

MP attributes backends **bit32** blobs boolean
buffers builders caches **callback** callbacks
catcodes characters chemistry commands
containers context converters **coroutine**
ctxrunner **debug** dir dircodes directives
document documentdata drivers environment
experiments ffi figures **file** **fio** floats **font**
fonts functions global graphics **gzip** images
img interactions interfaces **io** job **lang**
languages layouts **lfs** libraries lmx logs lpdf
lpeg **ltn12** **lua** luatex lxml **math** mathematics
md5 metapost **mime** moduledata modules mp **mplib**
noads **node** nodes number objects **os** **package**
pagebuilders parametersets **pdf** **pdfe** pdfscanner
physics publications regimes resolvers sandbox
scripts set sha2 sio **socket** sorters statistics
status storage streams **string** structures **table**
tex texconditionals **texconfig** texconstants
texifs **texio** texitdefined texmodes
texsystemmodes thirddata **token** tokens tracers
trackers typesetters updaters url userdata
utf8 utilities vf visualizers xml **zip** **zlib**

ConT_EXt MkIV

global (alias: _G)

| | | | |
|----------------------------|------------|----------------------------|----------|
| CONTEXTLMTXMODE | number | document | table |
| FFISUPPORTED | function | documentdata | table |
| INITEXMODE | boolean | dofile | function |
| LUAMAJORVERSION | number | drivers | table |
| LUAMINORVERSION | number | environment | table |
| LUATEXCOREVERSION | number | error | function |
| LUATEXENGINE | string | experiments | table |
| LUATEXFORMATID | number | ffi | table |
| LUATEXFUNCTIONALITY | number | ffilib | function |
| LUATEXVERSION | number | figures | table |
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| MP | function | fio | table |
| arg | table | floats | table |
| assert | function | font | table |
| attributes | table | fonts | table |
| backends | table | functions | table |
| bit32 | table | getmetatable | function |
| blobs | table | getrpos | function |
| blockrequire | function | global | table |
| boolean | table | graphics | table |
| buffers | table | gregorian_to_jalali | function |
| builders | table | gzip | table |
| caches | table | images | table |
| callback | table | img | table |
| callbacks | table | inspect | function |
| catcodes | table | interactions | table |
| characters | table | interfaces | table |
| checkimage | function | io | table |
| chemistry | table | ipairs | function |
| collectgarbage | function | jalali_to_gregorian | function |
| commands | table | job | table |
| containers | table | lang | table |
| context | function | languages | table |
| converters | table | layouts | table |
| coroutine | table | lfs | table |
| ctxrunner | table | libraries | table |
| debug | table | lmx | table |
| dimen | function | load | function |
| dir | table | loadfile | function |
| dircodes | data table | loadstring | function |
| directives | table | logs | table |

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|-----------------|----------|-----------------|------------|
| lpdf | table | resolvers | table |
| lpeg | table | ruledspace | function |
| ltn12 | table | sandbox | table |
| lua | table | scripts | table |
| luatex | table | select | function |
| lxml | table | set | table |
| math | table | setinspector | function |
| mathematics | table | setmetatable | function |
| md5 | table | sha2 | table |
| metapost | table | sio | table |
| mime | table | socket | table |
| module | function | sorters | table |
| moduledata | table | statistics | table |
| modules | table | status | table |
| mp | function | storage | table |
| mplib | table | streams | table |
| next | function | string | table |
| noads | table | structures | table |
| node | table | swiglib | function |
| nodes | table | table | table |
| number | table | tex | table |
| objects | table | texconditionals | data table |
| optionalrequire | function | texconfig | table |
| os | table | texconstants | data table |
| package | table | texifs | data table |
| pagebuilders | table | texio | table |
| pairs | function | texisdefined | data table |
| parametersets | table | texmodes | data table |
| pcall | function | texsystemmodes | data table |
| pdf | table | thirddata | table |
| pdfe | table | toboollean | function |
| pdfscanner | table | token | table |
| physics | table | tokens | table |
| print | function | tonumber | function |
| publications | table | tostring | function |
| rawequal | function | tracers | table |
| rawget | function | trackers | table |
| rawlen | function | type | function |
| rawset | function | typesetters | table |
| readarray | function | unpack | function |
| regimes | table | updaters | table |
| require | function | url | table |
| required | function | userdata | table |
| requireswiglib | function | utf | table |

| | | | |
|--------------------|--------|---------------|-----------------|
| utf8 | table | xml | table |
| utilities | table | xpcall | function |
| v | string | zip | table |
| vf | table | zlib | table |
| visualizers | table | | |

attributes (context)

applyoverloads 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 getpagecolormodel

F gray

F graytohsv

F handler

T helpers

F complement

F inbetween

F justone

F hsvtogray

F hsvtorgb

F iccprofile

F isblack

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

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 forcesupport | |
| define | function | F handler | |
| effects | table | T names | |
| N attribute | | N color | |
| D data | | N colorburn | |
| F enable | | N colordodge | |
| F handler | | N darken | |
| F register | | N difference | |
| D registered | | N exclusion | |
| D values | | N hardlight | |
| handlers | table | N hue | |
| list | data table | N lighten | |
| markasoverload | function | N luminosity | |
| names | data table | N multiply | |
| negatives | table | N none | |
| N attribute | | N normal | |
| D data | | N overlay | |
| F enable | | N saturation | |
| F handler | | N screen | |
| F register | | N softlight | |
| D registered | | N none | |
| F set | | F register | |
| numbers | data table | D registered | |
| ofnode | function | B supported | |
| private | function | F toattribute | |
| public | function | B triggering | |
| restore | function | F value | |
| save | function | D values | |
| showcurrent | function | unsetvalue | number |
| states | table | viewerlayers | table |
| F disabletriggering | | N attribute | |
| F enabletriggering | | F cleanup | |
| F finalize | | D data | |
| F initialize | | F define | |
| F process | | F definedlayoutcomponent | |
| F selective | | F enable | |
| F stacked | | F forcesupport | |
| F stacker | | F handler | |
| system | function | B hasorder | |
| tooverloads | function | D listwise | |
| transparencies | table | F register | |
| N attribute | | D registered | |
| D data | | F resolve_begin | |
| F enable | | F resolve_end | |

F resolve_reset

F resolve_step

D scopes

F setfeatures

F start

F stop

B supported

D values

backends (context)

codeinjections table

F boxresourcedimensions
F registerboxresource
F restoreboxresource

current string

defaults table

T codeinjections
F getpagedimensions
F getpageorigin
F lmtxmode
F setpagedimensions
F setpageorigin

