

MP aes attributes backends basexx bit32 blobs
boolean buffers builders caches callback
callbacks catcodes characters chemistry
commands containers context converters
coroutine ctxrunner debug dir directives
document documentdata drivers environment
experiments figures file fio floats font fonts
functions global graphics gzip 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 noads node nodes number
objects optional os package pagebuilders
parametersets pdf pdfdecode pdfengine physics
pngdecode posit potrace publications regimes
resolvers sandbox scripts set sha2 sio socket
sorters sparse statistics status storage
streams string structures table tex
texconditionals texconfig texconstants texifs
texio texpisdefined texmodes texsystemmodes
thirddata token tokens tracers trackers
typesetters updaters url userdata utf8
utilities visualizers xcomplex xdecimal xmath
xml xzip zip zlib

ConTEXT LMTX

global (alias: `_G`)

| | | | |
|----------------------------------|----------|------------------------------------|----------|
| <code>CONTEXTLMTXMODE</code> | number | <code>debug</code> | table |
| <code>LUAMAJORVERSION</code> | number | <code>dimen</code> | function |
| <code>LUAMINORVERSION</code> | number | <code>dir</code> | table |
| <code>LUATEXENGINE</code> | string | <code>directives</code> | table |
| <code>LUATEXFORMATID</code> | number | <code>document</code> | table |
| <code>LUATEXFUNCTIONALITY</code> | number | <code>documentdata</code> | table |
| <code>LUATEXVERBOSE</code> | string | <code>dofile</code> | function |
| <code>LUATEXVERSION</code> | number | <code>drivers</code> | table |
| <code>LUAVERSION</code> | number | <code>environment</code> | table |
| <code>MP</code> | function | <code>error</code> | function |
| <code>aes</code> | table | <code>experiments</code> | table |
| <code>arg</code> | table | <code>figures</code> | table |
| <code>asnumber_p</code> | function | <code>file</code> | table |
| <code>assert</code> | function | <code>fio</code> | table |
| <code>attributes</code> | table | <code>floats</code> | table |
| <code>backends</code> | table | <code>flushsimplerule</code> | function |
| <code>basexx</code> | table | <code>flushspecialrule</code> | function |
| <code>bit32</code> | table | <code>font</code> | table |
| <code>blobs</code> | table | <code>fonts</code> | table |
| <code>blockrequire</code> | function | <code>functions</code> | table |
| <code>boolean</code> | table | <code>getmetatable</code> | function |
| <code>buffers</code> | table | <code>getscriptstatus</code> | function |
| <code>builders</code> | table | <code>global</code> | table |
| <code>caches</code> | table | <code>graphics</code> | table |
| <code>callback</code> | table | <code>gzip</code> | table |
| <code>callbacks</code> | table | <code>handledefinitions</code> | function |
| <code>catcodes</code> | table | <code>handletransformstring</code> | function |
| <code>characters</code> | table | <code>images</code> | table |
| <code>checkimage</code> | function | <code>inspect</code> | function |
| <code>chemistry</code> | table | <code>interactions</code> | table |
| <code>collectgarbage</code> | function | <code>interfaces</code> | table |
| <code>collectstructure</code> | function | <code>io</code> | table |
| <code>combine</code> | function | <code>ipairs</code> | function |
| <code>commands</code> | table | <code>job</code> | table |
| <code>containers</code> | table | <code>kpse</code> | table |
| <code>context</code> | function | <code>language</code> | table |
| <code>converters</code> | table | <code>languages</code> | table |
| <code>coroutine</code> | table | <code>last_pdf</code> | number |
| <code>count</code> | number | <code>layouts</code> | table |
| <code>createmask</code> | function | <code>lfs</code> | table |
| <code>ctxrunner</code> | table | <code>libraries</code> | table |

| | | | |
|------------------------------|------------|--------------------------------|------------|
| l <code>mx</code> | table | <code>posit</code> | table |
| <code>load</code> | function | <code>potrace</code> | table |
| <code>loaders</code> | data table | <code>potracefrompng</code> | function |
| <code>loadfile</code> | function | <code>print</code> | function |
| <code>loadstring</code> | function | <code>profilelines</code> | function |
| <code>logs</code> | table | <code>publications</code> | table |
| <code>lpdf</code> | table | <code>pushleaderlevel</code> | function |
| <code>lpeg</code> | table | <code>rawequal</code> | function |
| <code>lua</code> | table | <code>rawget</code> | function |
| <code>luac</code> | table | <code>rawlen</code> | function |
| <code>luatex</code> | table | <code>rawset</code> | function |
| <code>lxml</code> | table | <code>recolor</code> | function |
| <code>math</code> | table | <code>regimes</code> | table |
| <code>mathematics</code> | table | <code>require</code> | function |
| <code>mathshapekern</code> | function | <code>resolvers</code> | table |
| <code>md5</code> | table | <code>ruledspace</code> | function |
| <code>metapost</code> | table | <code>sandbox</code> | table |
| <code>mime</code> | table | <code>scripts</code> | table |
| <code>moduledata</code> | table | <code>select</code> | function |
| <code>modules</code> | table | <code>set</code> | table |
| <code>mp</code> | function | <code>setinspector</code> | function |
| <code>mplib</code> | table | <code>setmathparameters</code> | function |
| <code>next</code> | function | <code>setmetatable</code> | function |
| <code>noads</code> | table | <code>sha2</code> | table |
| <code>node</code> | table | <code>shipbox_ref_h</code> | number |
| <code>nodes</code> | table | <code>shipbox_ref_v</code> | number |
| <code>number</code> | table | <code>sio</code> | table |
| <code>objects</code> | table | <code>socket</code> | table |
| <code>optional</code> | table | <code>sorters</code> | table |
| <code>optionalrequire</code> | function | <code>sparse</code> | table |
| <code>os</code> | table | <code>statistics</code> | table |
| <code>p_number_p</code> | userdata | <code>status</code> | table |
| <code>p_number_u</code> | userdata | <code>storage</code> | table |
| <code>package</code> | table | <code>streams</code> | table |
| <code>pagebuilders</code> | table | <code>string</code> | table |
| <code>pairs</code> | function | <code>structures</code> | table |
| <code>parametersets</code> | table | <code>table</code> | table |
| <code>pcall</code> | function | <code>tex</code> | table |
| <code>pdf</code> | table | <code>texconditionals</code> | data table |
| <code>pdfdecode</code> | table | <code>texconfig</code> | table |
| <code>pdfe</code> | table | <code>texconstants</code> | data table |
| <code>physics</code> | table | <code>texifs</code> | data table |
| <code>pngdecode</code> | table | <code>texio</code> | table |
| <code>poplevellevel</code> | function | <code>texisdefined</code> | data table |

| | | | |
|-----------------------|------------|--------------------|----------|
| texmodes | data table | userdata | table |
| texsystemmodes | data table | utf | table |
| thirddata | table | utf8 | table |
| toboolean | function | utilities | table |
| todecimal | function | visualizers | table |
| token | table | warn | function |
| tokens | table | width | number |
| tonumber | function | xcomplex | table |
| tostring | function | xdecimal | table |
| tracers | table | xmath | table |
| trackers | table | xml | table |
| type | function | xpcall | function |
| typesetters | table | xshift | number |
| unpack | function | xzip | table |
| updaters | table | zip | table |
| url | table | zlib | table |

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 namedcolorattributes
N none
F popset
F processcolorcomponents
F pushset
F register
D registered
F registerspotcolor
F rgb
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 | |
| N overlay | |

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

backends (context)

| | | |
|-------------------------|----------|-------------------------------|
| closeout | function | F analyze normalsymbol |
| codeinjections | table | F analyzesymbol |
| F registerboxresource | | F attachmentid |
| F registerfont | | F bitmap |
| F restoreboxresource | | F clonefield |
| current | string | F copyimage |
| defaults | 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 |
| getcallbackstate | function | F getpreviewfigure |
| included | table | F getreferencestructureobject |
| B context | | F getrefobj |
| B date | | F insertrenderingwindow |
| B id | | F jp2 |
| B metadata | | F jpg |
| B pdf | | F maptag |
| initialize | function | F mergebookmarks |
| latelua | function | F mergecomments |
| nodeinjections | table | F mergefields |
| nothing | function | F mergereferences |
| openout | function | F mergerenditions |
| registered | table | F mergeviewerlayers |
| T pdf | | F newimage |
| T codeinjections | | F png |
| F addbookmarks | | F prerollreference |

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

T tables

registrations

setencryption

table

function

tables

writeout

table

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

blobs (context)

| | |
|-------------------|----------|
| append | function |
| dimensions | function |
| dispose | function |
| new | function |
| pack | function |
| strdp | function |
| strhd | function |

| | |
|----------------|----------|
| strht | function |
| strwd | function |
| tohpack | function |
| tonodes | function |
| tovpack | function |
| write | function |

boolean (context)

tocontext function

tonumber function

buffers (context)

| | |
|-----------------------|----------|
| append | function |
| assign | function |
| collectcontent | function |
| empty | function |
| erase | function |
| exists | function |
| get | function |
| getcontent | function |
| getctxlua | function |
| getlines | function |
| getmkvi | function |
| gettex | function |
| loadcontent | function |

| | |
|------------------------|----------|
| parallel | table |
| F define | |
| F hassomecontent | |
| F next | |
| F place | |
| F reset | |
| F save | |
| prepend | function |
| raw | function |
| run | function |
| samplefile | function |
| splitsamplefile | function |
| undent | function |

builders (context)

| | | | |
|-------------------------|----------|--------------------------------|------------|
| checkparcontext | function | F split | |
| checksidefloat | function | F start | |
| hpack | table | F stop | |
| F qualityactions | | F tag | |
| F report | | parpassidentifier | function |
| F show | | passnames | data table |
| kernel | table | profiling | table |
| F collapsing | | F add | |
| F hyphenating | | F addrivers | |
| F kerning | | F boxlinehandler | |
| F ligaturing | | F distance | |
| F mlisttohtml | | F fixedprofile | |
| local_box_filter | function | F get | |
| paragraphs | 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 | | registerpaspasscallback | function |
| F default | | vpack | table |
| F hpack | | F qualityactions | |
| F oneline | | F report | |
| D names | | vspacing | 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 keptogether | | 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 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

cache (context)

| | | | |
|-----------------------------|----------|-----------------------------|----------|
| base | string | loadcontent | function |
| collapsecontent | function | loaddata | function |
| configfiles | function | more | string |
| contentstate | function | savecontent | function |
| defaults | table | savedata | function |
| getfirstreadablefile | function | setfirstwritablefile | function |
| getreadablepaths | function | setluanames | function |
| getwritablepath | function | treehash | function |
| hashed | function | usedpaths | function |
| is_writable | function | | |

callback (basic tex)

find function

known function

list function

register overloaded function

usage function

callbacks (context)

freeze function

functions table

F start_page_number

F stop_page_number

known function

list data table

pop function

push function

register function

report function

supported table

B alignment_filter

B append_line_filter

B append_to_vlist_filter

B begin_paragraph

B buildpage_filter

B define_font

B find_format_file

B find_log_file

B get_attribute

B get_math_dictionary

B get_noad_class

B glyph_run

B handle_overload

B handle_uleader

B hpack_filter

B hpack_quality

B hyphenate

B insert_distance

B insert_par

B intercept_lua_error

B intercept_tex_error

B italic_correction

B kerning

B ligaturing

B line_break

B linebreak_filter

B linebreak_quality

B local_box_filter

B make_extensible

B math_rule

B missing_character

B mlist_to_hlist

B open_data_file

B packed_vbox_filter

B paragraph_context

B paragraph_pass

B post_linebreak_filter

B pre_dump

B pre_linebreak_filter

B pre_output_filter

B process_character

B process_jobname

B quality_font

B register_extensible

B show_build

B show_error_message

B show_loners

B show_lua_call

B show_warning_message

B show_whatsit

B start_file

B start_run

B stop_file

B stop_run

B tail_append

B trace_memory

B vpack_filter

B vpack_quality

B wrapup_run

catcodes (context)

names data table
numbers data table

register function

characters (context)

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

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

chemistry (context)

| | | | |
|-----------------------|------------|-----------------------|----------|
| component | function | method | string |
| define | function | molecule | function |
| definitions | data table | moleculeparser | userdata |
| format | string | start | function |
| inlinechemical | function | stop | function |
| instance | string | undefine | function |

containers (context)

cleanname function
content function
define function
is_usable function

is_valid function
read function
usecache boolean
write function

converters (context)

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

prefiles data table
resolve function

debug (basic lua)

getinfo function
sethook function

traceback function

dir (context)

| | |
|-----------------------|----------|
| collectpattern | function |
| current | function |
| expandlink | function |
| expandname | function |
| found | function |
| glob | function |
| globdirs | function |

| | |
|--------------------|----------|
| globfiles | function |
| globpattern | function |
| ls | function |
| makedirs | function |
| mkdirs | function |
| pop | function |
| push | function |

directives (context)

| | |
|----------------|------------|
| data | data table |
| default | function |
| disable | function |
| done | table |
| enable | function |
| list | function |
| name | string |

| | |
|-----------------|----------|
| register | function |
| report | function |
| reset | function |
| show | function |
| value | function |
| values | function |

document (context)

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

documentdata (context)

variable function

drivers (context)

| | | |
|-------------------------|----------|-------------------|
| applyanchor | function | F updatefontstate |
| applyorientation | function | T whatsit |
| convert | function | S name |
| converters | table | T json |
| F analyze | | T actions |
| F engine | | F cleanup |
| F lmtx | | F convert |
| F resyncbox | | F finalize |
| enable | function | F initialize |
| gethpos | function | F outputfilename |
| getpos | function | F prepare |
| getrpos | function | F wrapup |
| getvpos | function | T flushers |
| helpers | table | F character |
| install | function | F popleaderlevel |
| instances | 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 rule | | F specialrule |
| F simplerule | | F updatefontstate |
| F specialrule | | T whatsit |

| | | |
|-------------------|-----------------------|----------|
| S name | F cleanup | |
| T mpo | F convert | |
| T actions | F finalize | |
| F finalize | F initialize | |
| F initialize | F outputfilename | |
| T flushers | F prepare | |
| F character | F wrapup | |
| F popleaderlevel | T flushers | |
| F pushleaderlevel | F character | |
| F rule | F flushimage | |
| F simplerule | F fontchar | |
| F specialrule | F group | |
| T whatsit | F literal | |
| S name | F popleaderlevel | |
| T mps | F poporientation | |
| 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 | lmtxversion | number |
| S name | outputfilename | function |
| T pdf | report | function |
| T actions | | |

environment (context)

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

experiments (context)

| | |
|----------------|------------|
| data | data table |
| default | function |
| disable | function |
| enable | function |
| list | function |
| name | string |

| | |
|-----------------|----------|
| register | function |
| report | function |
| reset | function |
| show | function |
| value | function |
| values | function |

figures (context)

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

| | |
|----------------------|------------|
| resources | data table |
| scale | function |
| set | function |
| setconversion | function |
| setlookups | function |

| | |
|-----------------|------------|
| setorder | function |
| setpaths | function |
| suffixes | data table |
| used | data table |

file (basic lua)

