D messages  
 F newindex  
 F newtable  
 D numbers  
 F protectglobal  
 F registercode  
 F registeredcodes  
 F registerglobal  
 F registerinitexfinalizer  
 F registername  
 F setbytecode  
 F setexitcode  
 F setnibble  
 S startupfile  
 F subnibble  
 S version

**luac** table

F inspect  
 F print

**luatex** table

F abort  
 F cleanup  
 F cleanuptempfiles  
 F currentfile  
 F currentlevel  
 F currenttotal  
 F poprunstate  
 F pushrunstate  
 F registerdumpactions  
 F registerpageactions

F registerstartactions  
 F registerstopactions  
 F registertempfile  
 N starttime  
 F wrapup

**lxml** table

F addindex  
 F all  
 F applyfunction  
 F applyselectors  
 F att  
 F attribute  
 F badinclusions  
 F chainattribute  
 F checkindex  
 F collected  
 F command  
 F concat  
 F concatrange  
 F content  
 F context  
 F convert  
 F count  
 F delete  
 F depth  
 F direct  
 F displayverbatim  
 F doif  
 F doifelse  
 F doifelsempty  
 F doifelsetext  
 F doifempty  
 F doifnot  
 F doifnotempty  
 F doifnottext  
 F doiftext  
 F element  
 F elements  
 D entities  
 F fileline  
 F filename  
 F filter  
 F filterlist  
 F first

F flush	F removesetup
F flushlinewise	F replace
F flushsetups	F resetcdata
F flushspacewise	F resetsetups
F get_id	F resolvedentity
F getid	F root
F getindex	F save
F id	F serialize
U idsplitter	F setaction
F ifatt	F setatt
F ifattempty	F setattribute
F include	F setcdata
F inclusion	F setcommandtonone
F inclusions	F setcommandtotext
F index	F setpar
F inlineverbatimim	F setparam
F installsetup	F setparameter
F last	F setsetup
F lastatt	F snippet
F lastmatch	F splitid
F lastpar	F startraw
F load	F startunesescaped
F loadbuffer	F stopraw
F loaddata	F stopunesescaped
F main	F store
F match	F strip
F name	F stripped
F namespace	F tag
F nonspace	F texatt
F par	F text
F param	F tobuffer
F parameter	F tofile
F path	F toparameters
F popmatch	F toverbatimim
F pos	F verbatimim
F position	F withindex
F pure	D xmltexhandler
F pushmatch	<b>math</b>
F raw	F abs
F rawroot	F acos
F rawtex	F asin
F refatt	F atan
F register	F atan2
F registerentity	F ceil
	<b>table</b>

F ceiling  
F cos  
F cosd  
F cosh  
F deg  
F div  
F even  
F exp  
F floor  
F fmod  
F frexp  
N huge  
N initialseed  
F ldexp  
F log  
F log10  
F max  
N maxinteger  
F min  
N mininteger  
F mod  
F modf  
F odd  
N pi  
F pow  
F rad  
F random  
F randomseed  
F round  
F setrandomseedi  
F sin  
F sind  
F sinh  
F sqrt  
F tan  
F tand  
F tanh  
F tointeger  
F type  
F ult

## mathematics

## table

F addfallbacks  
F addvariant  
D alphabets

D alternatives  
F beforepassingfonttotex  
F big  
D boldmap  
D charactersets  
F checkaftercopyingfont  
D classes  
D classnames  
D codes  
F define  
F dimensions  
F disablecollecting  
F enablecollecting  
F extensiblecode  
D extensibles  
N extrabase  
F fallbackstyleattr  
F familyname  
F functiontype  
D gaps  
F getblobindex  
F getboth  
F getdomainname  
F getextensibledata  
F getmathblob  
F getoptionallabel  
F getstyle  
F gettextblob  
F getverboselabel  
F horizontalcode  
F initializeparameters  
F makefont  
D mapremap  
F markblobindexdone  
F overloadparameters  
F preset  
N privatebase  
F registerextensible  
F registersimplematrix  
F registerverboselabel  
F remapalphabets  
F renderextensible  
F renderset  
F resetattributes

F scaleparameters  
 F setextensibledata  
 F setmathsymbol  
 D sets  
 F setsnapping  
 F setvariant  
 F strutcode  
 D styles  
 F syncboth  
 F syncname  
 F syncstyle  
 F toengineclass  
 F toname  
 F tostyle  
 F tweakaftercopyingfont  
 F tweakbeforecopyingfont  
 F utfmathaccent  
 F utfmathclass  
 F utfmathcommand  
 F utfmathfiller  
 F utfmathstretch  
 F variantcode  
 F variantcount  
 F virtualize  
 D virtualized

**md5** table

F HEX  
 F dec  
 F hex  
 F sum  
 F sumHEXA  
 F sumhexa

**metapost** table

F checkformat  
 F checktracingonline  
 F cm  
 F colorinitializer  
 F convert  
 F currentmpx  
 F currentmpxstatus  
 S defaultformat  
 S defaultinstance  
 S defaultmethod  
 F directrun

F escaped  
 D extensiondata  
 F filter  
 F filterclippath  
 F flush  
 F flushnormalpath  
 F format\_number  
 F format\_string  
 F formatnumber  
 F getbackendooption  
 F getbendtolerance  
 F getbuffer  
 F getclippath  
 F getextensions  
 F getextradata  
 F gethashentries  
 F getinstancebyname  
 F getinstanceinfo  
 F getinstancenames  
 F getjobdata  
 F getmovetolerance  
 F getparameter  
 F getparameterpreset  
 F getparameterreset  
 F getrecord  
 F getstatistics  
 F gettext  
 F gettolerance  
 F graphic  
 F graphic\_base\_pass  
 F hascurvature  
 F includesvgbuffer  
 F includesvgfile  
 F installplugin  
 F isobject  
 S lastlog  
 F load  
 F maketext  
 F mesh  
 F mesher  
 F meshupper  
 N n  
 F newlogger  
 N nofruns

F nofscriptruns	F setparameterreset
F nvformat	F setrecord
F pdfliterals	F setttext
F pluginactions	F settolerance
F popformat	F setvariable
F popscriptrunner	B showlog
F popvariable	F showsvgpage
F popvariables	F simple
F preparetextstextsdata	F splitprescript
F process	F startgraphic
F processing	F startsvghashing
F processplugins	F stopgraphic
F pushformat	F stopsvghashing
F pushscriptrunner	F svformat
F pushvariable	B svgcachefile
F pushvariables	F svgcolorremapper
B quitonerror	F svgglyphtomp
B reducetogray	F svgshapestomp
F registerdirect	F svgshapestopdf
F registerfilter	F svgsplitcolor
F registermesher	F svgtomp
F registermeshupper	F svgtopdf
F registerscript	F sxsy
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F reportsvgfonts	F totable
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F resetplugins	<b>mime</b>
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D back-exp-imp-fnt		D font-ctx
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D back-exp-imp-ref		D font-dsp
D back-exp-imp-tag		D font-enc
D back-imp-lua		D font-enh
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D back-imp-pdp		D font-hsh
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D buff-imp-default		D font-imp-compound
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D buff-imp-nested		D font-imp-italics
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D math-frc	D node-rul
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D math-mps	D pack-obj
D math-noa	D pack-ori
D math-pre	D pack-rul
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D math-txt	D page-inj
D math-vfu	D page-ins
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D mlib-lmt	D publ-oth
D mlib-lua	D publ-reg
D mlib-mat	D publ-sor
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D mlib-msh	D publ-usr
D mlib-pdf	D regi-ini
D mlib-pos	D scrn-but
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D scrn-ref	D tabl-tbl
D scrn-wid	D tabl-xtb
D scrp-cjk	D task-ini
D scrp-eth	D trac-blđ
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D sort-ini	D trac-sig
D sort-lan	D trac-vis
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D spac-brk	D typo-adj
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D spac-hor	D typo-brk
D spac-ovl	D typo-cap
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D spac-prf	D typo-dha
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D spac-ver	D typo-dig
D strc-bkm	D typo-dir
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D strc-doc	D typo-fkr
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D strc-ini	D typo-hid
D strc-itm	D typo-inj
D strc-lev	D typo-itc
D strc-lst	D typo-krn
D strc-mar	D typo-lan
D strc-mat	D typo-lbx
D strc-not	D typo-man
D strc-num	D typo-mar
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D strc-ref	D typo-pag
D strc-reg	D typo-par
D strc-rsc	D typo-pnc
D strc-syn	D typo-prc
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D symb-emj	D typo-spa
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F fill		F mf_blob_raw_reset
F fillbytemap		F mf_blob_raw_toutf
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F lmt_glyphshape_baseline		F mf_save_data
F lmt_glyphshape_boundingbox		F mf_script_index
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F lmt_glyphshape_italic		F mode
F lmt_glyphshape_llx		F n
F lmt_glyphshape_n		F newbytemap
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F lmt_glyphshape_start		F numeric
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F lmt_glyphshape_usedbox		F pairpoints
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F quadruple	F getscaledbits
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F downsamplebytemap	F injectpath
F execute	F injectstring
F expandtex	F injecttransform
F fillbytemap	F injectvector
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F finish	F injectwhatever
F getbytemap	F new
F getbytemapdata	F newbytemap
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F getcallbackstate	F processbytemap
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F getcolormodels	F scanboolean
F getfields	F scancmykcolor
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F getlastadddtype	F scannumber
F getlogtargets	F scannumeric
F getobjectdata	F scanpair
F getobjectpeninfo	F scanpath
F getobjectstacking	F scanpen
F getobjecttypes	F scanproperty
F getprimitivelegacies	F scanstring
F getprimitiveorigins	F scansymbol
F getprimitives	F scantoken
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F setbytemap		F hpack
F setbytemapoctave		F hyphenating
F settolerance		F id
F showcontext		F insertafter
F skiptoken		F insertbefore
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F version		F intracking
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F getmathmode		F lastnode
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F checkdiscretionaries		F new
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F copypoint		F protrusionskippable
F count		F rangedimensions
F currentattributes		F remove
F dimensions		F serialized
F effectiveglue		F setattribute
F endofmath		F setfield
F family_font		F setfielderror
F fields		F setglue
F findattribute		F setproperty
F flattendiscretionaries		F show
F flushlist		F size
F flushnode		F slide
F free		F subtypes
F getattribute		F tail
F getcachestate		F todirect
F getfield		F tonode
F getfielderror		F toString
F getglue		F traverse
F getnodeerrorvalues		F traverseid
F getpropertystable		F type
F getproperty		F types
F gluetostr		F unprotectglyph
F hasattribute		F unprotectglyphs
F hasfield		F unsetattribute
F hasglyph		F usedlist

F usesfont	F getleader
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F write	F getnext
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	F getproperty
D accentcodes	F getsubtype
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F basepoints	F idsandsubtypes
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D choicecodes	F insertafter
F concat	F insertbefore
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F copyleft	F is_display_math
F countall	F isdirect
F currentattributes	F isnode
F delete	F isnut
D dircodes	D kerncodes
D directioncodes	F leftmarginwidth
D directionvalues	F link
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D discretionarycodes	D listcodes
D fencecodes	F listtoutf
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F firstdirinbox	D mathcodes
F flush	D mathvalues
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F setattribute	F toutf
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F setchar	F usedlist
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F setnext	F write
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F somespace	F formatted
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F takeattr	F nopts
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F tociceros	F points
F todidots	F pts
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F sparseexponent  
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F to16dot16  
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F toinches  
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F getnamevalues  
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F nofdays  
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S selfcore  
S selfdir  
S selflink  
S selfname  
S selfpath  
F serialwrite  
F setenv  
F setexitcode  
F setlocale  
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F getfromarray		F togray	
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F \_\_shr  
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F \_\_unm  
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F asin  
F atan  
F band  
F bor  
F bxor  
F ceil  
F conj  
F copy  
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F expand  
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F frombyte  
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F rotate  
F round  
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F concat  
F contourplot  
F convert  
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F stripped  
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F findlib	F openbinfile
F findpath	D openers
F findpk	F openfile
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F findwildcardfile	S ownpath
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F formatofvariable	F poppath
D formats	D prefixes
F foundintree	F prependhash
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D generators	F pushinputname
F get_from_content	F pushpath
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F getenv	F registerfile
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F getreadfilename	D relations
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F loadlua-lib	F showdetails
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 F splitconfigurationpath  
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 F splitmethod  
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F initialize		F nospaces
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F synchronize		F packrowscolumns
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F autosingle		F quoted
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F bytepairs		F reverse
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F bytetable		F splitintolines
F char		F splitlines
F characterpairs		F splitup
F characters		F strip
F checkedsplit		F sub
F chrtointeger		F texhashed
F collapsespaces		F texnewlines
F containsws		F tformat
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F find		F tohex
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F getinputstatefile	F getmathparametervalues
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F getinsertlimit	F getmathvariantvalues
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F getinsertoptionvalues	F getmode
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F getinsertwidth	F getmuglue
F getintegervalue	F getmuskip
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F getkerneloptionvalues	F getnestlevel
F getkernoptionvalues	F getnoadooptionvalues
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F getlccode	F getnormalizeparvalues
F getlinebreakparameterfields	F getnospacesmodevalues
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F getpardataspecifications	D insertoptioncodes
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F getparmodevalues	F integerdef
F getparstate	D interactioncodes
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F getpartriggervalue	F isbox
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F getprepoststatevalues	F isdimen
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F getprotrusionboundaryvalues	F ismuglu
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F getruleoptionvalues	F isprintable
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F positdef	F setinputstateline
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F print	F setinsertdistance
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N prtcategories	F setinsertmaxplaced
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F pushesavelevel	F setintegervalue
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D textcontrolcodes		<b>thirddata</b>	table
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F get_primitive	F inhibit
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F get_tok	F is_token
F get_tolerant	F isactivestring
F getactive	F isdefined
F getcmdchrcs	F isnextchar
F getcmdname	F istoken
F getcommand	F locatemacro
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F getconstant	F peek_next
F getcsname	F peek_next_char
F getcstoken	F peek_next_expanded
F getdimension	F peeknext
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F getexpansion	F peeknextexpanded
F getfields	F pop_macro
F getflags	F popmacro
F getfrozen	F push_macro
F getfunctionvalues	F pushmacro
F getid	F put_back
F getimmutable	F put_next
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F getinstance	F putnext
F getinteger	F save_lua
F getlength	F savelua
F getmacro	F scan_argument
F getmeaning	F scan_box
F getnoaligned	F scan_cardinal
F getparameters	F scan_char
F getpermanent	F scan_cmdchr
F getprimitive	F scan_cmdchr_expanded
F getprimitives	F scan_code
F getprotected	F scan_csname
F getrange	F scan_delimited
F gettok	F scan_dimen
F gettolerant	F scan_float
F gobble	F scan_glue
F gobble_dimension	F scan_integer
F gobble_integer	F scan_key
F gobbledimension	F scan_keyword
F gobbleinteger	F scan_keyword_cs
F grab	F scan_letters

F scan_luacardinal	F scannextchar
F scan_luainteger	F scannextexpanded
F scan_luanumber	F scanposit
F scan_next	F scanreal
F scan_next_char	F scanscale
F scan_next_expanded	F scanskip
F scan_real	F scanstring
F scan_scale	F scantoken
F scan_skip	F scantokencode
F scan_string	F scantokenlist
F scan_token	F scantokenstring
F scan_token_code	F scantoks
F scan_tokenlist	F scanvalue
F scan_toks	F scanword
F scan_value	F serialize
F scan_word	F set_dimension
F scanargument	F set_integer
F scanbox	F set_lua
F scancardinal	F set_macro
F scanchar	F setdimension
F scancmdchr	F setinteger
F scancmdchrexplanded	F setlua
F scancode	F setmacro
F scanscname	F setmacrofrommark
F scanctestoken	F setmacrotonothing
F scandelimited	F skip_next
F scandetokened	F skip_next_expanded
F scandimen	F skipnext
F scandimenargument	F skipnextexpanded
F scandimension	F type
F scandimensionargument	F undefine_macro
F scanfloat	F undefinemacro
F scanglue	
F scanint	
F scaninteger	
F scanintegerargument	
F scankey	
F scankeyword	
F scankeywordcs	
F scanletters	
F scanluacardinal	
F scanluainteger	
F scanluanumber	
F scannext	

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F compile
F constant
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F gobble
F isactivestring

F isdefined		F escape	
F istoken		F filename	
F new		F hashed	
F pickup		F hasscheme	
F popmacro		F query	
F pushmacro		F split	
F setinteger		F toquery	
D values		F unescape	
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F printwarning		F bytepairs	
F showlines		F char	
<b>trackers</b>	table	F characters	
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F disable		F filetype	
F dumphashtofile		F is_valid	
F enable		F len	
F list		F length	
S name		F lower	
F register		F remapper	
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F reset		F split	
F savehash		F splitlines	
F show		F sub	
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F values		F tocodes	
<b>type</b>	function	F toeight	
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F apply		F utf16_to_utf8_be_t	
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F barepath		F utf32_to_utf8_be	
F construct		F utf32_to_utf8_be_t	
F decode		F utf32_to_utf8_le	
F encode		F utf32_to_utf8_le_t	

F utf32\_to\_utf8\_t  
F utf8\_to\_utf16  
F utf8\_to\_utf16\_be  
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F values  
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S charpattern  
F codepoint  
F codes  
F len  
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F append  
F average  
F ceiling  
F checkoverlap  
F collectoverlap  
F concat  
F copy  
F crossproduct  
F delete  
F determinant  
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F exchange  
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F get  
F getdimensions  
F getepsilon  
F getmemory  
F getmesh  
F getrc  
F getrow  
F getsize  
F getstacking  
F gettype  
F homogenize  
F identity  
F inner

F insert  
F inverse  
F ismesh  
F ispoints  
F issingular  
F isvector  
F iszero  
F meshname  
F mul  
F negate  
F new  
F normalize  
F onecolumn  
F onerow  
F product  
F remove  
F replace  
F round  
F rowechelon  
F set  
F setepsilon  
F setnext  
F setrc  
F setstacking  
F slice  
F sort  
F sub  
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D escapepatterns  
F getspecification  
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F makepattern  
F newgrammar  
F newhandler  
F parsedxml

F pattern  
 F register  
 F registerescapecommand  
 F registerescapepline  
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 S signal  
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 D specifications  
 F visualize  
 F visualizebuffer  
 F visualizefile  
 F visualizestring  
 F write  
 F writeargument  
 F writedefault  
 F writeemptyline  
 F writenewline  
 F writespace

**warn**

**xcomplex**

F I  
 F \_\_add  
 F \_\_div  
 F \_\_eq  
 F \_\_mul  
 S \_\_name  
 F \_\_pow  
 F \_\_sub  
 F \_\_tostring  
 F \_\_unm  
 F abs  
 F acos  
 F acosh  
 F arg  
 F asin  
 F asinh  
 F atan  
 F atanh  
 F conj  
 F cos  
 F cosh  
 F dawson  
 F erf  
 F erfc

**function**

**table**

F erfcx  
 F erfi  
 F exp  
 F i  
 F imag  
 F log  
 F new  
 F pow  
 F proj  
 F real  
 F sin  
 F sinh  
 F sqrt  
 F tan  
 F tanh  
 F topair  
 F toString  
 F totable  
 F voigt  
 F voigt\_hwhm

**xdecimal**

F \_\_add  
 F \_\_band  
 F \_\_bor  
 F \_\_bxor  
 F \_\_div  
 F \_\_eq  
 F \_\_idiv  
 F \_\_le  
 F \_\_lt  
 F \_\_mod  
 F \_\_mul  
 S \_\_name  
 F \_\_pow  
 F \_\_shl  
 F \_\_shr  
 F \_\_sub  
 F \_\_tostring  
 F \_\_unm  
 F abs  
 F band  
 F bor  
 F bxor  
 F conj

**table**

F copy  
F exp  
F getprecision  
F ln  
F log  
F max  
F min  
F minus  
F new  
F plus  
F pow  
F rotate  
F setprecision  
F shift  
F sqrt  
F toengstring  
F tonumber  
F tostring  
F trim

**xinterval**

**table**

F \_\_add  
F \_\_div  
F \_\_eq  
F \_\_le  
F \_\_lt  
F \_\_mod  
F \_\_mul  
S \_\_name  
F \_\_pow  
F \_\_sub  
F \_\_tostring  
F \_\_unm  
F abs  
F acos  
F acosh  
F asin  
F asinh  
F asstring  
F atan  
F atanh  
F cos  
F cosh  
F diameter  
F equal

F erf  
F erfc  
F exp  
F exp10  
F exp2  
F expm1  
F greater  
F greaterequal  
F hull  
F intersect  
F less  
F lessequal  
F log  
F log10  
F log1p  
F log2  
F mid  
F mod  
F new

F neweps  
F pow  
F seteq  
F setge  
F setgt  
F setle  
F settl  
F sin  
F sinh  
F sqr  
F sqrt  
F tan  
F tanh  
F topair  
F tostring  
F totable  
F usedendian  
F within

**xmath**

**table**

F acos  
F acosh  
F asin  
F asinh  
F atan  
F atan2

F atanh  
 F cbrt  
 F ceil  
 F copysign  
 F cos  
 F cosh  
 F crossproduct  
 F deg  
 F dotproduct  
 F erf  
 F erfc  
 F exp  
 F exp2  
 F expm1  
 F fabs  
 F fdim  
 F floor  
 F fma  
 F fmax  
 F fmin  
 F fmod  
 F frexp  
 F gamma  
 F hypot  
 N inf  
 F isfinite  
 F isinf  
 F isnan  
 F isnormal  
 F j0  
 F j1  
 F jn  
 F ldexp  
 F lgamma  
 F log  
 F log10  
 F log1p  
 F log2  
 F logb  
 F modf  
 N nan  
 F nearbyint  
 F nextafter  
 F normalize

N pi  
 F pow  
 F rad  
 F remainder  
 F remquo  
 F round  
 F scalbn  
 F sin  
 F sinh  
 F sqrt  
 F tan  
 F tanh  
 F tgamma  
 F trunc  
 F y0  
 F y1  
 F yn

**xml**

**table**

F addentitiesdoctype  
 F addspecialcode  
 F after  
 F all  
 F applylpath  
 F applyselector  
 F assign  
 F attribute  
 F badinclusions  
 F before  
 F body  
 F cdata  
 F cdatatotext  
 F checkbom  
 F checkedempty  
 F checkerror  
 F checknamespace  
 F checkns  
 F cleansed  
 F collect  
 F collect\_elements  
 F collect\_tags  
 F collect\_texts  
 F collected  
 F collecttexts  
 F compactelement

F content	F insertcdata
F convert	F insertcomment
F copy	F inspect
F count	F is_valid
F cprint	F kind
S defaultprotocol	F last
F delete	F lastmatch
F delete_element	F load
F despecialized	F lpath
F each	F lpathcached
F each_element	F lpathcalls
F elements	F lshow
F elementtocdata	F makestandalone
F empty	F match
D entities	F name
F erase	F newhandlers
F errorhandler	F nodesettostring
F escaped	F originalload
F expand	F package
F fillin	F parent
F filter	U parsedentitylpeg
F first	F popmatch
F found	F position
F getbuffer	D privatecodes
F gethandlers	F privatetoken
F gethandlersfunction	F process
F include	F process_attributes
F inclusion	F process_elements
F inclusions	F processattributes
F index	F pure
F inheritattributes	F pushmatch
F inheritedconvert	F raw
F inject	F registerentity
F inject_element	F registerns
F inject_element_after	F reindex
F inject_element_before	F remap_name
F injectafter	F remap_namespace
F injectbefore	F remap_tag
F insert	F remapname
F insert_element	F remapnamespace
F insert_element_after	F remaptag
F insert_element_before	F rename
F insertafter	F renamespace
F insertbefore	U reparsedentitylpeg

F replace  
F replace\_element  
F resetinjectors  
F resolvens  
F root  
F save  
F selection  
F separate  
F serialize  
F serializetotext  
F setcdata  
F setcomment  
F sethandlersfunction  
F setinjectors  
F setproperty  
F settings  
D specialcodes  
F sprint  
F string  
F strip  
F strip\_whitespace  
F stripelement  
F stripleadingspaces  
F table  
F text  
F textonly  
F texttocdata  
F tocdata  
F toelement  
F tostring  
F totable  
F toxml  
F tprint  
F traverse  
F unescaped  
U unescapedentitylpeg  
F unprivatized  
F unspecialized  
F wipe  
F withelement  
F withelements  
F wrap

**xpcall**                   function  
**xzip**                     table

F adler32  
F compress  
F compresssize  
F crc32  
F decompress  
F decompresssize

**zbuffer**                   table

F bounds  
F composite  
F crop  
F edgepoint  
F flatten  
F get  
F getcolor  
F getdepth  
F getnormal  
F getopacity  
F getsize  
F implicit  
F iszbuffer  
F meshmesh  
F new  
F points  
F process  
F project  
F resolve  
F set  
F setcolor  
F setdepth  
F setnormal  
F setopacity  
F setup  
F smoothen  
F stipple\_0  
F stipple\_1  
F stipple\_2  
F stipple\_3  
F stipple\_4  
F stipple\_setup  
F tobytes  
F tostring  
F totable  
F transform  
F trianglebounds

F triangles  
F type  
**zip** table  
F closearchive  
F openarchive  
**zlib** table

F adler32  
F compress  
F compresssize  
F crc32  
F decompress  
F decompresssize

# globals (context)

<b>CONTEXTLMTXMODE</b>	number	D values	
<b>LUAFORMAT</b>	number	<b>backends</b>	table
<b>LUAMAJORVERSION</b>	number	F closeout	
<b>LUAMINORVERSION</b>	number	S current	
<b>LUATEXENGINE</b>	string	F getcallbackstate	
<b>LUATEXFORMATID</b>	number	F initialize	
<b>LUATEXFUNCTIONALITY</b>	number	F latelua	
<b>LUATEXVERBOSE</b>	string	F nothing	
<b>LUATEXVERSION</b>	number	F openout	
<b>LUAVERSION</b>	number	F setencryption	
<b>MP</b>	function	F writeout	
<b>SAVEDREQUIRE</b>	function	<b>basexx</b>	table
<b>aes</b>	table	F decode16	
F decode		F decode64	
F encode		F decode85	
F random		F decodeLZW	
<b>arg</b>	table	F decodeRL	
<b>assert</b>	function	F encode16	
<b>attributes</b>	table	F encode64	
F applyoverloads		F encode85	
F checkvalues		F encodeLZW	
D counts		F encodeRL	
F define		<b>bibtex</b>	table
F getvalue		<b>bit32</b>	table
F getvalues		F arshift	
F hasvalues		F band	
D list		F bnot	
F markasoverload		F bor	
D names		F btest	
D numbers		F bxor	
F ofnode		F extract	
F private		F lrotate	
F public		F lshift	
F registervalue		F replace	
F restore		F rrotate	
F save		F rshift	
F setcleaner		<b>bitset</b>	table
F showcurrent		F asstring	
F system		F get	
F tooverloads		F new	
N unsetvalue		F reset	

F set		F parpassidentifier	
F totable		D passnames	
F traverse		F registerpasspasscallback	
F wipe		<b>bytemap</b>	<b>table</b>
<b>blobs</b>	<b>table</b>	F bounds	
F append		F clip	
F dimensions		F copy	
F dispose		F dimensions	
F new		F domain	
F pack		F downgrade	
F strdp		F downsample	
F strhd		F fillgray	
F strht		F fillrgb	
F strwd		F filter	
F tohpack		F getbyte	
F tonodes		F getbytes	
F tovpack		F getvalue	
F write		F hasbytegray	
<b>boolean</b>	<b>table</b>	F hasbyterange	
F tocontext		F hasbytergb	
F tonumber		F new	
<b>buffers</b>	<b>table</b>	F newdomain	
F append		F overlay	
F assign		F process	
F collectcontent		F reduce	
F empty		F reset	
F erase		F setgray	
F exists		F setgrayadd	
F get		F setgraymin	
F getcontent		F setrgb	
F getctxlua		F slicegray	
F getlines		F slicerange	
F getmkvi		F slicergb	
F gettex		F totable	
F loadcontent		<b>caches</b>	<b>table</b>
F prepend		S base	
F raw		F collapsecontent	
F run		F configfiles	
F samplefile		F contentstate	
F splitsamplefile		F getfirstreadablefile	
F undent		F getreadablepaths	
<b>builders</b>	<b>table</b>	F getwritablepath	
F checkparcontext		F hashed	
F checksidefloat		F is_writable	

F loadcontent		D blocks
F loaddata		D can_have_space
S more		D categories
F savecontent		F category
F savedata		D categorytags
F setfirstwritablefile		D collapsed
F setluaname		D combined
F treehash		F contextname
F usedpaths		D csletters
<b>callback</b>	table	D data
F find		D decomposed
F getindex		F description
F getoptions		D descriptions
F getoptionvalues		D detailtags
F getstate		F emojiized
F getstatevalues		D encodes
F known		D entities
F list		D fallbacks
F names		D filters
F register		F fromnumber
F setoptions		D fschars
F setstate		D fscodes
F testonly		F getrange
F usage		D graphemes
<b>callbacks</b>	table	D hangul
F freeze		F initialize
F getcomment		D is_character
F getstates		D is_command
F known		D is_hyphenator
F optimizer		D is_letter
F pop		D is_mark
F push		D is_nothing
F register		D is_punctuation
F report		D is_spacing
<b>catcodes</b>	table	D is_symbol
D names		D lcchars
D numbers		F lccode
F register		D lccodes
<b>characterkern</b>	function	F lettered
<b>characters</b>	table	D lhash
F addcharacternames		D linebreaks
F adobename		F lower
D bidi		D mathlists
F blockrange		D otfscrips

D ranges  
F registerentities  
F remap\_hangul\_syllabe  
F setactivecatcodes  
F setlettercatcodes  
F setothercatcodes  
F shape  
F shaped  
D shash  
D shchars  
D shcodes  
F showstring  
D specialchars  
D specials  
D synonyms  
F tonumber  
D ucchars  
F uccode  
D uccodes  
D uhash  
F unicodechar  
F upper  
D verbosemarks

**chemistry**                    table

F component  
F define  
D definitions  
S format  
F inlinechemical  
S instance  
S method  
F molecule  
U moleculeparser  
F start  
F stop  
F undefine

**collectgarbage**            function

**commands**                    table

F Alphabetic  
F MPLIBconvertfollowtext  
F MPLIBconvertoutlinetext  
F MPc  
F MPd  
F MPfromhash

F MPh  
F MPLl  
F MPLr  
F MPLs  
F MPn  
F MPP  
F MPpadata  
F MPplus  
F MPpos  
F MPr  
F MPrest  
F MPrs  
F MPul  
F MPur  
F MPw  
F MPwhd  
F MPx  
F MPxy  
F MPxywhd  
F MPy  
F Romannumerals  
F actualday  
F actualmonth  
F actualyear  
F adaptfontfeature  
F adaptivecheckbox  
F addbtxentry  
F addcounter  
F adddefaultsuffix  
F addfeature  
F addfontpath  
F addgrapheme  
F addlinenumbers  
F addlinklistelement  
F addreplacements  
F addreplacementslist  
F addrivers  
F addtocolumnset  
F addtocolumnsetmvl  
F addtojavascriptpreamble  
F addtolist  
F align\_point\_delta  
F allinputpaths  
F alphabetic

F analysefloatmethod	F bitwiseshift
F analyzezeitemgroup	F bitwisexor
F analyzelist	F blockcolumnset
F analyzelocalanchors	F blockligatures
F analyzeregister	F boolcase
F analyzerotate	F boxdir
F analyzeupcomingitemgroup	F boxline
F applypattern	F boxlinedp
F applytobox	F boxlineht
F applytofirstcharacter	F boxlineil
F arraycompare	F boxlinein
F arrayequals	F boxlineir
F arraymaxvalue	F boxlinelh
F arrayminvalue	F boxlinelp
F arraysize	F boxlinels
F arrayvalue	F boxlinemaxdp
F ascender	F boxlinemaxht
F askedreference	F boxlinemaxwd
F assignbuffer	F boxlinend
F async	F boxlinenh
F attachinsertion	F boxlinew
F attachinsertions	F boxlinerh
F atwordboundary	F boxlinerp
F autofinishstructurelevels	F boxliners
F autoinsertnextspace	F boxlines
F automigrationcodestring	F boxlinewd
F autonextstructurelevel	F boxoptioncodestring
F autorule	F boxrangedp
F autosetups	F boxrangeht
F autostarttext	F boxrangewd
F autostoptext	F boxtostring
F badnessmodecodestring	F bposcolumn
F balanceshapeextra	F bposcolumnregistered
F benchmarktimer	F bs
F bf	F btxabbreviatedjournal
F bi	F btxaddentry
F bitmapimage	F btxaddjournal
F bitwise	F btxauthor
F bitwiseand	F btxauthorfield
F bitwiseflip	F btxauthorregister
F bitwisetil	F btxcmdstring
F bitwisenot	F btxcollectlistentries
F bitwiseor	F btxcurrentfirstnames
F bitwiseset	F btxcurrentinitials

F btxcurrentjuniors	F btxsingularorplural
F btxcurrentsurnames	F btxtoregister
F btxcurrentvons	F btxusedataset
F btxdetail	F btxuservariable
F btxdirect	F build_page_after_shipout
F btxdoif	F build_page_before_shipout
F btxdoifelse	F build_page_setup
F btxdoifelsecitedone	F capheight
F btxdoifelsecombiinlist	F charactercontrolcodestring
F btxdoifelsematches	F chardescription
F btxdoifelsesameasprevious	F checkcolumnset
F btxdoifelseuservariable	F checkcolumnsetmvl
F btxdoifnot	F checkcountersetup
F btxentrytobuffer	F checkedconversion
F btxentrytostring	F checkedemoji
F btxexpandedjournal	F checkedpagefloat
F btxfetchlistentries	F checkinjector
F btxfield	F checkinterfacechain
F btxfirstofrange	F checkmarkedpages
F btxflush	F checknesting
F btxflushlistcombi	F checkspacingavailable
F btxflushlistentry	F checkstrutdepth
F btxflushlisttag	F chemicalcomponent
F btxflushmarked	F chinesenumerals
F btxflushpages	F chr
F btxhandlecite	F classoptioncodestring
F btxhandlenocite	F cleancolumnset
F btxlastofrange	F cleanfontname
F btxlistvariant	F cleanupattributes
F btxloaddefinitionfile	F cleanupbox
F btxloadjournallist	F cleanuplayers
F btxloadreplacementfile	F clonefield
F btxmissing	F closein
F btxoneorrange	F closeout
F btxpreparelistentries	F codedef
F btxremapauthor	F collectedmath
F btxsavedataset	F collectfloat
F btxsavejournallist	F collecthelp
F btxsetdataset	F columnsetbalancefirst
F btxsetentry	F columnsetbalancelast
F btxsetregister	F columnsetbalancepage
F btxsetspecification	F columnsetcolumnwidth
F btxshortcut	F columnsetdisablewide
F btxshowauthorremapping	F columnsetenablewide