T nodeinjections

T registrations

D tables

included table

B context
B date
B id
B metadata
B pdf

install function

nodeinjections table

noflatelua function

nothing function

pdf table

T codeinjections
F addbookmarks
F analyzenormalsymbol
F analyzesymbol
F attachmentid
F clonefield
F copyimage
F definefield
F definefieldset
F defineviewerlayer
F embedfile
F embedimage
F enabletags
F exportformdata
F fieldssurrounding

F flushmergelayer
F getbookmarks
F getdefaultfieldvalue
F getfieldcategory
F getfieldset
F getformatoption
F getidentityvariable
F getinfo
F getpreviewfigure
F insertrenderingwindow
F maptag
F mergebookmarks
F mergecomments
F mergefields
F mergereferences
F mergeviewerlayers
F newimage
F prerollreference
F presetsymbol
F presetsymbollist
F processrendering
F registerdocumentcloseaction
F registerdocumentopenaction
F registeredsymbol
F registerpagecloseaction
F registerpageopenaction
F registersymbol
F scanimage
F setfieldcalculationset
F setfigurealternative
F setfigurecolorspace
F setfiguremask
F setformat
F setformsmethod
F setpagetransition
F setupcanvas
F setupidentity
F setxmpfile
F startlayer
F startunicodetoactualtext
F startunicodetoactualtextdirect

| | | |
|---------------------------------|-------------------------|----------|
| F stoplayer | F negative | |
| F stopunicodetoactualtext | F overprint | |
| F stopunicodetoactualtextdirect | F positive | |
| F supportedformats | F reference | |
| F unicodetoactualtext | F rgbcolor | |
| F useviewerlayer | F spotcolor | |
| F validfield | F startlayer | |
| F validfieldcategory | F startstackedlayer | |
| F validfieldset | F stoplayer | |
| F wrapimage | F stopstackedlayer | |
| S comment | F transparency | |
| T nodeinjections | F typesetfield | |
| F addtags | T registrations | |
| F annotation | F cmykindexcolor | |
| F attachfile | F cmykspotcolor | |
| F changestackedlayer | F getspotcolorreference | |
| F cmykcolor | F grayindexcolor | |
| F comment | F grayspotcolor | |
| F destination | F rgbindexcolor | |
| F effect | F rgbspotcolor | |
| F graycolor | F spotcolorname | |
| F injectbitmap | F transparency | |
| F insertmovie | T tables | |
| F insertsound | D vfspecials | |
| F insertswf | registrations | table |
| F insertu3d | tables | table |
| F knockout | timestamp | function |

bit32 (basic lua)

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 | F define | |
| assign | function | F hassomecontent | |
| collectcontent | function | F next | |
| erase | function | F place | |
| exists | function | F reset | |
| get | function | F save | |
| getcontent | function | prepend | function |
| getline | function | raw | function |
| gettexbuffer | function | run | function |
| loadcontent | function | samplefile | function |
| parallel | table | undent | function |

builders (context)

| | | | |
|-----------------------|----------|-----------------------|-------|
| checksidefloat | function | F start | |
| kernel | table | F stop | |
| F hyphenating | | F tag | |
| F hyphenation | | profiling | table |
| F kerning | | F add | |
| F ligaturing | | F distance | |
| F mlist_to_hlist | | F fixedprofile | |
| paragraphs | table | F get | |
| T constructors | | F list | |
| N attribute | | F pagehandler | |
| F define | | F profilebox | |
| F disable | | F set | |
| F enable | | vspacing | table |
| F handler | | F analyze | |
| T methods | | D categories | |
| F basic | | F collapsevbox | |
| F default | | T data | |
| F hpack | | D map | |
| F oneline | | D skip | |
| D names | | D snapmethods | |
| D numbers | | F definesnapmethod | |
| F set | | B fixed | |
| F start | | F forcepageflush | |
| F stop | | F forcestrutdepth | |
| T expansion | | F getnofpreviouslines | |
| F trace | | F pagehandler | |
| F kepttogether | | F pageoverflow | |
| F registertogether | | F popatsame | |
| T solutions | | F pushatsame | |
| T splitters | | F setmap | |
| F define | | F setskip | |
| F optimize | | F snapbox | |
| T registered | | F synchronizepage | |
| F reset | | F tocategories | |
| F set | | F tocategory | |
| F split | | F vboxhandler | |

cache (context)

| | | | |
|-----------------------------|----------|-----------------------------|----------|
| ask | boolean | is_writable | function |
| base | string | loadcontent | function |
| collapsecontent | function | loaddata | function |
| configfiles | function | more | string |
| contentstate | function | relocate | boolean |
| defaults | table | savecontent | function |
| define | function | savedata | function |
| direct | boolean | setfirstwritablefile | function |
| force | boolean | setluanames | function |
| getfirstreadablefile | function | tree | string |
| getreadablepaths | function | treehash | function |
| getwritablepath | function | usedpaths | function |
| hashed | function | | |

callback (basic tex)

find function
list function

register overloaded function

callbacks (context)

freeze function

functions table

F process_rule

F start_page_number

F stop_page_number

known function

list data table

pop function

push function

register function

report function

supported table

B append_to_vlist_filter

B build_page_insert

B buildpage_filter

B call_edit

B contribute_filter

B define_font

B find_cidmap_file

B find_data_file

B find_enc_file

B find_font_file

B find_format_file

B find_image_file

B find_map_file

B find_opentype_file

B find_output_file

B find_pk_file

B find_read_file

B find_truetype_file

B find_type1_file

B find_vf_file

B find_write_file

B finish_pdfpage

B finish_pdfpage

B finish_synctex

B font_descriptor_objnum_provider

B glyph_info

B glyph_not_found

B glyph_stream_provider

B hpack_filter

B hpack_quality

B hyphenate

B insert_local_par

B kerning

B ligaturing

B linebreak_filter

B make_extensible

B mlist_to_hlist

B new_graf

B open_read_file

B page_order_index

B post_linebreak_filter

B pre_dump

B pre_linebreak_filter

B pre_output_filter

B process_input_buffer

B process_jobname

B process_output_buffer

B process_pdf_image_content

B process_rule

B provide_charproc_data

B read_cidmap_file

B read_data_file

B read_enc_file

B read_font_file

B read_map_file

B read_opentype_file

B read_pk_file

B read_truetype_file

B read_type1_file

B read_vf_file

B show_error_hook

B show_error_message

B show_lua_error_hook

B show_warning_message

B start_file

B start_page_number

B start_run

B stop_file

B stop_page_number

B stop_run

B vpack_filter
B vpack_quality

B wrapup_run

catcodes (context)