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

fio (extra lua)

| | | | |
|--------------------------|----------|-------------------------|----------|
| getposition | function | readinteger1le | function |
| read2dot14 | function | readinteger2 | function |
| readbytes | function | readinteger2le | function |
| readbytetable | function | readinteger3 | function |
| readcardinal1 | function | readinteger3le | function |
| readcardinal1le | function | readinteger4 | function |
| readcardinal2 | function | readinteger4le | function |
| readcardinal2le | function | readintegertable | function |
| readcardinal3 | function | setposition | function |
| readcardinal3le | function | skipposition | function |
| readcardinal4 | function | writecardinal1 | function |
| readcardinal4le | function | writecardinal1le | function |
| readcardinaltable | function | writecardinal2 | function |
| readcline | function | writecardinal2le | function |
| readcstring | function | writecardinal3 | function |
| readfixed2 | function | writecardinal3le | function |
| readfixed4 | function | writecardinal4 | function |
| readinteger1 | function | writecardinal4le | function |

floats (context)

| | |
|-------------------------|----------|
| analysemethod | function |
| checkedpagefloat | function |
| collect | function |
| consult | function |
| flush | function |
| getvariable | function |
| hasstacked | function |

| | |
|-------------------|----------|
| nofstacked | function |
| pop | function |
| push | function |
| resave | function |
| save | function |
| stacked | function |

font (basic tex)

addcharacters function
addquality function
current function
define function
getfont function
getfontdimen function
getfontspec function
getmathindex function

getmathspec function
id function
max function
nextid function
setfont function
setfontdimen function
xscaled function
yscaled function

fonts (context)

analyzers table

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

callbacks table

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

definetypescape 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 | D filenames | |
| S name | F getcompositions | |
| S version | T list | |
| T dejavu-math | F load | |
| S author | F prepare_features | |
| S comment | F register | |
| S copyright | F registerpostprocessor | |
| B initialized | F report | |
| T mathematics | T suffixes | |
| T alternates | handlers | table |
| T dotless | hashes | table |
| S comment | D characters | |
| S feature | D classes | |
| N value | D csnames | |
| T bigslots | D descriptions | |
| T parameters | D dynamics | |
| N AccentBaseDepth | D emwidths | |
| N AccentTopShiftUp | D exheights | |
| N DelimiterDisplayPercent | D features | |
| N DelimiterDisplayShortfall | D identifiers | |
| N DelimiterPercent | D italics | |
| N DelimiterShortfall | D lastmathids | |
| N DisplayOperatorMinHeight | D marks | |
| N FlattenedAccentTopShiftUp | D mathparameters | |
| N FractionRuleThickness | D modes | |
| S PrimeBaselineDropMax | D originals | |
| S PrimeShiftUp | D parameters | |
| S PrimeShiftUpCramped | T processes | |
| N SubscriptShiftDown | D properties | |
| S SubscriptShiftDownWithSuperscript | D quads | |
| N SuperscriptShiftUp | D resources | |
| T tweaks | T setdynamics | |
| T aftercopying | T shapes | |
| S name | D spaces | |
| S version | D spacings | |
| T dejavu-text | T streams | |
| S author | D unicodes | |
| S comment | D unislots | |
| S copyright | D variants | |
| T extensions | D xheights | |
| B initialized | helpers | table |
| S name | F addextraprivate | |
| S version | F addprivate | |
| D designsizes | F appendcommands | |

F appendcommandtable
 F checkflags
 F checkmerge
 F checksteps
 F collectanchors
 F combineglyphs
 D commands
 F composecharacters
 F descriptiontoslot
 F dimenfactor
 F expandglyph
 D extraprivates
 F fontpatternhassize
 F getcoloredglyphs
 F getdigitwidth
 F getinstancespec
 F getparameters
 F getprivatecharornode
 F getprivatenode
 F getprivates
 F getprivateslot
 F hasprivate
 F indextoslot
 F isprivate
 F mathscriptslots
 F name
 F nametoslot
 F newprivateslot
 F prependcommands
 F prependcommandtable
 F privateslot
 F registerglyphbox
 F scalecommands
 F setboxdirectly
 F setboxglyph
 F setboxglyphs
 F setdigitwidth
 F setmetaglyph
 F setmetaglyphs
 D sharedprivates
 F splitfontpattern
 F tochar
 T vfinjectors
 F startcolor

F stopcolor
 T vfspecials
 T backgrounds
 T outlines
infofont function
iterators table
 F characters
 F descriptions
 F glyphs
loggers table
 F format
 F onetimemessage
 F register
 F reportdefinedfonts
 F reportusedfeatures
mappings table
 F addtounicode
 F fromunicode16
 F getentry
 F loadfile
 F loadline
 F makenameparser
 D overloads
 F reset
 F tounicode
 F tounicode16
 F tounicode16sequence
metapost table
 F baseline
 F boundingbox
 F boxtomp
 F draw
 F fill
 F glyph
 F maxbounds
 F paths
 F widthline
 F zeroline
mode function
names data table
nulldata data table
privateoffsets table
 B keepnames
 N mathbase

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

| | |
|-----------------|---------------|
| 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 nuk |
| 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 nuk | S effect |
| N number | N number |
| B pres | T boldened-25 |
| B pstf | S effect |
| B psts | N number |
| B rphf | T boldened-30 |
| S script | S effect |

| | |
|-----------------|------------------|
| N number | S script |
| T ca | S textcontrol |
| S language | B wipemath |
| N number | T cy |
| S script | S language |
| T camelcasing | N number |
| B camelcasing | S script |
| N number | T cz |
| T cn | S language |
| S language | N number |
| N number | S script |
| S script | T de |
| T color | S language |
| B ccmp | N number |
| S color | S script |
| B dist | T default |
| N number | S autolanguage |
| T color:bitmap | S autoscript |
| B ccmp | B checkmissing |
| B dist | B curs |
| N number | B itlc |
| B sbix | B kern |
| T color:overlay | B liga |
| B ccmp | B mark |
| B colr | B mkmk |
| B dist | S mode |
| N number | N number |
| T color:svg | S script |
| B ccmp | S textcontrol |
| B dist | B wipemath |
| N number | T deo |
| B svg | S language |
| T complete | N number |
| S autolanguage | S script |
| S autoscript | T devanagari-one |
| B checkmissing | B abvm |
| B compose | B abvs |
| B curs | B akhn |
| B kern | B blwf |
| B liga | B blwm |
| B mark | B blws |
| B mkmk | B calt |
| S mode | B cjct |
| N number | B dist |

| | |
|------------------|---------------|
| 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 |
| B rphf | T followtext |
| S script | B liga |
| B vatu | N number |
| T dingbats | T fr |
| S goodies | S language |
| S mode | N number |
| N number | S script |

| | |
|------------------|----------------|
| 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 abvs | B psts |
| B akhn | B rphf |
| B blwf | S script |
| B blwm | B vatu |
| B blws | T gurmukhi-two |
| B calt | B abvm |
| B cjct | B abvs |

| | |
|--------------------|-----------------|
| 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 |
| B mark | S language |
| B medi | N number |
| B mkmk | S script |
| S mode | T ja |
| N number | S language |
| B reordercombining | N number |
| B rlig | S script |

| | |
|---------------|-----------------|
| 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 curs |
| B abvm | B kern |
| B abvs | B liga |
| B akhn | B mark |
| B blwf | B mkmk |
| B blwm | S mode |
| B blws | N number |
| B calt | S script |
| B cjct | S textcontrol |
| B dist | B wipemath |

| | |
|-----------------|---------------------|
| 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 |
| B blwm | T math-scriptscript |
| B blws | B compactmath |
| B calt | B flattenaccents |
| B cjct | B kern |
| B dist | S language |
| B half | B mathalternates |
| B haln | S mathexpansion |
| S indic | S mode |

| | |
|------------------|-------------------|
| N number | S mset |
| S script | N number |
| N ssty | B rclt |
| B wipemath | B rlig |
| T math-text | S script |
| B compactmath | S textcontrol |
| B flattenaccents | B wipemath |
| B kern | T nl |
| S language | S language |
| B mathalternates | N number |
| S mathexpansion | S script |
| S mode | T none |
| N number | B features |
| S script | S mode |
| B ssty | N number |
| B wipemath | T oldstyle |
| T mathematics | S autolanguage |
| B compactmath | S autoscript |
| B flattenaccents | B checkmissing |
| B kern | B curs |
| S language | B kern |
| B mathalternates | B liga |
| S mathexpansion | B mark |
| S mode | B mkmk |
| N number | S mode |
| S script | N number |
| B wipemath | B onum |
| T mixed | S script |
| T mongolian | S textcontrol |
| S autolanguage | B wipemath |
| S autoscript | T oldstylenumbers |
| B calt | N number |
| B checkmissing | B onum |
| B curs | T original |
| B fina | S autolanguage |
| B init | S autoscript |
| B isol | B checkmissing |
| B itlc | B curs |
| B kern | B itlc |
| B liga | B kern |
| B mark | B liga |
| B medi | B mark |
| B mkmk | B mkmk |
| S mode | S mode |

N number
S script
S textcontrol
B wipemath
T oriya-one
B abvm
B abvs
B akhn
B blwf
B blwm
B blws
B calt
B cjct
B dist
B haln
S indic
B kern
S language
B locl
S mode
B nukt
N number
B pres
B pstf
B psts
B rphf
S script
T oriya-two
B abvm
B abvs
B akhn
B blwf
B blwm
B blws
B calt
B cjct
B dist
B haln
S indic
B kern
S language
B locl
S mode
B nukt

N number
B pres
B pstf
B psts
B rphf
S script
T pl
S language
N number
S script
T primes
N number
B primes
T pt
S language
N number
S script
T quality
S expansion
N number
S protrusion
T reordercombining
N number
B reordercombining
T ro
S language
N number
S script
T ru
S language
N number
S script
T semitic-complete
B analyze
S autolanguage
S autoscript
B calt
B ccmp
B clig
B curs
B dlig
B fina
B init
B isol

| | |
|------------------|----------------|
| 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 ccmp | B mark |
| B curs | B medi |
| B fina | B mkmk |
| B init | S mode |
| B isol | N number |
| B kern | B rlig |
| S language | S script |
| B mark | T sk |
| B medi | S language |
| B mkmk | N number |
| S mode | S script |
| N number | T sl |
| B rlig | S language |
| T simplearabic | N number |
| B analyze | S script |
| S autolanguage | T slanted |
| S autoscript | N number |
| B calt | N slant |
| B ccmp | T smallcaps |
| B curs | S autolanguage |
| B fina | S autoscript |
| B init | B checkmissing |
| B isol | B curs |
| B kern | B kern |
| S language | B mark |
| B mark | B mkmk |
| B medi | S mode |
| B mkmk | N number |
| S mode | S script |
| N number | B smcp |

| | |
|------------------|--------------|
| 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 |
| B curs | S mode |
| B dlig | B nukt |
| B fin2 | N number |
| B fin3 | B pref |
| B fina | B pres |
| B init | B psts |
| B isol | B rphf |
| B kern | S script |
| S language | T tamil-two |
| B liga | B abvm |
| B mark | B abvs |
| B med2 | B akhn |
| B medi | B blwm |
| B mkmk | B blws |
| S mode | B calt |
| N number | B dist |
| B rlig | B half |
| S script | B haln |
| T system:tabnum | S indic |
| B lnum | B kern |
| N number | S language |
| B tnum | B locl |
| T tabledigits | S mode |
| N number | B nukt |
| B tabledigits | N number |
| B tnum | B pref |
| T tabularnumbers | B pres |
| N number | B psts |
| B pnum | B rphf |
| B tnum | S script |
| T tamil-one | T telugu-one |

| | |
|--------------|----------------|
| 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 language | S autoscrypt |
| B locl | B blwm |
| S mode | B blws |
| B nukt | B calt |
| N number | B ccmp |
| B pref | B checkmissing |
| B pres | B curs |
| B pstf | B kern |
| B psts | S language |
| B rphf | B liga |
| S script | B locl |
| T telugu-two | B mark |
| B abvm | B mkmk |
| B abvs | S mode |
| B akhn | N number |
| B blwf | S script |
| B blwm | S textcontrol |
| B blws | B wipemath |
| B calt | T tr |
| B cjct | S language |
| B dist | N number |
| B half | S script |
| B haln | T uk |
| S indic | S language |
| B kern | N number |
| S language | S script |
| B locl | T uppercasing |
| S mode | N number |
| B nukt | B uppercasing |
| N number | T us |
| B pref | S language |

| | | |
|------------------|-------------------|----------|
| N number | F showcontext | |
| S script | F splitcontext | |
| T virtualmath | D synonyms | |
| B compactmath | D variants | |
| B flattenaccents | symbols | table |
| B kern | T emoji | |
| S language | F checked | |
| B mathalternates | F resolved | |
| S mathexpansion | F uselibrary | |
| S mode | tables | table |
| N number | toeffect | function |
| S script | tracers | table |
| B wipemath | treatments | table |
| T vn | F applyfixes | |
| S language | D data | |
| N number | S filename | |
| S script | F ignoredfile | |
| T zero | F report | |
| N number | F trace | |
| B zero | typefaces | table |

functions (context)

dummy function

graphics (context)

backgrounds

F fetchmultipar
F pair
F path
F point

table

bitmaps

F flush
F new
F placeholder
F tocontext

table

identifiers

F bitmap
F jp2
F jpg
F png

table

identify

function

registerpdfcompactor

function

registerpdffont

synchronizers

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

function

table

gzip (context)

compress function
compressed function
decompress function

load function
save function
suffix function

images (context)

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

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

io (basic lua)

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

job (context)

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

| | | |
|--------------------|------------------|----------|
| F lowerright | F width | |
| F markregionbox | F x | |
| F n | F xy | |
| F onsamepage | F y | |
| F overlapping | register | function |
| F p | save | function |
| F page | structure | table |
| F paragraph | D collected | |
| F parindent | T components | |
| F position | T namestack | |
| F r | T tobesaved | |
| F region | T branches | |
| F registerhandlers | S name | |
| F replace | S type | |
| F rightskip | variables | table |
| F set | D checksums | |
| F setall | D collected | |
| F setregionbox | F getchecksum | |
| F setspec | F makechecksum | |
| F settobesaved | F restore | |
| D tobesaved | F save | |
| F upperleft | F setchecksum | |
| F upperright | D tobesaved | |
| F used | version | number |
| F whd | | |

language (basic tex)

| | | | |
|-------------------------|----------|-------------------------|----------|
| clean | function | id | function |
| clearhyphenation | function | new | function |
| clearpatterns | function | patterns | function |
| current | function | postexhyphenchar | function |
| gethjcode | function | posthyphenchar | function |
| has_language | function | preexhyphenchar | function |
| hyphenate | function | prehyphenchar | function |
| hyphenation | function | sethjcode | function |
| hyphenationmin | function | setwordhandler | function |

languages (context)

| | | | |
|------------------------|------------|-------------------------------|------------|
| addgoodiesdata | function | F installmethod | |
| addgoodiesfile | function | F lasttrace | |
| appliedoptions | table | F loadpatterns | |
| associate | function | F registerexception | |
| associated | data table | F registerpattern | |
| association | function | F setfeatures | |
| counters | data table | installed | function |
| current | function | installhandler | function |
| data | data table | labels | table |
| decimals | data table | F define | |
| define | function | F split | |
| explicitthyphen | function | loadable | function |
| flatten | function | loadwords | function |
| frequencies | table | logger | table |
| F averagecharwidth | | F report | |
| F getdata | | nofflatted | function |
| getdata | function | numbers | data table |
| getnumber | function | postexhyphenchar | function |
| goodiefiles | function | posthyphenchar | function |
| hjcounts | table | preexhyphenchar | function |
| hyphenate | function | prehyphenchar | function |
| hyphenators | table | registered | data table |
| T dictionaries | | registeredactions | table |
| D featuresets | | replacements | table |
| F handler | | F add | |
| T methods | | F addlist | |
| F expanded | | F handler | |
| B none | | F set | |
| F original | | serializediscretionary | function |
| F tex | | setexceptions | function |
| F traditional | | setgoodieshandler | function |
| F popmethod | | setoptions | function |
| F pushmethod | | setpatterns | function |
| F setmethod | | setsynonym | function |
| F setup | | setwordhandler | function |
| F showhyphenationtrace | | showdiscretionaries | function |
| T traditional | | strippedgoodiewords | function |
| F definefeatures | | tolang | function |
| F gettrace | | transliteration | table |
| F hyphenate | | F exception | |
| F injectthyphens | | F handler | |