F columnsetgoto	F ctxluamatchfile
F columnsethascontent	F ctxresetter
F columnsethspan	F ctxscanner
F columnsetlastfuture	F currentcomponent
F columnsetlastmvl	F currentdate
F columnsetlimit	F currentdesignsize
F columnsetnoto	F currentenvironment
F columnsetresetdirect	F currentfontinstancespec
F columnsetresetshapeextra	F currentposthyphenchar
F columnsetreshape	F currentprehyphenchar
F columnsetsblockrows	F currentproduct
F columnsetssetshapeextra	F currentproject
F columnsetshape	F currentsectiontolist
F columnsetshapebalancecheck	F datasetsize
F columnsetshapebalanceextend	F datasetvariable
F columnsetshapecolumn	F day
F columnsetshapecount	F daynmem
F columnsetshapeindex	F dayname
F columnsetshapepage	F decimals
F columnsetshapesetbalancerange	F decrementcounter
F columnsetshapeslots	F decrementsubcounter
F columnsetshapespread	F deferredenhancelist
F columnsetshapevsize	F deferredenhancereference
F columnsetshapeworst	F deferredenhanceregister
F columnsetshowgrid	F defineaccents
F columnsetshowshape	F defineattribute
F columnsetshowtracedgrid	F defineboundary
F columnsetstate	F definebreakpoint
F columnsetstatus	F definebreakpoints
F combineglyphs	F definecharacterspacing
F component	F definechemical
F concatcommalist	F definecolumnset
F consultfloat	F defineconversion
F continueifinputfile	F definecounter
F convertbtxdatasettoxml	F definedlayoutcomponent
F converteddimen	F definefallbackfamily
F convertmpstopdf	F definefield
F copyboxfromcache	F definefieldset
F copyboxline	F definefilefallback
F copyposition	F definefilesynonym
F cos	F definefont_one
F cosd	F definefont_two
F ctxfunction	F definefontcolorpalette
F ctxluamatch	F definefontfamily

F definefontfamilypreset	F disabledirectives
F definefontfeature	F disableexperiments
F definefontscriptset	F disablejobsave
F definefontsolution	F disableparbuilder
F definehyphenationfeatures	F disableregime
F defineinsertion	F disablespellchecking
F defineintermediatecolor	F disablestatetriggering
F definelabcolorglobal	F disablestream
F definelabcolorlocal	F disabletrackers
F definelabels	F discardfromlist
F definelanguage	F discoptioncodestring
F definelinkedlist	F disposeboxesincache
F definemathpreset	F disposeluatable
F definemultitonecolorglobal	F doanalyzeframedbox
F definenamespace	F doif
F definenote	F doifcounter
F defineparallel	F doifelse
F defineparbuilder	F doifelseblack
F defineprocesscolordummy	F doifelseboxincache
F defineprocesscolorglobal	F doifelsebuffer
F defineprocesscolorlocal	F doifelsebufferempty
F defineprogram	F doifelsecharinfont
F definereference	F doifelseconverter
F defineregister	F doifelsecounter
F definesectionlevels	F doifelsecounteractive
F definespotcolorglobal	F doifelsecurrentfonthasfeature
F definestructureblock	F doifelseedimenstring
F definestructureset	F doifelsedrawingblack
F definesubcolumnset	F doifelsefieldcategory
F definetransparency	F doifelsefieldset
F definetransparencyglobal	F doifelsefiledefined
F definetypeface	F doifelsefileexist
F defineviewerlayer	F doifelsefirstchar
F delayedcolumnsetsheet	F doifelsefirstsectionpage
F depthnumber	F doifelsefontfeature
F depthofstring	F doifelsefontpresent
F descender	F doifelseindented
F detachinsertions	F doifelseinelement
F diagnostic	F doifelseinputfile
F digits_normal	F doifelseleapyear
F digits_reverse	F doifselisthasentry
F directboxfromcache	F doifselisthasnumber
F disableautofontscript	F doifselisthaspage
F disablecollectingmath	F doifselisthastitle

F doifelsemarkedcontent	F doifsomething
F doifelsemarkedpage	F doifunknownfontfeature
F doifelsemessage	F domainattribute
F doifelsenoteonsamepage	F doreshapeframedbox
F doifelseobjectfound	F doresyncframedbox
F doifelseobjectreferencefound	F dosaveposition
F doifelseolderversion	F dosavepositionplus
F doifelseoverlapping	F dosavepositionwhd
F doifelseparallel	F dosetposition
F doifelseparentfile	F dosetpositionbox
F doifelsepathexist	F dosetpositionplus
F doifelsependingpagecontent	F dosetpositionstrut
F doifelseposition	F dosetpositionstrutkind
F doifelsepositiononpage	F dosetpositionwhd
F doifelsepositionsonsamepage	F dostarttextfile
F doifelsepositionsonthispage	F dostoptextfile
F doifelsepositionsused	F doublescriptmodecodestring
F doifelserangeonpage	F droptablegroup
F doifelserreference	F elapsedsteptime
F doifelserreferencechecked	F elapsedtime
F doifelserreferenced	F embedimagefromstore
F doifelserighttoleftinbox	F enablealignmentcharacter
F doifelsesame	F enablealignskips
F doifelsesomething	F enableasciimode
F doifelsespaces	F enableautofences
F doifelsestackedfloats	F enableautofontscript
F doifelsestructureblockempty	F enablebackgroundalign
F doifelsesynonymshown	F enablebackgroundboxes
F doifelsesynonymused	F enablecollectingmath
F doifsetaggednoteonsamepage	F enablecolor
F doifseurldefined	F enablecolorintents
F doifseutfmathaccent	F enablecrlf
F doifseutfmathfiller	F enabledirectives
F doifseutfmathlimp	F enabledriver
F doifsevalidhashedfiles	F enableexperiments
F doifsevisualizer	F enablefontcolorchemes
F doifmarkedpage	F enablehidecontent
F doifnot	F enablemathalignrelocate
F doifnotcounter	F enablematrixornaments
F doifnotecontent	F enablematrixrules
F doifnotsame	F enableparbuilder
F doifnotthing	F enableregime
F doifposition	F enablescriptunstacking
F doifsame	F enablesidefloatchecker

F enablespellchecking  
F enablestacking  
F enablestatetriggering  
F enablestream  
F enableswapping  
F enabletighten  
F enabletrackers  
F enabletransparency  
F enableutf  
F enhancelinkedlist  
F enhancealist  
F enhanceregister  
F enhancesynonym  
F environment  
F eposcolumn  
F eposcolumnregistered  
F erasebuffer  
F execute  
F exportbox  
F exportformdata  
F exportreferences  
F expression  
F extendregister  
F extendregisterlate  
F extensiblecode  
F fakeword  
F featureattribute  
F feedback  
F fetchlanguagetext  
F fetchmultipar  
F fetchposboxes  
F fetchterminaldata  
F figure\_flush\_registered\_pages  
F figure\_mergegoodies  
F figure\_nof\_registered\_pages  
F figure\_register\_page  
F figuresetdimensions  
F filebasename  
F filedirname  
F filenameonly  
F filesuffix  
F filterdefaultreference  
F filterreference  
F finalizeobjectbox  
F finalizeshipoutbox  
F findregisterinternal  
F finishcolumnsetflush  
F finishexport  
F firstinset  
F firstsectionpage  
F firstsubcountervalue  
F flagcodestring  
F flushcolumnsetareas  
F flushcolumnsetcolumn  
F flushfloat  
F flushlabeledfloat  
F flushnoterange  
F flushnotes  
F flushpageblocks  
F flushpageinjectionsafter  
F flushpageinjectionsbefore  
F flushpostponedblocks  
F flushpostponednotes  
F flushstream  
F flushstreamcopy  
F fontchar  
F fontcharbyindex  
F fontcollectionclone  
F fontcollectiondefine  
F fontcollectionprepare  
F fontcollectionregister  
F fontcollectionreport  
F fontcollectionreset  
F fontlookupgetkey  
F fontlookupgetkeyofindex  
F fontlookupinitialize  
F fontlookupnofound  
F forceendjob  
F forcepageflush  
F forcequitjob  
F forcestrutdepth  
F format  
F formatcolor  
F formatgray  
F formatluminance  
F formatluminanceratio  
F formatone  
F framedoutline

F from	F getmpextensions
F frozenparcodestring	F getnaturaldimensions
F frule	F getnaturalwd
F getMPdata	F getnofpreviouslines
F getbidimode	F getnotestate
F getbodyfontsizes	F getnotestorecount
F getboxcountfromcache	F getnotestoreflushed
F getboxdpfromcache	F getobjectdimensions
F getboxfromcache	F getobjectreference
F getboxhtdpfromcache	F getobjectreferencepage
F getboxhtfromcache	F getparshape
F getboxwdfromcache	F getparwrapper
F getbuffer	F getprivatechar
F getbuffercontent	F getprivatelyglyphslot
F getbufferctxlua	F getprivatemathchar
F getbuffermkvi	F getprivateslot
F getbuffertext	F getprogram
F getcharactercasingcategory	F getrandomdimen
F getclubpenalties	F getrandomfloat
F getcurrentprefixspec	F getrandomnumber
F getcurrentreferencelabel	F getrandomseed
F getcurrentreferencemetadata	F getreadfilename
F getdefaultfieldvalue	F getreferencesectionnumber
F getdisplaywidowpenalties	F getrivers
F getdocumentargument	F getsetupstring
F getdocumentfilename	F getshapeparameter
F getfieldcategory	F getsomefullstructurenumber
F getfile	F getsomestructurenumber
F getfirstcharacter	F getspecificstructuretitle
F getfloatvariable	F getstructurelevel
F getfromluatable	F getstructurenumber
F getfullstructurenumber	F getsubstring
F getinterlinepenalties	F getsynchronizemarking
F getinternalcachedlistreference	F geturl
F getinternallistreference	F getvisual
F getinternalorderreference	F getwidowpenalties
F getmathblobindex	F globalpopmacro
F getmathblobmapping	F globalpushmacro
F getmathcharone	F gluetoinesinbox
F getmathchartwo	F glyphoptioncodestring
F getmathmathblob	F gobblenestd
F getmathtextblob	F gotocolumnsetslot
F getmathvariant	F grabbuffer
F getmessage	F groupcodestring

F groupsetgroup	F immediatemessage
F grph_nodes_initialize	F includesvgbuffer
F grph_nodes_register	F includesvgfile
F grph_nodes_reset	F incrementcounter
F grph_nodes_resolve	F incrementsubcounter
F handlemathhang	F inhibitprimitive
F hboxtovbox	F initializeexport
F heightofstring	F initializejob
F helpaction	F initializemathcollapsing
F helpreference	F initializemathfencing
F hour	F initializemathitalics
F hpackbox	F initializemathkernpairs
F hpackedbox	F initializemathnumbers
F hsplit	F initializemathspacing
F hyphenateddigits	F initializestream
F hyphenatedlist	F initializetexdirectives
F hyphenationcodestring	F initializetexexperiments
F ic	F initializetextrackers
F idxfromluatable	F injectcurrentreference
F if_common	F injectcurrentreferencehtdp
F ifallmodes	F injectdisable
F ifbitwiseand	F injectnowhite
F ifblobindexdone	F injectreference
F ifboxhaslist	F injectvpenalty
F ifcommon	F injectvskip
F ifeof	F injectvspacing
F ifgluelineinbox	F injectzerobaselineskip
F ifinset	F inlinechemical
F iflua	F inputfilebarename
F ifmode	F inputfilename
F ifmodes	F inputfilerealsuffix
F ifmvl	F inputfilesuffix
F ifpositunum	F insertattachment
F ifsetups	F insertcategorycodestring
F ifsystemmode	F insertcomment
F iftext	F insertfield
F ifxml	F insertionnumber
F ifxmlatt	F insertoptioncodestring
F ifxmlattempty	F insertrenderingwindow
F ifxmlempty	F inspectluatable
F ifxmlselfempty	F installedlanguages
F ifxmltext	F installtexdirective
F ignorefile	F installtexexperiment
F ignoretagsinexport	F installtextracker

F interceptsamepagecontent	F listlocation
F it	F listnamespaces
F jobfilefullname	F listprefixednumber
F jobfilename	F listprefixedpage
F jobfilesuffix	F listrawnumber
F jobposd	F listrawrealpage
F jobposh	F listrawuserpage
F jobposp	F listsigncodestring
F jobposw	F listsize
F jobposx	F listtitle
F jobposy	F listuserdata
F languagecharwidth	F lmt_parameters_define
F languagenumber	F lmt_parameters_preset
F lastblobindex	F lmt_parameters_reset
F lastnodeequals	F loadcldfile
F lastnodeid	F loadcldfileonce
F lastnodeidstring	F loadexamodes
F lastnodesubtypestring	F loadfontgoodies
F lastparwrapper	F loadlibrary
F lastrpos	F loadluafile
F lastsavedboxresourceindex	F loadluafileonce
F lastsavedimageresourceindex	F loadluamodule
F lastsavedimageresourcepages	F loadmapfile
F lastsectionpage	F loadmapline
F lastsubcountervalue	F loadspellchecklist
F lastunitstring	F loadtexfile
F lastxpos	F loadtexfileonce
F lastypos	F loadtypescriptfile
F lateindent	F loadvisualizer
F latelua	F loadxmlfile
F lateundent	F loadxmlfileonce
F lchexnumber	F localanchorx
F lchexnumbers	F localanchory
F leapyear	F localboxindent
F limited	F localboxindex
F linebuffering	F localboxlefthang
F linedir	F localboxleftoffset
F lineprofilebox	F localboxleftskip
F linesegment	F localboxlinenumber
F listanchorcodestring	F localboxlinewidth
F listbookmark	F localboxlocalwidth
F listexternal	F localboxmarkonce
F listgroupindex	F localboxovershoot
F listlabel	F localboxparfillleftskip

F localboxparfillrightskip	F mathstrutcode
F localboxparinitleftskip	F mathvariantcode
F localboxparinitrightskip	F mathvariantcount
F localboxprogress	F mathvariantslot
F localboxrighthang	F maxbufferwidth
F localboxrightoffset	F message
F localboxrightskip	F metapostescaped
F localpopmacro	F metapostformatted
F localpushmacro	F metapostgraphformat
F locatefilepath	F minute
F loopcs	F mixcleanup
F loopcsn	F mixfinalize
F lousiness	F mixflushlist
F luacardinal	F mixflushrest
F luacount	F mixgetsplit
F luadimen	F mixsetsplit
F luaexpression	F mixstate
F luafloat	F modecodestring
F luainteger	F molecule
F luanumber	F month
F luarandom	F monthmnm
F luascript	F monthname
F luathread	F mpblobtext
F lxmlid	F mpcolor
F manipulated	F mpgetblob
F markblobindexdone	F mpgettext
F markcontent	F mpgraphic
F markedpageparameter	F mpgraphictexttoks
F markedpages	F mpoptions
F markingnumber	F mpoutlinetoks
F markingtitle	F mppopvariables
F markinjector	F mppushvariables
F markpage	F mprunset
F markregionbox	F mpruntab
F markregionboxcorrected	F mprunvar
F markregionboxtagged	F mpsetclippath
F markregionboxtaggedkind	F mpsetoutercolor
F markregionboxtaggedn	F mpsetsxsy
F markvisualfonts	F mpsettext
F mathclassvalue	F mptexget
F mathcontrolcodestring	F mptexreset
F mathhorizontalcode	F mptexset
F mathoptioncodestring	F mptexsetfrombuffer
F mathrenderset	F mptexttoks

F mvloptioncodestring	F operatingsystem
F namedstructureuservariable	F ordinal
F namedstructurevariable	F outputfilename
F naturalwd	F overloadbookmark
F negatedcolorcomponent	F overloadlowercase
F newarray	F overloadsattribute
F newhashedtable	F overloaduppercase
F newindexedtable	F pageblockrealpage
F newluatable	F pageofinternal
F newparwrapper	F pageoverflow
F newrepeatablerandom	F pagestaterealpage
F newstacking	F pagestaterealpageorder
F nextparallel	F paragraphfillmodecodestring
F nextsubcountervalue	F paragraphoptioncodestring
F nodimen	F parcontextcodestring
F nofbufferlines	F paddir
F nofconversions	F parpasscallback
F nofdays	F parpassidentifier
F nofdetachedinsertions	F parpos
F noflinesinbox	F partriggercodestring
F nofmathvariants	F pdfbackendcurrentresources
F nofstackedfloats	F pdfbackendsetcatalog
F nologbuffering	F pdfbackendsetcolorspace
F normalizecodestring	F pdfbackendsetextgstate
F normalizedbodyfontsize	F pdfbackendsetinfo
F normalizeparcodestring	F pdfbackendsetname
F nospacesmodecodestring	F pdfbackendsetpageattribute
F notedeltapage	F pdfbackendsetpageresource
F noteinternal	F pdfbackendsetpagesattribute
F notelistindex	F pdfbackendsetpattern
F noteprefixednumber	F pdfbackendsetshade
F notetitle	F pdfcolor
F ntb_split_section_check	F pdfextension
F ntb_split_section_fetch	F pdffeedback
F ntb_split_section_locate	F pdflastobj
F ntb_split_section_reset	F pdfliteral
F ntimes	F pdfobj
F number	F pdfrefobj
F numbers	F pdfsetuserdata
F objectreference	F pdfvariable
F objectreferencepage	F percentageof
F octnumber	F pfabs
F openin	F pfacos
F openout	F pfacosh

F pfasin	F prefixedconverted
F pfasinh	F prelistbox
F pfatan	F prelistcopy
F pfatanh	F preparecolumnsetflush
F pfatantwo	F prerolledpages
F pfceil	F presetcolumnsetsheets
F pfcos	F presetcolumnsetspreadsheets
F pfcosh	F presetmathematics
F pfdeg	F presetmathfontalternate
F pfexp	F presetsymbolist
F pffloor	F previoussubcountervalue
F pflog	F privatecharacter
F pfmod	F privatecharactercode
F pfpow	F processbodyfontsizes
F pfrad	F processbuffer
F pfrem	F processcollectedmath
F pfround	F processedfile
F pfsin	F processedfiles
F pfsinh	F processfile
F pfsqrt	F processfilemany
F pftan	F processfilenone
F pftanh	F processfileonce
F pgfxcolorspec	F processjob
F pickupbuffer	F processlist
F pickupmarkedcontent	F processregister
F pickuppunctuation	F processsplit
F placeparallel	F processsynonyms
F popfloat	F product
F pophyphenation	F profilebox
F poplist	F profilemacro
F poplocalanchors	F project
F poplogfile	F pruneboxesincache
F popparagraphtweak	F purefontname
F poppath	F pushfloat
F poprandomseed	F pushhyphenation
F popreferenceprefix	F pushlist
F popregime	F pushlocalanchors
F poprunstate	F pushlogfile
F popsectionblock	F pushparagraphtweak
F positunum	F pushpath
F positunumdef	F pushrandomseed
F postlistbox	F pushreferenceprefix
F postlistcopy	F pushregime
F postponeotes	F pushrunstate

F pushsectionblock	F registerforcedbreak
F pushstream	F registergroupset
F putboxincache	F registerhashedfiles
F putincolumnset	F registerhelp
F putincolumnsetdirect	F registerhyphenationexception
F putnextboxincache	F registerhyphenationpattern
F qrcodebuffer	F registeritemgroup
F qrcodestring	F registerlabel
F rawMPdata	F registerlanguagefeatures
F rawcharacter	F registerlinenumbering
F rawsetupstring	F registermaintextcolor
F rawsubcountervalue	F registermpextensible
F read	F registernamedlua
F readfromterminal	F registernamespace
F readline	F registerobject
F readlinedirect	F registerpattern
F recolorbox	F registerpostponedblock
F referencecolumn	F registerreferencedobject
F referencepagedetail	F registerrendering
F referencepagestate	F registersection
F referenceposx	F registershownsynonym
F referenceposy	F registersnaprange
F referencerealpage	F registerstructureprocessor
F registeranchorbox	F registersynchronize
F registerattachment	F registersynonym
F registerbackendsymbol	F registertransliteration
F registerbackground	F registerunit
F registerbodyfontsize	F registerunitshortcut
F registerbookmark	F registerunknownbodysize
F registerboxglyph	F registerusedsynonym
F registerbuttons	F registeruserdata
F registercolorint	F registerverbosemathlabel
F registercolumnsetarea	F removelastline
F registercolumnsetsheet	F renderingvar
F registercolumnsetspreadsheets	F reorderfloats
F registerengineclass	F replacefeature
F registerfallbackfont	F replacepospxywhd
F registerfiguremask	F replacewildcard
F registerfigurepattern	F reportstructure
F registerfigurerange	F resavefloat
F registerfiguresuffix	F reservedautoregiontag
F registerfilescheme	F resetMPinstance
F registerfontalternative	F resetalternate
F registerfontfamily	F resetbackgroundrowdata

F resetboxesincache	F safechar
F resetcharacteralign	F samplefile
F resetcolumnset	F saveboxresource
F resetcomparingtext	F savebuffer
F resetcounter	F savecounter
F reseteffect	F savecurrentattributes
F resetfeature	F savecurrentvalue
F resetfontfeature	F savedlistnumber
F resetfontsolution	F savedlistprefixednumber
F resetforcedbreak	F savedlisttitle
F resetinjector	F savefloat
F resetlogfile	F saveimageresource
F resetmapfiles	F savemargindata
F resetmathattributes	F savenote
F resetnullfont	F savepagedata
F resetparallel	F savepageinjections
F resetpath	F saveparallel
F resetreference	F savepos
F resetscript	F savespecificfloat
F resetstructureprocessor	F savestructureblock
F resetsubcounter	F scangivendimensions
F resetsynchronizemarking	F scriptsmodecodestring
F resetsynonyms	F second
F resettimer	F selectstructureblock
F resettrackers	F set_extensible_data
F resolvedemoji	F setadaptive
F restartcounter	F setalternate
F restartsubcounter	F setautoprefix
F restorecounter	F setbackgroundrowdata
F restorecurrentattributes	F setboxglyph
F restorenote	F setboxline
F restoreobject	F setbreakpoints
F reuserandomseed	F setcharacteralign
F reversevboxcontent	F setcharacteraligndetail
F revivefeature	F setcharactercasing
F rightmathkern	F setcharactercleaning
F romannumerals	F setcharacterkerning
F rotateparshape	F setcharacterspacing
F rounded	F setcharacterstripping
F roundedfill	F setcloseddocumentaction
F roundedoutline	F setclosepageaction
F ruby	F setcolormodel
F ruleoptioncodestring	F setcolumnsetarea
F runcontextjob	F setcolumnsetlines

F setcolumnsetmvl	F setinsertmigration
F setcolumnsetpresent	F setinterfaceconstant
F setcolumnsetproperties	F setinterfaceelement
F setcolumnsetstart	F setinterfacemessage
F setcomparetext	F setinterfacemessages
F setcomparingtext	F setinterfacevariable
F setcounter	F setinternalreference
F setdataset	F setitaliccorrection
F setdestinationattribute	F setjavascriptpreamble
F setdigitsmanipulation	F setjobcomment
F setdirection	F setlanguageexceptions
F setdocumentargument	F setlanguageoptions
F setdocumentcommandline	F setlanguagepatterns
F setdocumentctxfile	F setlanguagesynonym
F setdocumentdefaultargument	F setlinefiller
F setdocumentenvironments	F setlineprofile
F setdocumentfilename	F setlocalalignanchor
F setdocumentfilenames	F setlocalmarkanchor
F setdocumentmodes	F setlocalsyncanchor
F setdocumentmodules	F setluatable
F seteffect	F setmathalphabet
F setelementbackendtag	F setmathattribute
F setelementnature	F setmathfontalternate
F setextrafontkerns	F setmathfontstyle
F setfieldcalculationset	F setmathsnapping
F setfigureconversion	F setmathvariant
F setfigurelookuporder	F setmetaglyph
F setfigurepaths	F setmpextensions
F setfirstline	F setnaturalwd
F setfontfeature	F setnegative
F setfontofid	F setnextinternalreferences
F setfontsolution	F setnextreferenceorder
F setformat	F setnotestate
F setformsmethod	F setopendocumentaction
F sethsizecolumnset	F setopenpageaction
F sethsizecolumnspan	F setowncounter
F sethyphenatedurlcharacters	F setownsubcounter
F sethyphenationfeatures	F setpagecolormodel
F sethyphenationmethod	F setpagestate
F setidentityvariable	F setpagestaterealpageno
F setinitial	F setpagetransition
F setinitialsectionblock	F setparagraphmetashape
F setinjector	F setparagraphshape
F setinsertionlocation	F setparbuilder

F setparwrapper	F settaglist
F setpdfcompression	F settagmarginanchor
F setperiodkerning	F settagmargintext
F setpostlistbox	F settagmpgraphic
F setprelistbox	F settagnotation
F setprofile	F settagnotationsymbol
F setrandomseed	F settagparagraph
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F setrealspaces	F settagpublication
F setreferencelinkmethod	F settagregister
F setregionbox	F settagsetreferencedescription
F setregionboxtagged	F settagsorting
F setregistermethod	F settagssubsentencesymbol
F setreplacements	F settagssynonym
F setruby	F settagtablecell
F setrule	F settagtabulatecell
F setscript	F settransliteration
F setsectionblock	F setupbookmarks
F setsectionentry	F setupcanvas
F setshadow	F setupcharacterspacing
F setshift	F setupcomparingtext
F setsofthyphens	F setupexport
F setsplitlisthtdp	F setupfontexpansion
F setstacking	F setupfontprotrusion
F setstructureblockstate	F setupinsertion
F setstructurelevel	F setuplinenumbering
F setstructurenumber	F setupsynctex
F setsubcounter	F setupusermetadata
F settagcodepoint	F setupviewerlayer
F settagcombination	F setvisual
F settagcombinationpair	F setvisualfont
F settagconstruct	F setvisuallayer
F settagdelimitedsymbol	F setvisuals
F settagdescriptionindex	F setvsizecolumnset
F settagfigure	F setxmpfile
F settagfloat	F shiftmatrixornaments
F settagformulacontent	F shiftparshape
F settaggedmetadata	F shipoutpage
F settaggingcomment	F showarray
F settaggingoption	F showassignerror
F settaggingpresets	F showattributes
F settaghighlight	F showbits
F settagitem	F showboxinbuffer
F settagitemgroup	F showbtxdatasetauthors

F showbtxdatasetcompleteness	F spotcolorname
F showbtxdatasetfields	F spotcolorparent
F showbtxentry	F spotcolorvalue
F showbtxfields	F squid_check
F showbtxhashedauthors	F startactualtext
F showbtxtables	F startalternativetext
F showbtxvariants	F startchemical
F showchardata	F startclipping
F showcounter	F startcollectingmath
F showdirectives	F startcolorset
F showdiscretionaries	F startcomponent
F showexperiments	F startenvironment
F showfontparameters	F startfontsolution
F showhyphenatedinlist	F startgraphicgroup
F showhyphenationtrace	F startlocalcomponent
F showinjector	F startmarkpages
F showjustification	F startmatrix
F showlogcategories	F startmirroring
F showluatables	F startpageblock
F showluatokens	F startparbuilder
F showmacrostack	F startprerollpageblock
F showmessage	F startproduct
F showpagelist	F startproject
F showparagraphshape	F startregime
F showprofiledmacros	F startrotation
F showstructure	F startruby
F showtrackers	F startscaling
F silliness	F startsectionlevel
F simplealign	F startstream
F simplecases	F starttext
F simplematrix	F startviewerlayer
F sin	F step
F sind	F stopactualtext
F sl	F stopalternativetext
F spaceddigits	F stopchemical
F spacefactorcodestring	F stopclipping
F spaceskipcodestring	F stopcollectingmath
F special	F stopcolorset
F specificationoptioncodestring	F stopcomponent
F specifiedfont	F stopenvironment
F specifiedfontsize	F stopfontsolution
F specifiedfontspec	F stopgraphicgroup
F splitfilename	F stoplocalcomponent
F splitsamplefile	F stopmarkpages

F stopmatrix	F subtocolumnsetmvlbalance
F stopmirroring	F subtractfeature
F stoppageblock	F svghashed
F stopparbuilder	F sync
F stopprerollpageblock	F synccolor
F stopproduct	F synccolorclone
F stopproject	F synccolorcount
F stopregime	F synchronizelocalanchors
F stoprotation	F synchronizemarking
F stopscaling	F synchronizesteps
F stopsectionlevel	F synchronizestream
F stopstream	F syntextblockfilename
F stoptext	F syntextdisable
F stopviewerlayer	F syntexpause
F storejavascriptcode	F syntexpopline
F storejavascriptpreamble	F syntexpushline
F storenote	F syntextresetfilename
F storeregister	F syntextresume
F strc_tags_document_pop	F syntextsetfilename
F strc_tags_document_push	F synonymfirstuserpage
F strc_tags_get_element_tag	F synonymmeaning
F strc_tags_parcounter_pop	F synonymname
F strc_tags_parcounter_push	F synonympages
F strc_tags_set_aspect	F synonymuserpages
F strc_tags_set_element_user_properties	F systemlog
F strc_tags_start	F tabl_ntb_get_sec
F strc_tags_start_chained	F tabl_ntb_set_sec
F strc_tags_start_detail	F tagmfunctionlab
F strc_tags_start_ignore	F tagmfunctionlabattribute
F strc_tags_start_userdata	F tan
F strc_tags_stop	F tand
F stringtoorientation	F textdir
F stripinserts	F texttime
F structureautocatcodedget	F tf
F structureblockuservariable	F thebox
F structurecatcodedget	F thefirstcharacter
F structuregivencatcodedget	F themaxboxwidth
F structurenumber	F theremainingcharacters
F structuretitle	F tightfitcompensation
F structureuservariable	F timestring
F structurevariable	F tobigpoints
F subcountervalue	F tobit
F subsubcountervalues	F tobits
F subtocolumnsetmvl	F tochar

F tohexa	F usemathpluginlibrary
F toorientation	F usemodules
F totalofstring	F usepath
F tounicharnum	F useproduct
F towholebigpoints	F useproject
F transliterate	F usereferences
F transliteratebuffer	F userregister
F transliterated	F usesubpath
F transliteratedbuffer	F usesymbols
F transliterationexception	F usestransliteration
F traverseblock	F useurl
F traversemath	F usezipfile
F triggerpagebuilder	F utfchar
F truefilename	F utflower
F truefontname	F utfmathclass
F type	F utfmathcommand
F typebuffer	F utfmathcommandfiller
F typefile	F utfmathfiller
F uchar	F utfmathstretch
F uchexnumber	F utfshape
F uchexnumbers	F utfstrip
F undefinechemical	F utfupper
F unicodechar	F uuid
F unihex	F vboxlisttohbox
F unit	F verbose
F unloadlanguage	F vpackbox
F unstripinserts	F vpackedbox
F unsupportedcs	F way
F useMPLibrary	F weekday
F useanyfile	F weekdayname
F useanyfileonce	F widthofstring
F useboxresource	F widthuptohere
F usecolors	F write
F usecomponent	F writeline
F useenvironment	F writestatus
F usefigurebase	F writestring
F usefile	F x_table_c
F useimageresource	F x_table_cleanup
F usejavascriptpreamble	F x_table_construct
F usejavascriptscripts	F x_table_create
F uselibrary	F x_table_finish_row
F uselist	F x_table_flush
F uselumodule	F x_table_init_construct
F useluatable	F x_table_init_reflow_height

F x_table_init_reflow_height_option	F xmldoifelseselfempty
F x_table_init_reflow_width	F xmldoifelsetext
F x_table_init_reflow_width_option	F xmldoifempty
F x_table_next_row	F xmldoifnot
F x_table_next_row_option	F xmldoifnotatt
F x_table_r	F xmldoifnotempty
F x_table_reflow_height	F xmldoifnotselfempty
F x_table_reflow_width	F xmldoifnottext
F x_table_set_construct	F xmldoifselfempty
F x_table_set_reflow_height	F xmldoiftext
F x_table_set_reflow_width	F xmlelement
F xmladdindex	F xmlfileline
F xmlafterssetup	F xmlfilename
F xmlall	F xmlfilter
F xmlappendsetup	F xmlfilterlist
F xmlapplyselectors	F xmlfirst
F xmlatt	F xmlflush
F xmlattdef	F xmlflushcontext
F xmlattribute	F xmlflushnewline
F xmlattributedef	F xmlflushpure
F xmlbadinclusions	F xmlflushsetup
F xmlbeforesetup	F xmlflushspacewise
F xmlchainatt	F xmlflushtext
F xmlchainattdef	F xmlformulatobuffer
F xmlchecknamespace	F xmlfunction
F xmlcommand	F xmlgetindex
F xmlconcat	F xmlinclude
F xmlconcatrange	F xmlincludeoptions
F xmlcontext	F xmlinclusion
F xmlcount	F xmlinclusionbase
F xmlcssmappedstylevalue	F xmlinclusions
F xmlcssstylevalue	F xmlindex
F xmldelete	F xmlinlineverbatim
F xmldepth	F xmlinstalldirective
F xmldirect	F xmllast
F xmldirectives	F xmllastatt
F xmldirectivesafter	F xmllastmatch
F xmldirectivesbefore	F xmllastpar
F xmldisplayverbatim	F xmlloadbuffer
F xmldoif	F xmlloaddata
F xmldoifatt	F xmlloaddirectives
F xmldoifelse	F xmlloadentities
F xmldoifelseatt	F xmlloadfile
F xmldoifelseempty	F xmlmain



F newverbosehandler  
 F nr  
 F par  
 F popcatcodes  
 F poplogger  
 F printlines  
 F printtable  
 F protect  
 F pushcatcodes  
 F pushlogger  
 F rule  
 F runfile  
 F runstring  
 F safechar  
 F secondoftwoarguments  
 F setconditional  
 F setfontid  
 F setmode  
 F setsystemmode  
 F settracing  
 F settrialtypesettingmethod  
 F space  
 F sprint  
 F startcollecting  
 F step  
 F stepwise  
 F stopcollecting  
 D systemmodes  
 F tobuffer  
 D tokenizedcs  
 F tolines  
 F trialtypesetting  
 F unprotect  
 F utfchar  
 F viafile

**converters**

**table**

F A  
 F A:es  
 F A:ru  
 F A:sl  
 F AK  
 F Alphabetic  
 F Alphabetic:es  
 F Alphabetic:ru

F Alphabetic:sl  
 F Character  
 F Characters  
 F I  
 F KA  
 F KR  
 F R  
 F RK  
 F Romannumerals  
 F Russiannumerals  
 F Sloveniannumerals  
 F Spanishnumerals  
 F Word  
 F Words  
 F a  
 F a:es  
 F a:ru  
 F a:sl  
 F abjadnodotnumerals  
 F abjadnumerals  
 F alphabetic  
 F alphabetic:es  
 F alphabetic:ru  
 F alphabetic:sl  
 F character  
 F characters  
 F chineseallnumerals  
 F chineseapnumerals  
 F chinesedatenumerals  
 F chinesenumerals  
 F chr  
 F chrs  
 F cn  
 F cn-a  
 F cn-c  
 F cn-d  
 F convert  
 F decimals  
 F define  
 F gregorian\_to\_hebrew  
 F gregorian\_to\_jalali  
 F hebrenumerals  
 F hexstringtonumber  
 F i