names data table

numbers data table

register function

characters (context)

| | | | |
|----------------------|------------|------------------------------|------------|
| activeoffset | number | T anudatta | |
| adobename | function | T before_half | |
| bidirectional | data table | T before_main | |
| blockrange | function | T before_postscript | |
| blocks | data table | T before_subscript | |
| casemap | table | T below_mark | |
| categories | data table | T consonant | |
| category | function | T dependent_vowel | |
| categorytags | data table | T halant | |
| classifiers | table | T independent_vowel | |
| collapsed | 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 | |
| detailltags | data table | initialize | function |
| directions | table | is_character | data table |
| emoji | table | is_command | data table |
| F compact | | is_letter | data table |
| F known | | is_mark | data table |
| F resolve | | is_punctuation | data table |
| emojized | function | is_spacing | data table |
| encodes | data table | is_symbol | data table |
| entities | data table | lcchars | data table |
| fallbacks | data table | lccode | function |
| filters | data table | lccodes | data table |
| fractions | table | lettered | function |
| fromnumber | function | lhash | data table |
| fschars | data table | linebreaks | data table |
| fscodes | data table | lower | function |
| getrange | function | mathlists | data table |
| graphemes | data table | mirrors | table |
| hangul | data table | otfscripts | data table |
| indicgroups | table | private | table |
| T above_mark | | ranges | data table |
| T after_half | | registerentities | function |
| T after_main | | remap_hangul_syllable | function |
| T after_postscript | | setactivecatcodes | function |
| T after_subscript | | setlettercatcodes | function |

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

chemistry (context)

| | |
|-----------------------|------------|
| component | function |
| define | function |
| definitions | data table |
| format | string |
| inlinechemical | function |
| instance | string |
| method | string |

| | |
|-----------------------|----------|
| molecule | function |
| moleculeparser | userdata |
| start | function |
| stop | function |
| structures | number |
| undefine | function |

containers (context)

cleannname function
content function
define function
is_usable function

is_valid function
read function
usecache boolean
write function

converters (context)

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

D data

F translate

weekday
word

function
function

words

function

coroutine (basic lua)

| | |
|--------------------|----------|
| create | function |
| isyieldable | function |
| resume | function |
| running | function |

| | |
|---------------|----------|
| status | function |
| wrap | function |
| yield | function |

ctxrunner (context)

| | | | |
|---------------------|----------|------------------|------------|
| load | function | prepfiles | data table |
| preparedfile | function | resolve | function |

dir (context)

| | |
|-----------------------|----------|
| collectpattern | function |
| current | 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 |

document (context)

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

documentdata (context)

variable function

drivers (context)

| | | | |
|-------------------|----------|-----------------------|----------|
| convert | function | F prepare | |
| converters | table | T flushers | |
| F engine | | S name | |
| enable | function | T none | |
| helpers | table | T actions | |
| F tomatrix | | T flushers | |
| install | function | S name | |
| instances | table | T pdf | |
| T default | | T actions | |
| T actions | | F convert | |
| F convert | | F outputfilename | |
| F outputfilename | | F prepare | |
| T flushers | | T flushers | |
| S name | | S name | |
| T empty | | lmtxversion | number |
| T actions | | outputfilename | function |
| F convert | | report | function |

environment (context)

| | | | |
|----------------------------|------------|-------------------------------|------------|
| argument | function | loadluafile | function |
| arguments | data table | luafile | function |
| basicengines | data table | luafilechunk | function |
| currentrun | number | luatexengine | string |
| default_texmfcnf | string | luatexfunctionality | number |
| definefilefallback | function | luatexversion | number |
| definefilesynonym | function | maxnofruns | number |
| engineflags | data table | originalarguments | data table |
| filename | string | outputfilename | string |
| filenames | table | ownbin | string |
| files | table | ownmain | string |
| filesynonyms | data table | ownname | string |
| forcedruns | number | ownpath | string |
| getargument | 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 |
| jobname | string | uselua module | function |
| kindofrun | number | usemodules | function |
| lmtxmode | number | validengines | data table |
| loadexamodes | function | version | string |

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 |

figures (context)

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

setorder
setpaths

function
function

suffixes
used

data table
data table

file (basic lua)

| | |
|--------------------------|----------|
| addsuffix | function |
| basename | function |
| checksum | function |
| collapsepath | function |
| copy | function |
| dirname | function |
| expandname | function |
| extname | function |
| is_qualified_path | function |
| is_readable | function |
| is_rootbased_path | function |
| is_writable | function |
| isreadable | function |
| iswritable | function |
| join | function |
| joinpath | function |
| loadchecksum | function |
| nameonly | function |
| nametotable | function |
| needs Updating | function |

| | |
|----------------------|----------|
| needsupdating | function |
| pathpart | function |
| readdata | function |
| removesuffix | function |
| replacesuffix | function |
| reslash | function |
| robustname | function |
| savechecksum | function |
| savedata | function |
| size | function |
| splitbase | function |
| splitname | function |
| splitpath | function |
| strip | function |
| suffix | function |
| suffixes | function |
| suffixesonly | function |
| suffixonly | function |
| syncmtimes | function |
| withinbase | function |

fio (extra lua)

| | |
|--------------------------|----------|
| getposition | function |
| read2dot14 | function |
| readbytes | function |
| readbytetable | function |
| readcardinal1 | function |
| readcardinal2 | function |
| readcardinal3 | function |
| readcardinal4 | function |
| readcardinaltable | function |
| readfixed2 | function |

| | |
|-------------------------|----------|
| readfixed4 | function |
| readinteger1 | function |
| readinteger2 | function |
| readinteger3 | function |
| readinteger4 | function |
| readintegertable | function |
| readline | function |
| setposition | function |
| skipposition | function |

floats (context)

| | | | |
|-------------------------|----------|-------------------|----------|
| analysemethod | function | nofstacked | function |
| checkedpagefloat | function | pop | function |
| collect | function | push | function |
| consult | function | resave | function |
| flush | function | save | function |
| getvariable | function | stacked | function |
| hasstacked | function | | |

font (basic tex)

| | | | |
|----------------------|---------------------|---------------------|----------|
| addcharacters | function | id | function |
| current | function | max | function |
| define | function | nextid | function |
| each | overloaded function | originaleach | function |
| fonts | table | read_tfm | function |
| frozen | function | read_vf | function |
| getfont | overloaded function | setexpansion | function |
| getparameters | function | setfont | function |

fonts (context)

analyzers table

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

checkers table

- F getmissing
- F missing
- F placeholder

cid table

- F getmap
- F loadfile

collections table

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

constructors table

- F addcharacters
- F addcoreunicodes
- B addtounicode
- F aftercopyingcharacters
- F applymanipulators
- F assignmathparameters
- B autocleanup
- F beforecopyingcharacters
- D cache
- B cacheintex
- F calculatyscale
- F checkedfeatures
- F checkedfilename
- F cleanupable