F register

F set

F use

unload

urls

D characters

N lefthyphenmin

D mapping

B packslashes

N righthyphenmin

F setcharacters

version

function

table

number

visualizediscretionaries function
words table

F check

T data

F disable

F enable

T enablers

B enables

F found

F load

T methods

N threshold

layouts (context)

getcanvas function
getpagedimensions function
setupcanvas function

status table
 F isleftpage
 F lefttorrightpageaction

lfs (extra lua)

| | | | |
|------------------------|---------------------|----------------------|---------------------|
| attributes | overloaded function | link | overloaded function |
| chdir | overloaded function | mkdir | overloaded function |
| currentdir | function | makedirs | function |
| dir | overloaded function | modification | function |
| isdir | overloaded function | readlink | function |
| isfile | overloaded function | rmdir | overloaded function |
| isfound | function | setexecutable | function |
| isreadabledir | function | symlink | function |
| isreadablefile | function | symlinktarget | function |
| iswriteabledir | function | touch | overloaded function |
| iswriteablefile | function | walkdir | 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)

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

logs (context)

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

lpdf (context)

| | | | |
|--------------------------------|------------|---------------------------------|----------|
| action | function | copyunicode | function |
| adddocumentcolorspace | function | deferredobject | function |
| adddocumenttextgstate | function | delayedobject | function |
| adddocumentpattern | function | destinationspecification | function |
| adddocumentshade | function | dictionary | function |
| addtocatalog | function | docstring | function |
| addtoinfo | function | encodingvalues | table |
| addtonames | function | N base16 | |
| addtopageattributes | function | N base85 | |
| addtopageresources | function | N decoded | |
| addtopagesattributes | function | N encoded | |
| addxmpinfo | function | N plain | |
| annotationspecification | function | N utf16be | |
| array | function | N utf16le | |
| attachmentsymbols | function | epdf | table |
| boolean | function | F allcontent | |
| border | function | F analyzefonts | |
| checkedkey | function | F contentplugin | |
| checkedresources | function | F contenttostring | |
| checkedvalue | function | F contenttotext | |
| circularshade | function | D encryptioncodes | |
| close | function | F expanded | |
| cmykcode | function | F expandwidths | |
| collectedresources | function | F fontplugin | |
| color | function | F getpagecontent | |
| colorspace | function | F getstructure | |
| colorspaceconstants | data table | T helpers | |
| colorspec | function | F tounicodetable | |
| colorvalue | function | T image | |
| colorvalues | function | F close | |
| commentsymbols | function | F copy | |
| compresslevel | function | F new | |
| constant | function | F open | |
| copyarray | function | F query | |
| copyboolean | function | F load | |
| copyconstant | function | F mergewidths | |
| copydictionary | function | D objectcodes | |
| copyfloat | function | F objectrange | |
| copyinteger | function | F objecttype | |
| copynumber | function | F pageplugin | |
| copystring | function | F parsecontent | |

- F producer
- T resolvers
 - F destinations
 - F embeddedfiles
 - F javascripts
 - F layers
 - F pages
 - F structure
 - F widgets
- F unload
- F verboseobject

- escaped** function
- finalizedocument** function
- finalizepage** function
- finalizesignature** function
- finishtransparencycode** function
- flags** table

- T annotations
 - N AutoView
 - N Hidden
 - N Invisible
 - N Locked
 - N LockedContents
 - N NoRotate
 - N NoView
 - N NoZoom
 - N Print
 - N Printable
 - N ReadOnly
 - N ToggleNoView
 - N auto
 - N hidden
 - N printable

- T widgets
 - N Comb
 - N CommitOnSelChange
 - N DoNotScroll
 - N DoNotSpellCheck
 - N Edit
 - N FileSelect
 - N MultiLine
 - N NoExport
 - N NoToggleToOff
 - N Password

- N PopUp
- N PushButton
- N Radio
- N RadiosInUnion
- N ReadOnly
- N Required
- N RichText
- N Sort
- N file
- N fixed
- N nocheck
- N protected
- N readonly
- N required
- N sorted
- N unavailable

- flushfonts** function
- flushgroup** function
- flushobject** function
- flushstreamfileobject** function
- flushstreamobject** function
- fonts** table

- F color_direct
- F color_indirect

- formats** data table
- frombytes** function
- fromeight** function
- frompdfdoc** function
- fromsixteen** function
- getcatalg** function
- getcompression** function
- getfontname** function
- getfontobjectnumber** function
- getinfo** function
- getmatrix** function
- getnofpages** function
- getpageproperties** function
- getpagereference** function
- getpagetags** function
- getpos** function
- gettrailerid** function
- getversion** function
- getxformname** function
- graycode** function

| | | | |
|----------------------------|----------|----------------------------------|----------|
| h_hex_2 | table | N fillin | |
| S | | N modify | |
| S | | N print | |
| S | | N quality | |
| S | | prepresignature | function |
| S | | print | function |
| S (| | procset | function |
| S) | | protectresources | boolean |
| S \ | | quads | function |
| h_hex_4 | table | rectangle | function |
| hasmatrix | function | reference | function |
| immediateobject | function | registerannotation | function |
| includeimage | function | registerdestination | function |
| initialize | function | registerdocumentfinalizer | function |
| injectors | table | registerfontmethod | function |
| F bitmap | | registerinitializer | function |
| F jp2 | | registerpagefinalizer | function |
| F jpg | | registerpattern | function |
| F png | | registersignature | function |
| injectxmpinfo | function | replacexmpinfo | function |
| insertxmpinfo | function | reserveobject | function |
| lastreferredpage | function | rgbcode | function |
| layerreference | function | rotationcm | function |
| limited | function | setcompression | function |
| linearshade | function | setencryption | function |
| literal | function | setincludecidset | function |
| majorversion | function | setincludeprocset | function |
| makenametree | function | setpageorder | function |
| minorversion | function | setpagestate | function |
| noffontregistries | function | setpagetag | function |
| nofpages | function | setuserdata | function |
| null | function | setversion | function |
| number | function | sharedobject | function |
| object | function | shareobject | function |
| objectcompresslevel | function | shareobjectreference | function |
| pagereference | function | spotcode | function |
| patternstream | function | stream | function |
| pdfcolor | function | string | function |
| pdftimestamp | function | tocidset | function |
| permissions | table | toeight | function |
| N access | | topdfdoc | function |
| N add | | topermissions | function |
| N assemble | | tosixteen | function |
| N extract | | transparency | function |

| | | | |
|---------------------------|----------|-------------------------------|------------|
| transparencycode | function | N dejavusansmonoboldttf-1-0-0 | |
| transparencygroups | table | usedfontobjects | table |
| B none | | N dejavusansmonoboldttf-1-0-0 | |
| transparencyvalue | function | usedfontstreams | data table |
| unicode | function | usedindices | table |
| usedcharacters | table | T dejavusansmonoboldttf-1-0-0 | |
| usedfontnames | table | verbose | function |

lpeg (basic lua)

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

lua (basic tex)

| | | | |
|----------------------------|---------------------|--------------------------------|------------|
| addnibble | function | getstartupfile | function |
| bytecode | table | getversion | function |
| bytedata | data table | lastbytecode | number |
| bytdone | table | messages | data table |
| callbytecode | function | newindex | function |
| finalizeinitex | function | newtable | function |
| firstbytecode | number | numbers | data table |
| get_functions_table | function | registercode | function |
| getbytecode | function | registeredcodes | function |
| getcurrenttime | function | registerinitexfinalizer | function |
| getdebuginfo | function | registername | function |
| getexitcode | function | setbytecode | function |
| getfunctionstable | overloaded function | setexitcode | function |
| getnibble | function | setnibble | function |
| getpreciseseconds | function | startupfile | string |
| getpreciseticks | function | subnibble | function |
| getruntime | function | version | string |
| getstacktop | function | | |

luac (extra lua)

inspect function

print function

luatex (context)

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

lxml (context)

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

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

math (basic lua)

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

mathematics (context)

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

| | | |
|-------------------------------|------------|------------------------|
| styles | data table | F fixaccents |
| syncboth | function | F fixellipses |
| syncname | function | F fixintegrals |
| syncstyle | function | F fixoldschool |
| tagging | table | F fixprimes |
| B mfenced | | F fixradicals |
| toengineclass | function | F fixslashes |
| toname | function | F fixvariants |
| tostyle | function | F flattenaccents |
| tweakaftercopyingfont | function | F inspect |
| tweakbeforecopyingfont | function | F keepbases |
| tweaks | table | F kernpairs |
| F accentdimensions | | F kerns |
| F action | | T kernsets |
| F addactuarian | | T ., |
| F addarrows | | F margins |
| F addbars | | F message |
| F addcomposites | | F moveitalics |
| F addequals | | F movelimits |
| F addfourier | | F parameters |
| F addmirrors | | F radicalbodymargins |
| F addparts | | F radicaldegreeanchors |
| F addprivates | | F replace |
| F addrules | | F replacealphabets |
| F addscripts | | F replacerules |
| F bigslots | | F setoptions |
| F checkaccents | | F setovershoots |
| F checkspacing | | F showinfo |
| F copyaccents | | F simplifykerns |
| T datasets | | F sortvariants |
| T accentdimensions | | F staircase |
| T accent | | T subsets |
| T over | | T acenorsuvvx |
| T under | | T bhklt |
| T addarrows | | T d |
| T addscripts | | T dotless |
| T checkspacing | | T f |
| T copyaccents | | T gjqy |
| T fixprimes | | T horizontalfences |
| T fixslashes | | T i |
| T wipecues | | T integrals |
| F dimensions | | T letterlike |
| F extendaccents | | T mw |
| F fallbacks | | T p |

| | | | |
|----------------------|----------|-----------------------|------------|
| F substitute | | utfmathclass | function |
| F topanchors | | utfmathcommand | function |
| F tweaks | | utfmathfiller | function |
| F version | | utfmathstretch | function |
| F wipeanchors | | variantcode | function |
| F wipecues | | variantcount | function |
| F wipeitalics | | virtualize | function |
| F wipevariants | | virtualized | data table |
| utfmathaccent | function | | |

md5 (extra lua)

HEX function
dec function
hex function

sum function
sumHEXA function
sumhexa function

metapost (context)

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

| | | | |
|---------------------------|------------|-----------------------------|----------|
| N until | | getrecord | function |
| N void | | getstatistics | function |
| N with | | gettext | function |
| N within | | gettolerance | function |
| N write | | graphic | function |
| colorinitializer | function | graphic_base_pass | function |
| convert | function | hascurvature | function |
| currentmpx | function | includesvgbuffer | function |
| currentmpxstatus | function | includesvgfile | function |
| defaultformat | string | installplugin | function |
| defaultinstance | string | isobject | function |
| defaultmethod | string | knownparameters | table |
| directrun | function | lastlog | string |
| escaped | function | load | function |
| exectime | table | maketext | function |
| extensiondata | data table | metafonts | table |
| filterclippath | function | metafun | table |
| flush | function | F interpolate | |
| flushers | table | F topath | |
| T pdf | | mptopdf | table |
| F flushfigure | | F convertmpstopdf | |
| F startfigure | | N nofconverted | |
| F stopfigure | | n | number |
| F textfigure | | newlogger | function |
| F tocomment | | nofruns | number |
| flushnormalpath | function | nofscriptruns | function |
| fonts | table | nvformat | function |
| F define | | pdfliterals | function |
| format_number | function | pluginactions | function |
| format_string | function | popformat | function |
| formatnumber | function | popscriptrunner | function |
| getbackendooption | function | popvariable | function |
| getbendtolerance | function | popvariables | function |
| getbuffer | function | preparetexttextsdata | function |
| getclippath | function | process | function |
| getextensions | function | processing | function |
| getextradata | function | processplugins | function |
| gethashentries | function | properties | table |
| getinstancenames | function | pushformat | function |
| getjobdata | function | pushscriptrunner | function |
| getmovetolerance | function | pushvariable | function |
| getparameter | function | pushvariables | function |
| getparameterpreset | function | reducetogray | boolean |
| getparameterset | function | registerdirect | function |

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

| | | |
|-------------------|----------------------|----------|
| N unknownpen | typesvgpage | function |
| N unknownpicture | unload | function |
| N unknownstring | untagvariable | function |
| N unsuffixedmacro | variables | table |
| N vacuous | | |

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)

| | | | |
|-------------------|----------|--------------------------------------|----------|
| autoinject | function | fprint | function |
| aux | function | get | table |
| F boolean | | F hashentry | |
| F color | | graphformat | function |
| F direct | | inject | function |
| F draw | | F boolean | |
| F fill | | F cmykcolor | |
| F flush | | F color | |
| F fprint | | F integer | |
| F integer | | F number | |
| F number | | F numeric | |
| F numeric | | F pair | |
| F pair | | F path | |
| F pairpoints | | F pt | |
| F path | | F quadruplet | |
| F pathpoints | | F string | |
| F points | | F transform | |
| F print | | F triplet | |
| F quadruple | | F whatever | |
| F quadruplepoints | | F whd | |
| F quoted | | F xy | |
| F size | | integer | function |
| F string | | lmt_color_functions | table |
| F transform | | F shade | |
| F triplet | | F step | |
| F tripletpoints | | lmt_contours_bitmap_get | function |
| F vprint | | lmt_contours_bitmap_set | function |
| boolean | function | lmt_contours_cleanup | function |
| cleaned | function | lmt_contours_color | function |
| color | function | lmt_contours_edge_get_band | function |
| dataset | function | lmt_contours_edge_get_cell | function |
| datasets | function | lmt_contours_edge_paths | function |
| F load | | lmt_contours_edge_set | function |
| direct | function | lmt_contours_edge_set_by_band | function |
| draw | function | lmt_contours_edge_set_by_cell | function |
| expandtex | function | lmt_contours_format | function |
| fill | function | lmt_contours_function | function |
| flatten | function | lmt_contours_maxmean | function |
| flush | function | lmt_contours_maxz | function |
| format | function | lmt_contours_minmean | function |
| formatted | function | lmt_contours_minz | function |

| | | | |
|-----------------------------------|----------|------------------------------|----------|
| lmt_contours_nofvalues | function | mf_blob_size | function |
| lmt_contours_nx | function | mf_blob_width | function |
| lmt_contours_ny | function | mf_external_figure | function |
| lmt_contours_range | function | mf_finish_saving_data | function |
| lmt_contours_shade_paths | function | mf_formatted_text | function |
| lmt_contours_shade_set | function | mf_get_outline_text | function |
| lmt_contours_shape_paths | function | mf_graphic_text | function |
| lmt_contours_start | function | mf_inject_blob | function |
| lmt_contours_stop | function | mf_map_move | function |
| lmt_contours_value | function | mf_map_text | function |
| lmt_contours_xrange | function | mf_named_color | function |
| lmt_contours_yrange | function | mf_outline_text | function |
| lmt_function_x | function | mf_save_data | function |
| lmt_glyphshape_accent | function | mf_script_index | function |
| lmt_glyphshape_baseline | function | mf_start_saving_data | function |
| lmt_glyphshape_boundingbox | function | mf_stop_saving_data | function |
| lmt_glyphshape_depth | function | mode | function |
| lmt_glyphshape_height | function | n | function |
| lmt_glyphshape_italic | function | number | function |
| lmt_glyphshape_llx | function | numeric | function |
| lmt_glyphshape_n | function | pair | function |
| lmt_glyphshape_path | function | pairpoints | function |
| lmt_glyphshape_start | function | path | function |
| lmt_glyphshape_stop | function | pathpoints | function |
| lmt_glyphshape_usedbox | function | points | function |
| lmt_glyphshape_usedline | function | print | function |
| lmt_glyphshape_width | function | F boolean | |
| lmt_mesh_set | function | F color | |
| lmt_mesh_update | function | F direct | |
| lmt_poisson_generate | function | F draw | |
| lmt_start_potrace | function | F fill | |
| lmt_step_potrace | function | F flush | |
| lmt_stop_potrace | function | F fprintf | |
| lmt_surface_do | function | F integer | |
| lmt_svg_include | function | F number | |
| mf_blob_add | function | F numeric | |
| mf_blob_dimensions | function | F pair | |
| mf_blob_index | function | F pairpoints | |
| mf_blob_new | function | F path | |
| mf_blob_raw_content | function | F pathpoints | |
| mf_blob_raw_dimensions | function | F points | |
| mf_blob_raw_reset | function | F print | |
| mf_blob_raw_toutf | function | F quadruple | |
| mf_blob_raw_wipe | function | F quadruplepoints | |