F isleapyear		
F jalali_to_gregorian		
F lchexnumber		
F lchexnumbers		
F leapyear		
F lower		
F max		
F maxchars		
F nicenumber		
F nofdays		
F number		
F numbers		
F octnumber		
F octstringtonumber		
F ordinal		
F r		
F romannumerals		
F russiannumerals		
D sequences		
F settime		
F sloveniannumerals		
F spaceddigits		
F spanishnumerals		
F textime		
F toabjad		
F tochinese		
F tohebrew		
F toroman		
F totime		
F uchexnumber		
F uchexnumbers		
F upper		
F weekday		
F word		
F words		
<b>coroutine</b>	table	
F close		
F create		
F isyieldable		
F resume		
F running		
F status		
F wrap		
F yield		
<b>ctxrunner</b>		table
F load		
F preparedfile		
D prepfiles		
F resolve		
<b>debug</b>		table
F getinfo		
F sethook		
F traceback		
<b>dimen</b>		function
<b>dir</b>		table
F collectpattern		
F current		
F expandlink		
F expandname		
F found		
F glob		
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F setcommandline		N currentrun	
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F setenvironments		F definefilesynonym	
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F enable		S inputfilename	
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F gethvrpos		S jobfilename	
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F getrpos		N kindofrun	
F getvpos		N lmtxmode	
F initialize		F loadexamodes	
F install		F loadluafile	
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F outputfilename		F luafilechunk	
F report		S luatexengine	
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D rawarguments  
F reconstructcommandline  
F relativepath  
F setargument  
F splitarguments  
S suffix  
F texfile  
S texmfos  
S texos  
S texroot  
F truefilename  
F uselua module  
F usemodules  
D validengines  
S version

**error** function  
**experiments** table

D data  
F default  
F disable  
F enable  
F list  
S name  
F register  
F report  
F reset  
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F values

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D bases  
F bitmapimage  
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D exists  
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D found  
F get  
F getinfo  
F getpdfinfo  
F getrealpage  
F guess  
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F hash  
D identifiers  
F identify  
F include  
D includers  
F initialize  
D loaded  
D localpaths  
D magics  
F mergegoodies  
N nofmissing  
N nofprocessed  
D order  
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F pop  
B preferquality  
D programs  
F push  
F qrcode  
F registerpattern  
F registerresource  
F registersuffix  
D remappers  
D resources  
F scale  
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F setconversion  
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F setpaths  
 D suffixes  
 D used  
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 F addsuffix  
 F basename  
 F checksum  
 F collapsepath  
 F copy  
 F dirname  
 F expandname  
 F extname  
 F is\_qualified\_path  
 F is\_readable  
 F is\_rootbased\_path  
 F is\_writable  
 F isreadable  
 F iswritable  
 F join  
 F joinpath  
 F loadchecksum  
 F nameonly  
 F nametotable  
 F needs\_updating  
 F needsupdating  
 F pathpart  
 F readdata  
 F removesuffix  
 F replacesuffix  
 F reslash  
 F robustname  
 F savechecksum  
 F savedata  
 F size  
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 F splitname  
 F splitpath  
 F suffix  
 F suffixes  
 F suffixesonly  
 F suffixonly  
 F syncmtimes  
 F withinbase  
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F getposition  
 F read2dot14  
 F readbytes  
 F readbytetable  
 F readcardinal1  
 F readcardinal1le  
 F readcardinal2  
 F readcardinal2le  
 F readcardinal3  
 F readcardinal3le  
 F readcardinal4  
 F readcardinal4le  
 F readcardinaltable  
 F readcline  
 F readcstring  
 F readdouble  
 F readdoublele  
 F readfixed2  
 F readfixed4  
 F readfloat  
 F readfloatle  
 F readinteger1  
 F readinteger1le  
 F readinteger2  
 F readinteger2le  
 F readinteger3  
 F readinteger3le  
 F readinteger4  
 F readinteger4le  
 F readintegertable  
 F setposition  
 F skipposition  
 F writecardinal1  
 F writecardinal1le  
 F writecardinal2  
 F writecardinal2le  
 F writecardinal3  
 F writecardinal3le  
 F writecardinal4  
 F writecardinal4le  
 F writedouble  
 F writedoublele  
 F writefloat  
 F writefloatle

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F analysemethod  
 F checkedpagefloat  
 F collect  
 F consult  
 F flush  
 F getvariable  
 F hasstacked  
 F nofstacked  
 F pop  
 F push  
 F resave  
 F save  
 F stacked

**table****font**

F addcharacters  
 F addquality  
 F current  
 F define  
 F getfont  
 F getfontdimen  
 F getfontfields  
 F getfontspec  
 F getmathcharacterfields  
 F getmathindex  
 F getmathspec  
 F getparameterfields  
 F gettextcharacterfields  
 F id  
 F max  
 F nextid  
 F setfont  
 F setfontdimen  
 F xscaled  
 F yscaled

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F current  
 F currentid  
 F definetypface  
 F enhanceid  
 D expansions  
 D formats  
 F getalternate  
 F getindices

**table**

F getkern  
 F getmultiple  
 F getsubstitution  
 F infofont  
 F mode  
 D names  
 D nulldata  
 D protrusions  
 F registersanitizer  
 F reserveid  
 F toeffect

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F dummy

**getmetatable****globaldata**

N CONTEXTLMTXMODE  
 N LUAFORMAT  
 N LUAMAJORVERSION  
 N LUAMINORVERSION  
 S LUATEXENGINE  
 N LUATEXFORMATID  
 N LUATEXFUNCTIONALITY  
 S LUATEXVERBOSE  
 N LUATEXVERSION  
 N LUAVERSION  
 F SAVEDREQUIRE  
 F assert  
 F characterkern  
 F collectgarbage  
 F dimen  
 F dofile  
 F error  
 F getmetatable  
 F inspect  
 F ipairs  
 F load  
 D loaders  
 F loadfile  
 F loadstring  
 F next  
 F optionalrequire  
 F pairs  
 F pcall  
 F print

**table****function****table**

F rawequal  
 F rawget  
 F rawlen  
 F rawset  
 F require  
 F select  
 F setinspector  
 F setmathparameters  
 F setmetatable  
 D texconditionals  
 D texconstants  
 D texifs  
 D texisdefined  
 D texmodes  
 D texsystemmodes  
 F toboolean  
 F todecimal  
 F tonumber  
 F tostring  
 F type  
 F unpack  
 F warn  
 F xpcall

## globals

table

N CONTEXTLMTXMODE  
 N LUAFORMAT  
 N LUAMAJORVERSION  
 N LUAMINORVERSION  
 S LUAEXENGINE  
 N LUAEXFORMATID  
 N LUAEXFUNCTIONALITY  
 S LUAEXVERBOSE  
 N LUAEXVERSION  
 N LUAVERSION  
 F SAVEDREQUIRE  
 F assert  
 F characterkern  
 F collectgarbage  
 F dimen  
 F dofile  
 F error  
 F getmetatable  
 F inspect  
 F ipairs

F load  
 D loaders  
 F loadfile  
 F loadstring  
 F next  
 F optionalrequire  
 F pairs  
 F pcall  
 F print  
 F rawequal  
 F rawget  
 F rawlen  
 F rawset  
 F require  
 F select  
 F setinspector  
 F setmathparameters  
 F setmetatable  
 D texconditionals  
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 D texifs  
 D texisdefined  
 D texmodes  
 D texsystemmodes  
 F toboolean  
 F todecimal  
 F tonumber  
 F tostring  
 F type  
 F unpack  
 F warn  
 F xpcall

## graphics

table

F bpsize  
 F identify  
 F registerpdfcompactor  
 F registerpdffont

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F compress  
 F compressed  
 F decompress  
 F load  
 F save  
 F suffix

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F getprofile  
 F mathnested  
 F mathprocess  
 F mathstep  
 F snapindeed  
 F snaplist  
 F traversecharmmethod  
 F traverseglyphmethod  
 F traversehorizontal  
 F traversevertical

table

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F check  
 F checksize  
 F copy  
 F create  
 F embed  
 F embedfromstore  
 F fetchdata  
 F print  
 F resetdata  
 F resetstore  
 F scan  
 F serialize  
 F storedata  
 F totable  
 F wrap

table

**inspect**

function

**interactions**

D attachments  
 D linkedlists  
 D renderings

table

**interfaces**

D cachedsetups  
 F cachesetup  
 F checkedspecification  
 D complete  
 D constants  
 D corenamespaces  
 S currentinterface  
 S currentresponse  
 F definecommand  
 F defined  
 F doifelsemessage

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D elements

D formats  
 F getmessage  
 F getnamespace  
 F getsetupstring  
 D hashedsetups  
 F implement  
 F interfacedcommand  
 F knownscanner  
 F message  
 F nameofscanner  
 F registernamespace  
 F registerscanner  
 D scanners  
 F setconstant  
 F setcount  
 F setdimen  
 F setelement  
 F setformat  
 F setmacro  
 F setmessage  
 F setmessages  
 F settranslation  
 D setupstrings  
 F setvariable  
 F showmessage  
 D storedscanners  
 F tolist  
 D translations  
 D usednamespaces  
 D variables  
 F writestatus

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table

F ask  
 F bytes  
 F characters  
 F close  
 F copydata  
 F exists  
 S fileseparator  
 F flush  
 F gobble  
 F input  
 F lines

F loadchunk  
F loaddata  
F loadlines  
F newreader  
F noflines  
F open  
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S pathseparator  
F popen  
F read  
F readall  
F readnumber  
F readstring  
F savedata  
F size  
U stderr  
U stdin  
U stdout  
F tmpfile  
F type  
F write

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**job** table

F comment  
F disablesave  
F getrandomseed  
F initialize  
F load  
F loadother  
B pack  
N packversion  
F register  
F save  
N version

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**language** table

F clean  
F clearhyphenation  
F clearpatterns  
F current  
F gethjcode  
F has\_language  
F hyphenate  
F hyphenation

F hyphenationmin  
F id  
F new  
F patterns  
F postexhyphenchar  
F posthyphenchar  
F preexhyphenchar  
F prehyphenchar  
F sethjcode  
F setwordhandler

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F addgoodiesdata  
F addgoodiesfile  
F associate  
D associated  
F association  
D counters  
F current  
D data  
D decimals  
F define  
F explicithyphen  
F exportlanguage  
F flatten  
F getdata  
F getmetadata  
F getnumber  
F goodiefiles  
F hyphenate  
F installed  
F installhandler  
F loadable  
F loadwords  
F nofflattened  
D numbers  
F pdflanguage  
F postexhyphenchar  
F posthyphenchar  
F preexhyphenchar  
F prehyphenchar  
D registered  
F serializediscretionary  
F setexceptions  
F setgoodieshandler

F setoptions  
F setpatterns  
F setsynonym  
F setwordhandler  
F showdiscretionaries  
F strippedgoodiewords  
F tolang  
F unload  
N version  
F visualizediscretionaries

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F getcanvas  
F getpagedimensions  
F setupcanvas

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F attributes  
F chdir  
F currentdir  
F dir  
F isdir  
F isfile  
F isfound  
F isreadabledir  
F isreadablefile  
F iswriteabledir  
F iswriteablefile  
F link  
F mkdir  
F makedirs  
F modification  
F readlink  
F rmdir  
F setexecutable  
F symlink  
F symlinktarget  
F touch  
F walkdir

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D basiclua  
D basictex  
D builtin  
D extralua  
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F convert  
F convertfile  
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F einject  
F eprint  
F escape  
F finalized  
F finject  
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F getvariables  
F htmfile  
F include  
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F inject  
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F new  
F popupfile  
F print  
F pv  
F report  
F reset  
F result  
F set  
F show  
F stripcss  
F tv  
F type  
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F variable

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**loadfile** function

**loadstring** function

**logs** table

F application  
F categories

F direct  
F disable  
F enable  
F finalactions  
F flush  
F loggingerrors  
F messenger  
F new  
F newline  
F poplogfile  
F poptarget  
F pushlogfile  
F pushtarget  
F registerfinalactions  
F report  
F reporter  
F resetlogfile  
F setformats  
F setformatters  
F setlogfile  
F setmessenger  
F setprocessor  
F settarget  
F settimedlog  
F settranslations  
F show  
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F startfilelogging  
F status  
F stop\_page\_number  
F stoperrorlogging  
F stopfilelogging  
F subdirect  
F subreport  
F system  
F texerrormessage  
F writer

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F action  
F adddocumentcolorspace  
F adddocumenttextgstate  
F adddocumentpattern

F adddocumentshade  
F addtocatalog  
F addtoinfo  
F addtonames  
F addtopageattributes  
F addtopageresources  
F addtopagesattributes  
F addxmpinfo  
F annotationspecification  
F array  
F attachmentsymbols  
F boolean  
F border  
F checkedkey  
F checkedresources  
F checkedvalue  
F circularshade  
F close  
F cmykcode  
F collectedresources  
F color  
F colorspace  
D colorspaceconstants  
F colorspec  
F colorvalue  
F colorvalues  
F commentsymbols  
F compressdata  
F compresslevel  
F constant  
F copyarray  
F copyboolean  
F copyconstant  
F copydictionary  
F copyfloat  
F copyinteger  
F copynumber  
F copystring  
F copyunicode  
F deferredobject  
F delayedobject  
F destinationspecification  
F dictionary  
F docstring

F escaped	F makenametree
F finalizedocument	F minorversion
F finalizepage	F noffontregistries
F finalizesignature	F nopages
F finishtransparencycode	F null
F flushfonts	F number
F flushgroup	F object
F flushobject	F objectcompresslevel
F flushstreamfileobject	F pagereference
F flushstreamobject	F patternstream
D formats	F pdfcolor
F frombytes	F pdftimestamp
F fromeight	F preparesignature
F frompdfdoc	F print
F fromsixteen	F procset
F getcatalog	B protectresources
F getcompression	F quads
F getfontname	F rectangle
F getfontobjectnumber	F reference
F getformatoption	F registerannotation
F getinfo	F registerdestination
F getmatrix	F registerdocumentfinalizer
F getnofpages	F registerfontmethod
F getpageproperties	F registerinitializer
F getpagereference	F registerpagefinalizer
F getpagetags	F registerpattern
F getpos	F registersignature
F gettaggingstatus	F replacexmpinfo
F gettrailerid	F reserveobject
F getversion	F rgbcode
F getxformname	F rotationcm
F graycode	F setcompression
F hasmatrix	F setencryption
F immediateobject	F setpageorder
F includeimage	F setpagestate
F initialize	F setpagetag
F injectxmpinfo	F setutfstringmode
F insertxmpinfo	F setversion
F lastreferredpage	F sharedobject
F layerreference	F shareobject
F limited	F shareobjectreference
F linearshade	F splitsixteen
F literal	F spotcode
F majorversion	F stream

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F supportedformats  
F tocidset  
F toeight  
F topdfdoc  
F topermissions  
F tosixteen  
F transparency  
F transparencycode  
F transparencyvalue  
F unicode  
D usedfontstreams  
F verbose

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F B  
F C  
F Carg  
F Cb  
F Cc  
F Cf  
F Cg  
F Cmt  
F Cp  
F Cs  
F Ct  
F P  
F R  
F S  
F UP  
F UR  
F US  
F V  
F afterprefix  
F anywhere  
F append  
F balancer  
F beforesuffix  
F checkedsplit  
F containsws  
F counter  
F endstripper  
F finder  
F firstofsplit  
F frontstripper

F instringchecker  
F is\_lpeg  
F keeper  
F locale  
F match  
F oneof  
D patterns  
F pcode  
F print  
F ptree  
F replacer  
F secondofsplit  
F setmaxstack  
F setutfcasers  
F split  
F splitat  
F splitter  
F stripper  
F times  
F tsplitat  
F tsplitter  
F type  
F utfR  
F utfchartabletopattern  
F utfreplacer  
S version

## **lua** table

F addnibble  
D bytedata  
F callbytecode  
F comparekeys  
F finalizeinitex  
N firstbytecode  
F get\_functions\_table  
F getallkeys  
F getbytecode  
F getcheckedkeys  
F getcurrenttime  
F getdebuginfo  
F getexitcode  
F getfunctionstable  
F getnibble  
F getnumerickeys  
F getpreciseseconds

F getpreciseticks  
F getruntime  
F getstacktop  
F getstartupfile  
F getstringkeys  
F getversion  
N lastbytecode  
D messages  
F newindex  
F newtable  
D numbers  
F protectglobal  
F registercode  
F registeredcodes  
F registerglobal  
F registerinitexfinalizer  
F registername  
F setbytecode  
F setexitcode  
F setnibble  
S startupfile  
F subnibble  
S version

**luac** table

F inspect  
F print

**luatex** table

F abort  
F cleanup  
F cleanuptempfiles  
F currentfile  
F currentlevel  
F currenttotal  
F poprunstate  
F pushrunstate  
F registerdumpactions  
F registerpageactions  
F registerstartactions  
F registerstopactions  
F registertempfile  
N starttime  
F wrapup

**lxml** table

F addindex

F all  
F applyfunction  
F applyselectors  
F att  
F attribute  
F badinclusions  
F chainattribute  
F checkindex  
F collected  
F command  
F concat  
F concatrange  
F content  
F context  
F convert  
F count  
F delete  
F depth  
F direct  
F displayverbatim  
F doif  
F doifelse  
F doifelseempty  
F doifelsetext  
F doifempty  
F doifnot  
F doifnotempty  
F doifnottext  
F doiftext  
F element  
F elements  
D entities  
F fileline  
F filename  
F filter  
F filterlist  
F first  
F flush  
F flushlinewise  
F flushsetups  
F flushspacewise  
F get\_id  
F getid  
F getindex

F id	F serialize	
F idsplitter	F setaction	
F ifatt	F setatt	
F ifattempty	F setattribute	
F include	F setcdata	
F inclusion	F setcommandtone	
F inclusions	F setcommandtotext	
F index	F setpar	
F inlineverbatim	F setparam	
F installsetup	F setparameter	
F last	F setsetup	
F lastatt	F snippet	
F lastmatch	F splitid	
F lastpar	F startraw	
F load	F startunesaped	
F loadbuffer	F stopraw	
F loaddata	F stopunesaped	
F main	F store	
F match	F strip	
F name	F stripped	
F namespace	F tag	
F nonspace	F texatt	
F par	F text	
F param	F tobuffer	
F parameter	F tofile	
F path	F toparameters	
F popmatch	F toverbatim	
F pos	F verbatim	
F position	F withinindex	
F pure	D xmltexhandler	
F pushmatch	<b>math</b>	<b>table</b>
F raw	F abs	
F rawroot	F acos	
F rawtex	F asin	
F refatt	F atan	
F register	F atan2	
F registerentity	F ceil	
F removesetup	F ceiling	
F replace	F cos	
F resetcdata	F cosd	
F resetsetups	F cosh	
F resolvedentity	F deg	
F root	F div	
F save	F even	

F exp  
F floor  
F fmod  
F frexp  
N huge  
N initialseed  
F ldexp  
F log  
F log10  
F max  
N maxinteger  
F min  
N mininteger  
F mod  
F modf  
F odd  
N pi  
F pow  
F rad  
F random  
F randomseed  
F round  
F setrandomseedi  
F sin  
F sind  
F sinh  
F sqrt  
F tan  
F tand  
F tanh  
F tointeger  
F type  
F ult

## mathematics

table

F addfallbacks  
F addvariant  
D alphabets  
D alternatives  
F beforepassingfonttotex  
F big  
D boldmap  
D charactersets  
F checkaftercopyingfont  
D classes

D classnames  
D codes  
F define  
F dimensions  
F disablecollecting  
F enablecollecting  
F extensiblecode  
D extensibles  
N extrabase  
F fallbackstyleattr  
F familyname  
F functiontype  
D gaps  
F getblobindex  
F getboth  
F getdomainname  
F getextensibledata  
F getmathblob  
F getoptionallabel  
F getstyle  
F gettextblob  
F getverboselabel  
F horizontalcode  
F initializeparameters  
F makefont  
D mapremap  
F markblobindexdone  
F overloadparameters  
F preset  
N privatebase  
F registerextensible  
F registersimplematrix  
F registerverboselabel  
F remapalphabets  
F renderextensible  
F renderset  
F resetattributes  
F scaleparameters  
F setextensibledata  
F setmathsymbol  
D sets  
F setsnapping  
F setvariant  
F strutcode

D styles	F format_string
F syncboth	F formatnumber
F syncname	F getbackendoption
F syncstyle	F getbendtolerance
F toengineclass	F getbuffer
F toname	F getclippath
F tostyle	F getextensions
F tweakaftercopyingfont	F getextradata
F tweakbeforecopyingfont	F gethashentries
F utfmathaccent	F getinstancebyname
F utfmathclass	F getinstanceinfo
F utfmathcommand	F getinstancenames
F utfmathfiller	F getjobdata
F utfmathstretch	F getmovetolerance
F variantcode	F getparameter
F variantcount	F getparameterpreset
F virtualize	F getparameterset
D virtualized	F getrecord

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F HEX	F getstatistics
F dec	F gettext
F hex	F gettolerance
F sum	F graphic
F sumHEXA	F graphic_base_pass
F sumhexa	F hascurvature

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F checkformat	F includesvgbuffer
F checktracingonline	F includesvgfile
F cm	F installplugin
F colorinitializer	F isobject
F convert	S lastlog
F currentmpx	F load
F currentmpxstatus	F maketext
S defaultformat	F mesh
S defaultinstance	F mesher
S defaultmethod	F meshupper
F directrun	N n
F escaped	F newlogger
D extensiondata	N nofruns
F filter	F nofsciprun
F filterclippath	F nvformat
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**table**

**table**

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D back-exp-imp-fnt	D font-ctx
D back-exp-imp-mth	D font-def
D back-exp-imp-ref	D font-dsp
D back-exp-imp-tag	D font-enc
D back-imp-lua	D font-enh
D back-imp-mps	D font-fbk
D back-imp-pdf	D font-fmp
D back-imp-pdp	D font-hsh
D back-inc	D font-imp-checks
D blob-ini	D font-imp-combining
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D buff-imp-lua	D font-imp-dimensions
D buff-imp-mp	D font-imp-effects
D buff-imp-nested	D font-imp-italics
D buff-imp-parsed-xml	D font-imp-ligatures
D buff-imp-tex	D font-imp-math
D buff-imp-xml	D font-imp-notused
D buff-ini	D font-imp-properties
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D char-enc	D font-imp-scripts
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D cldf-com	D font-imp-text
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D colo-icc	D font-imp-tweaks
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D core-con	D font-lig
D core-ctx	D font-log
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D driv-shp	D font-mpf
D file-mod	D font-mps
D file-syn	D font-nod
D font-afk	D font-ogr
D font-agl	D font-one
D font-aux	D font-onr
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D font-trt	D lpdf-fix-imp-fonts
D font-ttf	D lpdf-fld
D font-txt	D lpdf-fmt
D font-vfc	D lpdf-grp
D font-vir	D lpdf-img
D good-ctx	D lpdf-ini
D good-gen	D lpdf-lmt
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D grph-bmp	D lpdf-rul
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D java-ini	D lxml-sor
D lang-cnt	D lxml-tex
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D math-fbk	D node-par
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D math-ini	D node-tra
D math-map	D node-typ
D math-mps	D pack-obj
D math-noa	D pack-ori
D math-pre	D pack-rul
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D math-spa	D page-flt
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D meta-fun	D page-otr
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D mlib-mpf	D publ-tra
D mlib-msh	D publ-usr
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D mlib-pos	D scrn-but
D mlib-pps	D scrn-fld
D mlib-ptr	D scrn-hlp
D mlib-ran	D scrn-ini
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D mlib-scn	D scrn-ref
D mlib-snc	D scrn-wid
D mlib-svg	D scrp-cjk
D node-ali	D scrp-eth
D node-bck	D scrp-ini
D node-fnt	D scrp-tha

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D sort-lan	D trac-vis
D spac-ali	D type-ini
D spac-brk	D typo-adj
D spac-chr	D typo-blđ
D spac-hor	D typo-brk
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D spac-prf	D typo-dha
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D spac-ver	D typo-dig
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D strc-blk	D typo-drp
D strc-con	D typo-duc
D strc-doc	D typo-fkr
D strc-flt	D typo-fln
D strc-ini	D typo-hid
D strc-itm	D typo-inj
D strc-lev	D typo-itc
D strc-lst	D typo-krn
D strc-mar	D typo-lan
D strc-mat	D typo-lbx
D strc-not	D typo-man
D strc-num	D typo-mar
D strc-pag	D typo-ovl
D strc-ref	D typo-pag
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D strc-rsc	D typo-pnc
D strc-syn	D typo-prc
D strc-tag	D typo-rep
D strc-usr	D typo-rub
D symb-emj	D typo-spa
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D tabl-ali	D typo-syn
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F downgradebytebitmap	F mf_blob_index
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F lmt_glyphshape_depth	F mf_start_saving_data
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F lmt_glyphshape_start	F numeric
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F lmt_start_potrace	F quadruple
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F gethashentries  
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F getinternalactions  
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F getlastadddtype  
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F getobjectdata  
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F getobjectstacking  
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F getprimitivelegacies  
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F injectcmykcolor  
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F injectinteger  
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F copyleft		F protrusionskippable	
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F currentattributes		F remove	
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F flushlist		F size	
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D fillvalues	F locate
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F flushnode	F maxboxwidth
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F tol6dot16  
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F getnumber		F __eq	
F getobjectrange		F __le	
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F \_\_shl  
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F acos  
F asin  
F atan  
F band  
F bor  
F bxor  
F ceil  
F conj  
F copy  
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F expand  
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F getreadfilename	D relations
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S homedir	F renewcache
F ignorelibrary	F repath
F initialized	F reset
F installinputfilehandler	F resetextrapaths
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F jobpath	F resolve
F joinpath	D savers
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F load	F scanfiles
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D loaders	F setenv
F loadluafile	F showdetails
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F loadtime	F simplescanfiles
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S luacnffallback	F splitmethod
S luacnfname	F splitpath
S luacnfspec	F stackpath
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- F stoptiming
- D suffixes
- D suffixmap
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- F texdatablob
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- F blockrequire
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- D colors
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- F getdata
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- F installdataset
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- F \_\_gc
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- F contains
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- F HASH256
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 F readcline  
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 F readdouble  
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 F readfixed2  
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 F readfloat  
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 F readinteger1  
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 F gethashstate  
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 F getlookupstate  
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 F disable

F enable	F lower
F flush	F match
F initialize	F nospaces
F push	F octtointeger
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F stop	F pack
F synchronize	F packrowscolumns
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F autodouble	F quoted
F autosingle	F rep
F booleanstring	F replacenewlines
F byte	F reverse
F bytepairs	F split
F bytes	F splitintolines
F bytetable	F splitlines
F char	F splitup
F characterpairs	F strip
F characters	F sub
F checkedsplit	F texhashed
F chrtointeger	F texnewlines
F collapsespaces	F tformat
F containsws	F toHEX
F count	F toboolean
F dectointeger	F tobytes
F dump	F tocontext
F escapedpattern	F todec
F escapedquotes	F todimen
F f6	F tohex
F find	F tonodes
F format	F topattern
F formatter	F totable
D formatters	F tounicode16
F fullstrip	F toutf
F gmatch	F toutf16
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F hextocharacters	F toutf8
F hextointeger	F tracedchar
F is_boolean	F unescapedquotes
F is_empty	F unpack
F itself	F unquote
F len	F unquoted
F limit	F upper
F linetable	F utf16toutf8
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F utfcharacter  
F utfcharacters  
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F are\_equal  
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F compact  
F concat  
F contains  
F copy  
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F derive  
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F flattened  
F fromhash  
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F has\_one\_entry  
F hashed  
F identical  
F imerge  
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F insert  
F is\_empty  
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F keys  
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F makeweak  
F merge  
F merged  
F mirrored  
F move  
F pack  
F prepend  
F print  
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F setmetatablecall  
F setmetatableindex  
F setmetatableindices  
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F sort  
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F sortedhash  
F sortedhashkeys  
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D automigrationcodes  
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F badness  
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F balance	F getattribute
D balancecallbackcodes	F getautomigrationvalues
D boxcontinuationcodes	F getautoparagraphvalues
D boxoptioncodes	F getbadnessmodevalues
D breakcodes	F getbalancecallbackvalues
D buildcodes	F getbalanceparameterfields
D charactercontrolcodes	F getbalanceresultfields
D charactertagcodes	F getbalancestepoptionvalues
F chardef	F getbox
D classoptioncodes	F getboxcontinuationvalues
D conditionals	F getboxdir
D constants	F getboxoptionvalues
F cprint	F getboxresourcebox
N ctdcatcodes	F getboxresourcedimensions
N ctxcatcodes	F getbreakcontextvalues
F definefont	F getbuildcontextvalues
F dimensiondef	F getcardinalvalue
D directioncodes	F getcatcode
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D discoptioncodes	F getcharactercontrolvalues
D discpartcodes	F getcharactertagvalues
F dontcomplain	F getcount
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F enableprimitives	F getdelayedgluelocationvalues
F error	F getdelayedgluetargetvalues
F expandasvalue	F getdelcode
D experiments	F getdelcodes
F extraprimitives	F getdimen
F fatalerror	F getdimensionvalue
D fillcodes	F getdirectionvalues
D flagcodes	F getdiscoptionvalues
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F fontname	F getdoublescriptoptionvalues
F forcehmode	F getemptyparagraphmodevalues
F forceinputstatefile	F geterrorrecoverymodevalues
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F fprint	F getfillvalues
D frozenparcodes	F getflagvalues
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F getadjustoptionvalues	F getfontdimension
F getalignmentcontextvalues	F getfontoffamily
F getamcode	F getfrozenparvalues
F getappendadjustcontextvalues	F getglue
F getappendmigratecontextvalues	F getglueoptionvalues

F getglyphdata	F getlocalbox
F getglyphdiscvalues	F getlocalboxlocations
F getglyphoptionvalues	F getlocallevel
F getglyphprotectionvalues	F getmark
F getglyphscales	F getmarknames
F getglyphscript	F getmath
F getglyphstate	F getmathclassoptionvalues
F getgroupvalues	F getmathcode
F gethccode	F getmathcodes
F gethelptext	F getmathcontrolvalues
F gethmcodes	F getmathdir
F gethyphenationvalues	F getmathgluevalues
F getiftypes	F getmathoptionvalues
F getinputstatefile	F getmathparametervalues
F getinputstateline	F getmathscriptordervalue
F getinputstatemode	F getmathscriptsmodevalues
F getinsertcategoryvalues	F getmathstylenamevalues
F getinsertcontent	F getmathstylevalues
F getinsertdepth	F getmathstylevariant
F getinsertdistance	F getmathsurroundvalues
F getinsertheight	F getmathvariantpresets
F getinsertlimit	F getmathvariantvalues
F getinsertmaxplaced	F getmeasure
F getinsertmultiplier	F getmissingcharactervalues
F getinsertoptionvalues	F getmode
F getinsertsplitvalues	F getmodevalues
F getinsertwidth	F getmuglue
F getintegervalue	F getmuskip
F getinteraction	F getmvloptionvalues
F getinteractionmodes	F getnest
F getiovalues	F getnestfields
F getkerneloptionvalues	F getnestlevel
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F getlargestusedmark	F getnormalizelinevalues
F getlccode	F getnormalizeparvalues
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F getlinebreakresultfields	F getoutputactive
F getlinebreakstatevalues	F getoverloadstate
F getlinedir	F getpacktypevalues
F getlist	F getpagecontextvalues
F getlistanchorvalues	F getpagestate
F getlistfields	F getpagestatevalues
F getlistgeometryvalues	F getparagraphfillmodevalues
F getlistsignvalues	F getparagraphoptionvalues

F getparametermodevalues	N inicatcodes
F getparcontextvalues	D insertcategorycodes
F getpardataspecifications	D insertoptioncodes
F getpardir	D insertsplitcodes
F getparmodevalues	F integerdef
F getparstate	D interactioncodes
F getparstatefields	F isattribute
F getpartriggervalue	F isbox
F getpenaltyoptionvalues	F iscount
F getpositvalue	F isdefined
F getprepoststatevalues	F isdimen
F getprimitivelegacies	F isfloat
F getprimitiveorigins	F isglue
F getprotrusionboundaryvalues	F ismuglue
F getregisterindex	F ismuskip
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F getrunstate	F isskip
F getrunstatevalues	F istoks
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F getsnappingvalues	D listanchorcodes
F getspacefactorvalues	D listgeometrycodes
F getspacestrialvalues	D listsigncodes
F getspacecode	N luacatcodes
F getspecialmathclassvalues	F mathchardef
F getspecification	D mathcontrolcodes
F getspecificationoptionvalues	D mathoptioncodes
F gettextcontrolvalues	D mathparametercodes
F gettextdir	D mathscriptordercodes
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D penaltyoptioncodes	F sethccode
F poplocal	F sethmcode
F popsavelevel	F setinputstatefile
F positdef	F setinputstateline
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F print	F setinsertdistance
D protrusionboundarycodes	F setinsertlimit
N prtcategories	F setinsertmaxplaced
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F pushesavelevel	F setintegervalue
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F quittoks	F setlccode
F resetparagraph	F setlinedir
N rlnccategories	F setlist
F romannumerals	F setlocalbox
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F runlocal	F setmathdir
D runstatecodes	F setmuglue
F runstring	F setmuskip
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F scale	F setpardir
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F set	F setrunstate
F setamcode	F setsfcode
F setattribute	F setskip
F setbalanceshape	F setspcode
F setbox	F settextdir
F setboxdir	F settoks
F setcardinalvalue	F setuccode
F setcatcode	D shapingpenaltiescodes
F setccode	F shiftparshape
F setconditional	F shipout
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D systemmodes		<b>texisdefined</b>	data table
F takebox		<b>texmodes</b>	data table
N texcatcodes		<b>texsystemmodes</b>	data table
D textcontrolcodes		<b>thirddata</b>	table
F tonumber		<b>toboolean</b>	function
F toscaled		<b>todecimal</b>	function
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F tprint		F expand	
F trackedattribute		F expand_macro	
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F write		F get_cstoken	
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N functionsize		F get_frozen	
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B kpse_init		F get_immutable	
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S shell_escape		F get_instance	
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F getselectorvalues		F get_primitive	
F getsourcefilename		F get_protected	
F setlogfile		F get_range	
F terminal		F get_tok	
F write		F get_tolerant	
F write_nl		F getactive	