- F collectprocessors
- F currentfontasfeature
- D designsizes
- D dontembed
- F enhanceparameters
- T enhancers
 - T afm
 - F apply
 - F patch
 - T patches
 - F register
 - F report
 - F register
 - F report
- T otf
 - F addfeature
 - F apply
 - F enhance
 - F patch
 - T patches
 - F register
 - F report
 - F register
 - F report
- T tfm
 - F apply
 - F patch
- T patches
 - F register
 - F report
- F register
- F report

- N factor
- T features
 - D afm
 - D otf
 - D tfm
- F finalize
- F getfeatureaction
- F getmathparameter
- F getprivate

| | |
|----------------------------|---|
| 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 devanagari_remove_joiners |
| D rightkerned | F devanagari_reorder_matras |
| D texligatures | F devanagari_reorder_pre_base_reordering_consonants |
| F load | F devanagari_reorder_reph |
| T readers | F gpos_context |
| F getinfo | F gpos_contextchain |
| F loadfont | F gpos_cursive |
| F loadshapes | F gpos_mark2base |
| F setfeatures | F gpos_mark2ligature |
| B syncspace | F gpos_mark2mark |
| N version | F gpos_pair |
| T otf | F gpos_single |
| F addfeature | F gsub_alternate |
| F basemodeinitializer | F gsub_context |
| D cache | F gsub_contextchain |
| F collectlookups | F gsub_ligature |
| T coverup | F gsub_multiple |
| T actions | F gsub_reversecontextchain |
| F alternate | F gsub_single |
| F chainposition | F trigger_space_kerns |
| F chainsubstitution | T helpers |
| F kern | F blockligatures |
| F ligature | F pardirstate |
| F multiple | F txttdirstate |
| F pair | F load |
| F single | F loadoutlinedata |
| F substitution | F loadstreamdata |
| F register | F modeinitializer |
| S stepkey | D mpscache |
| F dataset | D pdfcache |
| F datasetpositionprocessor | F plugininitializer |
| S defaultbasealternate | F pluginprocessor |
| S defaultnodealternate | T plugins |
| D features | T png |
| F featuresinitializer | F topdf |

| | |
|-------------------|-------------------------------|
| D pngcache | F multiple |
| B pngenabled | F reversechainedcontextsingle |
| T readers | F single |
| F addunicodetable | F gvar |
| F avar | F head |
| F cbdt | T helpers |
| F cblc | F axistofactors |
| F cff | F cleanname |
| F cff2 | F getaxisscale |
| F cffcheck | F getfactors |
| T cffencoder | F getscales |
| F checkhash | F gotodatatable |
| F cmap | F normalizedaxis |
| F colr | T normalizedaxisishash |
| F compact | F readvariationdata |
| F cpal | 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 registerextender |
| F marktoligature | F rehash |
| F marktomark | F sbix |
| F pair | F stat |
| F single | T streamreader |
| F gsub | F close |
| T gsubhandlers | F getposition |
| F alternate | F getsizes |
| F chainedcontext | F look |
| F context | F open |
| F extension | F read2dot14 |
| F ligature | F readbyte |

| | |
|---------------------|---------------------|
| F readbytes | F vmtx |
| F readbytetable | F vorg |
| F readcardinal | F vvar |
| F readcardinal1 | F woff2otf |
| F readcardinal2 | F registerpalette |
| F readcardinal2le | F registerplugin |
| F readcardinal3 | F reorderlookups |
| F readcardinal3le | F scriptandlanguage |
| F readcardinal4 | F setdynamics |
| F readcardinal4le | F setfeatures |
| F readcardinaltable | T statistics |
| F readchar | D usedfeatures |
| F readfixed2 | F storepdfdata |
| F readfixed4 | T svg |
| F readinteger | F filterglyph |
| F readinteger1 | F topdf |
| F readinteger2 | D svgcache |
| F readinteger2le | B svgenabled |
| F readinteger3 | T tables |
| F readinteger3le | D baselines |
| F readinteger4 | D features |
| F readinteger4le | D featuretypes |
| F readintegertable | D languages |
| F readsignedbyte | D scripts |
| F readstring | N version |
| F readtag | T pfb |
| F setposition | F loadvector |
| F size | T tfm |
| F skip | D cache |
| F skiplong | D features |
| F skipposition | N maxnestingdepth |
| F skipshort | N maxnestingsize |
| F writebyte | T readers |
| F writecardinal2 | F loadpk |
| F writecardinal2le | F loadtfm |
| F writecardinal4 | F loadtfmvf |
| F writecardinal4le | F loadvf |
| F writestring | F pktopdf |
| F stripredundant | F showpk |
| F svg | F reencode |
| N tableversion | F setfeatures |
| F unifymissing | N version |
| F unpack | T vf |
| F vhea | T combinations |

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|--------------------------|--------------------|
| F combine | S width |
| T combiner | S units |
| D commands | S vfactor |
| D helpers | S width |
| D math | S xheight |
| D predefined | T properties |
| N version | S autoitalicamount |
| D whatever | S cidinfo |
| F hashfeatures | T effect |
| F hashinstance | S ddelta |
| T hashmethods | S effect |
| F normal | S factor |
| F virtual | S hdelta |
| F initializefeatures | S hfactor |
| T keys | S vfactor |
| T characters | S wdelta |
| T descriptions | S width |
| T parameters | S embedding |
| S ascender | S encodingbytes |
| S descender | S filename |
| S designsize | S finalized |
| T expansion | S fontname |
| S auto | S format |
| S shrink | S fullname |
| S step | S hasitalics |
| S stretch | S hasmath |
| S extendfactor | S mathitalics |
| S factor | S mode |
| S hfactor | S name |
| S mathsize | S nostackmath |
| S mode | S psname |
| T protrusion | S textitalics |
| S auto | S virtualized |
| S quad | D loadedfonts |
| S scaledpoints | S namemode |
| S scriptpercentage | N noffontsloaded |
| S scriptscriptpercentage | N nofsharedfonts |
| S size | N nofsharedhashes |
| S slantfactor | N nofsharedvectors |
| S slantperpoint | N privateoffset |
| T spacing | D privateslots |
| S extra | F readanddefine |
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 F scaled
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 F setfeature
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 F setname
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 F analyze
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 F internal
 F loadfont
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 F registersplit
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 T resolvers
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T agl
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T alternate
 F opentype
 T kern
 F opentype
 F type1
 F type3
 T multiple
 F opentype
 T substitution
 F opentype