| | | | |
|------------------------|----------|----------------------|----------|
| F quoted | | F path | |
| F size | | F pen | |
| F string | | F property | |
| F transform | | F string | |
| F triplet | | F symbol | |
| F tripletpoints | | F token | |
| F vprint | | T tokenscanners | |
| processingmode | function | F transform | |
| quadruple | function | T typescanners | |
| quadruplepoints | function | F whatever | |
| quoted | function | set | table |
| report | function | size | function |
| scan | table | skip | table |
| F boolean | | F token | |
| F cmykcolor | | solve | function |
| F color | | string | function |
| F expression | | systemmode | function |
| F integer | | transform | function |
| F next | | triplet | function |
| F number | | tripletpoints | function |
| F numeric | | vprint | function |
| F pair | | | |

mplib (extra tex)

| | | | |
|-------------------------|----------|-------------------------|---------------------|
| execute | function | injectstring | function |
| expandtex | function | injecttransform | function |
| finder | function | injectwhatever | function |
| finders | table | new | overloaded function |
| F file | | peninfo | function |
| F mpstemplate | | propertycodes | table |
| finish | function | realtime logging | boolean |
| getcallbackstate | function | scanboolean | function |
| getcodes | function | scancmykcolor | function |
| getcolormodels | function | scancolor | function |
| getfields | function | scanexpression | function |
| gethashentries | function | scaninteger | function |
| gethashentry | function | scannext | function |
| getobjecttypes | function | scannumber | function |
| getstates | function | scannumeric | function |
| getstatistics | function | scanpair | function |
| getstatus | function | scanpath | function |
| gettolerance | function | scanpen | function |
| gettype | function | scanproperty | function |
| gettypes | function | scanstring | function |
| injectboolean | function | scansymbol | function |
| injectcmykcolor | function | scantoken | function |
| injectcolor | function | scantransform | function |
| injectinteger | function | settolerance | function |
| injectnumber | function | showcontext | function |
| injectnumeric | function | skiptoken | function |
| injectpair | function | solvepath | function |
| injectpath | function | version | function |

noads (context)

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

T dictionaries
T intervals
F mlisttohtml
T suspicious
T unscript
T unstack

processouter function

node (basic tex)

| | | |
|-----------------------------|----------|----------------------|
| checkdiscretionaries | function | F getattribute |
| checkdiscretionary | function | F getattributelist |
| copy | function | F getattributes |
| copylist | function | F getboth |
| count | function | F getbottom |
| currentattributes | function | F getbottomdelimiter |
| dimensions | function | F getbox |
| direct | table | F getcachestate |
| F addmargins | | F getchar |
| F addxoffset | | F getchardict |
| F addxymargins | | F getcharspec |
| F addyoffset | | F getchoice |
| F appendaftertail | | F getclass |
| F beginofmath | | F getcontrol |
| F checkdiscretionaries | | F getcornerkerns |
| F checkdiscretionary | | F getdata |
| F collapsing | | F getdegree |
| F copy | | F getdelimiter |
| F copylist | | F getdenominator |
| F copyonly | | F getdepth |
| F count | | F getdirection |
| F currentattributes | | F getdisc |
| F dimensions | | F getdiscpart |
| F effectiveglue | | F getexcept |
| F endofmath | | F getexpansion |
| F exchange | | F getfam |
| F fields | | F getfield |
| F findattribute | | F getfont |
| F findattributerange | | F getgeometry |
| F findnode | | F getglue |
| F firstchar | | F getglyphdata |
| F firstglyph | | F getglyphdimensions |
| F firstglyphnode | | F getheight |
| F firstitalicglyph | | F getid |
| F flattendiscretionaries | | F getindex |
| F flattenleaders | | F getinputfields |
| F flushlist | | F getkern |
| F flushnode | | F getkerndimension |
| F free | | F getlanguage |
| F freeze | | F getleader |
| F getanchors | | F getleftdelimiter |

| | |
|---------------------|-----------------------|
| F getlist | F getsyscale |
| F getlistdimensions | F gluetostring |
| F getnext | F hasattribute |
| F getnodes | F hasdimensions |
| F getnormalizedline | F hasdiscoption |
| F getnucleus | F hasfield |
| F getnumerator | F hasgeometry |
| F getoffsets | F hasglyph |
| F getoptions | F hasglyphoption |
| F getorientation | F hpack |
| F getparstate | F hyphenating |
| F getpenalty | F id |
| F getpost | F ignoremathskip |
| F getpre | F insertafter |
| F getprev | F insertbefore |
| F getprime | F isboth |
| F getpropertystable | F ischar |
| F getproperty | F isdirect |
| F getreplace | F isglyph |
| F getrightdelimiter | F isitalicglyph |
| F getruledimensions | F isloop |
| F getscale | F isnext |
| F getscales | F isnextchar |
| F getscrip | F isnextglyph |
| F getscripts | F isnode |
| F getshift | F isprev |
| F getslant | F isprevchar |
| F getspeciallist | F isprevglyph |
| F getstate | F issimilarglyph |
| F getsub | F isspeciallist |
| F getsubpre | F isvalid |
| F getsubtype | F iszeroglue |
| F getsup | F kerning |
| F getsuppre | F lastnode |
| F gettop | F length |
| F gettopdelimiter | F ligaturing |
| F gettotal | F makeextensible |
| F getusedattributes | F migrate |
| F getweight | F mlisttohtml |
| F getwhd | F naturalhsize |
| F getwidth | F naturalwidth |
| F getwordrange | F new |
| F getxscale | F newcontinuationatom |
| F getxyscales | F newmathglyph |

| | |
|-----------------------|---------------------|
| F newtextglyph | F setindex |
| F patchattributes | F setinputfields |
| F patchparshape | F setkern |
| F prependbeforehead | F setlanguage |
| F protectglyph | F setleader |
| F protectglyphs | F setleftdelimiter |
| F protectglyphsnone | F setlink |
| F protrusionskippable | F setlist |
| F rangedimensions | F setnext |
| F remove | F setnucleus |
| F removefromlist | F setnumerator |
| F repack | F setoffsets |
| F reverse | F setoptions |
| F serialized | F setorientation |
| F setanchors | F setpenalty |
| F setattribute | F setpost |
| F setattributelist | F setpre |
| F setattributes | F setprev |
| F setboth | F setprime |
| F setbottom | F setproperty |
| F setbottomdelimiter | F setreplace |
| F setbox | F setrightdelimiter |
| F setchar | F setruledimensions |
| F setchardict | F setscales |
| F setchoice | F setscript |
| F setclass | F setscripts |
| F setcontrol | F setshift |
| F setdata | F setslant |
| F setdegree | F setspeciallist |
| F setdelimiter | F setsplit |
| F setdenominator | F setstate |
| F setdepth | F setsub |
| F setdirection | F setsubpre |
| F setdisc | F setsubtype |
| F setdiscpart | F setup |
| F setexcept | F setsuppre |
| F setexpansion | F settop |
| F setfam | F settopdelimiter |
| F setfield | F settotal |
| F setfont | F setweight |
| F setgeometry | F setwhd |
| F setglue | F setwidth |
| F setglyphdata | F show |
| F setheight | F size |

| | | | |
|-------------------------------|----------|----------------------------|----------|
| F slide | | getproperty | function |
| F softenhyphens | | gluetostring | function |
| F startofpar | | hasattribute | function |
| F subtypes | | hasfield | function |
| F tail | | hasglyph | function |
| F todirect | | hpack | function |
| F tonode | | hyphenating | function |
| F tostring | | id | function |
| F tovaliddirect | | insertafter | function |
| F traverse | | insertbefore | function |
| F traversechar | | instock | function |
| F traversecontent | | inuse | function |
| F traverseglyph | | isnode | function |
| F traverseid | | iszeroglue | function |
| F traverseitalic | | kerning | function |
| F traverseleader | | lastnode | function |
| F traverselist | | length | function |
| F type | | ligaturing | function |
| F types | | makeextensible | function |
| F unprotectglyph | | mlisttohtml | function |
| F unprotectglyphs | | new | function |
| F unsetattribute | | protectglyph | function |
| F unsetattributes | | protectglyphs | function |
| F usedlist | | protrusionskippable | function |
| F usesfont | | rangedimensions | function |
| F verticalbreak | | remove | function |
| F vpack | | serialized | function |
| F write | | setattribute | function |
| F xscaled | | setfield | function |
| F yscaled | | setglue | function |
| effectiveglue | function | setProperty | function |
| endofmath | function | show | function |
| family_font | function | size | function |
| fields | function | slide | function |
| findattribute | function | subtypes | function |
| flattendiscretionaries | function | tail | function |
| flushlist | function | todirect | function |
| flushnode | function | tonode | function |
| free | function | tostring | function |
| getattribute | function | traverse | function |
| getcachestate | function | traverseid | function |
| getfield | function | type | function |
| getglue | function | types | function |
| getpropertystable | function | unprotectglyph | function |

unprotectglyphs
unsetattribute
usedlist

function
function
function

usesfont
vpack
write

function
function
function

nodes (context)

| | | | |
|---------------------------|------------|-------------------|------------|
| accentcodes | data table | | |
| adaptive | table | | |
| F handlehorizontal | | | |
| F handlevertical | | | |
| T methods | | | |
| F set | | | |
| aligned | function | | |
| append | function | | |
| apply | function | | |
| applyvisuals | function | | |
| astable | function | | |
| attributecodes | data table | | |
| basepoints | function | | |
| boundarycodes | data table | | |
| boxes | table | | |
| F count | | | |
| F dimensions | | | |
| F direct | | | |
| F dispose | | | |
| F found | | | |
| F prune | | | |
| F reset | | | |
| F restore | | | |
| F save | | | |
| F savenode | | | |
| builders | table | | |
| F buildpage_filter | | | |
| F vbox_filter | | | |
| F vpack_filter | | | |
| choicecodes | data table | | |
| concat | function | | |
| copy | function | | |
| copy_node | function | | |
| copylist | function | | |
| countall | function | | |
| currentattributes | function | | |
| delete | function | | |
| destinations | table | | |
| N attribute | | | |
| T done | | | |
| F handler | | | |
| | | T stack | |
| dircodes | | | data table |
| directioncodes | | | data table |
| directionvalues | | | data table |
| dirvalues | | | data table |
| disccodes | | | data table |
| discretionarycodes | | | data table |
| fencecodes | | | data table |
| fields | | | function |
| fieldtypes | | | table |
| fillcodes | | | data table |
| fillvalues | | | data table |
| firstdirinbox | | | function |
| flush | | | function |
| flushlist | | | function |
| flushnode | | | function |
| fractioncodes | | | data table |
| fullhpack | | | function |
| getattr | | | function |
| getattribute | | | function |
| getboth | | | function |
| getbox | | | function |
| getchar | | | function |
| getfield | | | function |
| getfont | | | function |
| getid | | | function |
| getleader | | | function |
| getlist | | | function |
| getnext | | | function |
| getprev | | | function |
| getproperty | | | function |
| getsubtype | | | function |
| gluecodes | | | data table |
| glyphcodes | | | data table |
| handlers | | | table |
| | | F adjusters | |
| | | F aligncharacter | |
| | | F backgrounds | |
| | | F backgroundspage | |
| | | F backgroundsvbox | |
| | | F characters | |

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

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

| | |
|----------------------|---------------------|
| F getgeometry | F getsub |
| F getglue | F getsubpre |
| F getglyphdata | F getsubtype |
| F getglyphdimensions | F getsup |
| F getheight | F getsuppre |
| F getid | F getsurround |
| F getindex | F gettop |
| F getinputfields | F gettopdelimiter |
| F getkern | F gettotal |
| F getkerndimension | F getusedattributes |
| F getlang | F getvalue |
| F getlanguage | F getweight |
| F getleader | F getwhd |
| F getleftdelimiter | F getwidth |
| F getlist | F getwordrange |
| F getlistdimensions | F getxscale |
| F getmiddle | F getxyscales |
| F getmiddledelimiter | F getsyscale |
| F getnext | F gluetostrng |
| 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 hpack |
| F getpost | F hyphenating |
| F getpre | F ignoremathskip |
| F getprev | F insertafter |
| F getprime | F insertbefore |
| F getprop | F insertlistafter |
| F getreplace | F is_display_math |
| F getrightdelimiter | F isboth |
| F getruledata | F ischar |
| F getruledimensions | F isdirect |
| F getscale | F isdone |
| F getscales | F isglyph |
| F getscrip | F isitalicglyph |
| F getscripts | F isnext |
| F getshift | F isnextchar |
| F getslant | F isnextglyph |
| F getspeciallist | F isnode |
| F getstate | F isnut |

| | |
|-----------------------|-------------------|
| F isprev | F imagerule |
| F isprevchar | F indentskip |
| F isprevglyph | F italickern |
| F issimilarglyph | F kern |
| F iszeroglue | F latelua |
| F kerning | F leader |
| F lastnode | F lefthangskip |
| F length | F leftmarginkern |
| F ligaturing | F leftskip |
| F link | F lineskip |
| F linked | F literal |
| F locate | F luaboundary |
| F migrate | F mathchar |
| F migratebox | F mathtextchar |
| F mlisttohlist | F negatedglue |
| F naturalhsize | F noad |
| F naturalwidth | F originliteral |
| F nestedtracedslide | F outlinerule |
| F new | F pageliteral |
| F newcontinuationatom | F penalty |
| F newmathglyph | F radical |
| F openup | F rawliteral |
| F patchattributes | F register |
| F patchparshape | F restore |
| T pool | F righthangskip |
| F accent | F rightmarginkern |
| F baselineskip | F rightskip |
| F boundary | F rule |
| F boxrule | F save |
| F choice | F savepos |
| F cleanup | F setmatrix |
| F delim | F setstate |
| F delimiter | F shrink |
| F direction | F spacefontkern |
| F directliteral | F startrotation |
| F disc | F stock |
| F emptyrule | F stretch |
| F fence | F strutrule |
| F fontkern | F subbox |
| F fraction | F sublist |
| F glue | F temp |
| F gluespec | F usage |
| F glyph | F userdefined |
| F hlist | T userids |