F getcmdchrscs	F isnextchar
F getcmdname	F istoken
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F getcommandvalues	F new
F getconstant	F peek_next
F getsname	F peek_next_char
F getcstoken	F peek_next_expanded
F getdimension	F peeknext
F getexpandable	F peeknextchar
F getexpansion	F peeknextexpanded
F getfields	F pop_macro
F getflags	F popmacro
F getfrozen	F push_macro
F getfunctionvalues	F pushmacro
F getid	F put_back
F getimmutable	F put_next
F getindex	F putback
F getinstance	F putnext
F getinteger	F save_lua
F getlength	F savelua
F getmacro	F scan_argument
F getmeaning	F scan_box
F getnoaligned	F scan_cardinal
F getparameters	F scan_char
F getpermanent	F scan_cmdchr
F getprimitive	F scan_cmdchr_expanded
F getprimitives	F scan_code
F getprotected	F scan_csname
F getrange	F scan_delimited
F gettok	F scan_dimen
F gettolerant	F scan_float
F gobble	F scan_glue
F gobble_dimension	F scan_integer
F gobble_integer	F scan_key
F gobbledimension	F scan_keyword
F gobbleinteger	F scan_keyword_cs
F grab	F scan_letters
F grabstring	F scan_luacardinal
F inhibit	F scan_luainteger
F is_defined	F scan_luanumber
F is_next_char	F scan_next
F is_token	F scan_next_char
F isactivestring	F scan_next_expanded
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F scan_scale	F scantoken
F scan_skip	F scantokencode
F scan_string	F scantokenlist
F scan_token	F scantokenstring
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F scan_tokenlist	F scanvalue
F scan_toks	F scanword
F scan_value	F serialize
F scan_word	F set_dimension
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F scanbox	F set_lua
F scancardinal	F set_macro
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F scancmdchr	F setinteger
F scancmdchrexplanded	F setlua
F scancode	F setmacro
F scancsname	F setmacrofrommark
F scanctestoken	F setmacrotonothing
F scandelimited	F skip_next
F scandetokened	F skip_next_expanded
F scandimen	F skipnext
F scandimenargument	F skipnextexpanded
F scandimension	F type
F scandimensionargument	F undefine_macro
F scanfloat	F undefinemacro
F scanglue	
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F scanluainteger	
F scanluanumber	
F scannext	
F scannextchar	
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F compile
F constant
F create
F defined
F flags
F getinteger
F gobble
F isactivestring
F isdefined
F istoken
F new
F pickup
F popmacro
F pushmacro
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<b>tonumber</b>	function	F unescapepet	
<b>tostring</b>	function	<b>userdata</b>	table
<b>tracers</b>	table	<b>utf</b>	table
F printerror		F byte	
F printwarning		F bytewidth	
F showlines		F char	
<b>trackers</b>	table	F characters	
D data		F chrln	
F default		F count	
F disable		F filetype	
F dumpshashtofile		F is_valid	
F enable		F len	
F list		F length	
S name		F lower	
F register		F remapper	
F report		F replacer	
F reset		F split	
F savehash		F splitlines	
F show		F sub	
F value		F substituter	
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<b>typesetters</b>	table	F toentities	
F marksuspects		F tostring	
F showinvisibles		F totable	
F showsuspects		F upper	
<b>unpack</b>	function	F ustring	
<b>updaters</b>	table	F utf16_to_utf8_be	
F apply		F utf16_to_utf8_be_t	
F register		F utf16_to_utf8_le	
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F addscheme		F utf16_to_utf8_t	
F barepath		F utf32_to_utf8_be	
F construct		F utf32_to_utf8_be_t	
F decode		F utf32_to_utf8_le	
F encode		F utf32_to_utf8_le_t	
F escape		F utf32_to_utf8_t	
F filename		F utf8_to_utf16	
F hashed		F utf8_to_utf16_be	
F hasscheme		F utf8_to_utf16_le	
F query		F utf8_to_utf8_t	
F split		F values	
F toquery		F xstring	

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F char		F mul	
S charpattern		F negate	
F codepoint		F new	
F codes		F normalize	
F len		F onecolumn	
F offset		F onerow	
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<b>vector</b>	table	F remove	
F add		F replace	
F append		F round	
F average		F rowechelon	
F ceiling		F set	
F checkoverlap		F setepsilon	
F collectoverlap		F setnext	
F concat		F setrc	
F copy		F setstacking	
F crossproduct		F slice	
F delete		F sort	
F determinant		F sub	
F div		F swap	
F equal		F tostring	
F exchange		F totable	
F floor		F transpose	
F get		F triangulate	
F getdimensions		F truncate	
F getepsilon		F type	
F getmemory		<b>visualizers</b>	table
F getmesh		D escapepatterns	
F getrc		F getspecification	
F getrow		F getvisualizer	
F getsize		F load	
F getstacking		F makenested	
F gettype		F makepattern	
F homogenize		F newgrammar	
F identity		F newhandler	
F inner		F parsedxml	
F insert		F pattern	
F inverse		F register	
F ismesh		F registerescapecommand	
F ispoints		F registerescapepline	
F issingular		F registerescapepattern	
F isvector		S signal	
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D specifications  
F visualize  
F visualizebuffer  
F visualizefile  
F visualizestring  
F write  
F writeargument  
F writedefault  
F writeemptyline  
F writenewline  
F writespace

**warn**

**xcomplex**

F I  
F \_\_add  
F \_\_div  
F \_\_eq  
F \_\_mul  
S \_\_name  
F \_\_pow  
F \_\_sub  
F \_\_tostring  
F \_\_unm  
F abs  
F acos  
F acosh  
F arg  
F asin  
F asinh  
F atan  
F atanh  
F conj  
F cos  
F cosh  
F dawson  
F erf  
F erfc  
F erfcx  
F erfi  
F exp  
F i  
F imag  
F log  
F new

**function**

**table**

F pow  
F proj  
F real  
F sin  
F sinh  
F sqrt  
F tan  
F tanh  
F topair  
F tostring  
F totable  
F voigt  
F voigt\_hwhm

**xdecimal**

F \_\_add  
F \_\_band  
F \_\_bor  
F \_\_bxor  
F \_\_div  
F \_\_eq  
F \_\_idiv  
F \_\_le  
F \_\_lt  
F \_\_mod  
F \_\_mul  
S \_\_name  
F \_\_pow  
F \_\_shl  
F \_\_shr  
F \_\_sub  
F \_\_tostring  
F \_\_unm  
F abs  
F band  
F bor  
F bxor  
F conj  
F copy  
F exp  
F getprecision  
F ln  
F log  
F max  
F min

**table**

F minus		F greaterequal
F new		F hull
F plus		F intersect
F pow		F less
F rotate		F lessequal
F setprecision		F log
F shift		F log10
F sqrt		F log1p
F toengstring		F log2
F tonumber		F mid
F tostring		F mod
F trim		F new
<b>xinterval</b>	<b>table</b>	F neweps
F __add		F pow
F __div		F seteq
F __eq		F setge
F __le		F setgt
F __lt		F settle
F __mod		F settl
F __mul		F sin
S __name		F sinh
F __pow		F sqr
F __sub		F sqrt
F __tostring		F tan
F __unm		F tanh
F abs		F topair
F acos		F tostring
F acosh		F totable
F asin		F usedendian
F asinh		F within
F asstring		<b>xmath</b>
F atan		F acos
F atanh		F acosh
F cos		F asin
F cosh		F asinh
F diameter		F atan
F equal		F atan2
F erf		F atanh
F erfc		F cbrt
F exp		F ceil
F exp10		F copysign
F exp2		F cos
F expm1		F cosh
F greater		F crossproduct
		<b>table</b>

F deg	F sin	
F dotproduct	F sinh	
F erf	F sqrt	
F erfc	F tan	
F exp	F tanh	
F exp2	F tgamma	
F expm1	F trunc	
F fabs	F y0	
F fdim	F y1	
F floor	F yn	
F fma	xml	table
F fmax	F addentitiesdoctype	
F fmin	F addspecialcode	
F fmod	F after	
F frexp	F all	
F gamma	F applylpath	
F hypot	F applyselector	
N inf	F assign	
F isfinite	F attribute	
F isinf	F badinclusions	
F isnan	F before	
F isnormal	F body	
F j0	F cdata	
F j1	F cdatatotext	
F jn	F checkbom	
F ldexp	F checkedempty	
F lgamma	F checkerror	
F log	F checknamespace	
F log10	F checkns	
F log1p	F cleansed	
F log2	F collect	
F logb	F collect_elements	
F modf	F collect_tags	
N nan	F collect_texts	
F nearbyint	F collected	
F nextafter	F collecttexts	
F normalize	F compactelement	
N pi	F content	
F pow	F convert	
F rad	F copy	
F remainder	F count	
F remquo	F cprint	
F round	S defaultprotocol	
F scalbn	F delete	

F delete_element	F load
F despecialized	F lpath
F each	F lpathcached
F each_element	F lpathcalls
F elements	F lshow
F elementtocdata	F makestandalone
F empty	F match
D entities	F name
F erase	F newhandlers
F errorhandler	F nodesettostring
F escaped	F originalload
F expand	F package
F fillin	F parent
F filter	U parsedentitylpeg
F first	F popmatch
F found	F position
F getbuffer	D privatecodes
F gethandlers	F privatetoken
F gethandlersfunction	F process
F include	F process_attributes
F inclusion	F process_elements
F inclusions	F processattributes
F index	F pure
F inheritattributes	F pushmatch
F inheritedconvert	F raw
F inject	F registerentity
F inject_element	F registersn
F inject_element_after	F reindex
F inject_element_before	F remap_name
F injectafter	F remap_namespace
F injectbefore	F remap_tag
F insert	F remapname
F insert_element	F remapnamespace
F insert_element_after	F remaptag
F insert_element_before	F rename
F insertafter	F renamespace
F insertbefore	U reparsedentitylpeg
F insertcdata	F replace
F insertcomment	F replace_element
F inspect	F resetinjectors
F is_valid	F resolvens
F kind	F root
F last	F save
F lastmatch	F selection

F separate		F bounds	
F serialize		F composite	
F serializetotext		F crop	
F setcdata		F edgepoint	
F setcomment		F flatten	
F sethandlersfunction		F get	
F setinjectors		F getcolor	
F setproperty		F getdepth	
F settings		F getnormal	
D specialcodes		F getopacity	
F sprint		F getsize	
F string		F implicit	
F strip		F iszbuffer	
F strip_whitespace		F meshmesh	
F stripelement		F new	
F tripleleadingspaces		F points	
F table		F process	
F text		F project	
F textonly		F resolve	
F texttocdata		F set	
F tocdata		F setcolor	
F toelement		F setdepth	
F toString		F setnormal	
F totable		F setopacity	
F toxml		F setup	
F tprint		F smoothen	
F traverse		F stipple_0	
F unescaped		F stipple_1	
U unescapedentitylpeg		F stipple_2	
F unprivatized		F stipple_3	
F unspecialized		F stipple_4	
F wipe		F stipple_setup	
F withelement		F tobytes	
F withelements		F toString	
F wrap		F totable	
<b>xpcall</b>	function	F transform	
<b>xzip</b>	table	F trianglebounds	
F adler32		F triangles	
F compress		F type	
F compresssize		<b>zip</b>	table
F crc32		F closearchive	
F decompress		F openarchive	
F decompresssize		<b>zlib</b>	table
<b>zbuffer</b>	table	F adler32	

F compress

F decompress

F compresssize

F decompresssize

F crc32

# graphics (context)

## backgrounds

table

- F fetchmultipar
- F pair
- F path
- F point

## bitmaps

table

- F flush
- F load
- F new
- F placeholder
- F tocontext

## bpsize

function

## colorspaces

table

## identifiers

table

- F bitmap
- F jp2
- F jpeg
- F jpg
- F png

## identify

function

## registerpdfcompactor

function

## registerpdffont

function

## synchronizers

table

- F collapse
- F collect
- F extend
- F getbottom
- F getd
- F geth
- F getkind
- F getsize
- F gettask
- F gettop
- F getw
- F getx
- F gety
- F prune

## gzip (context)

**compress** function  
**compressed** function  
**decompress** function

**load** function  
**save** function  
**suffix** function

## helper (context)

**getprofile** function  
**mathnested** function  
**mathprocess** function  
**mathstep** function  
**snapindeed** function

**snaplist** function  
**traversecharmethod** function  
**traverseglyphmethod** function  
**traversehorizontal** function  
**traversevertical** function

# images (context)

<b>check</b>	function	B crop	
<b>checksize</b>	function	B media	
<b>copy</b>	function	B none	
<b>create</b>	function	B trim	
<b>embed</b>	function	<b>storedata</b>	function
<b>embedfromstore</b>	function	<b>totable</b>	function
<b>fetchdata</b>	function	<b>types</b>	table
<b>keys</b>	table	N jbig2	
<b>print</b>	function	N jp2	
<b>resetdata</b>	function	N jpg	
<b>resetstore</b>	function	N none	
<b>scan</b>	function	N pdf	
<b>serialize</b>	function	N png	
<b>sizes</b>	table	N stream	
B art		<b>wrap</b>	function
B bleed			

# interactions (context)

**attachments** data table

**fields** table

F clone

F define

F defineset

F insert

**general** table

F getidentity

F getidentityvariable

**help** table

F collect

F reference

F register

**javascripts** table

F addtopreamble

F code

D codes

F flushpreambles

D functions

D preambles

F setpreamble

F storecode

F storepreamble

F usepreamblenow

F usescripts

**linkedList** data table

**pages** table

F setpagetransition

F setupcanvas

**references** table

F setcloseddocumentaction

F setclosepageaction

F setopendocumentaction

F setopenpageaction

**renderings** data table

# interfaces (context)

<b>arrays</b>	table	<b>namesofscanners</b>	table
<b>cachedsetups</b>	data table	<b>namespaces</b>	table
<b>cachesetup</b>	function	F define	
<b>cardinals</b>	table	F list	
<b>checkedspecification</b>	function	<b>numbers</b>	table
<b>complete</b>	data table	<b>registernamespace</b>	function
<b>constants</b>	data table	<b>registerscanner</b>	function
<b>corenamespaces</b>	data table	<b>scanners</b>	data table
<b>currentinterface</b>	string	<b>setconstant</b>	function
<b>currentresponse</b>	string	<b>setcount</b>	function
<b>definecommand</b>	function	<b>setdimen</b>	function
<b>defined</b>	function	<b>setelement</b>	function
<b>doifelsemessage</b>	function	<b>setformat</b>	function
<b>elements</b>	data table	<b>setmacro</b>	function
<b>floats</b>	table	<b>setmessage</b>	function
<b>formats</b>	data table	<b>setmessages</b>	function
<b>getmessage</b>	function	<b>settranslation</b>	function
<b>getnamespace</b>	function	<b>setupstrings</b>	data table
<b>getsetupstring</b>	function	<b>setvariable</b>	function
<b>hashedsetups</b>	data table	<b>showmessage</b>	function
<b>implement</b>	function	<b>storedscanners</b>	data table
<b>integers</b>	table	<b>tolist</b>	function
<b>interfacedcommand</b>	function	<b>translations</b>	data table
<b>interfaces</b>	table	<b>usednamespaces</b>	data table
<b>knownscanner</b>	function	<b>variables</b>	data table
<b>message</b>	function	<b>writestatus</b>	function
<b>nameofscanner</b>	function		

## io (basic lua)

<b>ask</b>	function	<b>open</b>	overloaded function
<b>bytes</b>	function	<b>output</b>	overloaded function
<b>characters</b>	function	<b>pathseparator</b>	string
<b>close</b>	function	<b>popen</b>	overloaded function
<b>copydata</b>	function	<b>read</b>	function
<b>exists</b>	function	<b>readall</b>	function
<b>fileseparator</b>	string	<b>readnumber</b>	function
<b>flush</b>	function	<b>readstring</b>	function
<b>gobble</b>	function	<b>savedata</b>	function
<b>input</b>	overloaded function	<b>size</b>	function
<b>lines</b>	overloaded function	<b>stderr</b>	userdata
<b>loadchunk</b>	function	<b>stdin</b>	userdata
<b>loaddata</b>	function	<b>stdout</b>	userdata
<b>loadlines</b>	function	<b>tmpfile</b>	function
<b>newreader</b>	function	<b>type</b>	function
<b>noflines</b>	function	<b>write</b>	function

# job (context)

<b>comment</b>	function	D collected	
<b>datasets</b>	table	F countervalue	
D collected		F extend	
F extend		F realpage	
F getdata		F realpageorder	
F setdata		F setstate	
D tobesaved		D tobesaved	
<b>disablesave</b>	function	<b>parwrappers</b>	table
<b>embedded</b>	table	D collected	
D collected		D tobesaved	
D tobesaved		<b>positions</b>	table
<b>fileobjreferences</b>	table	F b_column	
D collected		F b_region	
D tobesaved		F c	
<b>files</b>	table	D collected	
D collected		F column	
F context		F columnofpos	
B forcerun		F copy	
F run		F depth	
D tobesaved		F e_column	
<b>getrandomseed</b>	function	F e_region	
<b>initialize</b>	function	F enhance	
<b>linkedlists</b>	table	F extra	
D collected		F get	
D tobesaved		F getcolumndata	
<b>load</b>	function	F getfree	
<b>loadother</b>	function	F gethpos	
<b>meshedup</b>	table	F gethvrpos	
D collected		F getpos	
D tobesaved		F getreserved	
<b>objects</b>	table	F getrpos	
D collected		F getsync	
F get		F gettobesaved	
F number		F getvpos	
F page		F hangafter	
F save		F hangindent	
F set		F height	
D tobesaved		F hsize	
<b>pack</b>	boolean	N lastr	
<b>packversion</b>	number	N lastx	
<b>pagestates</b>	table	N lasty	

F leftskip	F upperleft	
F lowerleft	F upperright	
F lowerright	F used	
F markregionbox	F whd	
F n	F width	
F onsamepage	F x	
F overlapping	F xy	
F p	F y	
F page	<b>register</b>	function
F paragraph	<b>save</b>	function
F parindent	<b>structure</b>	table
F position	D collected	
F r	<b>variables</b>	table
F region	D checksums	
F registerhandlers	D collected	
F replace	F getchecksum	
F rightskip	F makechecksum	
F set	F restore	
F setall	F save	
F setregionbox	F setchecksum	
F setspec	D tobesaved	
F settobesaved	<b>version</b>	number
D tobesaved		

## language (basic tex)

<b>clean</b>	function	<b>id</b>	function
<b>clearhyphenation</b>	function	<b>new</b>	function
<b>clearpatterns</b>	function	<b>patterns</b>	function
<b>current</b>	function	<b>postexhyphenchar</b>	function
<b>gethjcode</b>	function	<b>posthyphenchar</b>	function
<b>has_language</b>	function	<b>preexhyphenchar</b>	function
<b>hyphenate</b>	function	<b>prehyphenchar</b>	function
<b>hyphenation</b>	function	<b>sethjcode</b>	function
<b>hyphenationmin</b>	function	<b>setwordhandler</b>	function

# languages (context)

<b>addgoodiesdata</b>	function	<b>numbers</b>	data table
<b>addgoodiesfile</b>	function	<b>pdflanguage</b>	function
<b>appliedoptions</b>	table	<b>postexhyphenchar</b>	function
<b>associate</b>	function	<b>posthyphenchar</b>	function
<b>associated</b>	data table	<b>preexhyphenchar</b>	function
<b>association</b>	function	<b>prehyphenchar</b>	function
<b>counters</b>	data table	<b>registered</b>	data table
<b>current</b>	function	<b>registeredactions</b>	table
<b>data</b>	data table	<b>replacements</b>	table
<b>decimals</b>	data table	F add	
<b>define</b>	function	F addlist	
<b>explicitthyphen</b>	function	F handler	
<b>exportlanguage</b>	function	F set	
<b>flatten</b>	function	<b>serializediscretionary</b>	function
<b>frequencies</b>	table	<b>setexceptions</b>	function
F averagecharwidth		<b>setgoodieshandler</b>	function
F getdata		<b>setoptions</b>	function
<b>getdata</b>	function	<b>setpatterns</b>	function
<b>getmetadata</b>	function	<b>setsynonym</b>	function
<b>getnumber</b>	function	<b>setwordhandler</b>	function
<b>goodiefiles</b>	function	<b>showdiscretionaries</b>	function
<b>hjcounts</b>	table	<b>strippedgoodiewords</b>	function
<b>hyphenate</b>	function	<b>tolang</b>	function
<b>hyphenators</b>	table	<b>transliteration</b>	table
D featuresets		F exception	
F handler		F handler	
F popmethod		F register	
F pushmethod		F set	
F setmethod		F use	
F setup		<b>unload</b>	function
F showhyphenationtrace		<b>urls</b>	table
<b>installed</b>	function	D characters	
<b>installhandler</b>	function	N lefthyphenmin	
<b>labels</b>	table	D mapping	
F define		B packslashes	
F split		N righthyphenmin	
<b>loadable</b>	function	F setcharacters	
<b>loadwords</b>	function	<b>version</b>	number
<b>logger</b>	table	<b>visualizediscretionaries</b>	function
F report		<b>words</b>	table
<b>nofflattened</b>	function	F check	

F disable  
F enable  
B enables

F found  
F load  
N threshold

# layouts (context)

**getcanvas**           function  
**getpagedimensions** function  
**setupcanvas**        function

**status**            table  
    F isleftpage  
    F lefttorrightpageaction

## lfs (extra lua)

<b>attributes</b>	overloaded function	<b>link</b>	overloaded function
<b>chdir</b>	overloaded function	<b>mkdir</b>	overloaded function
<b>currentdir</b>	function	<b>mkdirs</b>	function
<b>dir</b>	overloaded function	<b>modification</b>	function
<b>isdir</b>	overloaded function	<b>readlink</b>	function
<b>isfile</b>	overloaded function	<b>rmdir</b>	overloaded function
<b>isfound</b>	function	<b>setexecutable</b>	function
<b>isreadabledir</b>	function	<b>symlink</b>	function
<b>isreadablefile</b>	function	<b>symlinktarget</b>	function
<b>iswriteabledir</b>	function	<b>touch</b>	overloaded function
<b>iswriteablefile</b>	function	<b>walkdir</b>	function

## libraries (context)

**basiclua** data table

**basictex** data table

**builtin** data table

**extralua** data table

**extratex** data table

**functions** data table

**globals** data table

**optional** data table

# lrx (context)

<b>color</b>	function	<b>lrxfile</b>	function
<b>convert</b>	function	<b>loadedfile</b>	function
<b>convertfile</b>	function	<b>make</b>	function
<b>convertstring</b>	function	<b>new</b>	function
<b>einject</b>	function	<b>popupfile</b>	function
<b>eprint</b>	function	<b>print</b>	function
<b>escape</b>	function	<b>pv</b>	function
<b>finalized</b>	function	<b>report</b>	function
<b>finject</b>	function	<b>reset</b>	function
<b>fprint</b>	function	<b>result</b>	function
<b>get</b>	function	<b>set</b>	function
<b>getvariables</b>	function	<b>show</b>	function
<b>htmfile</b>	function	<b>stripcss</b>	function
<b>html</b>	table	<b>tv</b>	function
F a		<b>type</b>	function
F td		<b>urlescape</b>	function
F th		<b>variable</b>	function
<b>include</b>	function	<b>variables</b>	table
<b>inherited</b>	table	S color-background-blue	
S color-background-four		S color-background-body	
S color-background-one		S color-background-green	
S color-background-three		S color-background-main	
S color-background-two		S color-background-purple	
S title		S color-background-yellow	
<b>initialize</b>	function	S title-default	
<b>inject</b>	function		

# logs (context)

<b>application</b>	function	<b>setformats</b>	function
<b>categories</b>	function	<b>setformatters</b>	function
<b>direct</b>	function	<b>setlogfile</b>	function
<b>disable</b>	function	<b>setmessenger</b>	function
<b>enable</b>	function	<b>setprocessor</b>	function
<b>finalactions</b>	function	<b>settarget</b>	function
<b>flush</b>	function	<b>settimedlog</b>	function
<b>loggingerrors</b>	function	<b>settranslations</b>	function
<b>messenger</b>	function	<b>show</b>	function
<b>new</b>	function	<b>start_page_number</b>	function
<b>newline</b>	function	<b>start_run</b>	function
<b>poplogfile</b>	function	<b>starterrorlogging</b>	function
<b>poptarget</b>	function	<b>startfilelogging</b>	function
<b>private</b>	table	<b>status</b>	function
F enablepagetiming		<b>stop_page_number</b>	function
F getpagetiming		<b>stoperrorlogging</b>	function
<b>pushlogfile</b>	function	<b>stopfilelogging</b>	function
<b>pushtarget</b>	function	<b>subdirect</b>	function
<b>registerfinalactions</b>	function	<b>subreport</b>	function
<b>report</b>	function	<b>system</b>	function
<b>reporter</b>	function	<b>texerrormessage</b>	function
<b>resetlogfile</b>	function	<b>writer</b>	function

# lpdf (context)

<b>action</b>	function	<b>copystring</b>	function
<b>adddocumentcolorspace</b>	function	<b>copyunicode</b>	function
<b>adddocumenttextgstate</b>	function	<b>deferredobject</b>	function
<b>adddocumentpattern</b>	function	<b>delayedobject</b>	function
<b>adddocumentshade</b>	function	<b>destinationspecification</b>	function
<b>addtocatalog</b>	function	<b>dictionary</b>	function
<b>addtoinfo</b>	function	<b>docstring</b>	function
<b>addtonames</b>	function	<b>encodingvalues</b>	table
<b>addtopageattributes</b>	function	N base16	
<b>addtopageresources</b>	function	N base85	
<b>addtopagesattributes</b>	function	N decoded	
<b>addxmpinfo</b>	function	N encoded	
<b>annotationspecification</b>	function	N plain	
<b>array</b>	function	N utf16be	
<b>attachmentsymbols</b>	function	N utf16le	
<b>boolean</b>	function	<b>endpoints</b>	table
<b>border</b>	function	S Div	
<b>checkedkey</b>	function	S Part	
<b>checkedresources</b>	function	S Sect	
<b>checkedvalue</b>	function	<b>epdf</b>	table
<b>circularshade</b>	function	F allcontent	
<b>close</b>	function	F analyzefonts	
<b>cmykcode</b>	function	F contentplugin	
<b>collectedresources</b>	function	F contenttostring	
<b>color</b>	function	F contenttotext	
<b>colorspace</b>	function	D encryptioncodes	
<b>colorspaceconstants</b>	data table	F expanded	
<b>colorspec</b>	function	F expandwidths	
<b>colorvalue</b>	function	F fontplugin	
<b>colorvalues</b>	function	F getpagecontent	
<b>commentssymbols</b>	function	F getstructure	
<b>compressdata</b>	function	F load	
<b>compresslevel</b>	function	F mergewidths	
<b>constant</b>	function	D objectcodes	
<b>copyarray</b>	function	F objectrange	
<b>copyboolean</b>	function	F objecttype	
<b>copyconstant</b>	function	F pageplugin	
<b>copydictionary</b>	function	F parsecontent	
<b>copyfloat</b>	function	F producer	
<b>copyinteger</b>	function	F unload	
<b>copynumber</b>	function	F verboseobject	

<b>escaped</b>	function	S \	
<b>finalizedocument</b>	function	<b>h_hex_4</b>	table
<b>finalizepage</b>	function	<b>hasmatrix</b>	function
<b>finalizesignature</b>	function	<b>immediateobject</b>	function
<b>finishtransparencycode</b>	function	<b>includeimage</b>	function
<b>flags</b>	table	<b>initialize</b>	function
<b>flushfonts</b>	function	<b>injectors</b>	table
<b>flushgroup</b>	function	F bitmap	
<b>flushobject</b>	function	F jp2	
<b>flushstreamfileobject</b>	function	F jpg	
<b>flushstreamobject</b>	function	F png	
<b>fonts</b>	table	<b>injectxmpinfo</b>	function
F color_direct		<b>insertxmpinfo</b>	function
F color_indirect		<b>lastreferredpage</b>	function
<b>formats</b>	data table	<b>layerreference</b>	function
<b>frombytes</b>	function	<b>limited</b>	function
<b>fromeight</b>	function	<b>linearshade</b>	function
<b>frompdfdoc</b>	function	<b>literal</b>	function
<b>fromsixteen</b>	function	<b>majorversion</b>	function
<b>getcatalog</b>	function	<b>makenametree</b>	function
<b>getcompression</b>	function	<b>minorversion</b>	function
<b>getfontname</b>	function	<b>noffontregistries</b>	function
<b>getfontobjectnumber</b>	function	<b>nofpages</b>	function
<b>getformatoption</b>	function	<b>null</b>	function
<b>getinfo</b>	function	<b>number</b>	function
<b>getmatrix</b>	function	<b>object</b>	function
<b>getnofpages</b>	function	<b>objectcompresslevel</b>	function
<b>getpageproperties</b>	function	<b>pagereference</b>	function
<b>getpagereference</b>	function	<b>patternstream</b>	function
<b>getpagetags</b>	function	<b>pdfcolor</b>	function
<b>getpos</b>	function	<b>pdftimestamp</b>	function
<b>gettaggingstatus</b>	function	<b>permissions</b>	table
<b>gettrailerid</b>	function	N access	
<b>getversion</b>	function	N add	
<b>getxformname</b>	function	N assemble	
<b>graycode</b>	function	N extract	
<b>h_hex_2</b>	table	N fillin	
S		N modify	
S		N print	
S		N quality	
S		<b>preparesignature</b>	function
S		<b>print</b>	function
S (		<b>procset</b>	function
S )		<b>protectresources</b>	boolean

<b>quads</b>	function	<b>splitsixteen</b>	function
<b>rectangle</b>	function	<b>spotcode</b>	function
<b>reference</b>	function	<b>stream</b>	function
<b>registerannotation</b>	function	<b>string</b>	function
<b>registerdestination</b>	function	<b>supportedformats</b>	function
<b>registerdocumentfinalizer</b>	function	<b>tocidset</b>	function
<b>registerfontmethod</b>	function	<b>toeight</b>	function
<b>registerinitializer</b>	function	<b>topdfdoc</b>	function
<b>registerpagefinalizer</b>	function	<b>topermissions</b>	function
<b>registerpattern</b>	function	<b>tosixteen</b>	function
<b>registersignature</b>	function	<b>transparency</b>	function
<b>replacexmpinfo</b>	function	<b>transparencycode</b>	function
<b>reserveobject</b>	function	<b>transparencygroups</b>	table
<b>rgbcode</b>	function	B none	
<b>rotationcm</b>	function	<b>transparencyvalue</b>	function
<b>setcompression</b>	function	<b>unicode</b>	function
<b>setencryption</b>	function	<b>usedcharacters</b>	table
<b>setpageorder</b>	function	<b>usedfontnames</b>	table
<b>setpagestate</b>	function	N dejavusansmonoboldttf-1-0-0	
<b>setpagetag</b>	function	<b>usedfontobjects</b>	table
<b>setutfstringmode</b>	function	N dejavusansmonoboldttf-1-0-0	
<b>setversion</b>	function	<b>usedfontstreams</b>	data table
<b>sharedobject</b>	function	<b>usedindices</b>	table
<b>shareobject</b>	function	<b>verbose</b>	function
<b>shareobjectreference</b>	function		

## lpeg (basic lua)

<b>B</b>	function	<b>firstofsplit</b>	function
<b>C</b>	function	<b>frontstripper</b>	function
<b>Carg</b>	function	<b>instringchecker</b>	function
<b>Cb</b>	function	<b>is_lpeg</b>	function
<b>Cc</b>	function	<b>keeper</b>	function
<b>Cf</b>	function	<b>locale</b>	function
<b>Cg</b>	function	<b>match</b>	function
<b>Cmt</b>	function	<b>oneof</b>	function
<b>Cp</b>	function	<b>patterns</b>	data table
<b>Cs</b>	function	<b>pcode</b>	function
<b>Ct</b>	function	<b>print</b>	function
<b>P</b>	function	<b>ptree</b>	function
<b>R</b>	function	<b>replacer</b>	function
<b>S</b>	function	<b>secondofsplit</b>	function
<b>UP</b>	function	<b>setmaxstack</b>	function
<b>UR</b>	function	<b>setutfcasers</b>	function
<b>US</b>	function	<b>split</b>	function
<b>V</b>	function	<b>splitat</b>	function
<b>afterprefix</b>	function	<b>splitter</b>	function
<b>anywhere</b>	function	<b>stripper</b>	function
<b>append</b>	function	<b>times</b>	function
<b>balancer</b>	function	<b>tsplitat</b>	function
<b>boforesuffix</b>	function	<b>tsplitter</b>	function
<b>checkedsplit</b>	function	<b>type</b>	function
<b>containsws</b>	function	<b>utfR</b>	function
<b>counter</b>	function	<b>utfchartabletopattern</b>	function
<b>endstripper</b>	function	<b>utfreplacer</b>	function
<b>finder</b>	function	<b>version</b>	string

## lua (basic tex)

<b>addnibble</b>	function	<b>getstacktop</b>	function
<b>bytecode</b>	table	<b>getstartupfile</b>	function
<b>bytedata</b>	data table	<b>getstringkeys</b>	function
<b>bytdone</b>	table	<b>getversion</b>	function
<b>callbytecode</b>	function	<b>lastbytecode</b>	number
<b>comparekeys</b>	function	<b>messages</b>	data table
<b>finalizeinitex</b>	function	<b>newindex</b>	function
<b>firstbytecode</b>	number	<b>newtable</b>	function
<b>get_functions_table</b>	function	<b>numbers</b>	data table
<b>getallkeys</b>	function	<b>protectglobal</b>	function
<b>getbytecode</b>	function	<b>registercode</b>	function
<b>getcheckedkeys</b>	function	<b>registercodes</b>	function
<b>getcurrenttime</b>	function	<b>registerglobal</b>	function
<b>getdebuginfo</b>	function	<b>registerinitexfinalizer</b>	function
<b>getexitcode</b>	function	<b>registername</b>	function
<b>getfunctionstable</b>	overloaded function	<b>setbytecode</b>	function
<b>getnibble</b>	function	<b>setexitcode</b>	function
<b>getnumerickeys</b>	function	<b>setnibble</b>	function
<b>getprecisesecods</b>	function	<b>startupfile</b>	string
<b>getpreciseticks</b>	function	<b>subnibble</b>	function
<b>getruntime</b>	function	<b>version</b>	string

## luac (extra lua)

**inspect** function

**print** function

# luatex (context)

<b>abort</b>	function	F disable	
<b>cleanup</b>	function	F enable	
<b>cleanuptempfiles</b>	function	F finish	
<b>currentfile</b>	function	F isenabled	
<b>currentlevel</b>	function	F pause	
<b>currenttotal</b>	function	F popline	
<b>poprunstate</b>	function	F pushline	
<b>pushrunstate</b>	function	F registerdisabler	
<b>registerdumpactions</b>	function	F registerenabler	
<b>registerpageactions</b>	function	F resetfilename	
<b>registerstartactions</b>	function	F resume	
<b>registerstopactions</b>	function	F setfilename	
<b>registertempfile</b>	function	F setup	
<b>starttime</b>	number	F start	
<b>synctex</b>	table	F stop	
F blockfilename		F wrapup	
F collect		<b>wrapup</b>	function