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D colorschemes
 T data
 T dejavu-math
 S author
 S comment
 S copyright
 B initialized
 T mathematics
 T alternates
 T dotless
 S comment
 S feature
 N value
 T kerns
 S name

- S version
- D designsizes
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- F getcompositions
- T list
- F load
- F prepare_features
- F register
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- F report
- T suffixes
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- D characters
- D classes
- D csnames
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- D features
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- D modes
- D originals
- D parameters
- T processes
- D properties
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- D resources
- T setdynamics
- T shapes
- D spaces
- D spacings
- T streams
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- D variants
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- helpers** table
- F addextraprivate

- F addprivate
- F appendcommands
- F appendcommandtable
- F checkflags
- F checkmerge
- F checksteps
- F collectanchors
- D commands
- F descriptiontoslot
- F dimenfactor
- F expandglyph
- T extraprivates
- F fontpatternhassize
- F getcoloredglyphs
- F getdigitwidth
- F getinstancespec
- F getparameters
- F getprivatecharornode
- F getprivatenode
- F getprivates
- F getprivateslot
- F hasprivate
- F indextoslot
- F name
- F nametoslot
- F newprivateslot
- F prependcommands
- F prependcommandtable
- F privateslot
- F setdigitwidth
- F splitfontpattern
- F tochar
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- F descriptions
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- F add_placeholders
- D category_to_placeholder
- F format
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- F register
- F reportdefinedfonts

| | | | |
|-----------------------|-------------------|---------------------------|-----------------|
| F reportusedfeatures | | D sequence | |
| mappings | table | F tfm | |
| F addtounicode | | F ttc | |
| F fromunicode16 | | F ttf | |
| F loadfile | | F woff | |
| F loadline | | reserveid | function |
| F makenameparser | | select | table |
| D overloads | | D alternatives | |
| F reset | | F bodyfont | |
| F tounicode | | D data | |
| F tounicode16 | | F default | |
| F tounicode16sequence | | D defaults | |
| metapost | table | F definefallbackfamily | |
| F boundingbox | | F definefontfamily | |
| F boxtomp | | F definefontfamilypreset | |
| F draw | | D extras | |
| F fill | | F fallback | |
| F maxbounds | | D fallbacks | |
| F output | | F features | |
| F paths | | F filefallback | |
| F widthline | | F fontdata | |
| F zeroline | | F fontfallback | |
| mp | table | F fontsynonym | |
| D cache | | F goodies | |
| B inline | | F mathfallback | |
| N version | | D methods | |
| names | data table | D presets | |
| nulldata | data table | F registerfallback | |
| privateoffsets | table | F registerfiles | |
| B keepnames | | F registerfontalternative | |
| N mathbase | | F registerfontfamily | |
| N mathextrabase | | F textfallback | |
| N textbase | | F typeface | |
| N textextrabase | | F typescript | |
| protrusions | data table | F userdata | |
| readers | table | specifiers | table |
| F afm | | D contextmerged | |
| F check_lua | | F contextnumber | |
| F check_tfm | | D contextnumbers | |
| F lua | | D contextsetups | |
| F ofm | | F contexttostring | |
| F opentype | | F definecontext | |
| F otf | | F mergecontext | |
| F pfb | | F presetcontext | |

F registercontext
F showcontext
F splitcontext
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F resolved
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- F fetchmultipar
- F pair
- F path
- F point

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F bitmap

F jp2

F jpg

F png

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 B bleed
 B crop
 B media

 B none
 B trim
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 N jbig2
 N jp2
 N jpg
 N memstream
 N none
 N pdf
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 N stream

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img (basic tex)

new overloaded function

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- F clone
- F define
- F defineset
- F insert

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- F getidentity
- F setupidentity

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- F collect
- F reference
- F register

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- F code
- D codes
- F flushpreambles

D functions

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F setpreamble

F storecode

F storepreamble

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F setpagetransition

F setupcanvas

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F setcloseddocument

F setclosepage

F setopendocument

F setopenpage

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| | | | |
|-----------------------------|------------|--------------------------|------------|
| _ | data table | F list | |
| addvalidkeys | function | registernamespace | function |
| cachedsetups | data table | registerscanner | function |
| cachesetup | function | scanners | data table |
| checkedspecification | function | setconstant | function |
| complete | data table | setcount | function |
| constants | data table | setdimen | function |
| corenamespaces | data table | setelement | function |
| currentinterface | string | setformat | function |
| currentresponse | string | setmacro | function |
| definecommand | function | setmessage | function |
| defined | function | setmessages | function |
| doifelsemessage | function | settranslation | function |
| elements | data table | setupstrings | data table |
| formats | data table | setuserinterface | function |
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| getmessage | function | setvariable | function |
| getnamespace | function | showmessage | function |
| getsetupstring | function | storedscanners | data table |
| hashedsetups | data table | strings | table |
| implement | function | syntax | data table |
| interfacedcommand | function | tolist | function |
| interfaces | table | translations | data table |
| invalidkey | function | usednamespaces | data table |
| message | function | variables | data table |
| namespaces | table | writestatus | function |

F define

io (basic lua)

| | | | |
|----------------------|---------------------|----------------------|---------------------|
| ask | function | output | overloaded function |
| bytes | function | pathseparator | string |
| characters | function | popen | overloaded function |
| close | function | read | function |
| copydata | function | readall | function |
| exists | function | readnumber | function |
| fileseparator | string | readstring | function |
| flush | 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 |
| open | overloaded function | | |

job (context)

| | | | |
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| comment | function | D tobesaved | |
| datasets | table | passes | table |
| D collected | | F check | |
| F extend | | D collected | |
| F getdata | | F count | |
| F setdata | | F define | |
| D tobesaved | | F find | |
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| embedded | table | F get | |
| D collected | | F getcollected | |
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| D collected | | F gettobesaved | |
| D tobesaved | | F inlist | |
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| D collected | | F list | |
| F context | | F save | |
| B forcerun | | F savetagged | |
| F run | | D tobesaved | |
| D tobesaved | | positions | table |
| getrandomseed | function | F b_column | |
| initialize | function | F b_region | |
| load | function | F c | |
| loadother | function | D collected | |
| objects | table | T column | |
| D collected | | F columnofpos | |
| F get | | F copy | |
| F number | | F depth | |
| F page | | F e_column | |
| F save | | F e_region | |
| F set | | F enhance | |
| D tobesaved | | F extra | |
| pack | boolean | T free | |
| packversion | number | F get | |
| pagestates | table | F gethpos | |
| D collected | | F getpos | |
| F countervalue | | F getreserved | |
| F extend | | F getrpos | |
| F realpage | | F gettobesaved | |
| F realpageorder | | F getvpos | |
| F setstate | | F hangafter | |