| | |
|-----------------------|----------------------|
| F usernode | F setchardict |
| F userrule | F setchoice |
| F virtualrule | F setclass |
| F vlist | F setcomponents |
| F wordboundary | F setdata |
| F prepend | F setdegree |
| F prependbeforehead | F setdelimiter |
| F processranges | F setdenominator |
| F processwords | F setdepth |
| F protectglyph | F setdirection |
| F protectglyphs | F setdisc |
| F protectglyphsnone | F setdiscpart |
| F protrusionskippable | F setdiscretionary |
| F rangedimensions | F setexcept |
| F rawprop | F setexpansion |
| F reference | F setfam |
| F rehpack | F setfield |
| F remove | F setfont |
| F removefromlist | F setgeometry |
| F repack | F setglue |
| F repackhlist | F setglyphdata |
| F replace | F setheight |
| F reverse | F setinputfields |
| T rules | F setkern |
| T ruleactions | F setlang |
| F box | F setlanguage |
| F draw | F setleader |
| F fill | F setleftdelimiter |
| F mp | F setlink |
| F stroke | F setlist |
| F userrule | F setmiddledelimiter |
| F serialized | F setnext |
| F setanchors | F setnucleus |
| F setattr | F setnumerator |
| F setattribute | F setoffsets |
| F setattributelist | F setoptions |
| F setattributes | F setorientation |
| F setattrlist | F setparproperty |
| F setattrs | F setpenalty |
| F setboth | F setpost |
| F setbottom | F setpre |
| F setbox | F setprev |
| F setboxglue | F setprime |
| F setchar | F setprop |

| | |
|---------------------|---------------------|
| F setreplace | F tracedslide |
| F setrightdelimiter | F traverse |
| F setruledata | F traversesechar |
| F setruledimensions | F traversesecontent |
| F setscale | F traverseseglyph |
| F setscales | F traverseseid |
| F setscript | F traverseseitalic |
| F setscripts | F traverseseleader |
| F setshift | F traverselist |
| F setslant | T traversers |
| F setspeciallist | F alignrecord |
| F setsplit | F boundary |
| F setstate | F char |
| F setsub | F content |
| F setsubpre | F dir |
| F setsubtype | F disc |
| F setup | F glue |
| F setsuppre | F glyph |
| F setsurround | F hlist |
| F settop | F leader |
| F setvalue | F list |
| F setvisual | F mark |
| F setvisuals | F next |
| F setweight | F node |
| F setwhd | F penalty |
| F setwidth | F rule |
| F show | F unset |
| F slide | F vlist |
| F softenhyphens | F whatsit |
| F somepenalty | T treversers |
| F somespace | F char |
| F splitbox | F content |
| F startofpar | F glyph |
| F striprange | F leader |
| F tail | F list |
| F takeattr | F node |
| F takebox | T typesetters |
| F takelist | F tohbox |
| F theprop | F tohpack |
| F tonode | F tonodes |
| F tonodes | F tovbox |
| F tonut | F tovpack |
| F tosequence | F unprotectglyph |
| F tostring | F unprotectglyphs |

| | |
|-------------------------|------------|
| F unsetattribute | |
| F unsetattributes | |
| F untracedslide | |
| F usedlist | |
| F usesfont | |
| F verticalbreak | |
| F vianodes | |
| F vianuts | |
| F vpack | |
| F write | |
| F xscaled | |
| F yscaled | |
| packlist | function |
| parcodes | data table |
| penaltycodes | data table |
| plugindata | table |
| F finalizer | |
| F initializer | |
| S name | |
| T namespace | |
| N attribute | |
| D data | |
| F enable | |
| F handler | |
| F register | |
| D registered | |
| D values | |
| F processor | |
| points | function |
| pool | table |
| F baselineskip | |
| F cleanup | |
| F directliteral | |
| F glyph | |
| F hlist | |
| F latelua | |
| F leader | |
| F lineskip | |
| F literal | |
| F luaboundary | |
| F originliteral | |
| F register | |
| F restore | |
| F save | |
| F savepos | |
| F setmatrix | |
| F stock | |
| F usage | |
| F usernode | |
| F vlist | |
| prepend | function |
| print | function |
| processors | table |
| F alignment_filter | |
| F append_line_filter | |
| F glyph_run | |
| F post_linebreak_filter | |
| F pre_linebreak_filter | |
| F trace_glyph_run_a | |
| F trace_glyph_run_b | |
| properties | table |
| T data | |
| pts | function |
| radicalcodes | data table |
| references | table |
| N attribute | |
| T done | |
| F handler | |
| T stack | |
| reheap | function |
| remove | function |
| repackhlist | function |
| replace | function |
| report | function |
| rightmarginwidth | function |
| rulecodes | data table |
| rules | table |
| F handler | |
| F process | |
| F set | |
| F userrule | |
| serialize | function |
| serializebox | function |
| serialized | function |
| setattr | function |
| setattribute | function |
| setattrlist | function |
| setboth | function |

| | | | |
|-----------------------------|------------|-----------------------|----------|
| setbox | function | F enablegroup | |
| setboxtonaturalwd | function | F freeze | |
| setchar | function | F freezegroup | |
| setfield | function | F new | |
| setfont | function | F prependaction | |
| setleader | function | F removeaction | |
| setlink | function | F replaceaction | |
| setlist | function | F restart | |
| setnext | function | F setaction | |
| setprev | function | F showactions | |
| setproperty | function | F table | |
| shadows | table | tobasepoints | function |
| F handler | | tocentimeters | function |
| F set | | tociceros | function |
| shifts | table | todidots | function |
| F handler | | todimen | function |
| F set | | toinches | function |
| showboxes | function | tomillimeters | function |
| showlist | function | tonode | function |
| showsimplelist | function | tonodes | function |
| skipcodes | data table | tonut | function |
| snapshots | table | topics | function |
| F getsamples | | topoints | function |
| F resetsamples | | toscaledpoints | function |
| F takesample | | tosequence | function |
| somepenalty | function | tostring | function |
| somespace | function | totable | function |
| specialskipcodes | table | totree | function |
| splitbox | function | toutf | function |
| startofpar | function | tracers | table |
| stripdiscretionaries | function | T colors | |
| stripping | table | F reset | |
| T glyphs | | F set | |
| F set | | F setlist | |
| subtypes | data table | F directions | |
| tail | function | F fontchar | |
| takeattr | function | T frequencies | |
| takebox | function | F register | |
| tasks | table | T pool | |
| F actions | | T nodes | |
| F appendaction | | F rule | |
| F disableaction | | T nuts | |
| F disablegroup | | F rule | |
| F enableaction | | F resetproperties | |

| | | |
|---------------------------|----------|-----------------|
| F rule | | F enable |
| F setlist | | T filters |
| F setproperties | | N hglue |
| F start | | N hkern |
| T steppers | | N hpenalty |
| F check | | N vglue |
| F codes | | N vkern |
| F features | | N vpenalty |
| F font | | F getusedfont |
| F glyphs | | F handler |
| F message | | F markfonts |
| F messages | | T modes |
| F nofsteps | | N boundary |
| F register | | N depth |
| F reset | | N dir |
| F start | | N discretionary |
| F stop | | N expansion |
| F stop | | N fontkern |
| T transparencies | | N glue |
| F reset | | N glyph |
| F set | | N hbox |
| F setlist | | N hglue |
| traverse | function | N hkern |
| traverseid | function | N hpenalty |
| typesetters | table | N insert |
| F hbox | | N italic |
| F hpack | | N kern |
| F tohbox | | N line |
| F tohpack | | N marginkern |
| F tonodes | | N mark |
| F tovbox | | N math |
| F tovpack | | N mathglue |
| F vpack | | N mathkern |
| unsetattribute | function | N origin |
| upcomingproperties | function | N par |
| usedlist | function | N penalty |
| vianodes | function | N simple |
| vianuts | function | N simplehbox |
| visualizebox | function | N simplevbox |
| visualizers | table | N simplevtop |
| F attribute | | N space |
| T attributes | | N strut |
| F box | | N user |
| F definelayer | | N vbox |

N vglue
N vkern
N vpenalty
N vtop
N whatsit
F register
F registercache

F setfont
F setlayer
F setruledglyph
F setvisual
vpack
whatsitcodes
write

function
data table
function

number (context)

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

objects (context)

| | | | |
|-------------------|----------|------------------|----------|
| data | table | page | function |
| dimensions | function | reference | function |
| found | function | register | function |
| n | number | restore | 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 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)

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

package (basic lua)

| | | | |
|----------------------|----------|--------------------|----------|
| config | string | loadlib | function |
| cpath | string | luapaths | function |
| extralibpath | function | path | string |
| extralibpaths | function | poplibpath | function |
| extralupath | function | popluapath | function |
| extralupaths | function | preload | table |
| helpers | table | pushlibpath | function |
| libpaths | function | pushluapath | function |
| loaded | table | searchers | table |
| loaders | table | searchpath | function |

pagebuilders (context)

columnsets table

- F add
- F block
- F check
- F currentcolumn
- F define
- F finishflush
- F flushareas
- F flushcolumn
- F flushrest
- F goto
- F noto
- F prepareflush
- F put
- F registerarea
- F reset
- F setarea

- F sethsize
- F sethspace
- F setlines
- F setproperties
- F setstart
- F setvsize

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

pdf (extra tex)

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

physics (context)

units table

F registershortcut

F registerunit

D tables

pngdecode (extra tex)

applyfilter function
expand function
interlace function
makemask function

splitmask function
tocmyk function
tomask function

posit (extra lua)

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

potrace (extra tex)

checked function
concat function
contourplot function
convert function
count function
flush function
free function

getbitmap function
new function
process function
setbitmap function
stripped function
totable function
trace function

publications (context)

| | | | |
|-------------------------|------------|-----------------------------|----------|
| addtentry | function | concatstate | function |
| analyze | function | converttoxml | function |
| anywhere | function | currentspecification | table |
| authorcache | data table | S author | |
| authorcollapsers | data table | T categories | |
| authorhashers | table | T article | |
| F invertedshort | | S category | |
| F normal | | T extra | |
| F normalinverted | | T fields | |
| F normalshort | | S author | |
| F sequential | | S editor | |
| F sequentialshort | | S journal | |
| F short | | S keywords | |
| authormap | data table | S note | |
| authorregister | function | S number | |
| btx | table | S pages | |
| casters | table | S title | |
| F author | | S volume | |
| F keyword | | S year | |
| F pagenumber | | T optional | |
| F range | | T required | |
| checkeddataset | function | T sets | |
| citevariants | table | T author | |
| F author | | T virtual | |
| F authornum | | T book | |
| F authoryear | | S category | |
| F authoryears | | T extra | |
| F category | | T fields | |
| F default | | S address | |
| F entry | | S author | |
| F index | | S edition | |
| F keywords | | S editor | |
| F num | | S keywords | |
| F page | | S note | |
| F short | | S number | |
| F tag | | S publisher | |
| F textnum | | S subtitle | |
| F year | | S title | |
| collected | data table | S volume | |
| components | table | S year | |
| F author | | T optional | |

| | | |
|----------------|------------------------|------------|
| 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 | datasets | table |
| S subtitle | detailed | table |
| S title | endnotes_to_btx | function |
| S year | enhancer | table |
| T optional | S arguments | |
| T required | T askip | |
| T sets | B dirty | |
| T author | T gskip | |
| T virtual | T kind | |
| T demo-b | T list | |
| S category | T system | |
| T extra | T order | |
| T fields | N steps | |
| S author | enhancers | table |
| S institution | F details | |
| S organization | F order | |
| S subtitle | F suffixes | |
| S title | finder | function |
| S year | firstofrange | function |
| T optional | found | function |
| T required | get | function |
| T sets | getcasted | function |
| T authors | getdetail | function |
| T virtual | getdirect | function |
| S comment | getfaster | function |
| S copyright | getfield | function |
| T fields | getfuzzy | function |
| S name | getindex | function |
| T types | inspectors | data table |
| S author | journals | table |
| S editor | F abbreviated | |
| S keywords | F add | |
| S number | F expanded | |

| | | | |
|---------------------------|----------|----------------------------|----------|
| F load | | F endnote | |
| F save | | F json | |
| lastofrange | function | F lua | |
| lists | table | F refman | |
| F collectentries | | F registercleaner | |
| F combiinlist | | F xml | |
| F fetchentries | | loadreplacementfile | function |
| F filterall | | meanings | table |
| F flushcombi | | new | function |
| F flushentry | | okay | function |
| F flushtag | | oneorange | function |
| T methods | | parenttag | function |
| F dataset | | permitted | function |
| F force | | prerollcmdstring | function |
| F global | | refman_to_btx | function |
| F label | | resolvedname | function |
| F local | | save | function |
| F nofregistered | | savers | table |
| F prepareentries | | F bib | |
| F register | | F lua | |
| F sameasprevious | | F xml | |
| T sorters | | search | function |
| F cite | | setcategory | function |
| F dataset | | setspecification | function |
| F default | | singularorplural | function |
| F index | | sortedentries | function |
| F list | | sortmethods | table |
| F reference | | T authortitle | |
| F short | | T sequence | |
| F used | | T authoryear | |
| F uservariable | | T sequence | |
| listvariants | table | T dataset | |
| F default | | T sequence | |
| F index | | T key | |
| F num | | T sequence | |
| F short | | specifications | table |
| F tag | | T default | |
| load | function | S author | |
| loadbibdata | function | S comment | |
| loaddefinitionfile | function | S copyright | |
| loaders | table | S name | |
| F bbl | | S version | |
| F bib | | D virtual | |
| F buffer | | splitauthor | function |

| | | | |
|-----------------------|----------|---------------------------|----------|
| splitoneauthor | function | F showdatasetcompleteness | |
| statistics | table | F showdatasetfields | |
| N nofbytes | | F showentry | |
| N nofdatasets | | F showfields | |
| N nofdefinitions | | F showhashedauthors | |
| N nofshortcuts | | F showtables | |
| tables | table | F showvariants | |
| D implicits | | typesetters | table |
| D origins | | F author | |
| D privates | | F string | |
| D sets | | usedataset | function |
| D specials | | usedentries | function |
| D types | | writers | table |
| D virtuals | | F author | |
| tags | function | F keyword | |
| tracers | table | F pagenumber | |
| F showdatasetauthors | | F range | |

regimes (context)

| | |
|--------------------|------------|
| backmapping | data table |
| cleanup | function |
| disable | function |
| enable | function |
| fromregime | function |
| list | function |

| | |
|------------------|------------|
| mapping | data table |
| pop | function |
| process | function |
| push | function |
| toregime | function |
| translate | function |

resolvers (context)

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

| | | | |
|--------------------------|------------|-------------------------------|------------|
| joinpath | function | registerfilehash | function |
| knownvariables | function | registerintrees | function |
| libraries | table | registermethod | function |
| F optionalloaded | | registerzipfile | function |
| F validoptional | | relations | data table |
| load | function | renew | function |
| loadbinfile | function | renewcache | function |
| loaders | data table | repath | function |
| loadluaLib | function | reset | function |
| loadtexfile | function | resetextrapaths | function |
| loadtime | function | resetresolve | function |
| locateformat | function | resolve | function |
| locators | data table | savers | data table |
| luacnffallback | string | scandata | function |
| luacnfname | string | scanfiles | function |
| luacnfspec | string | schemes | table |
| luacnfstate | string | T cleaners | |
| macros | table | F md5 | |
| F convertfile | | F none | |
| F decodecomment | | F strip | |
| F enablecomment | | F cleannname | |
| F encodecomment | | F fetchstring | |
| F preprocessed | | F fetchtable | |
| F processmk | | F install | |
| F processmkLx | | setdynamic | function |
| F processmkvi | | setenv | function |
| F version | | showpath | function |
| maxreadlevel | number | simplescanfiles | function |
| methodhandler | function | splitconfigurationpath | function |
| openbinfile | function | splitexpansions | function |
| openers | data table | splitmethod | function |
| openfile | function | splitpath | function |
| opentexfile | function | stackpath | function |
| ownpath | string | starttiming | function |
| popextrapath | function | stoptiming | function |
| popinputname | function | suffixes | data table |
| poppath | function | suffixmap | data table |
| prefixes | data table | suffixofformat | function |
| prependhash | function | texdatablob | function |
| pushextrapath | function | toppath | function |
| pushinputname | function | tracers | data table |
| pushpath | function | unexpandedpath | function |
| registerextrapath | function | unexpandedpathlist | function |
| registerfile | function | unresolve | function |

| | | | |
|------------------------|------------|---------------------------------|----------|
| updaterelations | function | validatedpath | function |
| updatescript | function | variable | function |
| uselibrary | function | variableofformat | function |
| usertypes | data table | variableofformatorsuffix | function |
| usezipfile | function | wildcardpattern | function |

sandbox (context)

| | |
|-------------------------|----------|
| disablelibraries | function |
| disablerunners | function |
| enable | function |
| filehandlerone | function |
| filehandlertwo | function |
| finalizer | function |
| getrunner | function |
| initializer | function |
| iohandler | function |
| logcalls | function |
| logfiles | function |
| original | function |
| overload | function |

| | |
|--------------------------|----------|
| possiblepath | function |
| redefine | function |
| register | function |
| registerbinary | function |
| registerlibrary | function |
| registerroot | function |
| registerrunner | function |
| report | function |
| setfilenamelogger | function |
| setlogger | function |
| setreporter | function |
| settrace | function |
| validfilename | 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