# lxml (context)

<b>addindex</b>	function	<b>filter</b>	function
<b>all</b>	function	<b>filterlist</b>	function
<b>applyfunction</b>	function	<b>first</b>	function
<b>applyselectors</b>	function	<b>flush</b>	function
<b>att</b>	function	<b>flushlinewise</b>	function
<b>attribute</b>	function	<b>flushsetups</b>	function
<b>badinclusions</b>	function	<b>flushspacewise</b>	function
<b>chainattribute</b>	function	<b>get_id</b>	function
<b>checkindex</b>	function	<b>getid</b>	function
<b>collected</b>	function	<b>getindex</b>	function
<b>command</b>	function	<b>id</b>	function
<b>concat</b>	function	<b>idsplitter</b>	userdata
<b>concatrange</b>	function	<b>ifatt</b>	function
<b>content</b>	function	<b>ifattempty</b>	function
<b>context</b>	function	<b>include</b>	function
<b>convert</b>	function	<b>inclusion</b>	function
<b>count</b>	function	<b>inclusions</b>	function
<b>delete</b>	function	<b>index</b>	function
<b>depth</b>	function	<b>inlineverbatim</b>	function
<b>direct</b>	function	<b>installsetup</b>	function
<b>directives</b>	table	<b>last</b>	function
F after		<b>lastatt</b>	function
F before		<b>lastmatch</b>	function
F handle		<b>lastpar</b>	function
F load		<b>load</b>	function
F setup		<b>loadbuffer</b>	function
<b>displayverbatim</b>	function	<b>loaddata</b>	function
<b>doif</b>	function	<b>loaded</b>	table
<b>doifelse</b>	function	<b>main</b>	function
<b>doifelseempty</b>	function	<b>match</b>	function
<b>doifelsetext</b>	function	<b>name</b>	function
<b>doifempty</b>	function	<b>namespace</b>	function
<b>doifnot</b>	function	<b>nonspace</b>	function
<b>doifnotempty</b>	function	<b>par</b>	function
<b>doifnottext</b>	function	<b>param</b>	function
<b>doiftext</b>	function	<b>parameter</b>	function
<b>element</b>	function	<b>path</b>	function
<b>elements</b>	function	<b>popmatch</b>	function
<b>entities</b>	data table	<b>pos</b>	function
<b>fileline</b>	function	<b>position</b>	function
<b>filename</b>	function	<b>pure</b>	function

<b>pushmatch</b>	function	<b>sorters</b>	table
<b>raw</b>	function	F add	
<b>rawroot</b>	function	F compare	
<b>rawtex</b>	function	F flush	
<b>refatt</b>	function	F reset	
<b>register</b>	function	F show	
<b>registerentity</b>	function	F sort	
<b>removesetup</b>	function	<b>splitid</b>	function
<b>replace</b>	function	<b>startraw</b>	function
<b>resetcdata</b>	function	<b>startunescaped</b>	function
<b>resetsetups</b>	function	<b>stopraw</b>	function
<b>resolvedentity</b>	function	<b>stopunescaped</b>	function
<b>root</b>	function	<b>store</b>	function
<b>save</b>	function	<b>strip</b>	function
<b>serialize</b>	function	<b>stripped</b>	function
<b>setaction</b>	function	<b>tag</b>	function
<b>setatt</b>	function	<b>texatt</b>	function
<b>setattribute</b>	function	<b>text</b>	function
<b>setcdata</b>	function	<b>tobuffer</b>	function
<b>setcommandtonone</b>	function	<b>tofile</b>	function
<b>setcommandtotext</b>	function	<b>toparameters</b>	function
<b>setpar</b>	function	<b>toverbatim</b>	function
<b>setparam</b>	function	<b>verbatim</b>	function
<b>setparameter</b>	function	<b>withindex</b>	function
<b>setsetup</b>	function	<b>xmltexhandler</b>	data table
<b>snippet</b>	function		

## math (basic lua)

<b>abs</b>	function	<b>maxinteger</b>	number
<b>acos</b>	function	<b>min</b>	function
<b>asin</b>	function	<b>mininteger</b>	number
<b>atan</b>	function	<b>mod</b>	function
<b>atan2</b>	function	<b>modf</b>	function
<b>ceil</b>	function	<b>odd</b>	function
<b>ceiling</b>	function	<b>pi</b>	number
<b>cos</b>	function	<b>pow</b>	function
<b>cosd</b>	function	<b>rad</b>	function
<b>cosh</b>	function	<b>random</b>	overloaded function
<b>deg</b>	function	<b>randomseed</b>	function
<b>div</b>	function	<b>round</b>	function
<b>even</b>	function	<b>setrandomseedi</b>	function
<b>exp</b>	function	<b>sin</b>	function
<b>floor</b>	function	<b>sind</b>	function
<b>fmod</b>	function	<b>sinh</b>	function
<b>frexp</b>	function	<b>sqrt</b>	function
<b>huge</b>	number	<b>tan</b>	function
<b>initialseed</b>	number	<b>tand</b>	function
<b>ldexp</b>	function	<b>tanh</b>	function
<b>log</b>	function	<b>tointeger</b>	function
<b>log10</b>	function	<b>type</b>	function
<b>max</b>	function	<b>ult</b>	function

# mathematics (context)

<b>addfallbacks</b>	function	<b>familyname</b>	function
<b>addvariant</b>	function	<b>functiontype</b>	function
<b>alphabets</b>	data table	<b>gaps</b>	data table
<b>alternatives</b>	data table	<b>getblobindex</b>	function
<b>beforepassingfonttotex</b>	function	<b>getboth</b>	function
<b>big</b>	function	<b>getdomainname</b>	function
<b>boldmap</b>	data table	<b>getextensibledata</b>	function
<b>categories</b>	table	<b>getmathblob</b>	function
D functions		<b>getoptionallabel</b>	function
<b>charactersets</b>	data table	<b>getstyle</b>	function
<b>checkaftercopyingfont</b>	function	<b>gettextblob</b>	function
<b>classes</b>	data table	<b>getverboselabel</b>	function
<b>classnames</b>	data table	<b>horizontalcode</b>	function
<b>codes</b>	data table	<b>initializeparameters</b>	function
<b>define</b>	function	<b>makefont</b>	function
<b>dictionaries</b>	table	<b>mapremap</b>	data table
D data		<b>markblobindexdone</b>	function
D defaults		<b>overloadparameters</b>	function
D groups		<b>preset</b>	function
F groupset		<b>presets</b>	table
F groupsetgroup		<b>privatebase</b>	number
F name		<b>registerextensible</b>	function
D names		<b>registersimplematrix</b>	function
F registercharacter		<b>registerverboselabel</b>	function
F registergroup		<b>remapalphabets</b>	function
F registergroupset		<b>renderextensible</b>	function
D sets		<b>renderings</b>	table
D variants		D mappings	
<b>dimensions</b>	function	D numbers	
<b>disablecollecting</b>	function	D sets	
<b>domainlabels</b>	table	<b>renderset</b>	function
<b>domainnames</b>	table	<b>resetattributes</b>	function
N default		<b>scaleparameters</b>	function
<b>enablecollecting</b>	function	<b>setextensibledata</b>	function
<b>extensiblecode</b>	function	<b>setmathsymbol</b>	function
<b>extensibles</b>	data table	<b>sets</b>	data table
<b>extrabase</b>	number	<b>setsnapping</b>	function
<b>fallbacks</b>	table	<b>setvariant</b>	function
F apply		<b>strutcode</b>	function
F install		<b>styles</b>	data table
<b>fallbackstyleattr</b>	function	<b>syncboth</b>	function

<b>syncname</b>	function	F fontname	
<b>syncstyle</b>	function	F inspect	
<b>tagging</b>	table	F keepbases	
B mfenced		F kernpairs	
<b>toengineclass</b>	function	F kerns	
<b>toname</b>	function	F margins	
<b>tostyle</b>	function	F message	
<b>tweakaftercopyingfont</b>	function	F moveitalics	
<b>tweakbeforecopyingfont</b>	function	F movelimits	
<b>tweaks</b>	table	F parameters	
F accentdimensions		F radicalbodymargins	
F action		F radicaldegreearchors	
F addactuarian		F replace	
F addarrows		F replacealphabets	
F addbars		F replacerules	
F addcomposites		F setoptions	
F addequals		F setovershoots	
F addfourier		F showinfo	
F addmirrors		F simplifykerns	
F addparts		F sortvariants	
F addprivates		F staircase	
F addrules		F strut	
F addscripts		F substitute	
F bigslots		F topanchors	
F checkaccents		F tweaks	
F checkspacing		F version	
F copyaccents		F wipeanchors	
F dimensions		F wipecues	
F extendaccents		F wipeitalics	
F fallbacks		F wipevariants	
F fixaccents		<b>utfmathaccent</b>	function
F fixellipses		<b>utfmathclass</b>	function
F fixintegrals		<b>utfmathcommand</b>	function
F fixoldschool		<b>utfmathfiller</b>	function
F fixprimes		<b>utfmathstretch</b>	function
F fixradicals		<b>variantcode</b>	function
F fixslashes		<b>variantcount</b>	function
F fixvariants		<b>virtualize</b>	function
F flattenaccents		<b>virtualized</b>	data table

## md5 (extra lua)

**HEX**    function  
**dec**    function  
**hex**    function

**sum**    function  
**sumHEXA** function  
**sumhexa** function

# metapost (context)

<b>checkformat</b>	function	N newinternal
<b>checktracingonline</b>	function	N nullary
<b>cm</b>	function	N numeric
<b>codes</b>	table	N of
N addto		N ofbinary
N ampersand		N onlyset
N and		N parametertype
N assignment		N pathconnect
N atleast		N pathjoin
N begingroup		N plusorminus
N btex		N primarybinary
N capsule		N primarydef
N colon		N property
N comma		N protection
N controls		N relax
N curl		N repeatloop
N cycle		N rightbrace
N definedmacro		N rightbracket
N delimiters		N rightdelimiter
N endgroup		N runscript
N equals		N save
N etex		N scantokens
N everyjob		N secondarybinary
N exittest		N secondarydef
N expandafter		N semicolon
N fiorelse		N setbounds
N if		N shipout
N input		N show
N interim		N slash
N internal		N step
N iteration		N stop
N leftbrace		N str
N leftbracket		N string
N leftdelimiter		N tag
N let		N tension
N macrodef		N tertiarybinary
N macrospecial		N tertiarydef
N maketext		N thingstoadd
N message		N to
N mode		N typename
N newbytemap		N unary

N undefinedcs		<b>gettext</b>	function
N until		<b>gettolerance</b>	function
N void		<b>graphic</b>	function
N with		<b>graphic_base_pass</b>	function
N within		<b>hascurvature</b>	function
N write		<b>includesvgbuffer</b>	function
<b>colorinitializer</b>	function	<b>includesvgfile</b>	function
<b>convert</b>	function	<b>installplugin</b>	function
<b>currentmpx</b>	function	<b>isobject</b>	function
<b>currentmpxstatus</b>	function	<b>knownparameters</b>	table
<b>defaultformat</b>	string	<b>lastlog</b>	string
<b>defaultinstance</b>	string	<b>load</b>	function
<b>defaultmethod</b>	string	<b>maketext</b>	function
<b>directrun</b>	function	<b>mesh</b>	function
<b>escaped</b>	function	<b>mesher</b>	function
<b>exectime</b>	table	<b>meshupper</b>	function
<b>extensiondata</b>	data table	<b>metafonts</b>	table
<b>filter</b>	function	<b>metafun</b>	table
<b>filterclippath</b>	function	F interpolate	
<b>flush</b>	function	F topath	
<b>flushers</b>	table	<b>mptopdf</b>	table
<b>flushnormalpath</b>	function	F convertmpstopdf	
<b>fonts</b>	table	N nofconverted	
F define		<b>n</b>	number
<b>format_number</b>	function	<b>newlogger</b>	function
<b>format_string</b>	function	<b>nofruns</b>	number
<b>formatnumber</b>	function	<b>nofscriptruns</b>	function
<b>getbackendoption</b>	function	<b>nvformat</b>	function
<b>getbendtolerance</b>	function	<b>pdfliterals</b>	function
<b>getbuffer</b>	function	<b>pluginactions</b>	function
<b>getclippath</b>	function	<b>popformat</b>	function
<b>getextensions</b>	function	<b>popscriptrunner</b>	function
<b>getextradata</b>	function	<b>popvariable</b>	function
<b>gethashentries</b>	function	<b>popvariables</b>	function
<b>getinstancebyname</b>	function	<b>preparetexttextsdata</b>	function
<b>getinstanceinfo</b>	function	<b>process</b>	function
<b>getinstancenames</b>	function	<b>processing</b>	function
<b>getjobdata</b>	function	<b>processplugins</b>	function
<b>getmovetolerance</b>	function	<b>properties</b>	table
<b>getparameter</b>	function	<b>pushformat</b>	function
<b>getparameterpreset</b>	function	<b>pushscriptrunner</b>	function
<b>getparameterset</b>	function	<b>pushvariable</b>	function
<b>getrecord</b>	function	<b>pushvariables</b>	function
<b>getstatistics</b>	function	<b>quitonerror</b>	boolean

<b>reducetogray</b>	boolean	N %	
<b>registerdirect</b>	function	N bp	
<b>registerfilter</b>	function	N cm	
<b>registermesher</b>	function	N em	
<b>registermeshupper</b>	function	N ex	
<b>registerscript</b>	function	N in	
<b>registertokens</b>	function	N mm	
<b>remappedtext</b>	function	N pc	
<b>remaptext</b>	function	N pt	
<b>reporterror</b>	function	N px	
<b>reportsvgfonts</b>	function	<b>svgglyphstomp</b>	function
<b>reset</b>	function	<b>svgshapestomp</b>	function
<b>resetbackendoptions</b>	function	<b>svgshapestopdf</b>	function
<b>resetlastlog</b>	function	<b>svgsplitcolor</b>	function
<b>resetplugins</b>	function	<b>svgtomp</b>	function
<b>run</b>	function	<b>svgtopdf</b>	function
<b>runinternal</b>	function	<b>sxsy</b>	function
<b>runscript</b>	function	<b>tex</b>	table
<b>scanparameters</b>	function	F get	
<b>scriptindex</b>	function	F reset	
<b>setbendtolerance</b>	function	F set	
<b>setbuffer</b>	function	F setfrombuffer	
<b>setextensions</b>	function	<b>texerrors</b>	boolean
<b>setlogging</b>	function	<b>texexp</b>	function
<b>setmovetolerance</b>	function	<b>theclippath</b>	function
<b>setoutercolor</b>	function	<b>tographic</b>	function
<b>setparameter</b>	function	<b>totable</b>	function
<b>setparameterset</b>	function	<b>types</b>	table
<b>setrecord</b>	function	N boolean	
<b>settext</b>	function	N cmykcolor	
<b>settolerance</b>	function	N color	
<b>setvariable</b>	function	N dependent	
<b>showlog</b>	boolean	N independent	
<b>showsvgpage</b>	function	N known	
<b>simple</b>	function	N nep	
<b>splitprescript</b>	function	N numeric	
<b>startgraphic</b>	function	N pair	
<b>startsvghashing</b>	function	N path	
<b>stopgraphic</b>	function	N pen	
<b>stopsvghashing</b>	function	N picture	
<b>svformat</b>	function	N protodependent	
<b>svgcachefile</b>	boolean	N string	
<b>svgcolorremapper</b>	function	N structured	
<b>svgfactors</b>	table	N suffixedmacro	

N tokenlist  
N transform  
N unknownboolean  
N unknownnep  
N unknownpath  
N unknownpen  
N unknownpicture

N unknownstring  
N unsuffixedmacro  
N vacuous

**typesvgpage**

**unload**

**untagvariable**

**variables**

function

function

function

table

## mime (context)

**b64** function

**decode** function

**decodet** table

F base64

F quoted-printable

**dot** function

**encode** function

**encodet** table

F base64

F quoted-printable

**eol** function

**normalize** function

**qp** function

**qpwrp** function

**report** function

**stuff** function

**unb64** function

**unqp** function

**wrap** function

**wrapt** table

F base64

F default

F quoted-printable

F text

**wrp** function

# mp (context)

<b>autoinject</b>	function	<b>flatten</b>	function
<b>aux</b>	function	<b>flush</b>	function
F boolean		<b>format</b>	function
F color		<b>formatted</b>	function
F direct		<b>fprint</b>	function
F draw		<b>get</b>	table
F fill		F hashentry	
F flush		<b>getbytemap</b>	function
F fprint		<b>getbytemapdata</b>	function
F integer		<b>getbytemapdirect</b>	function
F number		<b>getlastaddtype</b>	function
F numeric		<b>graphformat</b>	function
F pair		<b>inject</b>	function
F pairpoints		F boolean	
F path		F cmykcolor	
F pathpoints		F color	
F points		F integer	
F print		F number	
F quadruple		F numeric	
F quadruplepoints		F pair	
F quoted		F path	
F size		F pt	
F string		F quadruplet	
F transform		F string	
F triplet		F transform	
F tripletpoints		F triplet	
F vprint		F vector	
<b>boolean</b>	function	F vectors	
<b>bytemap_load_from_file</b>	function	F whatever	
<b>cleaned</b>	function	F whd	
<b>color</b>	function	F xy	
<b>dataset</b>	function	<b>integer</b>	function
<b>datasets</b>	function	<b>lmt_function_x</b>	function
F load		<b>lmt_glyphshape_accent</b>	function
<b>direct</b>	function	<b>lmt_glyphshape_baseline</b>	function
<b>downgradebytemap</b>	function	<b>lmt_glyphshape_boundingbox</b>	function
<b>downsamplebytemap</b>	function	<b>lmt_glyphshape_depth</b>	function
<b>draw</b>	function	<b>lmt_glyphshape_height</b>	function
<b>expandtex</b>	function	<b>lmt_glyphshape_italic</b>	function
<b>fill</b>	function	<b>lmt_glyphshape_llx</b>	function
<b>fillbytemap</b>	function	<b>lmt_glyphshape_n</b>	function

<code>lmt_glyphshape_path</code>	function	<code>number</code>	function
<code>lmt_glyphshape_start</code>	function	<code>numeric</code>	function
<code>lmt_glyphshape_stop</code>	function	<code>pair</code>	function
<code>lmt_glyphshape_usedbox</code>	function	<code>pairpoints</code>	function
<code>lmt_glyphshape_usedline</code>	function	<code>path</code>	function
<code>lmt_glyphshape_width</code>	function	<code>pathpoints</code>	function
<code>lmt_mesh_set</code>	function	<code>points</code>	function
<code>lmt_mesh_update</code>	function	<code>print</code>	function
<code>lmt_poisson_generate</code>	function	F boolean	
<code>lmt_start_potrace</code>	function	F color	
<code>lmt_step_potrace</code>	function	F direct	
<code>lmt_stop_potrace</code>	function	F draw	
<code>lmt_svg_include</code>	function	F fill	
<code>loadbytemap</code>	function	F flush	
<code>loadbytemapfile</code>	function	F fprint	
<code>mesh_register</code>	function	F integer	
<code>mf_blob_add</code>	function	F number	
<code>mf_blob_dimensions</code>	function	F numeric	
<code>mf_blob_index</code>	function	F pair	
<code>mf_blob_new</code>	function	F pairpoints	
<code>mf_blob_raw_content</code>	function	F path	
<code>mf_blob_raw_dimensions</code>	function	F pathpoints	
<code>mf_blob_raw_reset</code>	function	F points	
<code>mf_blob_raw_toutf</code>	function	F print	
<code>mf_blob_raw_wipe</code>	function	F quadruple	
<code>mf_blob_size</code>	function	F quadruplepoints	
<code>mf_blob_width</code>	function	F quoted	
<code>mf_external_figure</code>	function	F size	
<code>mf_finish_saving_data</code>	function	F string	
<code>mf_formatted_text</code>	function	F transform	
<code>mf_get_outline_text</code>	function	F triplet	
<code>mf_graphic_text</code>	function	F tripletpoints	
<code>mf_inject_blob</code>	function	F vprint	
<code>mf_map_move</code>	function	<code>processbytemap</code>	function
<code>mf_map_text</code>	function	<code>processingmode</code>	function
<code>mf_named_color</code>	function	<code>quadruple</code>	function
<code>mf_outline_text</code>	function	<code>quadruplepoints</code>	function
<code>mf_save_data</code>	function	<code>quoted</code>	function
<code>mf_script_index</code>	function	<code>report</code>	function
<code>mf_start_saving_data</code>	function	<code>scan</code>	table
<code>mf_stop_saving_data</code>	function	F boolean	
<code>mode</code>	function	F cmykcolor	
<code>n</code>	function	F color	
<code>newbytemap</code>	function	F expression	

F integer  
F next  
F number  
F numeric  
F pair  
F path  
F pen  
F property  
F string  
F symbol  
F token  
F transform  
F whatever

**set**  
**setbytemap**  
**setbytemapoctave**  
**size**  
**skip**  
    F token  
**solve**  
**string**  
**systemmode**  
**transform**  
**triplet**  
**tripletpoints**  
**vprint**

table  
function  
function  
function  
table  
  
function  
function  
function  
function  
function  
function

# mplib (extra tex)

<b>downgradebytemap</b>	function	<b>injectcmkcolor</b>	function
<b>downsamplebytemap</b>	function	<b>injectcolor</b>	function
<b>execute</b>	function	<b>injectinteger</b>	function
<b>expandtex</b>	function	<b>injectnumber</b>	function
<b>fillbytemap</b>	function	<b>injectnumeric</b>	function
<b>finder</b>	function	<b>injectpair</b>	function
<b>finders</b>	table	<b>injectpath</b>	function
F file		<b>injectstring</b>	function
F mpstemplate		<b>injecttransform</b>	function
<b>finish</b>	function	<b>injectvector</b>	function
<b>getbytemap</b>	function	<b>injectvectors</b>	function
<b>getbytemapdata</b>	function	<b>injectwhatever</b>	function
<b>getbytemapdirect</b>	function	<b>new</b>	overloaded function
<b>getcallbackstate</b>	function	<b>newbytemap</b>	function
<b>getcodes</b>	function	<b>peninfo</b>	function
<b>getcolormodels</b>	function	<b>processbytemap</b>	function
<b>getfields</b>	function	<b>propertycodes</b>	table
<b>gethashentries</b>	function	<b>realtime logging</b>	boolean
<b>gethashentry</b>	function	<b>scanboolean</b>	function
<b>getinternalactions</b>	function	<b>scancmkcolor</b>	function
<b>getknotstates</b>	function	<b>scancolor</b>	function
<b>getlastadddtype</b>	function	<b>scanexpression</b>	function
<b>getlogtargets</b>	function	<b>scaninteger</b>	function
<b>getobjectdata</b>	function	<b>scannext</b>	function
<b>getobjectpeninfo</b>	function	<b>scannumber</b>	function
<b>getobjectstacking</b>	function	<b>scannumeric</b>	function
<b>getobjecttypes</b>	function	<b>scanpair</b>	function
<b>getprimitivelegacies</b>	function	<b>scanpath</b>	function
<b>getprimitiveorigins</b>	function	<b>scanpen</b>	function
<b>getprimitives</b>	function	<b>scanproperty</b>	function
<b>getpruneoptions</b>	function	<b>scanstring</b>	function
<b>getresultstates</b>	function	<b>scansymbol</b>	function
<b>getscaledbits</b>	function	<b>scantoken</b>	function
<b>getsantypes</b>	function	<b>scantransform</b>	function
<b>getstates</b>	function	<b>setbytemap</b>	function
<b>getstatistics</b>	function	<b>setbytemapoctave</b>	function
<b>getstatus</b>	function	<b>settolerance</b>	function
<b>gettolerance</b>	function	<b>showcontext</b>	function
<b>gettype</b>	function	<b>skiptoken</b>	function
<b>gettypes</b>	function	<b>solvepath</b>	function
<b>injectboolean</b>	function	<b>version</b>	function

# nanojpeg (context)

**decode** function

# noads (context)

**getmathmode** function

**handlers** table

F alternates

F autofences

F classes

F collapse

F dictionaries

F export

F families

F fencing

F intervals

F kernpairs

F makeup

F normalize

F numbers

F relocate

F render

F showtree

F snap

F spacing

F suspicious

F tags

F unscript

F unstack

F variants

**process** function

**processnested** function

**processors** table

**processouter** function

# node (basic tex)

<b>checkdiscretionaries</b>	function	F getanchors
<b>checkdiscretionary</b>	function	F getattribute
<b>copy</b>	function	F getattributelist
<b>copylist</b>	function	F getattributes
<b>count</b>	function	F getboth
<b>currentattributes</b>	function	F getbottom
<b>dimensions</b>	function	F getbottomdelimiter
<b>direct</b>	table	F getbox
F addmargins		F getcachestate
F addxoffset		F getchar
F addxymargins		F getchardict
F addyoffset		F getcharspec
F appendaftertail		F getchoice
F appendcurrenttail		F getclass
F beginofmath		F getcontinuation
F checkdiscretionaries		F getcontrol
F checkdiscretionary		F getcornerkerns
F collapsing		F getcurrenttail
F copy		F getdata
F copylist		F getdegree
F copyonly		F getdelimiter
F count		F getdenominator
F currentattributes		F getdepth
F dimensions		F getdirection
F effectiveglue		F getdisc
F endofmath		F getdiscpart
F exchange		F getexcept
F fields		F getexpansion
F findattribute		F getfam
F findattributerange		F getfield
F findnode		F getfielderror
F firstchar		F getfirstdirectioninlist
F firstglyph		F getfont
F firstglyphnode		F getfontcheck
F firstitalicglyph		F getgeometry
F flattendiscretionaries		F getglue
F flattenleaders		F getglyphdata
F flushlist		F getglyphdimensions
F flushnode		F getheight
F free		F getid
F freeze		F getidsubtype

F getidsubtypenext	F getsubtype
F getindex	F getsup
F getinputfields	F getsuppre
F getkern	F gettop
F getkerndimension	F gettopdelimiter
F getlanguage	F gettotal
F getleader	F getusage
F getleftdelimiter	F getusedattributes
F getlist	F getweight
F getlistdimensions	F getwhd
F getlocalparboxstate	F getwidth
F getmvlldlist	F getwordrange
F getnaturalwhd	F getxscale
F getnext	F getxyscales
F getnodeerrorvalues	F getsyscale
F getnodes	F gluetostring
F getnormalizedline	F hasattribute
F getnucleus	F hasdimensions
F getnumerator	F hasdiscoption
F getoffsets	F hasfield
F getoptions	F hasgeometry
F getorientation	F hasglyph
F getparstate	F hasglyphoption
F getpenalty	F hasidsubtype
F getpost	F hasoptions
F getpre	F hasusage
F getprev	F hpack
F getprime	F hyphenating
F getpropertystable	F id
F getproperty	F ignoremathskip
F getreplace	F insertafter
F getrightdelimiter	F insertbefore
F getruledimensions	F insertcurrenthead
F getscale	F isboth
F getscales	F ischar
F getscrip	F ischarcheck
F getscripts	F ischardisc
F getshift	F isdirect
F getshort	F isfontcheck
F getslant	F isglyph
F getspeciallist	F isitalicglyph
F getstate	F isloop
F getsub	F isnext
F getsubpre	F isnextchar

F isnextcharcheck	F setattribute
F isnextglyph	F setattributelist
F isnode	F setattributes
F isprev	F setattributesinlist
F isprevchar	F setboth
F isprevcharcheck	F setbottom
F isprevglyph	F setbottomdelimiter
F issimilarglyph	F setbox
F issnapped	F setchar
F isspeciallist	F setchardict
F isvalid	F setchoice
F iszeroglue	F setclass
F kerning	F setcontinuation
F lastnode	F setcontrol
F length	F setcurrenttail
F ligaturing	F setdata
F makeextensible	F setdegree
F markglyphprocessing	F setdelimiter
F migrate	F setdenominator
F mlisttohtml	F setdepth
F naturalhsize	F setdirection
F naturalwidth	F setdisc
F new	F setdiscpart
F newcontinuationatom	F setexcept
F newfontcheck	F setexpansion
F newmathglyph	F setfam
F newtextglyph	F setfield
F patchattributes	F setfielderror
F patchparshape	F setfont
F prependbeforehead	F setfontcheck
F prependcurrenttail	F setgeometry
F protectglyph	F setglue
F protectglyphs	F setglyphdata
F protectglyphsbase	F setheight
F protectglyphsnone	F setindex
F protrusionskipable	F setinputfields
F rangedimensions	F setkern
F remove	F setlanguage
F removefromlist	F setleader
F repack	F setleftdelimiter
F reverse	F setlink
F samefontcheck	F setlist
F serialized	F setnext
F setanchors	F setnucleus

F setnumerator	F tovaliddirect	
F setoffsets	F traverse	
F setoptions	F traversesechar	
F setorientation	F traversesecontent	
F setpenalty	F traverseseglyph	
F setpost	F traverseseid	
F setpre	F traverseseitalic	
F setprev	F traverseseleader	
F setprime	F traverseselist	
F setproperty	F traversesepossible	
F setreplace	F type	
F setrightdelimiter	F types	
F setruledimensions	F unprotectglyph	
F setscale	F unprotectglyphs	
F setscales	F unsetattribute	
F setscript	F unsetattributes	
F setscripts	F updatefirstandbotmark	
F setshift	F updatefirstmarks	
F setslant	F updatemarks	
F setsnapped	F updatetopmarks	
F setspeciallist	F usedlist	
F setsplit	F usesfont	
F setstate	F vbalance	
F setsub	F verticalbreak	
F setsubpre	F vpack	
F setsubtype	F write	
F setup	F xscaled	
F setsuppre	F yscaled	
F settop	<b>effectiveglue</b>	function
F settopdelimiter	<b>endofmath</b>	function
F settotal	<b>family_font</b>	function
F setweight	<b>fields</b>	function
F setwhd	<b>findattribute</b>	function
F setwidth	<b>flattendiscretionaries</b>	function
F show	<b>flushlist</b>	function
F size	<b>flushnode</b>	function
F slide	<b>free</b>	function
F softenhyphens	<b>getattribute</b>	function
F startofpar	<b>getcachestate</b>	function
F subtypes	<b>getfield</b>	function
F tail	<b>getfielderror</b>	function
F todirect	<b>getglue</b>	function
F tonode	<b>getnodeerrorvalues</b>	function
F tostring	<b>getpropertystable</b>	function

<b>getproperty</b>	function	<b>remove</b>	function
<b>gluetostring</b>	function	<b>serialized</b>	function
<b>hasattribute</b>	function	<b>setattribute</b>	function
<b>hasfield</b>	function	<b>setfield</b>	function
<b>hasglyph</b>	function	<b>setfielderror</b>	function
<b>hpack</b>	function	<b>setglue</b>	function
<b>hyphenating</b>	function	<b>setproperty</b>	function
<b>id</b>	function	<b>show</b>	function
<b>insertafter</b>	function	<b>size</b>	function
<b>insertbefore</b>	function	<b>slide</b>	function
<b>instock</b>	function	<b>subtypes</b>	function
<b>intracking</b>	function	<b>tail</b>	function
<b>inuse</b>	function	<b>todirect</b>	function
<b>isnode</b>	function	<b>tonode</b>	function
<b>iszeroglue</b>	function	<b>tostring</b>	function
<b>kerning</b>	function	<b>traverse</b>	function
<b>lastnode</b>	function	<b>traverseid</b>	function
<b>length</b>	function	<b>type</b>	function
<b>ligaturing</b>	function	<b>types</b>	function
<b>makeextensible</b>	function	<b>unprotectglyph</b>	function
<b>mlisttohtml</b>	function	<b>unprotectglyphs</b>	function
<b>new</b>	function	<b>unsetattribute</b>	function
<b>protectglyph</b>	function	<b>usedlist</b>	function
<b>protectglyphs</b>	function	<b>usesfont</b>	function
<b>protrusionskippable</b>	function	<b>vpack</b>	function
<b>rangedimensions</b>	function	<b>write</b>	function

# nodes (context)

<b>accentcodes</b>	data table	<b>fencecodes</b>	data table
<b>adaptive</b>	table	<b>fields</b>	function
F handlehorizontal		<b>fieldtypes</b>	table
F handlevertical		<b>fillcodes</b>	data table
F set		<b>fillvalues</b>	data table
<b>aligned</b>	function	<b>firstdirinbox</b>	function
<b>append</b>	function	<b>flush</b>	function
<b>apply</b>	function	<b>flushlist</b>	function
<b>applyvisuals</b>	function	<b>flushnode</b>	function
<b>astable</b>	function	<b>fractioncodes</b>	data table
<b>basepoints</b>	function	<b>fullhpack</b>	function
<b>boundarycodes</b>	data table	<b>getattr</b>	function
<b>boxes</b>	table	<b>getattribute</b>	function
F count		<b>getboth</b>	function
F dimensions		<b>getbox</b>	function
F direct		<b>getchar</b>	function
F dispose		<b>getfield</b>	function
F found		<b>getfont</b>	function
F prune		<b>getid</b>	function
F reset		<b>getleader</b>	function
F restore		<b>getlist</b>	function
F save		<b>getnext</b>	function
F savenode		<b>getprev</b>	function
<b>builders</b>	table	<b>getproperty</b>	function
<b>choicecodes</b>	data table	<b>getsubtype</b>	function
<b>concat</b>	function	<b>gluecodes</b>	data table
<b>copy</b>	function	<b>glyphcodes</b>	data table
<b>copy_node</b>	function	<b>handlers</b>	table
<b>copylist</b>	function	F adjusters	
<b>countall</b>	function	F aligncharacter	
<b>currentattributes</b>	function	F backgrounds	
<b>delete</b>	function	F backgroundspage	
<b>destinations</b>	table	F backgroundsvbox	
N attribute		F characters	
F handler		F checkglyphs	
<b>dircodes</b>	data table	F checkparcounter	
<b>directioncodes</b>	data table	F cleanupbox	
<b>directionvalues</b>	data table	F cleanuppage	
<b>dirvalues</b>	data table	F export	
<b>disccodes</b>	data table	F finalizebox	
<b>discretionarycodes</b>	data table	F finalizelist	

F flatten		<b>is_display_math</b>	function
F flattenline		<b>isdirect</b>	function
F mathalignrelocate		<b>isnode</b>	function
F mathmatrixornaments		<b>isnut</b>	function
F mathmatrixrules		<b>kerncodes</b>	data table
F migrate		<b>leftmarginwidth</b>	function
F protectglyphs		<b>linefillers</b>	table
F recolor		F filler	
F show		F handler	
F showhyphenation		F set	
F showpreamble		<b>lines</b>	table
F stripping		D data	
F tabulateskip		F finalize	
F textbackgrounds		F number	
F unprotectglyphs		<b>link</b>	function
F visualizehyphenation		<b>linked</b>	function
F wipe		<b>list</b>	function
<b>hasattribute</b>	function	<b>listcodes</b>	data table
<b>hasfield</b>	function	<b>listtoutf</b>	function
<b>hpack</b>	function	<b>literalvalues</b>	data table
<b>idsandsubtypes</b>	function	<b>locate</b>	function
<b>idstostring</b>	function	<b>markcodes</b>	data table
<b>injections</b>	table	<b>markers</b>	table
F copy		F get	
F getligaindex		F set	
F getthreshold		<b>mathcodes</b>	data table
F handler		<b>mathvalues</b>	data table
F installgetspaceboth		<b>maxboxwidth</b>	function
F installnewkern		<b>migrations</b>	table
F isspace		F setinserts	
F keepcounts		F setmarks	
F reset		<b>new</b>	function
F resetcounts		<b>noadcodes</b>	data table
F setcursive		<b>nodecodes</b>	data table
F setkern		<b>nopts</b>	function
F setligaindex		<b>nuts</b>	table
F setmark		F addmargins	
F setmove		F addxoffset	
F setposition		F addxymargins	
F setspacekerns		F addyoffset	
<b>insertafter</b>	function	F append	
<b>insertbefore</b>	function	F appendaftertail	
<b>insertlistafter</b>	function	F apply	
<b>installattributehandler</b>	function	F applyvisuals	