F hangindent
 F height
 F hsize
 F leftskip
 F lowerleft
 F lowerright
 F markregionbox
 F n
 F onsamepage
 F overlapping
 F p
 T page
 F paragraph
 F parindent
 F position
 F r
 F region
 F registerhandlers
 F replace
 F rightskip
 F set
 F setall
 F setregionbox
 F setspec
 F settobesaved
 D tobesaved
 F upperleft

F upperright
 S used
 F whd
 F width
 F x
 F xy
 F y

| | |
|------------------|----------|
| prepare | function |
| register | function |
| save | function |
| structure | table |

D collected
 T components
 T tobesaved
 T branches
 S name
 S type

| | |
|------------------|-------|
| variables | table |
|------------------|-------|

D checksums
 D collected
 F getchecksum
 F makechecksum
 F restore
 F save
 F setchecksum
 D tobesaved

| | |
|----------------|--------|
| version | number |
|----------------|--------|

lang (basic tex)

| | |
|--------------------------|----------|
| clean | function |
| clear_hyphenation | function |
| clear_patterns | function |
| exceptions | function |
| gethjcode | function |
| hyphenate | function |
| hyphenation | function |
| hyphenationmin | function |

| | |
|-------------------------|----------|
| id | function |
| new | function |
| patterns | function |
| postexhyphenchar | function |
| posthyphenchar | function |
| preexhyphenchar | function |
| prehyphenchar | function |
| sethjcode | function |

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| | | | |
|-------------------------------|------------|---------------------------------|------------|
| associate | function | F registerpattern | |
| associated | data table | F setfeatures | |
| association | function | installed | function |
| counters | data table | labels | table |
| current | function | F define | |
| data | data table | F split | |
| decimals | data table | loadable | function |
| define | function | loadwords | function |
| explicitthyphen | function | logger | table |
| flatten | function | F report | |
| frequencies | table | nofflatten | function |
| F averagecharwidth | | numbers | data table |
| F getdata | | postexhyphenchar | function |
| getdata | function | posthyphenchar | function |
| getnumber | function | preexhyphenchar | function |
| hjcounts | table | prehyphenchar | function |
| hyphenate | function | registered | data table |
| hyphenators | table | replacements | table |
| T dictionaries | | F add | |
| D featuresets | | F addlist | |
| F handler | | F handler | |
| T methods | | F set | |
| F expanded | | serializediscretionary | function |
| B none | | setexceptions | function |
| F original | | setsynonym | function |
| F tex | | showdiscretionaries | function |
| F traditional | | unload | function |
| F popmethod | | urls | table |
| F pushmethod | | D characters | |
| F setmethod | | N lefthyphenmin | |
| F setup | | D mapping | |
| F showhyphenationtrace | | B packslashes | |
| T traditional | | N righthyphenmin | |
| F definefeatures | | F setcharacters | |
| F gettrace | | version | number |
| F hyphenate | | visualizediscretionaries | function |
| F injecthyphens | | words | table |
| F installmethod | | F check | |
| F lasttrace | | T data | |
| F loadpatterns | | F disable | |
| F registerexception | | F enable | |

T enablers

F load

B enables

T methods

F found

N threshold

layouts (context)

| | | |
|---------------|--------------|-------------------------|
| status | table | F leftorrightpageaction |
| | F isleftpage | |

lfs (extra lua)

| | | | |
|-------------------|---------------------|--------------------------|---------------------|
| attributes | overloaded function | mkdir | overloaded function |
| chdir | overloaded function | makedirs | function |
| currentdir | function | readlink | overloaded function |
| dir | overloaded function | rmdir | overloaded function |
| isdir | overloaded function | setmode | overloaded function |
| isfile | overloaded function | shortname | overloaded function |
| isfound | function | symlinkattributes | overloaded function |
| link | overloaded function | touch | overloaded function |
| lock | function | unlock | function |
| lock_dir | overloaded function | | |

libraries (context)

basiclua data table

basictex data table

builtin data table

extralua data table

extratex data table

functions data table

globals data table

lmx (context)

| | |
|--------------------------|----------|
| color | function |
| convert | function |
| convertfile | function |
| convertstring | function |
| einject | function |
| eprint | function |
| escape | function |
| finalized | function |
| finject | function |
| fprint | function |
| get | function |
| getvariables | function |
| htmfile | function |
| html | table |
| F a | |
| F td | |
| F th | |
| include | function |
| inherited | table |
| S color-background-four | |
| S color-background-one | |
| S color-background-three | |
| S color-background-two | |
| S title | |
| initialize | function |
| inject | function |
| lmxfile | function |

| | |
|---------------------------|----------|
| loadedfile | function |
| make | function |
| new | function |
| overloaderror | function |
| popupfile | function |
| print | function |
| pv | function |
| report | function |
| reset | function |
| result | function |
| set | function |
| show | function |
| showdebuginfo | function |
| showerror | function |
| stripcss | function |
| tv | function |
| type | function |
| urlescape | function |
| variable | function |
| variables | table |
| S color-background-blue | |
| S color-background-body | |
| S color-background-green | |
| S color-background-main | |
| S color-background-purple | |
| S color-background-yellow | |
| S title-default | |

logs (context)

| | | | |
|-----------------------------|----------|--------------------------|----------|
| application | function | setformats | function |
| categories | function | setformatters | function |
| direct | function | setlogfile | function |
| disable | function | setmessenger | function |
| enable | function | setprocessor | function |
| exporters | table | setprogram | function |
| extendbanner | function | settarget | function |
| finalactions | function | settimedlog | function |
| flush | function | settranslations | function |
| help | function | show | function |
| loggingerrors | function | show_close | function |
| messenger | function | show_load | function |
| new | function | show_open | function |
| newline | function | simple | function |
| poptarget | function | simpleline | function |
| pushtarget | function | simplelines | function |
| registerfinalactions | function | start_page_number | function |
| report | function | starterrorlogging | function |
| reportbanner | function | startfilelogging | function |
| reporter | function | status | function |
| reporters | table | stop_page_number | function |
| F banner | | stoperrorlogging | function |
| F export | | stopfilelogging | function |
| F help | | subdirect | function |
| F info | | subreport | function |
| F lines | | system | function |
| F version | | texerrormessage | function |
| reportline | function | writer | function |
| reportlines | function | | |