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)

read2dot14 function
readbytes function
readbytetable function
readcardinal1 function
readcardinal1le function
readcardinal2 function
readcardinal2le function
readcardinal3 function
readcardinal3le function
readcardinal4 function
readcardinal4le function
readcardinaltable function
readcline function
readcstring function
readfixed2 function
readfixed4 function
readinteger1 function

readinteger1le function
readinteger2 function
readinteger2le function
readinteger3 function
readinteger3le function
readinteger4 function
readinteger4le function
readintegertable function
tocardinal1 function
tocardinal1le function
tocardinal2 function
tocardinal2le function
tocardinal3 function
tocardinal3le function
tocardinal4 function
tocardinal4le function

socket (extra lua)

| | | |
|-----------------------|----------|-----------------------------|
| BLOCKSIZE | number | S content-md5 |
| _DATAGRAMSIZE | number | S content-range |
| _SETSIZE | number | S content-transfer-encoding |
| _SOCKETINVALID | number | S content-type |
| bind | function | S cookie |
| choose | function | S date |
| connect | function | S diagnostic-code |
| connect4 | function | S dsn-gateway |
| connect6 | function | S etag |
| dns | table | S expect |
| F getaddrinfo | | S expires |
| F gethostname | | S final-log-id |
| F getnameinfo | | S final-recipient |
| F tohostname | | S from |
| F toip | | S host |
| gettime | function | S if-match |
| headers | table | S if-modified-since |
| T canonic | | S if-none-match |
| S accept | | S if-range |
| S accept-charset | | S if-unmodified-since |
| S accept-encoding | | S in-reply-to |
| S accept-language | | S keywords |
| S accept-ranges | | S last-attempt-date |
| S action | | S last-modified |
| S age | | S location |
| S allow | | S max-forwards |
| S alternate-recipient | | S message-id |
| S arrival-date | | S mime-version |
| S authorization | | S original-envelope-id |
| S bcc | | S original-recipient |
| S cache-control | | S pragma |
| S cc | | S proxy-authenticate |
| S comments | | S proxy-authorization |
| S connection | | S range |
| S content-description | | S received |
| S content-disposition | | S received-from-mta |
| S content-encoding | | S references |
| S content-id | | S referer |
| S content-language | | S remote-mta |
| S content-length | | S reply-to |
| S content-location | | S reporting-mta |

S resent-bcc
 S resent-cc
 S resent-date
 S resent-from
 S resent-message-id
 S resent-reply-to
 S resent-sender
 S resent-to
 S retry-after
 S return-path
 S sender
 S server
 S smtp-remote-recipient
 S status
 S subject
 S te
 S to
 S trailer
 S transfer-encoding
 S upgrade
 S user-agent
 S vary
 S via
 S warning
 S will-retry-until
 S www-authenticate
 S x-mailer
 F lower
 F normalize
http table
 N TIMEOUT
 S USERAGENT
 F genericform
 F open
 F request
newtry function

protect function
report function
select function
sink function
sinkt table
 F close-when-done
 F default
 F http-chunked
 F keep-open
skip function
sleep function
source function
sourcec table
 F by-length
 F default
 F http-chunked
 F until-closed
tcp function
tcp4 function
tcp6 function
tp table
 N TIMEOUT
 F connect
try function
udp function
udp4 function
udp6 function
url table
 F absolute
 F build
 F build_path
 F escape
 F parse
 F parse_path
 F unescape

sorters (context)

basicsorter function

comparers table

F basic

constants table

S defaultdigits

S defaultlanguage

S defaultmethod

N digitsmaximum

N digitsoffset

N ignoredoffset

N replacementoffset

T validmethods

B ch

B mc

B mm

B pc

B pm

B uc

B zc

B zm

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 | resettiming | function |
| checkfmtstatus | function | runtime | function |
| currenttime | function | savefmtstatus | function |
| elapsed | function | show | function |
| elapsedindeed | function | showmemory | function |
| elapsedseconds | function | showusage | function |
| elapsedtime | function | starttiming | function |
| enable | boolean | stoptiming | function |
| formatruntime | function | threshold | number |
| hastiming | function | timed | function |
| memused | function | tracefunction | function |
| register | function | | |

status (basic tex)

| | | | |
|------------------------------|----------|--------------------------|----------|
| getbufferstate | function | getluastate | function |
| getcallbackstate | function | getmarkstate | function |
| getconstants | function | getneststate | function |
| geterrorlinestate | function | getnodestate | function |
| geterrorstate | function | getparameterstate | function |
| getexpandstate | function | getpoolstate | function |
| getextrastate | function | getreadstate | function |
| getfilestate | function | getsavestate | function |
| getfontstate | function | getsparsestate | function |
| gethalferrorlinestate | function | getstringstate | function |
| gethashstate | function | gettexstate | function |
| gethyphenationstate | function | gettokenstate | function |
| getinputstate | function | getwarningstate | function |
| getinsertstate | function | iocodes | table |
| getlanguagestate | function | list | function |
| getlinebreakstate | function | resetmessages | function |
| getlookupstate | function | | |

storage (context)

| | | | |
|-------------------|----------|------------------------|------------|
| allocate | function | noftables | number |
| data | table | register | function |
| mark | function | shared | data table |
| marked | function | storedfunctions | data table |
| max | number | strip | boolean |
| min | number | tofmodules | number |
| nofmodules | number | toftables | number |

streams (context)

collect function
disable function
enable function
flush function
initialize function

push function
start function
stop function
synchronize function

string (basic lua)

| | | | |
|------------------------|----------|------------------------|----------|
| autodouble | function | longtostring | function |
| autosingle | function | lower | function |
| booleanstring | function | match | function |
| byte | function | nospaces | function |
| bytepairs | function | nspaces | table |
| bytes | function | octtointeger | function |
| bytetable | function | optionalquoted | function |
| char | function | pack | function |
| characterpairs | function | packrowscolumns | function |
| characters | function | packsize | function |
| checkedsplit | function | quote | function |
| chrtointeger | function | quoted | function |
| collapsespaces | function | rep | function |
| containsws | function | replacenewlines | function |
| count | function | reverse | function |
| dawson | function | split | function |
| dectointeger | function | splitlines | function |
| dump | function | splitup | function |
| erf | function | strip | function |
| erfc | function | sub | function |
| erfcx | function | texhashed | function |
| erfi | function | texnewlines | function |
| escapedpattern | function | tformat | function |
| escapedquotes | function | toHEX | function |
| explode | function | toboolean | function |
| f6 | function | tobytes | function |
| find | function | tocontext | function |
| format | function | todec | function |
| formatter | function | todimen | function |
| formatters | function | tohex | function |
| fullstrip | function | tonodes | function |
| gmatch | function | topattern | function |
| gsub | function | totable | function |
| hextocharacters | function | tounicode16 | function |
| hextointeger | function | toutf | function |
| is_boolean | function | toutf32 | function |
| is_empty | function | toutf8 | function |
| itself | function | tracedchar | function |
| len | function | tracedchars | table |
| limit | function | unescapedquotes | function |
| linetable | function | unpack | function |

| | |
|---------------------------|----------|
| unquote | function |
| unquoted | function |
| upper | function |
| utf16toutf8 | function |
| utfcharacter | function |
| utfcharacters | function |
| utfcharacterstable | function |
| utflength | function |
| utfpadd | function |

| | |
|----------------------|----------|
| utfpadding | function |
| utfvalue | function |
| utfvalues | function |
| utfvaluetable | function |
| valid | function |
| voigt | function |
| voigt_hwhm | function |
| wordsplitter | function |

structures (context)

allocation

function

F last

blocks

table

F next

D collected

F prev

F define

F previous

F empty

F raw

F print

F record

F save

F reset

F select

F restart

F setstate

F restore

D states

F save

D tobesaved

F set

F uservariable

F setlevel

bookmarks

table

F setoffset

T extras

F setown

F get

F setstate

F mergesections

F setvalue

F register

T specials

F reset

F userpage

F tosections

F subs

F finalize

D tobesaved

F flatten

F value

F installhandler

F way

F merge

currentsectionnumber function

S method

descriptions table

F overload

documents table

F place

D data

F register

F initialize

F setopened

F preset

F setup

F reset

counters

table

floats table

F add

formulas table

F analyze

helpers table

F check

F analyze

D collected

F formulnumber

F compact

F merged

F converted

F page

F currentvalue

F pageofinternal

D data

F prefix

F define

F prefixlastpage

F first

F prefixpage

F get

F simplify

F title
 F touserdata
inserts table
 F attach
 D data
 F define
 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
 B autoreorder
 D cached
 D collected
 F discard
 F enhance
 T enhancers
 F external
 F filter
 F formulnumber
 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 realpage
 F reordered
 T result
 F savedlistnumber
 F savedlistprefixednumber
 F savedlisttitle
 D sectionblocks
 F sectionnumber
 F size
 F title
 D tobесaved
 F use
 F userdata
 F uservalue
marks table
 F number
 F title
notes table
 F check_spacing
 F checkpagechange
 F define
 F doifonsamepageasprevious
 F get
 F getdeltapage
 F getinternal
 F getn
 F getstate
 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
pages table

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 table

F analyze
F checked
F checkedfile
F checkedfileorurl
F checkedprogram
F checkedrealpage
F checkedurl
D collected
U componentsplitter
F currentmetadata
F currentorder
D currentset
F define
D defined
D derived
F enhance
D executers
F export
T files
 T data
 F define
 F found

F get
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
T programs
 T data
 F define
 F get
F realpageofpage
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
- T testrunners
 - F inner
 - F special
 - F special operation
 - F special operation with arguments

T testspecials

- F deltapage
- F i
- F internal
- F page
- F realpage
- F section
- F userpage

D tobereferred

D tobesaved

D tracedpages

T urls

- T data
 - F define
 - F found
 - F get
 - F untex

D usedinternals

D usedviews

F valid

registers

table

- 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
- F prepare
- F process
- F setmethod
- F sort
- F store
- D tobesaved
- F tweak
- F unique
- F use
- F userdata

sections

table

- F autodepth
- F cct
- D collected
- F current
- F currentblock
- F currentid
- F currentlevel
- F currentsectionindex
- F depthnumber
- F finddata
- F findnumber
- F fullnumber
- F getcurrentlevel
- F getlevel
- F getnumber
- F internalreference
- D levelmap
- D levels
- F matchingtilldepth
- F numberatdepth
- F numbers
- F popblock
- F prefixedconverted

F pushblock
 F register
 D registered
 F reportstructure
 F save
 T sectionblockdata
 T bodypart
 S bookmark
 F set
 F setblock
 F setchecker
 F setentry
 F setinitialblock
 F setlevel
 F setnumber
 F showstructure
 F structuredata
 F title
 D tobesaved
 F typesetnumber
 F userdata
 B verbose

sets table

F define
 F get
 F getall
 D setlist

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 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 resetshown
 F resetused
 F sort
 F synonym
 D tobesaved

tags table

T backend
 T checks
 F marginanchor
 F margintext
 F math
 F mrow
 F mtable
 T destinationhash
 T extras
 F adddestination
 F addimplicit
 F addinternal
 F addreference
 F combination
 F combinationpair
 F delimitedsymbol
 F description
 F descriptionsymbol
 F document
 F float
 F formulacontent
 F image
 F item
 F itemgroup
 F link
 F listitem
 F mmultiscripts
 F mover
 F msub

| | |
|---------------------|---------------------------|
| F msubsup | F initializeexport |
| F msup | D labels |
| F munder | F last |
| F munderover | F lastinchain |
| F paragraph | F localexport |
| F publication | F locatedtag |
| F reference | D overloads |
| F registerlocation | T patterns |
| F registerpages | U splitter |
| F registerseparator | F pop |
| F section | D properties |
| F sorting | F push |
| F subsentencesymbol | F registerextradata |
| F synonym | F registermetadata |
| F tablecell | F restart |
| F tabulate | F setaspect |
| F tabulatecell | F setattributefield |
| T finalizers | F setcodepoint |
| F descriptions | F setcombination |
| T fixes | F setcombinationpair |
| F linenumbers | F setconstruct |
| F fontfaced | F setfigure |
| T listdata | F setfloat |
| T referencehash | F setformulacontent |
| F setattribute | F sethighlight |
| F tofontface | F setitem |
| T usedimages | F setitemgroup |
| T image | F setlist |
| T usedstyles | F setnotation |
| T construct | F setnotationsymbol |
| T highlight | F setparagraph |
| F current | F setproperty |
| F elementtag | F setpublication |
| F enabled | F setregister |
| F exportbox | F setsorting |
| F finishexport | F setsynonym |
| F getextradata | F settablecell |
| F getid | F settabulatecell |
| F getitemgroup | F settagdelimitedsymbol |
| F getmetadata | F settagsubsentencesymbol |
| F gettablecell | F setupexport |
| F gettabulatecell | F setuserproperties |
| F handler | D specifications |
| T ignored | F start |