F beginofmath	F getboth
F checkdiscretionaries	F getbottom
F checkdiscretionary	F getbottomdelimiter
F checkslide	F getbox
F collapsing	F getboxglue
F concat	F getchar
F copy	F getchardict
F copy_properties	F getcharspec
F copyleft	F getchoice
F copynode	F getclass
F copyonly	F getcomponents
F copyvisual	F getcontinuation
F count	F getcontrol
F countall	F getcornerkerns
F currentattributes	F getdata
F delete	F getdegree
F dimensions	F getdelimiter
F dirdimensions	F getdenominator
F effectiveglue	F getdepth
F endofmath	F getdirection
F exchange	F getdisc
F findattribute	F getdiscpart
F findattributerange	F getdiscretionary
F findnode	F getexcept
F firstchar	F getexpansion
F firstglyph	F getfam
F firstglyphnode	F getfield
F firstitalicglyph	F getfirstdirectioninlist
F flattendiscretionaries	F getfont
F flattenleaders	F getfontcheck
F flush	F getgeometry
F flushlist	F getglue
F flushnode	F getglyphdata
F free	F getglyphdimensions
F freeze	F getheight
F fullhpack	F getid
F fullhpackrl	F getidsubtype
F getanchors	F getidsubtypenext
F getattr	F getindex
F getattribute	F getinputfields
F getattributelist	F getkern
F getattributes	F getkerndimension
F getattrlist	F getlang
F getattrs	F getlanguage

F getleader	F gettotal
F getleftdelimiter	F getusedattributes
F getlist	F getvalue
F getlistdimensions	F getweight
F getlocalparboxstate	F getwhd
F getmiddle	F getwidth
F getmiddledelimiter	F getwordrange
F getmvlolist	F getxscale
F getnaturalwhd	F getxyscales
F getnext	F getsyscale
F getnormalizedline	F gluetostring
F getnucleus	F hasattribute
F getnumerator	F hasdimensions
F getoffsets	F hasdiscoption
F getoptions	F hasfield
F getorientation	F hasgeometry
F getparstate	F hasglyph
F getpenalty	F hasglyphoption
F getpost	F hasidsubtype
F getpre	F hasoptions
F getprev	F hpack
F getprime	F hyphenating
F getprop	F ignoremathskip
F getreplace	F insertafter
F getrightdelimiter	F insertbefore
F getruledata	F insertlistafter
F getruledimensions	F is_display_math
F getscale	F isboth
F getscales	F ischar
F getscrip	F ischarcheck
F getscripts	F isdirect
F getshift	F isdone
F getshort	F isglyph
F getslant	F isitalicglyph
F getspeciallist	F isnext
F getstate	F isnextchar
F getsub	F isnextcharcheck
F getsubpre	F isnextglyph
F getsubtype	F isnode
F getsup	F isnut
F getsuppre	F isprev
F getsurround	F isprevchar
F gettop	F isprevcharcheck
F gettopdelimiter	F isprevglyph

F issimilarglyph	F setattr
F issnapped	F setattribute
F iszeroglue	F setattributelist
F kerning	F setattributes
F lastnode	F setattributesinlist
F length	F setattrlist
F ligaturing	F setattrrs
F link	F setattrsinlist
F linked	F setboth
F locate	F setbottom
F migrate	F setbox
F migratebox	F setboxglue
F mlisttohlist	F setchar
F naturalhsize	F setchardict
F naturalwidth	F setchoice
F nestedtracedslide	F setclass
F new	F setcomponents
F newcontinuationatom	F setcontinuation
F newfontcheck	F setcontrol
F newmathglyph	F setdata
F openup	F setdegree
F patchattributes	F setdelimiter
F patchparshape	F setdenominator
F prepend	F setdepth
F prependbeforehead	F setdirection
F processranges	F setdisc
F processwords	F setdiscpart
F protectglyph	F setdiscretionary
F protectglyphs	F setexcept
F protectglyphsbase	F setexpansion
F protectglyphsnone	F setfam
F protrusionskippable	F setfield
F rangedimensions	F setfont
F rawprop	F setfontcheck
F reference	F setgeometry
F reheap	F setglue
F remove	F setglyphdata
F removefromlist	F setheight
F repack	F setinputfields
F repackhlist	F setkern
F replace	F setlang
F reverse	F setlanguage
F serialized	F setleader
F setanchors	F setleftdelimiter

F setlink	F slide
F setlist	F softenhyphens
F setmiddledelimiter	F somepenalty
F setnext	F somespace
F setnucleus	F splitbox
F setnumerator	F startofpar
F setoffsets	F striprange
F setoptions	F tail
F setorientation	F takeattr
F setparproperty	F takebox
F setpenalty	F takelist
F setpost	F theprop
F setpre	F tonode
F setprev	F tonodes
F setprime	F tonut
F setprop	F tosequence
F setreplace	F toString
F setrightdelimiter	F tracedslide
F setruledata	F traverse
F setruledimensions	F traversechar
F setscale	F traversecontent
F setscales	F traverseglyph
F setscript	F traverseid
F setscripts	F traverseitalic
F setshift	F traverseleader
F setslant	F traverselist
F setsnapped	F traversepossible
F setspeciallist	F unprotectglyph
F setsplit	F unprotectglyphs
F setstate	F unsetattribute
F setsub	F unsetattributes
F setsubpre	F untracedslide
F setsubtype	F updatefirstandbotmark
F setup	F updatefirstmarks
F setsuppre	F updatemarks
F setsurround	F updatetopmarks
F settop	F usedlist
F setvalue	F usesfont
F setvisual	F verticalbreak
F setvisuals	F vianodes
F setweight	F vianuts
F setwhd	F vpack
F setwidth	F write
F show	F xscaled

F yscaled		<b>replace</b>	function
<b>packlist</b>	function	<b>report</b>	function
<b>parcodes</b>	data table	<b>rightmarginwidth</b>	function
<b>penaltycodes</b>	data table	<b>rulecodes</b>	data table
<b>plugindata</b>	table	<b>rules</b>	table
F finalizer		F handler	
F initializer		F process	
S name		F set	
F processor		F userrule	
<b>points</b>	function	<b>serialize</b>	function
<b>pool</b>	table	<b>serializebox</b>	function
F baselineskip		<b>serialized</b>	function
F cleanup		<b>setattr</b>	function
F directliteral		<b>setattribute</b>	function
F glyph		<b>setattrlist</b>	function
F hlist		<b>setboth</b>	function
F latelua		<b>setbox</b>	function
F leader		<b>setboxtonaturalwd</b>	function
F lineskip		<b>setchar</b>	function
F literal		<b>setfield</b>	function
F originliteral		<b>setfont</b>	function
F register		<b>setleader</b>	function
F restore		<b>setlink</b>	function
F save		<b>setlist</b>	function
F savepos		<b>setnext</b>	function
F setmatrix		<b>setprev</b>	function
F stock		<b>setProperty</b>	function
F usage		<b>shadows</b>	table
F usernode		F handler	
F vlist		F set	
<b>prepend</b>	function	<b>shifts</b>	table
<b>print</b>	function	F handler	
<b>processors</b>	table	F set	
F trace_glyph_run_a		<b>showboxes</b>	function
F trace_glyph_run_b		<b>showlist</b>	function
<b>properties</b>	table	<b>showsimplelist</b>	function
<b>pts</b>	function	<b>skipcodes</b>	data table
<b>radicalcodes</b>	data table	<b>snapshots</b>	table
<b>references</b>	table	F getsamples	
N attribute		F resetsamples	
F handler		F takesample	
<b>reheap</b>	function	<b>somepenalty</b>	function
<b>remove</b>	function	<b>somespace</b>	function
<b>repackhlist</b>	function	<b>specialskipcodes</b>	table

<b>splitbox</b>	function	<b>tracers</b>	table
<b>startofpar</b>	function	F directions	
<b>stripdiscretionaries</b>	function	F fontchar	
<b>stripping</b>	table	F resetproperties	
F set		F rule	
<b>subtypes</b>	data table	F setlist	
<b>tail</b>	function	F setproperties	
<b>takeattr</b>	function	F start	
<b>takebox</b>	function	F stop	
<b>tasks</b>	table	<b>traverse</b>	function
F actions		<b>traverseid</b>	function
F appendaction		<b>typesetters</b>	table
F disableaction		F hbox	
F disablegroup		F hpack	
F enableaction		F tohbox	
F enablegroup		F tohpack	
F freeze		F tonodes	
F freezegroup		F tovbox	
F new		F tovpack	
F prependaction		F vpack	
F removeaction		<b>unsetattribute</b>	function
F replaceaction		<b>upcomingproperties</b>	function
F restart		<b>usedlist</b>	function
F setaction		<b>vianodes</b>	function
F showactions		<b>vianuts</b>	function
F table		<b>visualizebox</b>	function
<b>tobasepoints</b>	function	<b>visualizers</b>	table
<b>tocentimeters</b>	function	F attribute	
<b>tociceros</b>	function	F box	
<b>todidots</b>	function	F definelayer	
<b>todimen</b>	function	F enable	
<b>toinches</b>	function	F getusedfont	
<b>tomillimeters</b>	function	F handler	
<b>tonode</b>	function	F markfonts	
<b>tonodes</b>	function	F register	
<b>tonut</b>	function	F registercache	
<b>topicsas</b>	function	F setfont	
<b>topoints</b>	function	F setlayer	
<b>toscaledpoints</b>	function	F setruledglyph	
<b>tosequence</b>	function	F setvisual	
<b>tostring</b>	function	<b>vpack</b>	function
<b>totable</b>	function	<b>whatsitcodes</b>	data table
<b>totree</b>	function	<b>write</b>	function
<b>toutf</b>	function		

## number (context)

	function	<b>tol6dot16</b>	function
<b>basepoints</b>	function	<b>tobasepoints</b>	function
<b>bytetodecimal</b>	function	<b>tobitstring</b>	function
<b>compactfloat</b>	function	<b>tocentimeters</b>	function
<b>decimaltobyte</b>	function	<b>tociceros</b>	function
<b>dimenfactors</b>	data table	<b>tocontext</b>	function
<b>formatted</b>	function	<b>todidots</b>	function
<b>formattedfloat</b>	function	<b>todimen</b>	function
<b>formattedinteger</b>	function	<b>toediths</b>	function
<b>fractiontobyte</b>	function	<b>toevenhex</b>	function
<b>idiv</b>	function	<b>toinches</b>	function
<b>maxdimen</b>	number	<b>tomillimeters</b>	function
<b>nopts</b>	function	<b>tonumberf</b>	function
<b>nubasepoints</b>	function	<b>tonumberg</b>	function
<b>nupoints</b>	function	<b>topics</b>	function
<b>percent</b>	function	<b>topoints</b>	function
<b>points</b>	function	<b>toscaled</b>	function
<b>pts</b>	function	<b>toscaledpoints</b>	function
<b>signed</b>	function	<b>totoves</b>	function
<b>sparseexponent</b>	function	<b>valid</b>	function
<b>splitdimen</b>	function		

## objects (context)

<b>data</b>	table	<b>page</b>	function
<b>dimensions</b>	function	<b>reference</b>	function
<b>found</b>	function	<b>register</b>	function
<b>n</b>	number	<b>restore</b>	function

# optional (context)

## **curl** table

- F escape
- F fetch
- F getversion
- F initialize
- F unescape

## **foreign** table

- F abivalues
- F getbuffer
- F initialize
- F load
- F newbuffer
- F totable
- F types

## **ghostscript** table

- F execute
- F initialize

## **graphicsmagick** table

- F execute
- F getnoisetypes
- F initialize

## **hb** table

- F getshapers
- F getversion
- F initialize
- F loadfont
- F shapestring

## **imagemagick** table

- F execute
- F initialize

## **kpse** table

- F expand\_braces
- F expand\_path
- F expand\_var
- F find\_file
- F find\_files
- F get\_file\_types
- F initialize
- F readable\_file
- F set\_program\_name
- F var\_value

## **library** table

- F load

## **loaded** table

## **lz4** table

- F compress
- F decompresssize
- F framecompress
- F framedecompress
- F initialize

## **lzma** table

- F compress
- F decompress
- F initialize

## **lzo** table

- F compress
- F decompresssize
- F initialize

## **mujs** table

- F dofile
- F execute
- F initialize
- F reset
- F setclosefile
- F setconsole
- F setfindfile
- F setopenfile
- F setreadfile
- F setseekfile

## **mysql** table

- F close
- F execute
- F getmessage
- F initialize
- F open

## **openssl** table

- F getversion
- F initialize
- F sign
- F verify

## **postgres** table

- F close

F execute  
F getmessage  
F initialize  
F open

**sqlite**            **table**

F close  
F execute  
F getmessage  
F initialize

F open

**zint**            **table**

F execute  
F initialize

**zstd**            **table**

F compress  
F decompress  
F initialize

## os (basic lua)

<b>__getenv__</b>	function	<b>platform</b>	string
<b>__setenv__</b>	function	<b>remove</b>	overloaded function
<b>binsuffix</b>	string	<b>rename</b>	overloaded function
<b>binsuffixes</b>	table	<b>resultof</b>	function
<b>bits</b>	number	<b>runtime</b>	function
<b>clock</b>	function	<b>selfarg</b>	table
<b>converttime</b>	function	<b>selfbin</b>	string
<b>date</b>	overloaded function	<b>selfcore</b>	string
<b>difftime</b>	function	<b>selfdir</b>	string
<b>enableansi</b>	function	<b>selflink</b>	string
<b>env</b>	data table	<b>selfname</b>	string
<b>execute</b>	overloaded function	<b>selfpath</b>	string
<b>exit</b>	overloaded function	<b>serialwrite</b>	function
<b>fulltime</b>	function	<b>setenv</b>	overloaded function
<b>getcodepage</b>	function	<b>setexitcode</b>	function
<b>getenv</b>	overloaded function	<b>setlocale</b>	overloaded function
<b>getnamevalues</b>	function	<b>sleep</b>	function
<b>gettimeofday</b>	function	<b>startuptime</b>	function
<b>gettypevalues</b>	function	<b>time</b>	function
<b>getunamefields</b>	function	<b>timezone</b>	function
<b>isleapyear</b>	function	<b>tmpname</b>	function
<b>launch</b>	function	<b>today</b>	function
<b>libsuffix</b>	string	<b>type</b>	string
<b>localtime</b>	function	<b>uname</b>	function
<b>name</b>	string	<b>uuid</b>	function
<b>newline</b>	string	<b>validdate</b>	function
<b>nofdays</b>	function	<b>weekday</b>	function
<b>now</b>	function	<b>where</b>	function
<b>pipeto</b>	function	<b>which</b>	function

## package (basic lua)

<b>config</b>	string	<b>loadlib</b>	function
<b>cpath</b>	string	<b>luapaths</b>	function
<b>extralibpath</b>	function	<b>path</b>	string
<b>extralibpaths</b>	function	<b>poplibpath</b>	function
<b>extralualpath</b>	function	<b>popluapath</b>	function
<b>extralualpaths</b>	function	<b>preload</b>	table
<b>helpers</b>	table	<b>pushlibpath</b>	function
<b>libpaths</b>	function	<b>pushluapath</b>	function
<b>loaded</b>	table	<b>searchers</b>	table
<b>loaders</b>	table	<b>searchpath</b>	function

# pagebuilders (context)

## **columnsets** table

- F add
- F addmvl
- F block
- F blockrows
- F check
- F checkmvl
- F clean
- F define
- F definesub
- F delayedsheet
- F finishflush
- F flushareas
- F flushcolumn
- F goto
- F gotoslot
- F limit
- F noto
- F prepareflush
- F presetsheets
- F presetspreadsheets
- F put
- F putdirect
- F registerarea
- F registersheet
- F registerspreadsheets
- F reset
- F resetdirect

- F reshape
- F setarea
- F setextra
- F sethsize
- F sethspan
- F setlines
- F setmvl
- F setpresent
- F setproperties
- F setstart
- F shape
- F showshape
- F state
- F status
- F submvl
- F submvlbalance

## **injections** table

- F flushafter
- F flushbefore
- F save

## **mixedcolumns** table

- F cleanup
- F finalize
- F getlist
- F getrest
- F getsplit
- F setsplit

pdf (context)

**immediateobj** function

## pdfe (extra tex)

<b>arraytotable</b>	function	<b>getnumber</b>	function
<b>close</b>	function	<b>getobjectrange</b>	function
<b>closestream</b>	function	<b>getpage</b>	function
<b>dictionarytotable</b>	function	<b>getpages</b>	function
<b>getarray</b>	function	<b>getpermissions</b>	function
<b>getboolean</b>	function	<b>getsize</b>	function
<b>getbox</b>	function	<b>getstatus</b>	function
<b>getcatalog</b>	function	<b>getstatusvalues</b>	function
<b>getdictionary</b>	function	<b>getstream</b>	function
<b>getencodingvalues</b>	function	<b>getstring</b>	function
<b>getfieldtypes</b>	function	<b>gettrailer</b>	function
<b>getfromarray</b>	function	<b>getversion</b>	function
<b>getfromdictionary</b>	function	<b>new</b>	function
<b>getfromobject</b>	function	<b>open</b>	function
<b>getfromreference</b>	function	<b>openfile</b>	function
<b>getfromstream</b>	function	<b>openstream</b>	function
<b>getinfo</b>	function	<b>pagestotable</b>	function
<b>getinteger</b>	function	<b>readfromstream</b>	function
<b>getmemoryusage</b>	function	<b>readwholestream</b>	function
<b>getname</b>	function	<b>type</b>	function
<b>getnofobjects</b>	function	<b>unencrypt</b>	function
<b>getnofpages</b>	function		

# physics (context)

**units** table

F registershortcut

F registerunit

D tables

## pngdecode (extra tex)

<b>applyfilter</b>	function	<b>setexperiment</b>	function
<b>expand</b>	function	<b>splitmask</b>	function
<b>frompalette</b>	function	<b>tocmyk</b>	function
<b>interlace</b>	function	<b>togray</b>	function
<b>makemask</b>	function	<b>tomask</b>	function
<b>palettemask</b>	function	<b>transparentmask</b>	function
<b>reduce</b>	function		

## posit (extra lua)

<b>NaN</b>	function	<b>exp2</b>	function
<b>NaNR</b>	function	<b>expand</b>	function
<b>__add</b>	function	<b>floor</b>	function
<b>__band</b>	function	<b>frombyte</b>	function
<b>__bor</b>	function	<b>fromchar</b>	function
<b>__bxor</b>	function	<b>fromposit</b>	function
<b>__div</b>	function	<b>integer</b>	function
<b>__eq</b>	function	<b>log</b>	function
<b>__le</b>	function	<b>log10</b>	function
<b>__lt</b>	function	<b>log1p</b>	function
<b>__mul</b>	function	<b>log2</b>	function
<b>__name</b>	string	<b>logb</b>	function
<b>__pow</b>	function	<b>max</b>	function
<b>__shl</b>	function	<b>min</b>	function
<b>__shr</b>	function	<b>modf</b>	function
<b>__sub</b>	function	<b>new</b>	function
<b>__tostring</b>	function	<b>pow</b>	function
<b>__unm</b>	function	<b>rotate</b>	function
<b>abs</b>	function	<b>round</b>	function
<b>acos</b>	function	<b>rounded</b>	function
<b>asin</b>	function	<b>shift</b>	function
<b>atan</b>	function	<b>sin</b>	function
<b>band</b>	function	<b>sqrt</b>	function
<b>bor</b>	function	<b>tan</b>	function
<b>bxor</b>	function	<b>tobyte</b>	function
<b>ceil</b>	function	<b>tochar</b>	function
<b>conj</b>	function	<b>tonumber</b>	function
<b>copy</b>	function	<b>toposit</b>	function
<b>cos</b>	function	<b>tostring</b>	function
<b>exp</b>	function		

## potrace (extra tex)

<b>checked</b>	function	<b>getnewfields</b>	function
<b>concat</b>	function	<b>getpolicyvalues</b>	function
<b>contourplot</b>	function	<b>getprocessfields</b>	function
<b>convert</b>	function	<b>new</b>	function
<b>count</b>	function	<b>process</b>	function
<b>flush</b>	function	<b>setbitmap</b>	function
<b>free</b>	function	<b>stripped</b>	function
<b>fromfile</b>	function	<b>totable</b>	function
<b>getbitmap</b>	function	<b>trace</b>	function

# publications (context)

<b>addtexentry</b>	function	<b>concatstate</b>	function
<b>analyze</b>	function	<b>converttoxml</b>	function
<b>anywhere</b>	function	<b>currentspecification</b>	table
<b>authorcache</b>	data table	S author	
<b>authorcollapsers</b>	data table	S comment	
<b>authorhashers</b>	table	S copyright	
F invertedshort		S name	
F normal		S version	
F normalinverted		D virtual	
F normalshort		<b>datasets</b>	table
F sequential		<b>detailed</b>	table
F sequentialshort		<b>endnotes_to_btx</b>	function
F short		<b>enhancer</b>	table
<b>authormap</b>	data table	S arguments	
<b>authortoregister</b>	function	B dirty	
<b>btx</b>	table	N steps	
<b>casters</b>	table	<b>enhancers</b>	table
F author		F details	
F keyword		F order	
F pagenumber		F suffixes	
F range		<b>finder</b>	function
<b>checkeddataset</b>	function	<b>firstofrange</b>	function
<b>citevariants</b>	table	<b>found</b>	function
F author		<b>get</b>	function
F authornum		<b>getcasted</b>	function
F authoryear		<b>getdetail</b>	function
F authoryears		<b>getdirect</b>	function
F category		<b>getfaster</b>	function
F default		<b>getfield</b>	function
F entry		<b>getfuzzy</b>	function
F index		<b>getindex</b>	function
F keywords		<b>inspectors</b>	data table
F num		<b>journals</b>	table
F page		F abbreviated	
F short		F add	
F tag		F expanded	
F textnum		F load	
F year		F save	
<b>collected</b>	data table	<b>lastofrange</b>	function
<b>components</b>	table	<b>lists</b>	table
F author		F collectentries	

F combiinlist	
F fetchentries	
F filterall	
F flushcombi	
F flushentry	
F flushtag	
F nofregistered	
F prepareentries	
F register	
F sameasprevious	
F uservariable	
<b>listvariants</b>	table
F default	
F index	
F num	
F short	
F tag	
<b>load</b>	function
<b>loadbibdata</b>	function
<b>loaddefinitionfile</b>	function
<b>loaders</b>	table
F bbl	
F bib	
F buffer	
F endnote	
F json	
F lua	
F refman	
F registercleaner	
F xml	
<b>loadreplacementfile</b>	function
<b>meanings</b>	table
<b>new</b>	function
<b>okay</b>	function
<b>oneorange</b>	function
<b>parenttag</b>	function
<b>permitted</b>	function
<b>prerollcmdstring</b>	function
<b>refman_to_btx</b>	function
<b>resolvedname</b>	function
<b>save</b>	function
<b>savers</b>	table
F bib	
F lua	
F xml	
<b>search</b>	function
<b>setcategory</b>	function
<b>setspecification</b>	function
<b>singularorplural</b>	function
<b>sortedentries</b>	function
<b>sortmethods</b>	table
<b>specifications</b>	table
<b>splitauthor</b>	function
<b>splitoneauthor</b>	function
<b>statistics</b>	table
N nofbytes	
N nofdatasets	
N nofdefinitions	
N nofshortcuts	
<b>tables</b>	table
D implicits	
D origins	
D privates	
D sets	
D specials	
D types	
D virtuals	
<b>tags</b>	function
<b>tracers</b>	table
F showdatasetauthors	
F showdatasetcompleteness	
F showdatasetfields	
F showentry	
F showfields	
F showhashedauthors	
F showtables	
F showvariants	
<b>typesetters</b>	table
F author	
F string	
<b>usedataset</b>	function
<b>usedentries</b>	function
<b>writers</b>	table
F author	
F keyword	
F pagenumber	
F range	

# qrcodegen (context)

**bitmap** function  
**generate** function

## regimes (context)

<b>backmapping</b>	data table
<b>cleanup</b>	function
<b>disable</b>	function
<b>enable</b>	function
<b>fromregime</b>	function
<b>list</b>	function

<b>mapping</b>	data table
<b>pop</b>	function
<b>process</b>	function
<b>push</b>	function
<b>toregime</b>	function
<b>translate</b>	function

# resolvers (context)

<b>allprefixes</b>	function	<b>findfiles</b>	function
<b>appendhash</b>	function	<b>findgivenfile</b>	function
<b>automount</b>	function	<b>findgivenfiles</b>	function
<b>booleanvariable</b>	function	<b>findlib</b>	function
<b>cacheversion</b>	string	<b>findpath</b>	function
<b>checkedvariable</b>	function	<b>findpk</b>	function
<b>cleanedpathlist</b>	function	<b>findtexfile</b>	function
<b>cleaners</b>	data table	<b>findwildcardfile</b>	function
<b>cleanpath</b>	function	<b>findwildcardfiles</b>	function
<b>cleanpathlist</b>	function	<b>formatofsuffix</b>	function
<b>cleanupbinfile</b>	function	<b>formatofvariable</b>	function
<b>concatinators</b>	data table	<b>formats</b>	data table
<b>configbanner</b>	string	<b>foundintree</b>	function
<b>configurationfiles</b>	function	<b>foundintrees</b>	function
<b>dangerous</b>	data table	<b>generators</b>	data table
<b>datastate</b>	function	<b>get_from_content</b>	function
<b>decompressors</b>	table	<b>getdetails</b>	function
F register		<b>getenv</b>	function
F unregister		<b>getextrapaths</b>	function
<b>defaultsuffixes</b>	table	<b>getfilehashes</b>	function
<b>dirstatus</b>	function	<b>gethashes</b>	function
<b>dowithfilesandreport</b>	function	<b>getownpath</b>	function
<b>dowithfilesintree</b>	function	<b>getreadfilename</b>	function
<b>dowithpath</b>	function	<b>hashers</b>	data table
<b>dowithvariable</b>	function	<b>homedir</b>	string
<b>executers</b>	table	<b>ignorelibrary</b>	function
<b>expandbraces</b>	function	<b>initialized</b>	function
<b>expandedpathfromlist</b>	function	<b>installinputfilehandler</b>	function
<b>expandedpathlist</b>	function	<b>installinputlinehandler</b>	function
<b>expandedpathlistfromvariable</b>	function	<b>jobpath</b>	function
<b>expandpath</b>	function	<b>jobs</b>	table
<b>expandpathfromvariable</b>	function	F collectstructure	
<b>expansion</b>	function	F currentcomponent	
<b>extendtexmfvariable</b>	function	F currentenvironment	
<b>filtered_from_content</b>	function	F currentproduct	
<b>find_file</b>	function	F currentproject	
<b>find_files</b>	function	F currentstructure	
<b>findbinfile</b>	function	F justacomponent	
<b>findctxfile</b>	function	F namelist	
<b>finders</b>	data table	D processors	
<b>findfile</b>	function	F productcomponent	

F usefile		<b>registerextrapath</b>	function
<b>joinpath</b>	function	<b>registerfile</b>	function
<b>knownvariables</b>	function	<b>registerfilehash</b>	function
<b>libraries</b>	table	<b>registerintrees</b>	function
F optionalloaded		<b>registermethod</b>	function
F validoptional		<b>registerzipfile</b>	function
<b>load</b>	function	<b>relations</b>	data table
<b>loadbinfile</b>	function	<b>renew</b>	function
<b>loaders</b>	data table	<b>renewcache</b>	function
<b>loadlualib</b>	function	<b>repath</b>	function
<b>loadtexfile</b>	function	<b>reset</b>	function
<b>loadtime</b>	function	<b>resetextrapaths</b>	function
<b>locateformat</b>	function	<b>resetresolve</b>	function
<b>locators</b>	data table	<b>resolve</b>	function
<b>luacnffallback</b>	string	<b>savers</b>	data table
<b>luacnfname</b>	string	<b>scandata</b>	function
<b>luacnfspec</b>	string	<b>scanfiles</b>	function
<b>luacnfstate</b>	string	<b>schemes</b>	table
<b>macros</b>	table	F cleanname	
F convertfile		F fetchstring	
F decodecomment		F fetchtable	
F enablecomment		F install	
F encodecomment		<b>setdynamic</b>	function
F preprocessed		<b>setenv</b>	function
F processmk		<b>showdetails</b>	function
F processmkLx		<b>showpath</b>	function
F processmkvi		<b>simplescanfiles</b>	function
F version		<b>splitconfigurationpath</b>	function
<b>maxreadlevel</b>	number	<b>splitexpansions</b>	function
<b>methodhandler</b>	function	<b>splitmethod</b>	function
<b>missinglibrary</b>	function	<b>splitpath</b>	function
<b>openbinfile</b>	function	<b>stackpath</b>	function
<b>openers</b>	data table	<b>starttiming</b>	function
<b>openfile</b>	function	<b>stoptiming</b>	function
<b>opentexfile</b>	function	<b>suffixes</b>	data table
<b>ownpath</b>	string	<b>suffixmap</b>	data table
<b>popextrapath</b>	function	<b>suffixofformat</b>	function
<b>popinputname</b>	function	<b>texdatablob</b>	function
<b>poppath</b>	function	<b>toppath</b>	function
<b>prefixes</b>	data table	<b>tracers</b>	data table
<b>prependhash</b>	function	<b>unexpandedpath</b>	function
<b>pushextrapath</b>	function	<b>unexpandedpathlist</b>	function
<b>pushinputname</b>	function	<b>unresolve</b>	function
<b>pushpath</b>	function	<b>updaterelations</b>	function

<b>updatescript</b>	function	<b>variable</b>	function
<b>uselibrary</b>	function	<b>variableofformat</b>	function
<b>usertypes</b>	data table	<b>variableofformatorsuffix</b>	function
<b>usezipfile</b>	function	<b>wildcardpattern</b>	function
<b>validatedpath</b>	function		

## sandbox (context)

<b>blockrequire</b>	function
<b>disablelibraries</b>	function
<b>disablerunners</b>	function
<b>enable</b>	function
<b>filehandlerone</b>	function
<b>filehandlertwo</b>	function
<b>finalizer</b>	function
<b>getrunner</b>	function
<b>initializer</b>	function
<b>iohandler</b>	function
<b>logcalls</b>	function
<b>logfiles</b>	function
<b>original</b>	function
<b>overload</b>	function

<b>possiblepath</b>	function
<b>redefine</b>	function
<b>register</b>	function
<b>registerbinary</b>	function
<b>registerlibrary</b>	function
<b>registerroot</b>	function
<b>registerrunner</b>	function
<b>report</b>	function
<b>setfilenamelogger</b>	function
<b>setlogger</b>	function
<b>setreporter</b>	function
<b>settrace</b>	function
<b>validfilename</b>	function

# scripts (context)

**autofontfeature** table

F disable

F enable

F handler

**colors** data table

**decomposehangul** function

**defaults** table

N inter\_char\_half\_shrink\_factor

N inter\_char\_half\_stretch\_factor

N inter\_char\_hangul\_penalty

N inter\_char\_quarter\_shrink\_factor

N inter\_char\_quarter\_stretch\_factor

N inter\_char\_shrink\_factor

N inter\_char\_stretch\_factor

N inter\_word\_stretch\_factor

**getdata** function

**getinjector** function

**getsplitter** function

**getstatus** function

**handlers** data table

**helpers** data table

**injectors** data table

**inserters** table

F nobreakspace\_after

F nobreakspace\_before

F space\_after

F space\_before

F zerowidthspace\_after

F zerowidthspace\_before

**installdataset** function

**installmethod** function

**numbertodataset** data table

**numbertohandler** data table

**reset** function

**set** function

**setstatus** function

**splitters** data table

## serial (context)

**\_\_gc** function  
**\_\_name** string  
**\_\_tostring** function  
**close** function

**open** function  
**send** function  
**tostring** function  
**write** function

## set (context)

**contains** function  
**create** function  
**tolist** function

**tonumber** function  
**totable** function

## sha2 (extra lua)

**HASH256** function  
**HASH384** function  
**HASH512** function  
**HEX256** function  
**HEX384** function  
**HEX512** function  
**digest256** function  
**digest384** function  
**digest512** function

**hash256** function  
**hash384** function  
**hash512** function  
**hex256** function  
**hex384** function  
**hex512** function  
**sum256** function  
**sum384** function  
**sum512** function

## sio (extra lua)

<b>read2dot14</b>	function	<b>readfloatle12</b>	function
<b>readbytes</b>	function	<b>readfloatle6</b>	function
<b>readbytetable</b>	function	<b>readinteger1</b>	function
<b>readcardinal1</b>	function	<b>readinteger1le</b>	function
<b>readcardinal1le</b>	function	<b>readinteger2</b>	function
<b>readcardinal2</b>	function	<b>readinteger2le</b>	function
<b>readcardinal2le</b>	function	<b>readinteger3</b>	function
<b>readcardinal3</b>	function	<b>readinteger3le</b>	function
<b>readcardinal3le</b>	function	<b>readinteger4</b>	function
<b>readcardinal4</b>	function	<b>readinteger4le</b>	function
<b>readcardinal4le</b>	function	<b>readintegertable</b>	function
<b>readcardinaltable</b>	function	<b>tocardinal1</b>	function
<b>readcline</b>	function	<b>tocardinal1le</b>	function
<b>readcstring</b>	function	<b>tocardinal2</b>	function
<b>readdouble</b>	function	<b>tocardinal2le</b>	function
<b>readdoublele</b>	function	<b>tocardinal3</b>	function
<b>readfixed2</b>	function	<b>tocardinal3le</b>	function
<b>readfixed4</b>	function	<b>tocardinal4</b>	function
<b>readfloat</b>	function	<b>tocardinal4le</b>	function
<b>readfloatle</b>	function		

# socket (extra lua)

<b>BLOCKSIZE</b>	number	<b>sinkt</b>	table
<b>_SETSIZE</b>	number	F close-when-done	
<b>_SOCKETINVALID</b>	number	F default	
<b>bind</b>	function	F http-chunked	
<b>choose</b>	function	F keep-open	
<b>connect</b>	function	<b>skip</b>	function
<b>connect4</b>	function	<b>sleep</b>	function
<b>connect6</b>	function	<b>source</b>	function
<b>dns</b>	table	<b>sourcet</b>	table
F getaddrinfo		F by-length	
F gethostname		F default	
F getnameinfo		F http-chunked	
F tohostname		F until-closed	
F toip		<b>tcp</b>	function
<b>gettime</b>	function	<b>tcp4</b>	function
<b>headers</b>	table	<b>tcp6</b>	function
F lower		<b>tp</b>	table
F normalize		N TIMEOUT	
<b>http</b>	table	F connect	
N TIMEOUT		<b>try</b>	function
S USERAGENT		<b>url</b>	table
F genericform		F absolute	
F open		F build	
F request		F build_path	
<b>newtry</b>	function	F escape	
<b>protect</b>	function	F parse	
<b>report</b>	function	F parse_path	
<b>select</b>	function	F unescape	
<b>sink</b>	function		