lpdf (context)

| | |
|--------------------------------|------------|
| action | function |
| adddocumentcolorspace | function |
| adddocumenttextgstate | function |
| adddocumentpattern | function |
| adddocumentshade | function |
| addtocatalog | function |
| addtoinfo | function |
| addtonames | function |
| addtopageattributes | function |
| addtopageresources | function |
| addtopagesattributes | function |
| addxmpinfo | function |
| annotationspecification | function |
| array | function |
| attachmentsymbols | function |
| boolean | function |
| border | function |
| checkedkey | function |
| checkedvalue | function |
| circularshade | function |
| cmykcode | function |
| collectedresources | function |
| color | function |
| colorspace | function |
| colorspaceconstants | data table |
| colorspec | function |
| colorvalue | function |
| colorvalues | function |
| commentsymbols | function |
| compresslevel | function |
| constant | function |
| copyarray | function |
| copyboolean | function |
| copyconstant | function |
| copydictionary | function |
| copyfloat | function |
| copyinteger | function |
| copynumber | function |
| copystring | function |
| copyunicode | function |
| delayedobject | function |

| | |
|----------------------------------|----------|
| destination specification | function |
| dictionary | function |
| docstring | function |
| epdf | table |
| F analyzefonts | |
| F contenttotext | |
| F expanded | |
| F getpagecontent | |
| F getstructure | |
| T image | |
| F close | |
| F copy | |
| F new | |
| F open | |
| F query | |
| F load | |
| F parsecontent | |
| F plugin | |
| T resolvers | |
| F destinations | |
| F embeddedfiles | |
| F javascripts | |
| F layers | |
| F pages | |
| F structure | |
| F widgets | |
| F stripcontent | |
| F unload | |
| escaped | function |
| finalizedocument | function |
| finalizefonts | function |
| finalizepage | function |
| finishtransparencycode | function |
| flags | table |
| T annotations | |
| N AutoView | |
| N Hidden | |
| N Invisible | |
| N Locked | |
| N LockedContents | |
| N NoRotate | |

| | | | |
|-----------------------|------------|---------------------------|----------|
| N NoView | | getcatalog | function |
| N NoZoom | | getcompression | function |
| N Print | | getfontname | function |
| N Printable | | getfontobjnumber | function |
| N ReadOnly | | getinfo | function |
| N ToggleNoView | | getmetadata | function |
| N auto | | getpageproperties | function |
| N hidden | | getversion | function |
| N printable | | getxformname | function |
| T widgets | | graycode | function |
| N Comb | | id | function |
| N CommitOnSelChange | | immediateobj | function |
| N DoNotScroll | | includechar | function |
| N DoNotSpellCheck | | includecharlist | function |
| N Edit | | includefont | function |
| N FileSelect | | includeimage | function |
| N MultiLine | | injectxmpinfo | function |
| N NoExport | | insertxmpinfo | function |
| N NoToggleToOff | | layerreference | function |
| N Password | | limited | function |
| N PopUp | | linearshade | function |
| N PushButton | | literal | function |
| N Radio | | majorversion | function |
| N RadiosInUnison | | makenametree | function |
| N ReadOnly | | minorversion | function |
| N Required | | nofpages | function |
| N RichText | | null | function |
| N Sort | | number | function |
| N file | | obj | function |
| N fixed | | objectcompresslevel | function |
| N nocheck | | pagereference | function |
| N protected | | patternstream | function |
| N readonly | | pdfcolor | function |
| N required | | pdftimestamp | function |
| N sorted | | permitdetail | function |
| N unavailable | | print | function |
| flushobject | function | procset | function |
| flushstreamfileobject | function | protectresources | boolean |
| flushstreamobject | function | rectangle | function |
| formats | data table | reference | function |
| frombytes | function | registerannotation | function |
| fromeight | function | registerdestination | function |
| frompdfdoc | function | registerdocumentfinalizer | function |
| fromsixteen | function | registerfont | function |

| | | | |
|------------------------------|----------|-----------------------------|----------|
| registerpagefinalizer | function | shareobject | function |
| registerpattern | function | shareobjectreference | function |
| reserveobject | function | spotcode | function |
| rgbcode | function | stream | function |
| rotationcm | function | string | function |
| setcompression | function | toeight | function |
| setdates | function | topdfdoc | function |
| setmapfile | function | tosixteen | function |
| setmapline | function | transparency | function |
| setomitcharset | function | transparencycode | function |
| setomitcidset | function | transparencygroups | table |
| suppressoptionalinfo | function | B none | |
| settime | function | transparencyvalue | function |
| settrailerid | function | unicode | function |
| setversion | function | 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 | pcode | 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 | utfchartabletopattern | function |
| counter | function | utfreplacer | function |
| endstripper | function | version | function |
| finder | function | | |

ltn12 (extra lua)

BLOCKSIZE number

filter table

F chain

F cycle

pump table

F all

F step

sink table

F chain

F error

F file

F null

F simplify

F table

source table

F cat

F chain

F empty

F error

F file

F rewind

F simplify

F string

lua (basic tex)

| | | | |
|----------------------------|---------------------|--------------------------|------------|
| bytecode | table | F loaded | |
| bytedata | data table | F required | |
| bytdone | table | F reset | |
| collectgarbage | function | F resolvestring | |
| delay | function | F resolving | |
| finalize | function | F showdefinitions | |
| firstbytecode | number | mask | string |
| flush | function | messages | data table |
| flushdelayed | function | name | table |
| get_functions_table | overloaded function | newtable | function |
| getbytecode | function | numbers | data table |
| getcalllevel | function | registercode | function |
| getcodepage | function | registeredcodes | function |
| getfunctionstable | function | registerfinalizer | function |
| getluaname | function | registername | function |
| getstacktop | function | setbytecode | function |
| lastbytecode | number | setluaname | function |
| macros | table | startupfile | string |
| B enabled | | version | string |

luatex (context)

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

lxml (context)