F stop

T usewithcare

F strip

D taglist

table (basic lua)

| | | | |
|------------------------|----------|-----------------------------|----------|
| allkeys | function | orderedhash | function |
| append | function | pack | function |
| are_equal | function | prepend | function |
| collapsed | function | print | function |
| collapsedhash | function | remove | function |
| combine | function | reverse | function |
| compact | function | reversed | function |
| concat | function | save | function |
| contains | function | sequenced | function |
| copy | function | serialize | function |
| count | function | setmetatablecall | function |
| create | function | setmetatableindex | function |
| derive | function | setmetatableindices | function |
| deserialize | function | setmetatablekey | function |
| drop | function | setmetatablenewindex | function |
| fastcopy | function | sort | function |
| fastserialize | function | sorted | function |
| filtered | function | sortedhash | function |
| flattened | function | sortedhashkeys | function |
| fromhash | function | sortedhashonly | function |
| getmetatablekey | function | sortedindexonly | function |
| getn | function | sortedkeys | function |
| has_one_entry | function | sortedpairs | function |
| hashed | function | sparse | function |
| identical | function | strip | function |
| imerge | function | sub | function |
| merged | function | swapped | function |
| insert | function | tocontext | function |
| is_empty | function | tocsv | function |
| is_simple_table | function | tofile | function |
| keys | function | tohandle | function |
| load | function | tohash | function |
| loweredkeys | function | toxml | function |
| makewweak | function | twowaymapper | function |
| merge | function | unique | function |
| merged | function | unnest | function |
| mirrored | function | unpack | function |
| move | function | values | function |
| ordered | function | | |

tex (basic tex)

| | | | |
|--------------------------------|------------|------------------------------------|------------|
| amcode | table | expandasvalue | function |
| attribute | table | experiments | data table |
| automigrationcodes | data table | extraprimitives | function |
| autoparagraphcodes | data table | fatalerror | function |
| badness | function | fillcodes | data table |
| boundaries | table | flagcodes | data table |
| D names | | fontidentifier | function |
| D numbers | | fontname | function |
| F system | | forcehmode | function |
| box | table | forceinputstatefile | function |
| boxresources | table | forceinputstateline | function |
| F getbox | | fprint | function |
| F getdimensions | | frozenparcodes | data table |
| F save | | get | function |
| F use | | getalignmentcontextvalues | function |
| breakcodes | data table | getamcode | function |
| buildcodes | data table | getappendlinecontextvalues | function |
| catcode | table | getattribute | function |
| cccode | table | getautomigrationvalues | function |
| charactercontrolcodes | data table | getautoparagraphvalues | function |
| charactertagcodes | data table | getbox | function |
| chardef | function | getboxdir | function |
| classoptioncodes | data table | getboxresourcebox | function |
| codes | table | getboxresourcedimensions | function |
| conditionals | data table | getbreakcontextvalues | function |
| constants | data table | getbuildcontextvalues | function |
| count | table | getcardinalvalue | function |
| cprint | function | getcatcode | function |
| ctdcatcodes | number | getcccode | function |
| ctxcatcodes | number | getcharactercontrolvalues | function |
| definefont | function | getcharactertagvalues | function |
| delcode | table | getcount | function |
| dimen | table | getdelcode | function |
| dimensiondef | function | getdelcodes | function |
| directioncodes | data table | getdimen | function |
| directives | data table | getdimensionvalue | function |
| discoptioncodes | data table | getdirectionvalues | function |
| dontcomplain | function | getdiscoptionvalues | function |
| doublescriptoptioncodes | data table | getdiscstatevalues | function |
| enableprimitives | function | getdoublescriptoptionvalues | function |
| error | function | geterrorvalues | function |

| | | | |
|--------------------------------------|----------|--|----------|
| <code>getfillvalues</code> | function | <code>getmath</code> | function |
| <code>getflagvalues</code> | function | <code>getmathclassoptionvalues</code> | function |
| <code>getfloat</code> | function | <code>getmathcode</code> | function |
| <code>getfontoffamily</code> | function | <code>getmathcodes</code> | function |
| <code>getfrozenparvalues</code> | function | <code>getmathcontrolvalues</code> | function |
| <code>getglue</code> | function | <code>getmathdir</code> | function |
| <code>getglueoptionvalues</code> | function | <code>getmathgluevalues</code> | function |
| <code>getglyphdata</code> | function | <code>getmathoptionvalues</code> | function |
| <code>getglyphoptionvalues</code> | function | <code>getmathparametervalues</code> | function |
| <code>getglyphscales</code> | function | <code>getmathscriptordervalue</code> | function |
| <code>getglyphscript</code> | function | <code>getmathscriptmodevalues</code> | function |
| <code>getglyphstate</code> | function | <code>getmathstylenamevalues</code> | function |
| <code>getgroupvalues</code> | function | <code>getmathstylevalues</code> | function |
| <code>gethccode</code> | function | <code>getmathstylevariant</code> | function |
| <code>gethelptext</code> | function | <code>getmathsurroundvalues</code> | function |
| <code>gethmcodes</code> | function | <code>getmathvariantpresets</code> | function |
| <code>gethyphenationvalues</code> | function | <code>getmathvariantvalues</code> | function |
| <code>getiftypes</code> | function | <code>getmeasure</code> | function |
| <code>getinputstatefile</code> | function | <code>getmode</code> | function |
| <code>getinputstateline</code> | function | <code>getmodevalues</code> | function |
| <code>getinputstatemode</code> | function | <code>getmuglue</code> | function |
| <code>getinsertcontent</code> | function | <code>getmuskip</code> | function |
| <code>getinsertdepth</code> | function | <code>getnest</code> | function |
| <code>getinsertdistance</code> | function | <code>getnestlevel</code> | function |
| <code>getinsertheight</code> | function | <code>getnoadoptionvalues</code> | function |
| <code>getinsertlimit</code> | function | <code>getnormalizelinevalues</code> | function |
| <code>getinsertmultiplier</code> | function | <code>getnormalizeparvalues</code> | function |
| <code>getinsertwidth</code> | function | <code>getoutputactive</code> | function |
| <code>getintegervalue</code> | function | <code>getpacktypevalues</code> | function |
| <code>getinteraction</code> | function | <code>getpagecontextvalues</code> | function |
| <code>getinteractionmodes</code> | function | <code>getpagestate</code> | function |
| <code>getiovalues</code> | function | <code>getparametermodevalues</code> | function |
| <code>getkerneloptionvalues</code> | function | <code>getparcontextvalues</code> | function |
| <code>getlargestusedmark</code> | function | <code>getpardir</code> | function |
| <code>getlccode</code> | function | <code>getparmodevalues</code> | function |
| <code>getlinebreakstatevalues</code> | function | <code>getparstate</code> | function |
| <code>getlinedir</code> | function | <code>getpartriggervalue</code> | function |
| <code>getlist</code> | function | <code>getpenaltyoptionvalues</code> | function |
| <code>getlistanchorvalues</code> | function | <code>getpositvalue</code> | function |
| <code>getlistgeometryvalues</code> | function | <code>getprepoststatevalues</code> | function |
| <code>getlistsignvalues</code> | function | <code>getprimitiveorigins</code> | function |
| <code>getlocalbox</code> | function | <code>getprotrusionboundaryvalues</code> | function |
| <code>getlocallevel</code> | function | <code>getregisterindex</code> | function |
| <code>getmark</code> | function | <code>getruleoptionvalues</code> | function |

| | |
|-------------------------------------|------------|
| getrunstatevalues | function |
| getsfcode | function |
| getshapingpenaltiesvalues | function |
| getskip | function |
| getspecialmathclassvalues | function |
| getspecificationoptionvalues | function |
| gettextcontrolvalues | function |
| gettextdir | function |
| gettoks | function |
| getuocode | function |
| getunitclassvalues | function |
| glue | table |
| glueoptioncodes | data table |
| glyphoptioncodes | data table |
| groupcodes | data table |
| hashtokens | function |
| hccode | table |
| hmcode | table |
| hshcatcodes | number |
| hyphenationcodes | data table |
| ifs | data table |
| inimatcodes | number |
| integerdef | function |
| interactioncodes | data table |
| isattribute | function |
| isbox | function |
| iscount | function |
| isdefined | function |
| isdimen | function |
| isfloat | function |
| isglue | function |
| ismuglue | function |
| ismuskip | function |
| isprintable | function |
| isskip | function |
| istoks | function |
| lastnodetype | function |
| lccode | table |
| linebreak | function |
| linebreakstatecodes | data table |
| listanchorcodes | data table |
| listgeometrycodes | data table |
| lists | table |
| listsigncodes | data table |

luacatcodes

magicconstants

| |
|-----------------------------|
| N assumedmathcontrol |
| N awfulbad |
| N decentcriterion |
| N defaultcatcodetable |
| N defaultcharactercontrol |
| N defaultdeadcycles |
| N defaulteqnogapstep |
| N defaulthangafter |
| N defaultoutputbox |
| N defaultpredisplaygap |
| N defaulttrule |
| N defaultspacefactor |
| N defaulttolerance |
| N deplorable |
| N ejectpenalty |
| N ignoredepth |
| N infinitebad |
| N infinitepenalty |
| N infinity |
| N largewidthexcess |
| N loosecriterion |
| N mathallclass |
| N mathbeginclass |
| N mathdefaultpenalty |
| N mathendclass |
| N mathfirstuserclass |
| N mathlastuserclass |
| N maxattributeregisterindex |
| N maxboxregisterindex |
| N maxbytecodeindex |
| N maxcalculatedbadness |
| N maxcardinal |
| N maxcategorycode |
| N maxcharactercode |
| N maxdatavalue |
| N maxdimen |
| N maxdimenregisterindex |
| N maxdimension |
| N maxdimensionregisterindex |
| N maxendlinecharacter |
| N maxfloatregisterindex |
| N maxfontadjustshrinkfactor |

number
table

| | | |
|------------------------------|-----------------------------|------------|
| N maxfontadjuststep | N presetrulethickness | |
| N maxfontadjuststretchfactor | N runningrule | |
| N maxfunctionreference | N smallstretchability | |
| N maxglueregisterindex | N specialspacefactor | |
| N maxhalfvalue | N texeqtbsize | |
| N maxhalfword | N texhashprime | |
| N maxinteger | N texhashsize | |
| N maxintegerregisterindex | N two | |
| N maxintregisterindex | N undefinedmathparameter | |
| N maxlimitedscale | N unity | |
| N maxmarkindex | N unusedattributevalue | |
| N maxmathclasscode | N unusedmathfamily | |
| N maxmathfamilyindex | N unusedmathstyle | |
| N maxmathscalingfactor | N unusedscriptvalue | |
| N maxmathstylescale | N unusedstatevalue | |
| N maxmuglueregisterindex | N zeroglu | |
| N maxnewlinecharacter | mathchardef | function |
| N maxnofbytecodes | mathcode | table |
| N maxnofcatcodetables | mathcontrolcodes | data table |
| N maxnoffonts | mathoptioncodes | data table |
| N maxnoflanguages | mathparametercodes | data table |
| N maxnofmarks | mathscriptordercodes | data table |
| N maxnofmathfamilies | mathscriptsmodecodes | data table |
| N maxquarterword | modelevels | table |
| N maxscalefactor | N horizontal | |
| N maxsizeofword | N math | |
| N maxspacefactor | N unset | |
| N maxtoksregisterindex | N vertical | |
| N maxtwinlength | modes | data table |
| N mincardinal | mprint | function |
| N mindatavalue | muglue | table |
| N mindimen | muskip | table |
| N mindimension | nest | table |
| N minhalfword | nilcatcodes | number |
| N mininfinity | noadoptioncodes | data table |
| N mininteger | normalizelinecodes | data table |
| N minquarterword | normalizeparcodes | data table |
| N minscalefactor | notcatcodes | number |
| N minspacefactor | number | function |
| N nocatcodetable | parcontextcodes | data table |
| N null | partriggercodes | data table |
| N nullflag | penaltyoptioncodes | data table |
| N nullfont | poplocal | function |
| N onebp | popsavelevel | function |

| | | | |
|--------------------------------|------------|---------------------------------|---------------------|
| posit | table | setinputstatemode | function |
| positdef | function | setinsertcontent | function |
| preparelinebreak | function | setinsertdistance | function |
| primitives | function | setinsertlimit | function |
| print | function | setinsertmultiplier | function |
| protrusionboundarycodes | data table | setintegervalue | function |
| prtcategories | number | setinteraction | function |
| pushlocal | function | setlccode | function |
| pushsavelevel | function | setlinedir | function |
| quitlocal | function | setlist | function |
| quittoks | function | setlocalbox | function |
| resetparagraph | function | setmath | function |
| rlncategories | number | setmathcode | function |
| romannumeral | function | setmathdir | function |
| round | function | setmuglue | function |
| ruleoptioncodes | data table | setmuskip | function |
| runlocal | function | setnest | function |
| runstring | function | setpardir | function |
| runtoks | function | setpositvalue | function |
| saveboxresource | function | setrunstate | overloaded function |
| scale | function | setsfcode | function |
| scantoks | function | setskip | function |
| set | function | settexitdir | function |
| setamcode | function | settoks | function |
| setattribute | function | setuccode | function |
| setbox | function | sfcode | table |
| setboxdir | function | shapingpenaltiescodes | data table |
| setcardinalvalue | function | shiftparshape | function |
| setcatcode | function | shipout | function |
| setcccode | function | showcontext | function |
| setconditional | function | skip | table |
| setcount | function | snapshotpar | function |
| setdelcode | function | sp | function |
| setdimen | function | specialmathclasscodes | data table |
| setdimensionvalue | function | specificationoptioncodes | data table |
| setfloat | function | splitbox | function |
| setglue | function | sprint | function |
| setglyphdata | function | stringtocodesbitmap | function |
| setglyphscript | function | systemmodes | data table |
| setglyphstate | function | takebox | function |
| sethccode | function | textcategories | number |
| sethcode | function | textcontrolcodes | data table |
| setinputstatefile | function | toks | table |
| setinputstateline | function | tonumber | function |

| | | | |
|-------------------------|------------|-----------------------------|------------|
| toscaled | function | uccode | table |
| tpacatcodes | number | uprint | function |
| tpbcacatcodes | number | useboxresource | function |
| tprint | function | userdiscoptioncodes | data table |
| trackers | data table | userglyphoptioncodes | data table |
| triggerbuildpage | function | vrbcacatcodes | number |
| txtcacatcodes | number | write | function |

texconfig (basic tex)

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

texio (basic tex)

closeinput function
forceendoffile function
getinputindex function
getsourcefilename function
setlogfile function
terminal function

write function
write_nl function
writeln function
writeselector function
writeselectorlf function
writeselectornl function

token (basic tex)

| | | | |
|-------------------------|----------|---------------------------|----------|
| create | function | getdimension | function |
| expand | function | getexpandable | function |
| expand_macro | function | getexpansion | function |
| expandmacro | function | getfields | function |
| future_expand | function | getflags | function |
| futureexpand | function | getfrozen | function |
| get_active | function | getfunctionvalues | function |
| get_cmdchrCs | function | getid | function |
| get_cmdname | function | getimmutable | function |
| get_command | function | getindex | function |
| get_csname | function | getinstance | function |
| get_cstoken | function | getinteger | function |
| get_dimension | function | getmacro | function |
| get_expandable | function | getmeaning | function |
| get_fields | function | getnoaligned | function |
| get_flags | function | getparameters | function |
| get_frozen | function | getpermanent | function |
| get_id | function | getprimitive | function |
| get_immutable | function | getprimitives | function |
| get_index | function | getprotected | function |
| get_instance | function | getrange | function |
| get_integer | function | gettok | function |
| get_macro | function | gettolerant | function |
| get_meaning | function | gobble | function |
| get_noaligned | function | gobble_dimen | function |
| get_parameters | function | gobble_integer | function |
| get_permanent | function | gobbledimen | function |
| get_primitive | function | gobbleinteger | function |
| get_protected | function | grab | function |
| get_range | function | is_defined | function |
| get_tok | function | is_next_char | function |
| get_tolerant | function | is_token | function |
| getactive | function | isdefined | function |
| getcmdchrCs | function | isnextchar | function |
| getcmdname | function | istoken | function |
| getcommand | function | locatemacro | function |
| getcommandid | function | new | function |
| getcommandvalues | function | peek_next | function |
| getconstant | function | peek_next_char | function |
| getcsname | function | peek_next_expanded | function |
| getcstoken | function | peeknext | function |