# sorters (context)

**basicsorter**      function  
**comparers**      table  
    F basic  
**constants**      table  
    S defaultdigits  
    S defaultlanguage  
    S defaultmethod  
    N digitsmaximum  
    N digitsoffset  
    N ignoredoffset  
    N replacementoffset  
**definitions**      data table

**firstofsplit**    function  
**packch**          function  
**packuc**          function  
**replacementlist** function  
**setlanguage**    function  
**sort**            function  
**splitters**      table  
    F utf  
**strip**            function  
**tracers**        data table  
**update**          function

## sparse (extra lua)

**concat**    function  
**get**        function  
**max**        function  
**min**        function  
**new**        function

**range**     function  
**restore**   function  
**set**        function  
**traverse**  function  
**wipe**      function

# statistics (context)

**benchmarktimer** function  
**checkfmtstatus** function  
**currenttime** function  
**elapsed** function  
**elapsedindeed** function  
**elapsedseconds** function  
**elapsedtime** function  
**enable** boolean  
**feedback** table  
    F info  
    F processtates  
    F register  
    F reportstates  
    F setstate  
**formatruntime** function

**hastiming** function  
**memused** function  
**register** function  
**resettiming** function  
**runtime** function  
**savefmtstatus** function  
**show** function  
**showmemory** function  
**showusage** function  
**starttiming** function  
**stoptiming** function  
**threshold** number  
**timed** function  
**tracefunction** function

## status (basic tex)

<b>getbalancestate</b>	function	<b>getluastate</b>	function
<b>getbufferstate</b>	function	<b>getmarkstate</b>	function
<b>getcallbackstate</b>	function	<b>getmvlstate</b>	function
<b>getconstants</b>	function	<b>getneststate</b>	function
<b>geterrorlinestate</b>	function	<b>getnodestate</b>	function
<b>geterrorstate</b>	function	<b>getparameterstate</b>	function
<b>getexpandstate</b>	function	<b>getpoolstate</b>	function
<b>getfilestate</b>	function	<b>getreadstate</b>	function
<b>getfontstate</b>	function	<b>getsavestate</b>	function
<b>gethalferrorlinestate</b>	function	<b>getsparsestate</b>	function
<b>gethashstate</b>	function	<b>getstringstate</b>	function
<b>gethyphenationstate</b>	function	<b>gettexstate</b>	function
<b>getinputstate</b>	function	<b>gettokenstate</b>	function
<b>getinsertstate</b>	function	<b>getwarningstate</b>	function
<b>getlanguagestate</b>	function	<b>iocodes</b>	table
<b>getlinebreakstate</b>	function	<b>list</b>	function
<b>getlookupstate</b>	function	<b>resetmessages</b>	function

## storage (context)

<b>allocate</b>	function	<b>noftables</b>	number
<b>data</b>	table	<b>register</b>	function
<b>mark</b>	function	<b>shared</b>	data table
<b>marked</b>	function	<b>storedfunctions</b>	data table
<b>max</b>	number	<b>strip</b>	boolean
<b>min</b>	number	<b>tofmodules</b>	number
<b>nofmodules</b>	number	<b>toftables</b>	number

## streams (context)

**collect**      function  
**disable**     function  
**enable**      function  
**flush**        function  
**initialize**   function

**push**         function  
**start**        function  
**stop**         function  
**synchronize** function

# string (basic lua)

<b>autodouble</b>	function	<b>optionalquoted</b>	function
<b>autosingle</b>	function	<b>pack</b>	function
<b>booleanstring</b>	function	<b>packrowscolumns</b>	function
<b>byte</b>	function	<b>packsize</b>	function
<b>bytepairs</b>	function	<b>quote</b>	function
<b>bytes</b>	function	<b>quoted</b>	function
<b>bytetable</b>	function	<b>rep</b>	function
<b>char</b>	function	<b>replacenewlines</b>	function
<b>characterpairs</b>	function	<b>reverse</b>	function
<b>characters</b>	function	<b>split</b>	function
<b>checkedsplit</b>	function	<b>splitintolines</b>	function
<b>chrtointeger</b>	function	<b>splitlines</b>	function
<b>collapsespaces</b>	function	<b>splitup</b>	function
<b>containsws</b>	function	<b>strip</b>	function
<b>count</b>	function	<b>sub</b>	function
<b>dectointeger</b>	function	<b>texhashed</b>	function
<b>dump</b>	function	<b>texnewlines</b>	function
<b>escapedpattern</b>	function	<b>tformat</b>	function
<b>escapedquotes</b>	function	<b>toHEX</b>	function
<b>f6</b>	function	<b>toboolean</b>	function
<b>find</b>	function	<b>tobytes</b>	function
<b>format</b>	function	<b>tocontext</b>	function
<b>formatter</b>	function	<b>todec</b>	function
<b>formatters</b>	function	<b>todimen</b>	function
<b>fullstrip</b>	function	<b>tohex</b>	function
<b>gmatch</b>	function	<b>tonodes</b>	function
<b>gsub</b>	function	<b>topattern</b>	function
<b>hashes</b>	table	<b>totable</b>	function
<b>hextocharacters</b>	function	<b>tounicode16</b>	function
<b>hextointeger</b>	function	<b>toutf</b>	function
<b>is_boolean</b>	function	<b>toutf16</b>	function
<b>is_empty</b>	function	<b>toutf32</b>	function
<b>itself</b>	function	<b>toutf8</b>	function
<b>len</b>	function	<b>tracedchar</b>	function
<b>limit</b>	function	<b>unescapedquotes</b>	function
<b>linetable</b>	function	<b>unpack</b>	function
<b>longtostring</b>	function	<b>unquote</b>	function
<b>lower</b>	function	<b>unquoted</b>	function
<b>match</b>	function	<b>upper</b>	function
<b>nospaces</b>	function	<b>utf16toutf8</b>	function
<b>octtointeger</b>	function	<b>utfcharacter</b>	function

**utfcharacters** function  
**utfcharacterstable** function  
**utflength** function  
**utfpadd** function  
**utfpadding** function  
**utftabletostring** function

**utfvalue** function  
**utfvalues** function  
**utfvaluetable** function  
**valid** function  
**wordsplitter** function

# structures (context)

<b>allocation</b>	function	F record
<b>blocks</b>	table	F reset
D collected		F restart
F define		F restore
F empty		F save
F print		F set
F save		F setlevel
F select		F setoffset
F setstate		F setown
D states		F setstate
D tobesaved		F setvalue
F uservariable		F subs
<b>bookmarks</b>	table	D tobesaved
F finalize		F value
F flatten		F way
F installhandler		<b>currentsectionnumber</b> function
F merge		<b>descriptions</b> table
S method		<b>documents</b> table
F overload		D data
F place		F initialize
F register		F preset
F setopened		F reset
F setup		<b>floats</b> table
<b>counters</b>	table	<b>formulas</b> table
F add		<b>helpers</b> table
F analyze		F analyze
F check		F formulanumber
D collected		F merged
F compact		F page
F converted		F pageofinternal
F currentvalue		F prefix
D data		F prefixlastpage
F define		F prefixpage
F first		F simplify
F get		F title
F isset		F touserdata
F last		<b>inserts</b> table
F next		F attach
F prev		D data
F previous		F define
F raw		F detach

F getdata  
 F getlocation  
 F getname  
 F getnumber  
 F nofdetached  
 F setlocation  
 F setup  
 D stored  
**itemgroups** table  
 D collected  
 D tobесaved  
**lists** table  
 F addto  
 F analyze  
 F bookmark  
 D cached  
 D collected  
 F discard  
 F enhance  
 F external  
 F filter  
 F formulаnumber  
 F getresult  
 F groupindex  
 F hasnumberdata  
 F haspagedata  
 F hastitledata  
 F integrate  
 F iscached  
 D kinds  
 F label  
 F location  
 D names  
 F number  
 D ordered  
 F page  
 F popnesting  
 F prefix  
 F prefixednumber  
 F prefixedpage  
 F process  
 D pushed  
 F pushnesting  
 F rawnumber

F rawrealpage  
 F rawuserpage  
 F realpage  
 F reorder  
 F reordered  
 F savedlistnumber  
 F savedlistprefixednumber  
 F savedlisttitle  
 D sectionblocks  
 F size  
 F title  
 D tobесaved  
 F use  
 F userdata  
 F userpage  
 F uservalue

**marks** table

F number  
 F title

**notes** table

F checkpagechange  
 F define  
 F flushrange  
 F get  
 F getdeltapage  
 F getinternal  
 F getn  
 F getstate  
 F getstorecount  
 F getstoreflushed  
 F hascontent  
 F internal  
 F internalid  
 F listindex  
 D numbers  
 F ordered  
 F postpone  
 F resetpostponed  
 F restore  
 F save  
 F setstate  
 D states  
 F store

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F allmarked  
F analyze  
D collected  
F fraction  
F getlabels  
F in\_body  
F is\_odd  
F mark  
F marked  
F markedlist  
N nopages  
F number  
F on\_right  
F save  
D tobesaved  
F toranges

## references

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F analyze  
F checked  
F checkedfile  
F checkedfileorurl  
F checkedprogram  
F checkedrealpage  
F checkedurl  
D collected  
U componentsplitter  
F currentmetadata  
F currentorder  
D currentset  
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F enhance  
D executers  
F export  
F filter  
F filterdefault  
D filters  
D flaginternals  
F forceinnermode  
F from  
D functions  
F get  
F getcurrentlabel

F getcurrentmetadata  
F getcurrentprefixspec  
F getinnermethod  
F getinternalcachedlistreference  
F getinternallistreference  
F getinternalreference  
F getoutermethod  
D handlers  
F identify  
F import  
F inject  
F injectcurrentset  
S innermethod  
F integrate  
D internals  
F load  
F loadpresets  
F mark  
S outermethod  
F pagefromhash  
D pages  
U prefixsplitter  
D productdata  
F realpageofpage  
F referenced  
U referencesplitter  
D referred  
F referredpage  
F registerfinalizer  
F registerinitializer  
F registerpage  
F reset  
D runners  
F set  
F setandgetattribute  
F setinternalreference  
F setlinkmethod  
F setnextinternal  
F setnextorder  
F setreferencerealpage  
F setstructure  
D specials  
F splitcomponent  
F splitprefix

F splitreference  
F synchronizepage  
D tobereferred  
D tobesaved  
D tracedpages  
D usedinternals  
D usedviews  
F valid

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F analyze  
D collected  
F compare  
F define  
F enhance  
F extend  
F filter  
F filtercollected  
F finalize  
F findinternal  
F flush  
F get  
F integrate  
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F process  
F setmethod  
F sort  
F store  
D tobesaved  
F tweak  
F unique  
F use  
F userdata

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F autodepth  
F cct  
D collected  
F current  
F currentblock  
F currentid  
F currentlevel  
F currentsectionindex  
F depthnumber  
F finddata  
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F getcurrentlevel  
F getlevel  
F getnumber  
F internalreference  
D levelmap  
D levels  
F matchingtilldepth  
F numberatdepth  
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F popblock  
F prefixedconverted  
F pushblock  
F register  
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F reportstructure  
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F setentry  
F setinitialblock  
F setlevel  
F setnumber  
F showstructure  
F structuredata  
F title  
D tobesaved  
F typesetnumber  
F userdata  
B verbose

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F define  
F get  
F getall  
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**specials** table

D collected  
F retrieve  
F store  
D tobesaved

**synonyms** table

F analyzed  
D collected

F compare  
F define  
F enhance  
F filter  
F finalize  
F firstuserpage  
F flush  
F isshown  
F isused  
F meaning  
F pages  
F prepare  
F process  
F register  
F registershown  
F registerused  
F reset  
F resetall  
F resetlist  
F resetsshown  
F resetused  
F sort  
F synonym  
D tobesaved  
F userpages

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F analyze  
F checknesting  
F current  
F elementtag  
F enabled  
F exportbox  
F finishexport  
F getdescriptionindex  
F getextradata  
F getid  
F getitemgroup  
F getmetadata  
F getoption  
F getsorting  
F getsynonym  
F gettablecell  
F gettabulatecell  
F gettagreferencedescription

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F handler  
F initializeexport  
D labels  
F last  
F lastinchain  
F localexport  
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F pop  
D properties  
F push  
F registerextradata  
F registermetadata  
F restart  
F setaspect  
F setattributehash  
F setcodepoint  
F setcombination  
F setcombinationpair  
F setconstruct  
F setdescriptionindex  
F setfigure  
F setfloat  
F setformulacontent  
F sethighlight  
F setitem  
F setitemgroup  
F setmpgraphic  
F setnotation  
F setnotationsymbol  
F setparagraph  
F setproperty  
F setpublication  
F setregister  
F setsorting  
F setsynonym  
F settablecell  
F settabulatecell  
F settagdelimitedsymbol  
F settagsubsentencesymbol  
F setupexport  
F setuserproperties  
D specifications  
F start

F stop  
F strip

D taglist

## table (basic lua)

<b>append</b>	function	<b>pack</b>	function
<b>are_equal</b>	function	<b>prepend</b>	function
<b>combine</b>	function	<b>print</b>	function
<b>compact</b>	function	<b>remove</b>	function
<b>concat</b>	function	<b>reverse</b>	function
<b>contains</b>	function	<b>reversed</b>	function
<b>copy</b>	function	<b>save</b>	function
<b>count</b>	function	<b>sequenced</b>	function
<b>create</b>	function	<b>serialize</b>	function
<b>derive</b>	function	<b>setmetatablecall</b>	function
<b>deserialize</b>	function	<b>setmetatableindex</b>	function
<b>fastcopy</b>	function	<b>setmetatableindices</b>	function
<b>fastserialize</b>	function	<b>setmetatablenewindex</b>	function
<b>filtered</b>	function	<b>sort</b>	function
<b>flattened</b>	function	<b>sorted</b>	function
<b>fromhash</b>	function	<b>sortedhash</b>	function
<b>getn</b>	function	<b>sortedhashkeys</b>	function
<b>has_one_entry</b>	function	<b>sortedhashonly</b>	function
<b>hashed</b>	function	<b>sortedindexonly</b>	function
<b>identical</b>	function	<b>sortedkeys</b>	function
<b>imerge</b>	function	<b>sortedpairs</b>	function
<b>imerged</b>	function	<b>sparse</b>	function
<b>insert</b>	function	<b>strip</b>	function
<b>is_empty</b>	function	<b>sub</b>	function
<b>is_simple_table</b>	function	<b>swapped</b>	function
<b>keys</b>	function	<b>tocontext</b>	function
<b>load</b>	function	<b>tocsv</b>	function
<b>loweredkeys</b>	function	<b>tofile</b>	function
<b>makeweak</b>	function	<b>tohandle</b>	function
<b>merge</b>	function	<b>tohash</b>	function
<b>merged</b>	function	<b>toxml</b>	function
<b>mirrored</b>	function	<b>unique</b>	function
<b>move</b>	function	<b>unpack</b>	function

# tex (basic tex)

<b>amcode</b>	table	<b>directives</b>	data table
<b>attribute</b>	table	<b>discoptioncodes</b>	data table
<b>attributetracking</b>	function	<b>discpartcodes</b>	data table
<b>automigrationcodes</b>	data table	<b>dontcomplain</b>	function
<b>autoparagraphcodes</b>	data table	<b>doublescriptoptioncodes</b>	data table
<b>badness</b>	function	<b>enableprimitives</b>	function
<b>badnessmodecodes</b>	data table	<b>error</b>	function
<b>balance</b>	function	<b>expandasvalue</b>	function
<b>balancecallbackcodes</b>	data table	<b>experiments</b>	data table
<b>boundaries</b>	table	<b>extraprimitives</b>	function
D names		<b>fatalerror</b>	function
D numbers		<b>fillcodes</b>	data table
F system		<b>flagcodes</b>	data table
<b>box</b>	table	<b>fontidentifier</b>	function
<b>boxcontinuationcodes</b>	data table	<b>fontname</b>	function
<b>boxoptioncodes</b>	data table	<b>forcehmode</b>	function
<b>boxresources</b>	table	<b>forceinputstatefile</b>	function
F getbox		<b>forceinputstateline</b>	function
F getdimensions		<b>fprint</b>	function
F save		<b>frozenparcodes</b>	data table
F use		<b>get</b>	function
<b>breakcodes</b>	data table	<b>getadjustoptionvalues</b>	function
<b>buildcodes</b>	data table	<b>getalignmentcontextvalues</b>	function
<b>catcode</b>	table	<b>getamcode</b>	function
<b>cccode</b>	table	<b>getappendadjustcontextvalues</b>	function
<b>charactercontrolcodes</b>	data table	<b>getappendmigratecontextvalues</b>	function
<b>charactertagcodes</b>	data table	<b>getattribute</b>	function
<b>chardef</b>	function	<b>getautomigrationvalues</b>	function
<b>classoptioncodes</b>	data table	<b>getautoparagraphvalues</b>	function
<b>codes</b>	table	<b>getbadnessmodevalues</b>	function
<b>conditionals</b>	data table	<b>getbalancecallbackvalues</b>	function
<b>constants</b>	data table	<b>getbalanceparameterfields</b>	function
<b>count</b>	table	<b>getbalanceresultfields</b>	function
<b>cprint</b>	function	<b>getbalancestepoptionvalues</b>	function
<b>ctdcatcodes</b>	number	<b>getbox</b>	function
<b>ctxcatcodes</b>	number	<b>getboxcontinuationvalues</b>	function
<b>definefont</b>	function	<b>getboxdir</b>	function
<b>delcode</b>	table	<b>getboxoptionvalues</b>	function
<b>dimen</b>	table	<b>getboxresourcebox</b>	function
<b>dimensiondef</b>	function	<b>getboxresourcedimensions</b>	function
<b>directioncodes</b>	data table	<b>getbreakcontextvalues</b>	function

<b>getbuildcontextvalues</b>	function	<b>getinputstatemode</b>	function
<b>getcardinalvalue</b>	function	<b>getinsertcategoryvalues</b>	function
<b>getcatcode</b>	function	<b>getinsertcontent</b>	function
<b>getcccode</b>	function	<b>getinsertdepth</b>	function
<b>getcharactercontrolvalues</b>	function	<b>getinsertdistance</b>	function
<b>getcharactertagvalues</b>	function	<b>getinsertheight</b>	function
<b>getcount</b>	function	<b>getinsertlimit</b>	function
<b>getcurrentmvl</b>	function	<b>getinsertmaxplaced</b>	function
<b>getdelayedgluelocationvalues</b>	function	<b>getinsertmultiplier</b>	function
<b>getdelayedgluetargetvalues</b>	function	<b>getinsertoptionvalues</b>	function
<b>getdelcode</b>	function	<b>getinsertsplitvalues</b>	function
<b>getdelcodes</b>	function	<b>getinsertwidth</b>	function
<b>getdimen</b>	function	<b>getintegervalue</b>	function
<b>getdimensionvalue</b>	function	<b>getinteraction</b>	function
<b>getdirectionvalues</b>	function	<b>getinteractionmodes</b>	function
<b>getdiscoptionvalues</b>	function	<b>getiovalues</b>	function
<b>getdiscpartvalues</b>	function	<b>getkerneloptionvalues</b>	function
<b>getdoublescriptoptionvalues</b>	function	<b>getkernoptionvalues</b>	function
<b>getemptyparagraphmodevalues</b>	function	<b>getlargestusedmark</b>	function
<b>geterrorrecoverymodevalues</b>	function	<b>getlccode</b>	function
<b>geterrorvalues</b>	function	<b>getlinebreakparameterfields</b>	function
<b>getfillvalues</b>	function	<b>getlinebreakresultfields</b>	function
<b>getflagvalues</b>	function	<b>getlinebreakstatevalues</b>	function
<b>getfloat</b>	function	<b>getlinedir</b>	function
<b>getfontdimension</b>	function	<b>getlist</b>	function
<b>getfontofffamily</b>	function	<b>getlistanchorvalues</b>	function
<b>getfrozenparvalues</b>	function	<b>getlistfields</b>	function
<b>getglue</b>	function	<b>getlistgeometryvalues</b>	function
<b>getglueoptionvalues</b>	function	<b>getlistsignvalues</b>	function
<b>getglyphdata</b>	function	<b>getlocalbox</b>	function
<b>getglyphdiscvalues</b>	function	<b>getlocalboxlocations</b>	function
<b>getglyphoptionvalues</b>	function	<b>getlocallevel</b>	function
<b>getglyphprotectionvalues</b>	function	<b>getmark</b>	function
<b>getglyphscales</b>	function	<b>getmarknames</b>	function
<b>getglyphscript</b>	function	<b>getmath</b>	function
<b>getglyphstate</b>	function	<b>getmathclassoptionvalues</b>	function
<b>getgroupvalues</b>	function	<b>getmathcode</b>	function
<b>gethccode</b>	function	<b>getmathcodes</b>	function
<b>gethelptext</b>	function	<b>getmathcontrolvalues</b>	function
<b>gethcode</b>	function	<b>getmathdir</b>	function
<b>gethyphenationvalues</b>	function	<b>getmathgluevalues</b>	function
<b>getitypes</b>	function	<b>getmathoptionvalues</b>	function
<b>getinputstatefile</b>	function	<b>getmathparametervalues</b>	function
<b>getinputstateline</b>	function	<b>getmathscriptordervalue</b>	function

<b>getmathscriptsmodevalues</b>	function	<b>getruleoptionvalues</b>	function
<b>getmathstylenamevalues</b>	function	<b>getrunstate</b>	function
<b>getmathstylevalues</b>	function	<b>getrunstatevalues</b>	function
<b>getmathstylevariant</b>	function	<b>getsfcode</b>	function
<b>getmathsurroundvalues</b>	function	<b>getshapingpenaltiesvalues</b>	function
<b>getmathvariantpresets</b>	function	<b>getskip</b>	function
<b>getmathvariantvalues</b>	function	<b>getsnappingvalues</b>	function
<b>getmeasure</b>	function	<b>getspacefactorvalues</b>	function
<b>getmissingcharactervalues</b>	function	<b>getspaceskipvalues</b>	function
<b>getmode</b>	function	<b>getspcode</b>	function
<b>getmodevalues</b>	function	<b>getspecialmathclassvalues</b>	function
<b>getmuglue</b>	function	<b>getspecification</b>	function
<b>getmuskip</b>	function	<b>getspecificationoptionvalues</b>	function
<b>getmvloptionvalues</b>	function	<b>gettextcontrolvalues</b>	function
<b>getnest</b>	function	<b>gettextdir</b>	function
<b>getnestfields</b>	function	<b>gettoks</b>	function
<b>getnestlevel</b>	function	<b>getuccode</b>	function
<b>getnoadoptoptionvalues</b>	function	<b>getuleaderlocationvalues</b>	function
<b>getnormalizelinevalues</b>	function	<b>getunitclassvalues</b>	function
<b>getnormalizeparvalues</b>	function	<b>getusedmarks</b>	function
<b>getnospacesmodevalues</b>	function	<b>getvsplitcontextvalues</b>	function
<b>getoutputactive</b>	function	<b>glue</b>	table
<b>getoverloadstate</b>	function	<b>glueoptioncodes</b>	data table
<b>getpacktypevalues</b>	function	<b>glyphdisccodes</b>	data table
<b>getpagecontextvalues</b>	function	<b>glyphoptioncodes</b>	data table
<b>getpagestate</b>	function	<b>groupcodes</b>	data table
<b>getpagestatevalues</b>	function	<b>hashtokens</b>	function
<b>getparagraphfillmodevalues</b>	function	<b>hccode</b>	table
<b>getparagraphoptionvalues</b>	function	<b>hmcode</b>	table
<b>getparametermodevalues</b>	function	<b>hshcatcodes</b>	number
<b>getparcontextvalues</b>	function	<b>hyphenationcodes</b>	data table
<b>getpardataspecifications</b>	function	<b>ifs</b>	data table
<b>getpardir</b>	function	<b>inimatcodes</b>	number
<b>getparmodevalues</b>	function	<b>insertcategorycodes</b>	data table
<b>getparstate</b>	function	<b>insertoptioncodes</b>	data table
<b>getparstatefields</b>	function	<b>insertsplitcodes</b>	data table
<b>getpartriggervalue</b>	function	<b>integerdef</b>	function
<b>getpenaltyoptionvalues</b>	function	<b>interactioncodes</b>	data table
<b>getpositvalue</b>	function	<b>isattribute</b>	function
<b>getprepoststatevalues</b>	function	<b>isbox</b>	function
<b>getprimitivelegacies</b>	function	<b>iscount</b>	function
<b>getprimitiveorigins</b>	function	<b>isdefined</b>	function
<b>getprotrusionboundaryvalues</b>	function	<b>isdimen</b>	function
<b>getregisterindex</b>	function	<b>isfloat</b>	function

<b>isglue</b>	function	N mathlastuserclass
<b>ismuglue</b>	function	N maxattributeregisterindex
<b>ismuskip</b>	function	N maxboxregisterindex
<b>isprintable</b>	function	N maxbytecodeindex
<b>isskip</b>	function	N maxcalculatedbadness
<b>istoks</b>	function	N maxcardinal
<b>lastnodetype</b>	function	N maxcharactercode
<b>lccode</b>	table	N maxdatavalue
<b>linebreak</b>	function	N maxdimen
<b>linebreakstatecodes</b>	data table	N maxdimenregisterindex
<b>listanchorcodes</b>	data table	N maxdimension
<b>listgeometrycodes</b>	data table	N maxdimensionregisterindex
<b>lists</b>	table	N maxendlinecharacter
<b>listsigncodes</b>	data table	N maxfloatregisterindex
<b>luacatcodes</b>	number	N maxfontadjustshrinkfactor
<b>magicconstants</b>	table	N maxfontadjuststep
S activecharacternamespace		N maxfontadjuststretchfactor
N allfitnessvalues		N maxfunctionreference
N assumedmathcontrol		N maxglueregisterindex
N awfulbad		N maxhalfvalue
N decentcriterion		N maxhalfword
N defaultcatcodetable		N maxinteger
N defaultcharactercontrol		N maxintegerregisterindex
N defaultdeadcycles		N maxintregisterindex
N defaulteqnogapstep		N maxlimitedscale
N defaultthangafter		N maxmarkindex
N defaultoutputbox		N maxmathclasscode
N defaultpredisplaygap		N maxmathfamilyindex
N defaultrule		N maxmathscalingfactor
N defaultspacefactor		N maxmathstylescale
N defaulttolerance		N maxmuglueregisterindex
N deplorable		N maxmvlindex
N ejectpenalty		N maxnewlinecharacter
N ignoredepth		N maxnofbytecodes
N infinitebad		N maxnofcatcodetables
N infinitepenalty		N maxnoffitnessvalues
N infinity		N maxnoffonts
N largewidthexcess		N maxnoflanguages
N loosecriterion		N maxnofmarks
N mathallclass		N maxnofmathfamilies
N mathbeginclass		N maxquarterword
N mathdefaultpenalty		N maxscalefactor
N mathendclass		N maxsizeofword
N mathfirstuserclass		N maxspacefactor

N maxtoksregisterindex		<b>mathscriptordercodes</b>	data table
N maxtwinlength		<b>mathscriptsmodecodes</b>	data table
N mincardinal		<b>modelevels</b>	table
N mindatavalue		N horizontal	
N mindimen		N math	
N mindimension		N unset	
N minhalfword		N vertical	
N mininfinity		<b>modes</b>	data table
N mininteger		<b>mprint</b>	function
N minmvlindex		<b>muglue</b>	table
N minnofitnessvalues		<b>muskip</b>	table
N minquarterword		<b>mvloptioncodes</b>	data table
N minscalefactor		<b>nest</b>	table
N minspacefactor		<b>nilcatcodes</b>	number
N nocatcodetable		<b>noadoptioncodes</b>	data table
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N nullflag		<b>normalizeparcodes</b>	data table
N nullfont		<b>nospacesmodecodes</b>	data table
N onebp		<b>notcatcodes</b>	number
N presetrulethickness		<b>number</b>	function
N runningrule		<b>paragraphfillmodecodes</b>	data table
N saparthigh		<b>paragraphoptioncodes</b>	data table
N sapartlow		<b>parcontextcodes</b>	data table
N sapartmiddle		<b>partriggercodes</b>	data table
N smallstretchability		<b>penaltyoptioncodes</b>	data table
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N texeqtbsize		<b>popsavelevel</b>	function
N texhashprime		<b>posit</b>	table
N texhashsize		<b>positdef</b>	function
N texmemorymode		<b>preparelinebreak</b>	function
N two		<b>primitives</b>	function
N undefinedmathparameter		<b>print</b>	function
N unity		<b>protrusionboundarycodes</b>	data table
N unusedattributevalue		<b>prtcacodes</b>	number
N unusedmathfamily		<b>pushlocal</b>	function
N unusedmathstyle		<b>pushsavelevel</b>	function
N unusedscriptvalue		<b>quitlocal</b>	function
N unusedstatevalue		<b>quittoks</b>	function
N zeroglue		<b>resetparagraph</b>	function
<b>mathchardef</b>	function	<b>rlncatcodes</b>	number
<b>mathcode</b>	table	<b>romannumeral</b>	function
<b>mathcontrolcodes</b>	data table	<b>round</b>	function
<b>mathoptioncodes</b>	data table	<b>ruleoptioncodes</b>	data table
<b>mathparametercodes</b>	data table	<b>runlocal</b>	function

<b>runstatecodes</b>	data table	<b>setmuglue</b>	function
<b>runstring</b>	function	<b>setmuskip</b>	function
<b>runtoks</b>	function	<b>setnest</b>	function
<b>saveboxresource</b>	function	<b>setoverloadstate</b>	function
<b>scale</b>	function	<b>setpardir</b>	function
<b>scantoks</b>	function	<b>setpositvalue</b>	function
<b>set</b>	function	<b>setrunstate</b>	overloaded function
<b>setamcode</b>	function	<b>setsfcode</b>	function
<b>setattribute</b>	function	<b>setskip</b>	function
<b>setbalanceshape</b>	function	<b>setspcode</b>	function
<b>setbox</b>	function	<b>settetxtdir</b>	function
<b>setboxdir</b>	function	<b>settoks</b>	function
<b>setcardinalvalue</b>	function	<b>setuccode</b>	function
<b>setcatcode</b>	function	<b>sfcode</b>	table
<b>setcccode</b>	function	<b>shapingpenaltiescodes</b>	data table
<b>setconditional</b>	function	<b>shiftparshape</b>	function
<b>setcount</b>	function	<b>shipout</b>	function
<b>setdelcode</b>	function	<b>showcontext</b>	function
<b>setdimen</b>	function	<b>skip</b>	table
<b>setdimensionvalue</b>	function	<b>snappingcodes</b>	data table
<b>setfloat</b>	function	<b>snapshotpar</b>	function
<b>setglue</b>	function	<b>sp</b>	function
<b>setglyphdata</b>	function	<b>spacefactorcodes</b>	data table
<b>setglyphscript</b>	function	<b>spaceskipcodes</b>	data table
<b>setglyphstate</b>	function	<b>specialmathclasscodes</b>	data table
<b>sethcode</b>	function	<b>specificationoptioncodes</b>	data table
<b>sethmcode</b>	function	<b>splitbox</b>	function
<b>setinputstatefile</b>	function	<b>splitcodes</b>	data table
<b>setinputstateline</b>	function	<b>sprint</b>	function
<b>setinputstatemode</b>	function	<b>stringtocodesbitmap</b>	function
<b>setinsertcontent</b>	function	<b>systemmodes</b>	data table
<b>setinsertdistance</b>	function	<b>takebox</b>	function
<b>setinsertlimit</b>	function	<b>texcatcodes</b>	number
<b>setinsertmaxplaced</b>	function	<b>textcontrolcodes</b>	data table
<b>setinsertmultiplier</b>	function	<b>toks</b>	table
<b>setintegervalue</b>	function	<b>tonumber</b>	function
<b>setinteraction</b>	function	<b>toscaled</b>	function
<b>setlcode</b>	function	<b>tpacatcodes</b>	number
<b>setlinedir</b>	function	<b>tpbcacodes</b>	number
<b>setlist</b>	function	<b>tprint</b>	function
<b>setlocalbox</b>	function	<b>trackedattribute</b>	function
<b>setmath</b>	function	<b>trackers</b>	data table
<b>setmathcode</b>	function	<b>triggerbuildpage</b>	function
<b>setmathdir</b>	function	<b>txcatcodes</b>	number

**uccode**  
**uprint**  
**useboxresource**  
**userdiscoptioncodes**

**table**  
function  
function  
data table

**userglyphoptioncodes**  
**vrbcacodes**  
**write**

data table  
number  
**function**

# texconfig (basic tex)

<b>bufferize</b>	table	<b>languagesize</b>	table
N size		N size	
N step		N step	
<b>errorlinesize</b>	table	<b>marksize</b>	table
N size		N size	
<b>expandsize</b>	table	N step	
N size		<b>nestsize</b>	table
<b>filesize</b>	table	N size	
N size		N step	
N step		<b>nodesize</b>	table
<b>firstline</b>	string	N size	
<b>fontsize</b>	table	N step	
N size		<b>parametersize</b>	table
N step		N size	
<b>formatname</b>	string	N step	
<b>functionsized</b>	number	<b>poolsize</b>	table
<b>halferrorlinesize</b>	table	N size	
N size		N step	
<b>hashsize</b>	table	<b>propertyssize</b>	number
N size		<b>savesize</b>	table
N step		N size	
<b>init</b>	overloaded function	N step	
<b>inputsize</b>	table	<b>shell_escape</b>	string
N size		<b>stringsize</b>	table
N step		N size	
<b>insertsize</b>	table	N step	
N size		<b>tokensize</b>	table
N step		N size	
<b>kpse_init</b>	boolean	N step	

## texio (basic tex)

**closeinput**           function  
**forceendoffile**      function  
**getinputindex**       function  
**getselectorvalues**   function  
**getsourcefilename**   function  
**setlogfile**           function  
**terminal**             function

**write**                 function  
**write\_nl**             function  
**writeln**             function  
**writeselector**       function  
**writeselectorlf**     function  
**writeselectornl**     function

## token (basic tex)

<b>create</b>	function	<b>getexpandable</b>	function
<b>expand</b>	function	<b>getexpansion</b>	function
<b>expand_macro</b>	function	<b>getfields</b>	function
<b>expandmacro</b>	function	<b>getflags</b>	function
<b>future_expand</b>	function	<b>getfrozen</b>	function
<b>futureexpand</b>	function	<b>getfunctionvalues</b>	function
<b>get_active</b>	function	<b>getid</b>	function
<b>get_cmdchrsc</b>	function	<b>getimmutable</b>	function
<b>get_cmdname</b>	function	<b>getindex</b>	function
<b>get_command</b>	function	<b>getinstance</b>	function
<b>get_csname</b>	function	<b>getinteger</b>	function
<b>get_cstoken</b>	function	<b>getlength</b>	function
<b>get_dimension</b>	function	<b>getmacro</b>	function
<b>get_expandable</b>	function	<b>getmeaning</b>	function
<b>get_fields</b>	function	<b>getnoaligned</b>	function
<b>get_flags</b>	function	<b>getparameters</b>	function
<b>get_frozen</b>	function	<b>getpermanent</b>	function
<b>get_id</b>	function	<b>getprimitive</b>	function
<b>get_immutable</b>	function	<b>getprimitives</b>	function
<b>get_index</b>	function	<b>getprotected</b>	function
<b>get_instance</b>	function	<b>getrange</b>	function
<b>get_integer</b>	function	<b>gettok</b>	function
<b>get_macro</b>	function	<b>gettolerant</b>	function
<b>get_meaning</b>	function	<b>gobble</b>	function
<b>get_noaligned</b>	function	<b>gobble_dimension</b>	function
<b>get_parameters</b>	function	<b>gobble_integer</b>	function
<b>get_permanent</b>	function	<b>gobbledimension</b>	function
<b>get_primitive</b>	function	<b>gobbleinteger</b>	function
<b>get_protected</b>	function	<b>grab</b>	function
<b>get_range</b>	function	<b>grabstring</b>	function
<b>get_tok</b>	function	<b>inhibit</b>	function
<b>get_tolerant</b>	function	<b>is_defined</b>	function
<b>getactive</b>	function	<b>is_next_char</b>	function
<b>getcmdchrsc</b>	function	<b>is_token</b>	function
<b>getcmdname</b>	function	<b>isactivestring</b>	function
<b>getcommand</b>	function	<b>isdefined</b>	function
<b>getcommandvalues</b>	function	<b>isnextchar</b>	function
<b>getconstant</b>	function	<b>istoken</b>	function
<b>getcsname</b>	function	<b>locatemacro</b>	function
<b>getcstoken</b>	function	<b>new</b>	function
<b>getdimension</b>	function	<b>peek_next</b>	function

<code>peek_next_char</code>	function	<code>scan_tokenlist</code>	function
<code>peek_next_expanded</code>	function	<code>scan_toks</code>	function
<code>peeknext</code>	function	<code>scan_value</code>	function
<code>peeknextchar</code>	function	<code>scan_word</code>	function
<code>peeknextexpanded</code>	function	<code>scanargument</code>	function
<code>pop_macro</code>	function	<code>scanbox</code>	function
<code>popmacro</code>	function	<code>scancardinal</code>	function
<code>push_macro</code>	function	<code>scanchar</code>	function
<code>pushmacro</code>	function	<code>scancmdchr</code>	function
<code>put_back</code>	function	<code>scancmdchrexplanded</code>	function
<code>put_next</code>	function	<code>scancode</code>	function
<code>putback</code>	function	<code>scancsname</code>	function
<code>putnext</code>	function	<code>scancstoken</code>	function
<code>save_lua</code>	function	<code>scandelimited</code>	function
<code>savelua</code>	function	<code>scandetokened</code>	function
<code>scan_argument</code>	function	<code>scandimen</code>	function
<code>scan_box</code>	function	<code>scandimenargument</code>	function
<code>scan_cardinal</code>	function	<code>scandimension</code>	function
<code>scan_char</code>	function	<code>scandimensionargument</code>	function
<code>scan_cmdchr</code>	function	<code>scanfloat</code>	function
<code>scan_cmdchr_expanded</code>	function	<code>scanglue</code>	function
<code>scan_code</code>	function	<code>scanint</code>	function
<code>scan_csname</code>	function	<code>scaninteger</code>	function
<code>scan_delimited</code>	function	<code>scanintegerargument</code>	function
<code>scan_dimen</code>	function	<code>scankey</code>	function
<code>scan_float</code>	function	<code>scankeyword</code>	function
<code>scan_glue</code>	function	<code>scankeywordcs</code>	function
<code>scan_integer</code>	function	<code>scanletters</code>	function
<code>scan_key</code>	function	<code>scanluacardinal</code>	function
<code>scan_keyword</code>	function	<code>scanluainteger</code>	function
<code>scan_keyword_cs</code>	function	<code>scanluanumber</code>	function
<code>scan_letters</code>	function	<code>scannext</code>	function
<code>scan_luacardinal</code>	function	<code>scannextchar</code>	function
<code>scan_luainteger</code>	function	<code>scannextexpanded</code>	function
<code>scan_luanumber</code>	function	<code>scanposit</code>	function
<code>scan_next</code>	function	<code>scanreal</code>	function
<code>scan_next_char</code>	function	<code>scanscale</code>	function
<code>scan_next_expanded</code>	function	<code>scanskip</code>	function
<code>scan_real</code>	function	<code>scanstring</code>	function
<code>scan_scale</code>	function	<code>scantoken</code>	function
<code>scan_skip</code>	function	<code>scantokencode</code>	function
<code>scan_string</code>	function	<code>scantokenlist</code>	function
<code>scan_token</code>	function	<code>scantokenstring</code>	function
<code>scan_token_code</code>	function	<code>scantoks</code>	function

<b>scanvalue</b>	function	<b>setmacro</b>	function
<b>scanword</b>	function	<b>setmacrofrommark</b>	function
<b>serialize</b>	function	<b>setmacrotonothing</b>	function
<b>set_dimension</b>	function	<b>skip_next</b>	function
<b>set_integer</b>	function	<b>skip_next_expanded</b>	function
<b>set_lua</b>	function	<b>skipnext</b>	function
<b>set_macro</b>	function	<b>skipnextexpanded</b>	function
<b>setdimension</b>	function	<b>type</b>	function
<b>setinteger</b>	function	<b>undefine_macro</b>	function
<b>setlua</b>	function	<b>undefinemacro</b>	function

# tokens (context)

<b>accessors</b>	table	S todimen	
F active		S toglue	
F cmd		S tonumber	
F cmdchrsc		S tostring	
F cmdname		<b>create</b>	function
F command		<b>defined</b>	function
F csname		<b>flags</b>	function
F expandable		<b>getinteger</b>	function
F frozen		<b>getters</b>	table
F index		F box	
F name		F count	
F protected		F cstoken	
F range		F dimen	
<b>astable</b>	function	F glue	
<b>bits</b>	table	F macro	
N active		F meaning	
N alignment		F skip	
N begingroup		F token	
N character		<b>gobble</b>	function
N cclose		<b>isactivestring</b>	function
N comment		<b>isdefined</b>	function
N endgroup		<b>istoken</b>	function
N endofline		<b>new</b>	function
N escape		<b>pickup</b>	function
N ignore		<b>popmacro</b>	function
N invalid		<b>presets</b>	table
N letter		<b>pushmacro</b>	function
N mathshift		<b>scanners</b>	table
N open		F argument	
N other		F argumentasis	
N parameter		F array	
N space		F boolean	
N subscript		F box	
N superscript		F bracketed	
N whitespace		F bracketedasis	
<b>cache</b>	data table	F cardinal	
<b>commands</b>	data table	F char	
<b>compile</b>	function	F cmdchr	
<b>constant</b>	function	F cmdchrexanded	
<b>converters</b>	table	F code	
S toboolean		F conditional	

F count	F tokencode	
F csname	F tokenlist	
F csnameunchecked	F tokens	
F delimited	F tokenstring	
F detokened	F toks	
F dimen	F value	
F dimension	F vbox	
F dimensionargument	F verbatim	
F float	F vtop	
F glue	F whd	
F gluespec	F word	
F gluevalues	<b>setinteger</b>	function
F hash	<b>setters</b>	table
F hbox	F box	
F integer	F char	
F integerargument	F count	
F ischar	F dimen	
F key	F glue	
F keyword	F lua	
F keywordcs	F macro	
F letters	F skip	
F list	<b>shortcuts</b>	table
F lua	N close	
F luacardinal	F inspect	
F luainteger	N open	
F luanumber	F report	
F lxmlid	F scanargument	
F next	F scanargumentasis	
F nextchar	F scanarray	
F nextexpanded	F scanboolean	
F number	F scanbox	
F optional	F scanbracketed	
F peek	F scanbracketedasis	
F peekchar	F scancardinal	
F peekexpanded	F scanclose	
F posit	F scancode	
F real	F scanconditional	
F scanclose	F scancsname	
F scanopen	F scancsnameunchecked	
F skip	F scandelimited	
F skipexpanded	F scandetokened	
F string	F scandimen	
F table	F scandimension	
F token	F scandimensionargument	

F scanfloat  
F scanglue  
F scangluespec  
F scangluevalues  
F scanhash  
F scanhbox  
F scaninteger  
F scanintegerargument  
F scankeyword  
F scankeywordcs  
F scanletters  
F scanlist  
F scanlua  
F scannumber  
F scanopen  
F scanoptional

F scanposit  
F scanstring  
F scantable  
F scantokenlist  
F scantokenstring  
F scantoks  
F scanvbox  
F scanverbatim  
F scanvtop  
F scanword  
F toboolean  
F todimen  
F tonumber  
F tostring

**values**

**data table**

## tracers (context)

**printerror** function  
**printwarning** function

**showlines** function

## trackers (context)

<b>data</b>	data table	<b>register</b>	function
<b>default</b>	function	<b>report</b>	function
<b>disable</b>	function	<b>reset</b>	function
<b>done</b>	table	<b>savehash</b>	function
<b>dumphashtofile</b>	function	<b>show</b>	function
<b>enable</b>	function	<b>value</b>	function
<b>list</b>	function	<b>values</b>	function
<b>name</b>	string		

# typesetters (context)

<b>alignments</b>	table		
F handler			F getglobal
F set			F getmethod
<b>breakpoints</b>	table		F handler
F define			F installhandler
F handler			F set
D mapping			F setcolor
F set			F tomode
F setreplacement			<b>firstlines</b>
<b>cases</b>	table		table
F handler			F handler
F register			F set
F set			<b>fontkerns</b>
<b>characteralign</b>	table		table
F handler			F handler
F resetcharacteralign			F set
F setcharacteralign			<b>injectors</b>
<b>characters</b>	table		table
F handler			F check
F replacensp			F mark
F replacenspaces			F reset
<b>checkers</b>	table		F set
F handler			F show
F reset			<b>italics</b>
F set			table
<b>cleaners</b>	table		F enablemath
F handler			F enabletext
F set			F handler
<b>compare</b>	table		<b>kerns</b>
F handler			table
F reset			D factors
F set			F handler
F setpair			F keepligature
F setup			D mapping
<b>corrections</b>	table		F set
F handler			<b>localboxes</b>
<b>digits</b>	table		table
F handler			F handler
F set			<b>manipulators</b>
<b>directions</b>	table		table
F getfences			F apply
			F applyspecification
			F splitspecification
			<b>margins</b>
			table
			F finalhandler
			F globalhandler
			F localhandler

F save		D mapping	
<b>marksuspects</b>	function	F reset	
<b>paragraphs</b>	table	F set	
F addanchortoline		F setup	
F addtoline		<b>stacking</b>	table
F calculatedelta		F getindex	
F checkline		F getselection	
F moveinline		F handler	
<b>periodkerns</b>	table	<b>swapping</b>	table
D factors		F handler	
F handler		<b>synchronize</b>	table
D mapping		F handler	
F set		<b>tighten</b>	table
<b>processors</b>	table	F handler	
F apply		<b>wrappers</b>	table
F register		<b>xtables</b>	table
F reset		F cleanup	
F split		F construct	
F startapply		F create	
F stopapply		F finish_row	
F stripped		F flush	
F toString		F initialize_construct	
<b>rubies</b>	table	F initialize_reflow_height	
F attach		F initialize_reflow_width	
F check		F next_row	
<b>showinvisibles</b>	function	F reflow_height	
<b>showsuspects</b>	function	F reflow_width	
<b>spacings</b>	table	F set_construct	
F define		F set_reflow_height	
F handler		F set_reflow_width	

## updaters (context)

**apply**     function  
**register**  function

## url (context)

**addscheme** function  
**barepath** function  
**construct** function  
**decode** function  
**encode** function  
**escape** function  
**filename** function

**hashed** function  
**hasscheme** function  
**query** function  
**split** function  
**toquery** function  
**unescape** function  
**unescapeget** function

## utf8 (basic lua)

**char**           function  
**charpattern** string  
**codepoint**     function

**codes**          function  
**len**            function  
**offset**         function

# utilities (context)

## **debugger** table

- F disable
- F enable
- F savestats
- F showstats
- F showtraceback

## **files** table

- F close
- F getposition
- F getsize
- F look
- F open
- F read2dot14
- F readbyte
- F readbytes
- F readbytetable
- F readcardinal
- F readcardinal1
- F readcardinal11e
- F readcardinal2
- F readcardinal21e
- F readcardinal3
- F readcardinal31e
- F readcardinal4
- F readcardinal41e
- F readcardinaltable
- F readchar
- F readcline
- F readcstring
- F readfixed2
- F readfixed4
- F readinteger
- F readinteger1
- F readinteger11e
- F readinteger2
- F readinteger21e
- F readinteger3
- F readinteger31e
- F readinteger4
- F readinteger41e
- F readintegertable

- F readsignedbyte
- F readstring
- F readtag
- F setposition
- F size
- F skip
- F skiplong
- F skipposition
- F skipshort
- F writebyte
- F writecardinal1
- F writecardinal11e
- F writecardinal2
- F writecardinal21e
- F writecardinal3
- F writecardinal31e
- F writecardinal4
- F writecardinal41e
- F writeinteger1
- F writeinteger11e
- F writeinteger2
- F writeinteger21e
- F writeinteger3
- F writeinteger31e
- F writeinteger4
- F writeinteger41e
- F writestring

## **formatters** table

- F formatcolumns
- F list
- F stripzeros

## **ghostscript** table

- F convert
- F statistics

## **graphicmagick** table

- F convert
- F statistics

## **graphicsmagick** table

- F convert
- F statistics

## **json** table

F load  
 F tojson  
 F tolua  
 F tostring  
**lua** table  
 B alwaysstripcode  
 F checkmemory  
 F compile  
 F loadedluacode  
 F loadstring  
 F loadstripped  
 N nofstrippedbytes  
 N nofstrippedchunks  
 F registerfinalizer  
 B stripcode  
 F strippedloadstring  
**packers** table  
 F hashed  
 F new  
 F pack  
 F simplehashed  
 F strip  
 F unpack  
 N version  
**parsers** table  
 F add\_settings\_to\_array  
 F arguments\_to\_table  
 F array\_to\_string  
 F csvsplitter  
 F getparameters  
 F groupdsplitat  
 F hash\_to\_string  
 F iterator  
 F keq\_to\_hash  
 F listitem  
 F make\_settings\_to\_hash\_pattern  
 F mergehashes  
 F options\_to\_array  
 F options\_to\_hash  
 F process\_stripped\_settings  
 F rfc4180splitter  
 F runtime  
 F settings\_to\_array  
 F settings\_to\_array\_obey\_fences

F settings\_to\_array\_with\_repeat  
 F settings\_to\_hash  
 F settings\_to\_hash\_colon\_too  
 F settings\_to\_hash\_strict  
 F settings\_to\_hash\_tolerant  
 F settings\_to\_numbers  
 F settings\_to\_set  
 F simple\_hash\_to\_string  
 F splitmethod  
 F splitthousands  
 F stepper  
 F stripped\_settings\_to\_array  
 F totime  
 F unittotex  
 F unittoxml  
**randomizer** table  
 F get  
 F getnumber  
 F getrepeatable  
 F getrepeatableseed  
 F getseed  
 F newrepeatable  
 F popseed  
 F pushseed  
 F repeatable  
 F reuseseed  
 F setseed  
 F setseedi  
**randomizers** table  
 F poisson  
**sequencers** table  
 F appendaction  
 F appendgroup  
 F compile  
 F disableaction  
 F disablegroup  
 F enableaction  
 F enablegroup  
 D functions  
 F localize  
 F new  
 F nodeprocessor  
 F prependaction  
 F prependgroup

F removeaction		F read2dot14
F replaceaction		F readbyte
F setkind		F readbytes
F toString		F readbytetable
<b>setters</b>	<b>table</b>	F readcardinal
F disable		F readcardinal1
F enable		F readcardinal1le
F initialize		F readcardinal2
F list		F readcardinal2le
F new		F readcardinal3
F register		F readcardinal3le
F report		F readcardinal4
F reset		F readcardinal4le
F show		F readcardinaltable
<b>signals</b>	<b>table</b>	F readchar
S configuration		F readcline
F initialize		F readcstring
F loadstate		F readdouble
F report		F readdoublele
F savestate		F readfixed2
F serialclose		F readfixed4
F serialfast		F readfloat
F serialopen		F readfloatle
S serialprefix		F readfloatle12
F serialsend		F readfloatle6
F serialwrite		F readinteger
N version		F readinteger1
<b>stacker</b>	<b>table</b>	F readinteger1le
F new		F readinteger2
<b>storage</b>	<b>table</b>	F readinteger2le
F allocate		F readinteger3
F checked		F readinteger3le
F mark		F readinteger4
F marked		F readinteger4le
F setinitializer		F readintegertable
F sparse		F readsignedbyte
<b>streams</b>	<b>table</b>	F readstring
F close		F setposition
F getposition		F size
F getsize		F skip
F getstring		F skipbytes
F look		F skiplong
F open		F skipshort
F openstring		F tocardinal1

F tocardinal1le		F migratetable	
F tocardinal2		F removevalue	
F tocardinal2le		F replacevalue	
F tocardinal3		<b>tar</b>	table
F tocardinal3le		F closearchive	
F tocardinal4		F openarchive	
F tocardinal4le		<b>templates</b>	table
<b>strings</b>	table	F load	
F collapse		F replace	
F collapsecrlf		F replacer	
F newcollector		F resolve	
F newrepeater		<b>zipfiles</b>	table
F striplines		F close	
F tabtospace		F found	
<b>tables</b>	table	F hash	
F accesstable		F list	
F definedtable		F open	
F definetable		F unzip	
F encapsulate		F unzipdir	
F insertaftervalue		F zipdir	
F insertbeforevalue			

# vector (extra lua)

<b>add</b>	function	F yrotation
<b>append</b>	function	F zrotation
<b>average</b>	function	<b>homogenize</b> function
<b>ceiling</b>	function	<b>identity</b> function
<b>checkoverlap</b>	function	<b>inner</b> function
<b>collectoverlap</b>	function	<b>insert</b> function
<b>concat</b>	function	<b>inverse</b> function
<b>contour</b>	table	<b>ismesh</b> function
F average		<b>ispoints</b> function
F bounds		<b>issingular</b> function
F checkoverlap		<b>isvector</b> function
F collectoverlap		<b>iszero</b> function
F getarea		<b>mesh</b> table
F getmesh		F get
F makemesh		F getdimensions
F overlapping		F gettypevalues
F show		F ismesh
F sort		F new
<b>copy</b>	function	F set
<b>crossproduct</b>	function	F tostring
<b>delete</b>	function	F totable
<b>determinant</b>	function	F type
<b>div</b>	function	<b>meshname</b> function
<b>equal</b>	function	<b>mul</b> function
<b>exchange</b>	function	<b>negate</b> function
<b>floor</b>	function	<b>new</b> function
<b>get</b>	function	<b>normalize</b> function
<b>getdimensions</b>	function	<b>onecolumn</b> function
<b>getepsilon</b>	function	<b>onerow</b> function
<b>getmemory</b>	function	<b>point</b> table
<b>getmesh</b>	function	F add
<b>getrc</b>	function	F copy
<b>getrow</b>	function	F cross
<b>getsize</b>	function	F crossproduct
<b>getstacking</b>	function	F dist
<b>gettype</b>	function	F distance
<b>helpers</b>	table	F div
F points		F dot
F transform		F dotproduct
F xrotation		F equal
F xyzscale		F get

F ispoint

F iszero

F len

F length

F mul

F neg

F negate

F new

F norm

F normalize

F perp

F perpendicular

F set

F sub

F tostring

F totable

F type

**points**                    **table**

F get

F getbounds

F getnormal

F getxyz

F ispoints

F new

F set

F setnormal

F setxyz

F tostring

F totable

F type

**product**                    **function**

**remove**                    **function**

**replace**                    **function**

**round**                      **function**

**rowechelon**                **function**

**set**                          **function**

**setepsilon**                **function**

**setnext**                    **function**

**setrc**                       **function**

**setstacking**              **function**

**slice**                      **function**

**sort**                        **function**

**sub**                         **function**

**swap**                       **function**

**tostring**                   **function**

**totable**                    **function**

**transpose**                 **function**

**triangulate**              **function**

**truncate**                  **function**

**type**                        **function**

## visualizers (context)

<b>escapepatterns</b>	data table	<b>signal</b>	string
<b>getspecification</b>	function	<b>signalpattern</b>	userdata
<b>getvisualizer</b>	function	<b>specifications</b>	data table
<b>load</b>	function	<b>visualize</b>	function
<b>makenested</b>	function	<b>visualizebuffer</b>	function
<b>makepattern</b>	function	<b>visualizefile</b>	function
<b>newgrammar</b>	function	<b>visualizestring</b>	function
<b>newhandler</b>	function	<b>write</b>	function
<b>parsedxml</b>	function	<b>writeargument</b>	function
<b>pattern</b>	function	<b>writedefault</b>	function
<b>register</b>	function	<b>writeemptyline</b>	function
<b>registerescapecommand</b>	function	<b>writenewline</b>	function
<b>registerescapepline</b>	function	<b>writespace</b>	function
<b>registerescapepattern</b>	function		

## xcomplex (extra lua)

<b>I</b>	function	<b>erf</b>	function
<b>__add</b>	function	<b>erfc</b>	function
<b>__div</b>	function	<b>erfcx</b>	function
<b>__eq</b>	function	<b>erfi</b>	function
<b>__mul</b>	function	<b>exp</b>	function
<b>__name</b>	string	<b>i</b>	function
<b>__pow</b>	function	<b>imag</b>	function
<b>__sub</b>	function	<b>log</b>	function
<b>__tostring</b>	function	<b>new</b>	function
<b>__unm</b>	function	<b>pow</b>	function
<b>abs</b>	function	<b>proj</b>	function
<b>acos</b>	function	<b>real</b>	function
<b>acosh</b>	function	<b>sin</b>	function
<b>arg</b>	function	<b>sinh</b>	function
<b>asin</b>	function	<b>sqrt</b>	function
<b>asinh</b>	function	<b>tan</b>	function
<b>atan</b>	function	<b>tanh</b>	function
<b>atanh</b>	function	<b>topair</b>	function
<b>conj</b>	function	<b>tostring</b>	function
<b>cos</b>	function	<b>totable</b>	function
<b>cosh</b>	function	<b>voigt</b>	function
<b>dawson</b>	function	<b>voigt_hwhm</b>	function

## xdecimal (extra lua)

<b>__add</b>	function	<b>bxor</b>	function
<b>__band</b>	function	<b>conj</b>	function
<b>__bor</b>	function	<b>copy</b>	function
<b>__bxor</b>	function	<b>exp</b>	function
<b>__div</b>	function	<b>getprecision</b>	function
<b>__eq</b>	function	<b>ln</b>	function
<b>__idiv</b>	function	<b>log</b>	function
<b>__le</b>	function	<b>max</b>	function
<b>__lt</b>	function	<b>min</b>	function
<b>__mod</b>	function	<b>minus</b>	function
<b>__mul</b>	function	<b>new</b>	function
<b>__name</b>	string	<b>plus</b>	function
<b>__pow</b>	function	<b>pow</b>	function
<b>__shl</b>	function	<b>rotate</b>	function
<b>__shr</b>	function	<b>setprecision</b>	function
<b>__sub</b>	function	<b>shift</b>	function
<b>__tostring</b>	function	<b>sqrt</b>	function
<b>__unm</b>	function	<b>toengstring</b>	function
<b>abs</b>	function	<b>tonumber</b>	function
<b>band</b>	function	<b>tostring</b>	function
<b>bor</b>	function	<b>trim</b>	function

## xinterval (context)

<b>__add</b>	function	<b>greater</b>	function
<b>__div</b>	function	<b>greaterequal</b>	function
<b>__eq</b>	function	<b>hull</b>	function
<b>__le</b>	function	<b>intersect</b>	function
<b>__lt</b>	function	<b>less</b>	function
<b>__mod</b>	function	<b>lessequal</b>	function
<b>__mul</b>	function	<b>log</b>	function
<b>__name</b>	string	<b>log10</b>	function
<b>__pow</b>	function	<b>log1p</b>	function
<b>__sub</b>	function	<b>log2</b>	function
<b>__tostring</b>	function	<b>mid</b>	function
<b>__unm</b>	function	<b>mod</b>	function
<b>abs</b>	function	<b>new</b>	function
<b>acos</b>	function	<b>neweps</b>	function
<b>acosh</b>	function	<b>pow</b>	function
<b>asin</b>	function	<b>seteq</b>	function
<b>asinh</b>	function	<b>setge</b>	function
<b>asstring</b>	function	<b>setgt</b>	function
<b>atan</b>	function	<b>setle</b>	function
<b>atanh</b>	function	<b>setlt</b>	function
<b>cos</b>	function	<b>sin</b>	function
<b>cosh</b>	function	<b>sinh</b>	function
<b>diameter</b>	function	<b>sqr</b>	function
<b>equal</b>	function	<b>sqrt</b>	function
<b>erf</b>	function	<b>tan</b>	function
<b>erfc</b>	function	<b>tanh</b>	function
<b>exp</b>	function	<b>topair</b>	function
<b>exp10</b>	function	<b>tostring</b>	function
<b>exp2</b>	function	<b>totable</b>	function
<b>expm1</b>	function	<b>usedendian</b>	function
<b>greater</b>	function	<b>within</b>	function

## xmath (extra lua)

<b>acos</b>	function	<b>isnormal</b>	function
<b>acosh</b>	function	<b>j0</b>	function
<b>asin</b>	function	<b>j1</b>	function
<b>asinh</b>	function	<b>jn</b>	function
<b>atan</b>	function	<b>ldexp</b>	function
<b>atan2</b>	function	<b>lgamma</b>	function
<b>atanh</b>	function	<b>log</b>	function
<b>cbrt</b>	function	<b>log10</b>	function
<b>ceil</b>	function	<b>log1p</b>	function
<b>copysign</b>	function	<b>log2</b>	function
<b>cos</b>	function	<b>logb</b>	function
<b>cosh</b>	function	<b>modf</b>	function
<b>crossproduct</b>	function	<b>nan</b>	number
<b>deg</b>	function	<b>nearbyint</b>	function
<b>dotproduct</b>	function	<b>nextafter</b>	function
<b>erf</b>	function	<b>normalize</b>	function
<b>erfc</b>	function	<b>pi</b>	number
<b>exp</b>	function	<b>pow</b>	function
<b>exp2</b>	function	<b>rad</b>	function
<b>expm1</b>	function	<b>remainder</b>	function
<b>fabs</b>	function	<b>remquo</b>	function
<b>fdim</b>	function	<b>round</b>	function
<b>floor</b>	function	<b>scalbn</b>	function
<b>fma</b>	function	<b>sin</b>	function
<b>fmax</b>	function	<b>sinh</b>	function
<b>fmin</b>	function	<b>sqrt</b>	function
<b>fmod</b>	function	<b>tan</b>	function
<b>frexp</b>	function	<b>tanh</b>	function
<b>gamma</b>	function	<b>tgamma</b>	function
<b>hypot</b>	function	<b>trunc</b>	function
<b>inf</b>	number	<b>y0</b>	function
<b>isfinite</b>	function	<b>y1</b>	function
<b>isinf</b>	function	<b>yn</b>	function
<b>isnan</b>	function		

# xml (context)

<b>addentitiesdoctype</b>	function	F family	
<b>addspecialcode</b>	function	F fontspecification	
<b>after</b>	function	F mappedstylevalue	
<b>all</b>	function	F padding	
<b>applylpath</b>	function	F size	
<b>applyselector</b>	function	F style	
<b>assign</b>	function	F stylevalue	
<b>attribute</b>	function	F todimension	
<b>badinclusions</b>	function	F variant	
<b>before</b>	function	F weight	
<b>body</b>	function	<b>defaulthandlers</b>	table
<b>builtinentities</b>	table	D file	
B amp		D parsedxml	
B apos		D string	
B gt		D tex	
B lt		D texline	
B quot		D texspace	
D verbose			
<b>CDATA</b>	function	<b>defaultprotocol</b>	string
<b>CDATATOTEXT</b>	function	<b>delete</b>	function
<b>checkbom</b>	function	<b>delete_element</b>	function
<b>checkedempty</b>	function	<b>despecialized</b>	function
<b>checkerror</b>	function	<b>each</b>	function
<b>checknamespace</b>	function	<b>each_element</b>	function
<b>checkns</b>	function	<b>elements</b>	function
<b>cleansed</b>	function	<b>elementtocdata</b>	function
<b>collect</b>	function	<b>empty</b>	function
<b>collect_elements</b>	function	<b>entities</b>	data table
<b>collect_tags</b>	function	<b>erase</b>	function
<b>collect_texts</b>	function	<b>errorhandler</b>	function
<b>collected</b>	function	<b>escaped</b>	function
<b>collecttexts</b>	function	<b>expand</b>	function
<b>compactelement</b>	function	<b>expressions</b>	table
<b>content</b>	function	F attribute	
<b>convert</b>	function	F boolean	
<b>copy</b>	function	F child	
<b>count</b>	function	F contains	
<b>cprint</b>	function	F count	
<b>css</b>	table	F error	
F applyselector		F find	
F colorspecification		F hasclass	
F dimension			

F idstring		<b>insertcomment</b>	function
F lower		<b>inspect</b>	function
F name		<b>is_valid</b>	function
F number		<b>kind</b>	function
F oneof		<b>last</b>	function
F print		<b>lastmatch</b>	function
F quit		<b>load</b>	function
F tag		<b>lpath</b>	function
F text		<b>lpathcached</b>	function
F undefined		<b>lpathcalls</b>	function
F upper		<b>lshow</b>	function
<b>fillin</b>	function	<b>makestandalone</b>	function
<b>filter</b>	function	<b>match</b>	function
<b>finalizers</b>	table	<b>mml</b>	table
F paragraphs		F stripped	
<b>first</b>	function	F verbose	
<b>found</b>	function	<b>name</b>	function
<b>functions</b>	table	<b>newhandlers</b>	function
F classes		<b>nodesettostring</b>	function
F hasclass		<b>originalload</b>	function
<b>getbuffer</b>	function	<b>package</b>	function
<b>gethandlers</b>	function	<b>parent</b>	function
<b>gethandlersfunction</b>	function	<b>parsedentitylpeg</b>	userdata
<b>helpers</b>	table	<b>pihandlers</b>	table
F recursetext		F injector	
<b>include</b>	function	F tex	
<b>inclusion</b>	function	<b>placeholders</b>	table
<b>inclusions</b>	function	F unknown_any_entity	
<b>index</b>	function	F unknown_dec_entity	
<b>inheritattributes</b>	function	F unknown_hex_entity	
<b>inheritedconvert</b>	function	<b>popmatch</b>	function
<b>inject</b>	function	<b>position</b>	function
<b>inject_element</b>	function	<b>privatecodes</b>	data table
<b>inject_element_after</b>	function	<b>privatetoken</b>	function
<b>inject_element_before</b>	function	<b>process</b>	function
<b>injectafter</b>	function	<b>process_attributes</b>	function
<b>injectbefore</b>	function	<b>process_elements</b>	function
<b>insert</b>	function	<b>processattributes</b>	function
<b>insert_element</b>	function	<b>profiled</b>	table
<b>insert_element_after</b>	function	<b>pure</b>	function
<b>insert_element_before</b>	function	<b>pushmatch</b>	function
<b>insertafter</b>	function	<b>raw</b>	function
<b>insertbefore</b>	function	<b>registerentity</b>	function
<b>insertcdata</b>	function	<b>registerns</b>	function

<b>reindex</b>	function	<b>specialhandler</b>	table
<b>remap_name</b>	function	<b>sprint</b>	function
<b>remap_namespace</b>	function	<b>string</b>	function
<b>remap_tag</b>	function	<b>strip</b>	function
<b>remapname</b>	function	<b>strip_whitespace</b>	function
<b>remapnamespace</b>	function	<b>stripelement</b>	function
<b>remaptag</b>	function	<b>stripleadingspaces</b>	function
<b>rename</b>	function	<b>table</b>	function
<b>renamespace</b>	function	<b>text</b>	function
<b>reparsedentitylpeg</b>	userdata	<b>textonly</b>	function
<b>replace</b>	function	<b>texttocdata</b>	function
<b>replace_element</b>	function	<b>tocdata</b>	function
<b>resetinjectors</b>	function	<b>toelement</b>	function
<b>resolvens</b>	function	<b>tostring</b>	function
<b>root</b>	function	<b>totable</b>	function
<b>save</b>	function	<b>toxml</b>	function
<b>selection</b>	function	<b>tprint</b>	function
<b>separate</b>	function	<b>traverse</b>	function
<b>serialize</b>	function	<b>unescaped</b>	function
<b>serializetotext</b>	function	<b>unescapedentitylpeg</b>	userdata
<b>setcdata</b>	function	<b>unprivatized</b>	function
<b>setcomment</b>	function	<b>unspecialized</b>	function
<b>sethandlersfunction</b>	function	<b>wipe</b>	function
<b>setinjectors</b>	function	<b>withelement</b>	function
<b>setproperty</b>	function	<b>withelements</b>	function
<b>settings</b>	function	<b>wrap</b>	function
<b>specialcodes</b>	data table	<b>xmlns</b>	table

## xzip (extra lua)

**adler32**           function  
**compress**        function  
**compresssize**   function

**crc32**            function  
**decompress**      function  
**decompresssize** function

## zbuffer (context)

<b>bounds</b>	function	<b>setcolor</b>	function
<b>composite</b>	function	<b>setdepth</b>	function
<b>crop</b>	function	<b>setnormal</b>	function
<b>edgepoint</b>	function	<b>setopacity</b>	function
<b>flatten</b>	function	<b>setup</b>	function
<b>get</b>	function	<b>smoothen</b>	function
<b>getcolor</b>	function	<b>stipple_0</b>	function
<b>getdepth</b>	function	<b>stipple_1</b>	function
<b>getnormal</b>	function	<b>stipple_2</b>	function
<b>getopacity</b>	function	<b>stipple_3</b>	function
<b>getsize</b>	function	<b>stipple_4</b>	function
<b>implicit</b>	function	<b>stipple_setup</b>	function
<b>iszbuffer</b>	function	<b>tobytes</b>	function
<b>meshmesh</b>	function	<b>tostring</b>	function
<b>new</b>	function	<b>totable</b>	function
<b>points</b>	function	<b>transform</b>	function
<b>process</b>	function	<b>trianglebounds</b>	function
<b>project</b>	function	<b>triangles</b>	function
<b>resolve</b>	function	<b>type</b>	function
<b>set</b>	function		

## zip (context)

**archives** table  
**closearchive** function

**openarchive** function  
**registeredfiles** table

## zlib (context)

**adler32**           function  
**compress**         function  
**compresssize**    function

**crc32**            function  
**decompress**       function  
**decompresssize** function