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

| | | | |
|----------------------|----------|---------------------------|----------|
| scanword | function | setlua | function |
| serialize | function | setmacro | function |
| set_char | function | skip_next | function |
| set_dimension | function | skip_next_expanded | function |
| set_integer | function | skipnext | function |
| set_lua | function | skipnextexpanded | function |
| set_macro | function | type | function |
| setchar | function | undefine_macro | function |
| setdimension | function | undefinemacro | function |
| setinteger | function | | |

tokens (context)

accessors table

F active
F cmd
F cmdchrsc
F cmdname
F command
F csname
F expandable
F frozen
F index
F name
F protected
F range

astable function

bits table

N active
N alignment
N begingroup
N character
N cclose
N comment
N endgroup
N endofline
N escape
N ignore
N invalid
N letter
N mathshift
N open
N other
N parameter
N space
N subscript
N superscript
N whitespace

cache data table

commands data table

compile function

constant function

converters table

S toboolean

S todimen

S toglue

S tonumber

S tostring

create function

defined function

flags function

getinteger function

getters table

F box

F count

F cstoken

F dimen

F glue

F macro

F meaning

F skip

F token

gobble function

isdefined function

istoken function

new function

pickup function

popmacro function

presets table

T 1 argument

T 1 integer

T 1 optional

T 1 string

T 2 arguments

T 2 integers

T 2 optionals

T 2 strings

T 3 arguments

T 3 integers

T 3 optionals

T 3 strings

T 4 arguments

T 4 integers

T 4 optionals

T 4 strings

T 5 strings
 T 6 strings
 T 7 strings
 T 8 strings
pushmacro function
scanners table
 F argument
 F argumentasis
 F array
 F boolean
 F box
 F bracketed
 F bracketedasis
 F cardinal
 F char
 F cmdchr
 F cmdchrexplanded
 F code
 F conditional
 F count
 F csname
 F csnameunchecked
 F delimited
 F detokened
 F dimen
 F dimenargument
 F dimension
 F float
 F glue
 F gluespec
 F gluevalues
 F hash
 F hbox
 F integer
 F integerargument
 F ischar
 F key
 F keyword
 F keywordcs
 F letters
 F list
 F lua
 F luacardinal
 F luainteger

F luanumber
 F lxmldid
 F next
 F nextchar
 F nextexpanded
 F number
 F optional
 F peek
 F peekchar
 F peekexpanded
 F posit
 F real
 F scanclose
 F scanopen
 F skip
 F skipexpanded
 F string
 F table
 F token
 F tokencode
 F tokenlist
 F tokens
 F tokenstring
 F toks
 F value
 F vbox
 F verbatim
 F vtop
 F whd
 F word

setinteger function
setters table

F box
 F char
 F count
 F dimen
 F glue
 F lua
 F macro
 F skip

shortcuts table

T bits
 N active
 N alignment

| | |
|---------------|---------------------|
| N begingroup | F band |
| N character | F bor |
| N close | F bxor |
| N comment | F ceil |
| N endgroup | F conj |
| N endofline | F copy |
| N escape | F cos |
| N ignore | F exp |
| N invalid | F exp2 |
| N letter | F floor |
| N mathshift | F fromposit |
| N open | F integer |
| N other | F log |
| N parameter | F log10 |
| N space | F log1p |
| N subscript | F log2 |
| N superscript | F logb |
| N whitespace | F max |
| N close | F min |
| F inspect | F modf |
| N open | F new |
| T posit | F pow |
| F NaN | F rotate |
| F NaR | F round |
| F __add | F rounded |
| F __band | F shift |
| F __bor | F sin |
| F __bxor | F sqrt |
| F __div | F tan |
| F __eq | F tonumber |
| F __le | F toposit |
| F __lt | F tostring |
| F __mul | F report |
| S __name | F scanargument |
| F __pow | F scanargumentasis |
| F __shl | F scanarray |
| F __shr | F scanboolean |
| F __sub | F scanbox |
| F __tostring | F scanbracketed |
| F __unm | F scanbracketedasis |
| F abs | F scancardinal |
| F acos | F scanclose |
| F asin | F scancode |
| F atan | F scanconditional |

| | |
|-----------------------|-------------------|
| F scancsname | F gluespec |
| F scancsnameunchecked | F gluevalues |
| F scandelimited | F hash |
| F scandetokened | F hbox |
| F scandimen | F integer |
| F scandimenargument | F integerargument |
| F scandimension | F ischar |
| F scanfloat | F key |
| F scanglue | F keyword |
| F scangluespec | F keywordcs |
| F scangluevalues | F letters |
| F scanhash | F list |
| F scanhbox | F lua |
| F scaninteger | F luacardinal |
| F scanintegerargument | F luainteger |
| F scankeyword | F luanumber |
| F scankeywordcs | F lxmlid |
| F scanletters | F next |
| F scanlist | F nextchar |
| F scanlua | 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 cmdchrexploded | 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 dimenargument | F vbox |
| F dimension | F verbatim |
| F float | F vtop |
| F glue | F whd |

| | |
|-------------------|---------------------|
| F word | F getinteger |
| F scannumber | T getters |
| F scanopen | F box |
| F scanoptional | F count |
| F scanposit | F ctoken |
| F scanstring | F dimen |
| F scantable | F glue |
| F scantokenlist | F macro |
| F scantokenstring | F meaning |
| F scantoks | F skip |
| F scanvbox | F token |
| F scanverbatim | F gobble |
| F scanvtop | F isdefined |
| F scanword | F istoken |
| F toboolean | F new |
| F todimen | F pickup |
| T tokens | F popmacro |
| T accessors | T presets |
| F active | F pushmacro |
| F cmd | F setinteger |
| F cmdchrsc | T setters |
| F cmdname | F box |
| F command | F char |
| F csname | F count |
| F expandable | F dimen |
| F frozen | F glue |
| F index | F lua |
| F name | F macro |
| F protected | F skip |
| F range | T shortcuts |
| F astable | N close |
| D cache | F inspect |
| D commands | N open |
| F compile | F report |
| F constant | F scanargument |
| T converters | F scanargumentasis |
| S toboolean | F scanarray |
| S todimen | F scanboolean |
| S toglue | F scanbox |
| S tonumber | F scanbracketed |
| S tostring | F scanbracketedasis |
| F create | F scancardinal |
| F defined | F scanclose |
| F flags | F scancode |

F scanconditional
F scancsname
F scancsnameunchecked
F scandelimited
F scandetokened
F scandimen
F scandimenargument
F scandimension
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
D values
F tonumber
F tostring
values data table

tracers (context)

printerror function
printwarning function

showlines function

trackers (context)

| | | | |
|-----------------------|------------|-----------------|----------|
| data | data table | register | function |
| default | function | report | function |
| disable | function | reset | function |
| done | table | savehash | function |
| dumphashtofile | function | show | function |
| enable | function | value | function |
| list | function | values | function |
| name | string | | |

typesetters (context)

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

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

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 | | T hashes |
| F tojson | | T settings_to_list |
| F tolua | | T tablet |
| F tostring | | T settings_to_set |
| lua | table | T min,max,fit,broad,auto |
| B alwaysstripcode | | B auto |
| F checkmemory | | B broad |
| F compile | | B fit |
| F loadedluacode | | B max |
| F loadstring | | B min |
| F loadstripped | | T text,hidden,paper,page,leftpage,rightpage |
| N nofstrippedbytes | | B hidden |
| N nofstrippedchunks | | B leftpage |
| F registerfinalizer | | B page |
| 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 |
| packers | table | 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 |
| parsers | table | 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 |

| | | | |
|------------------------------|-------|---------------------|-------|
| F splitmethod | | F list | |
| F splitthousands | | F new | |
| F stepper | | F register | |
| F stripped_settings_to_array | | F report | |
| F totime | | F reset | |
| F unittotex | | F show | |
| F unittoxml | | stacker | table |
| randomizer | table | F new | |
| F get | | storage | table |
| F getnumber | | F allocate | |
| F getrepeatable | | F checked | |
| F getrepeatableseed | | F mark | |
| F getseed | | F marked | |
| F newrepeatable | | F setinitializer | |
| F popseed | | F sparse | |
| F pushseed | | streams | table |
| F repeatable | | F close | |
| F reuseseed | | F getposition | |
| F setseed | | F getsize | |
| F setseedi | | F getstring | |
| randomizers | table | F look | |
| F poisson | | F open | |
| sequencers | table | F openstring | |
| F appendaction | | F read2dot14 | |
| F appendgroup | | F readbyte | |
| F compile | | F readbytes | |
| F disableaction | | F readbytetable | |
| F disablegroup | | F readcardinal | |
| F enableaction | | F readcardinal1 | |
| F enablegroup | | F readcardinal1le | |
| D functions | | F readcardinal2 | |
| F localize | | F readcardinal2le | |
| F new | | F readcardinal3 | |
| F nodeprocessor | | F readcardinal3le | |
| F prependaction | | F readcardinal4 | |
| F prependgroup | | F readcardinal4le | |
| F removeaction | | F readcardinaltable | |
| F replaceaction | | F readchar | |
| F setkind | | F readcline | |
| F toString | | F readcstring | |
| setters | table | F readfixed2 | |
| F disable | | F readfixed4 | |
| F enable | | F readinteger | |
| F initialize | | F readinteger1 | |

F readinteger1le
 F readinteger2
 F readinteger2le
 F readinteger3
 F readinteger3le
 F readinteger4
 F readinteger4le
 F readintegertable
 F readsignedbyte
 F readstring
 F setposition
 F size
 F skip
 F skipbytes
 F skiplong
 F skipshort
 F tocardinal1
 F tocardinal1le
 F tocardinal2
 F tocardinal2le
 F tocardinal3
 F tocardinal3le
 F tocardinal4
 F tocardinal4le

strings table

F collapse
 F collapseCrLf
 T formatters
 F add
 F new
 F newcollector
 F newrepeater
 F nice
 T striplinepatterns
 U collapse
 U collapse all
 U prune
 U prune and collapse
 U prune and no empty
 U prune and to space
 U retain
 U retain and collapse
 U retain and no empty
 F striplines

F striplong
 F tabtospace
 T tracers

tables table

F accesstable
 F definedtable
 F definetable
 F encapsulate
 F insertaftervalue
 F insertbeforevalue
 F migratetable
 F removevalue
 F replacevalue

tar table

T archives
 F closearchive
 T files
 F fetch
 F hash
 F list
 F pack
 F unpack
 F openarchive
 T registeredfiles

T streams
 F fetch
 F hash
 F list
 F pack
 F unpack
 T strings
 F fetch
 F hash
 F list
 F pack
 F unpack

templates table

F load
 F replace
 F replacer
 F resolve

zipfiles table

F close
 F found

F hash

F unzip

F list

F unzipdir

F open

F zipdir

visualizers (context)

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

xcomplex (extra lua)

| | | | |
|-------------------|----------|-----------------|----------|
| I | function | cos | function |
| __add | function | cosh | function |
| __div | function | exp | function |
| __eq | function | i | function |
| __mul | function | imag | function |
| __name | string | log | function |
| __pow | function | new | function |
| __sub | function | pow | function |
| __tostring | function | proj | function |
| __unm | function | real | function |
| abs | function | sin | function |
| acos | function | sinh | function |
| acosh | function | sqrt | function |
| arg | function | tan | function |
| asin | function | tanh | function |
| asinh | function | topair | function |
| atan | function | tostring | function |
| atanh | function | totable | function |
| conj | function | | |

xdecimal (extra lua)

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

xmath (extra lua)

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

xml (context)

| | | | |
|---------------------------|----------|------------------------|------------|
| addentitiesdoctype | function | F family | |
| addspecialcode | function | F fontspecification | |
| after | function | F mappedstylevalue | |
| all | function | F padding | |
| applylpath | function | F size | |
| applyselector | function | F style | |
| assign | function | F stylevalue | |
| attribute | function | F todimension | |
| badinclusions | function | F variant | |
| before | function | F weight | |
| body | function | defaulthandlers | table |
| builtinentities | 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 | | | |
| CDATA | function | defaultprotocol | string |
| CDATATOTEXT | function | delete | function |
| checkbom | function | delete_element | function |
| checkedempty | function | despecialized | function |
| checkerror | function | each | function |
| checknamespace | function | each_element | function |
| checkns | function | elements | function |
| cleansed | function | elementtocdata | function |
| collect | function | empty | function |
| collect_elements | function | entities | data table |
| collect_tags | function | erase | function |
| collect_texts | function | errorhandler | function |
| collected | function | escaped | function |
| collecttexts | function | expand | function |
| compactelement | function | expressions | table |
| content | function | F attribute | |
| convert | function | F boolean | |
| copy | function | F child | |
| count | function | F contains | |
| cprint | function | F count | |
| CSS | table | F error | |
| F applyselector | | F find | |
| F colorspecification | | F hasclass | |
| F dimension | | | |

| | | |
|-------------------|----------|-------------------------------------|
| 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 |
| fillin | function | F cdata |
| filter | function | F chainattribute |
| finalizers | table | F count |
| F paragraphs | | F default |
| T tex | | F elements |
| F all | | F empty |
| F attribute | | F first |
| F chainattribute | | F function |
| F chainpath | | F index |
| F collapsed | | F last |
| F command | | F lowerall |
| F concat | | F match |
| F concatrange | | F name |
| F context | | F position |
| F count | | F reverse |
| F ctxtext | | F table |
| F default | | F tag |
| F depth | | F tags |
| F first | | F text |
| F function | | F texts |
| F index | | F tomacro |
| F last | | F upperall |
| F lettered | | F url |
| F lower | | first function |
| F lowerall | | found function |
| F match | | functions table |
| F name | | F classes |
| F param | | F hasclass |
| F parameter | | getbuffer function |
| F position | | gethandlers function |
| F reverse | | gethandlersfunction function |
| F stripped | | helpers table |
| F tag | | F recursetext |

| | | | |
|------------------------------|----------|----------------------|-------------------------------------|
| include | function | F tex | |
| inclusion | function | | placeholders table |
| inclusions | function | F unknown_any_entity | |
| index | function | F unknown_dec_entity | |
| inheritattributes | function | F unknown_hex_entity | |
| inheritedconvert | function | | popmatch function |
| inject | function | | position function |
| inject_element | function | | privatecodes data table |
| inject_element_after | function | | privatetoken function |
| inject_element_before | function | | process function |
| injectafter | function | | process_attributes function |
| injectbefore | function | | process_elements function |
| insert | function | | processattributes function |
| insert_element | function | | profiled table |
| insert_element_after | function | | pure function |
| insert_element_before | function | | pushmatch function |
| insertafter | function | | raw function |
| insertbefore | function | | registerentity function |
| insertcdata | function | | registerns function |
| insertcomment | function | | reindex function |
| inspect | function | | remap_name function |
| is_valid | function | | remap_namespace function |
| kind | function | | remap_tag function |
| last | function | | remapname function |
| lastmatch | function | | remapnamespace function |
| load | function | | remaptag function |
| lpath | function | | rename function |
| lpathcached | function | | renamespace function |
| lpathcalls | function | | reparsedentitylpeg userdata |
| lshow | function | | replace function |
| makestandalone | function | | replace_element function |
| match | function | | resetinjectors function |
| mml | table | | resolvns function |
| F stripped | | | root function |
| F verbose | | | save function |
| name | function | | selection function |
| newhandlers | function | | separate function |
| nodesettostring | function | | serialize function |
| originalload | function | | serializetotext function |
| package | function | | setcdata function |
| parent | function | | setcomment function |
| parsedentitylpeg | userdata | | sethandlersfunction function |
| pihandlers | table | | setinjectors function |
| F injector | | | setproperty function |

| | | | |
|---------------------------|------------|----------------------------|----------|
| settings | function | tostring | function |
| specialcodes | data table | totable | function |
| specialhandler | table | toxml | function |
| sprint | function | tprint | function |
| string | function | traverse | function |
| strip | function | unescaped | function |
| strip_whitespace | function | unescapedentitylpeg | userdata |
| stripelement | function | unprivatized | function |
| stripleadingspaces | function | unspecialized | function |
| table | function | wipe | function |
| text | function | withelement | function |
| textonly | function | withelements | function |
| texttocdata | function | wrap | function |
| tocdata | function | xmlns | table |
| toelement | function | | |

xzip (extra lua)

adler32 function
compress function
compresssize function

crc32 function
decompress function
decompresssize 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