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

| | |
|-------------------------|----------|
| register | function |
| registerentity | function |
| removesetup | function |
| replace | function |
| resetcdata | function |
| resetsetups | function |
| resolvedentity | function |
| root | function |
| save | function |
| serialize | function |
| setaction | function |
| setatt | function |
| setattribute | function |
| setcdata | function |
| setcommandtonone | function |
| setcommandtotext | function |
| setpar | function |
| setparam | function |
| setparameter | function |
| setsetup | function |
| snippet | function |
| sorters | table |

F add

F compare

F flush

F reset

F show

F sort

| | |
|----------------------|------------|
| splitid | function |
| startraw | function |
| startunesaped | function |
| stopraw | function |
| stopunesaped | function |
| store | function |
| strip | function |
| stripped | function |
| tag | function |
| text | function |
| tobuffer | function |
| tofile | function |
| toparameters | function |
| toverbatim | function |
| verbatim | function |
| withindex | function |
| xmltexhandler | data table |

math (basic lua)

| | | | |
|--------------------|----------|-----------------------|---------------------|
| abs | function | maxinteger | number |
| acos | function | min | function |
| asin | function | mininteger | number |
| atan | function | mod | function |
| atan2 | function | modf | function |
| ceil | function | odd | function |
| ceiling | function | pi | number |
| cos | function | pow | function |
| cosd | function | rad | function |
| cosh | function | random | overloaded function |
| deg | function | randomseed | function |
| div | function | round | function |
| even | function | setrandomseedi | function |
| exp | function | sin | function |
| floor | function | sind | function |
| fmod | function | sinh | function |
| frexp | 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 |

mathematics (context)

| | | | |
|-------------------------------|------------|-------------------------------|------------|
| addfallbacks | function | mapremap | data table |
| alphabets | data table | overloadadditions | function |
| alternatives | data table | overloadparameters | function |
| big | function | privatebase | number |
| boldmap | data table | registerdomain | function |
| categories | table | registerfallbackid | function |
| D functions | | remapalphabets | function |
| charactersets | data table | renderings | table |
| checkaccentbaseheight | function | D mappings | |
| checkprivateparameters | function | D numbers | |
| classes | data table | D sets | |
| codes | data table | renderset | function |
| define | function | resetattributes | function |
| dimensions | function | resetitalics | function |
| domains | table | resolvefallbacks | function |
| extensiblecode | function | scaleparameters | function |
| extensibles | data table | setdomain | function |
| extrabase | number | setitalics | function |
| extras | table | setridofprime | function |
| F add | | sets | data table |
| F copy | | styles | data table |
| fallbacks | table | syncboth | function |
| F apply | | syncname | function |
| F install | | syncstyle | function |
| fallbackstyleattr | function | toname | function |
| families | data table | tostyle | function |
| finishfallbacks | function | tweakaftercopyingfont | function |
| gaps | data table | tweakbeforecopyingfont | function |
| getboth | function | tweaks | table |
| getdomain | function | utfmathaccent | function |
| getitalics | function | utfmathclass | function |
| getridofprime | function | utfmathcommand | function |
| getstyle | function | utfmathfiller | function |
| horizontalcode | function | utfmathstretch | function |
| initializeparameters | function | virtualize | function |
| makefont | function | virtualized | data table |

md5 (extra lua)

| | |
|----------------|----------|
| HEX | function |
| crypt | function |
| dec | function |
| decrypt | function |
| exor | function |

| | |
|----------------|---------------------|
| hex | function |
| sum | function |
| sumHEXA | overloaded function |
| sumhexa | overloaded function |

metapost (context)

| | | | |
|-------------------------|------------|--------------------------|----------|
| checkformat | function | getstatistics | function |
| cm | function | gettext | function |
| colorinitializer | function | graphic | function |
| comment | function | graphic_base_pass | function |
| convert | function | includesvgbuffer | function |
| currentmpx | function | includesvgfile | function |
| currentmpxstatus | function | installplugin | function |
| defaultformat | string | isobject | function |
| defaultinstance | string | lastlog | string |
| defaultmethod | string | load | function |
| directrun | function | maketext | function |
| escaped | function | metafun | table |
| exectime | table | F interpolate | |
| extensiondata | data table | F topath | |
| filterclippath | function | mptopdf | table |
| flush | function | F convertmpstopdf | |
| flushers | table | N nofconverted | |
| T pdf | | n | number |
| F comment | | nofruns | number |
| F flushfigure | | nofscriptruns | function |
| F startfigure | | nvformat | function |
| F stopfigure | | pdfliterals | function |
| F textfigure | | pluginactions | function |
| flushliteral | function | popformat | function |
| flushnormalpath | function | popscriptrunner | function |
| flushreset | function | popvariable | function |
| fonts | table | popvariables | function |
| F define | | preparetexttsdata | function |
| T flusher | | process | function |
| F flushfigure | | processing | function |
| F startfigure | | processplugins | function |
| F stopfigure | | processspecial | function |
| N instances | | properties | table |
| F process | | pushformat | function |
| format_number | function | pushscriptrunner | function |
| format_string | function | pushvariable | function |
| formatnumber | function | pushvariables | function |
| getclippath | function | reducetogray | boolean |
| getextensions | function | registerscript | function |
| getextradata | function | remappedtext | function |
| getjobdata | function | remaptext | function |

| | | | |
|-----------------------|----------|-----------------------|----------|
| reporterror | function | svgglyphtomp | function |
| reportsvgfonts | function | svgshapestomp | function |
| reset | function | svgshapestopdf | function |
| resetlastlog | function | svgtomp | function |
| resetplugins | function | svgtopdf | function |
| run | function | sxsy | function |
| runscript | function | tex | table |
| scripterror | function | F get | |
| scriptindex | function | F reset | |
| setextensions | function | F set | |
| setoutercolor | function | F setfrombuffer | |
| settext | function | texerrors | boolean |
| setvariable | function | texexp | function |
| showlog | boolean | theclippath | function |
| showsvgpage | function | tographic | function |
| simple | function | totable | function |
| splitprescript | function | typesvgpage | function |
| startgraphic | function | unload | function |
| stopgraphic | function | untagvariable | function |
| svformat | function | variables | table |

mime (extra lua)

| | | | |
|------------------|---------------------|---------------|---------------------|
| b64 | function | qpwrp | function |
| decode | overloaded function | report | function |
| decodet | overloaded table | stuff | overloaded function |
| | F base64 | unb64 | function |
| | F quoted-printable | unqp | function |
| dot | function | wrap | overloaded function |
| encode | overloaded function | wrapt | overloaded table |
| encodet | overloaded table | | F base64 |
| | F base64 | | F default |
| | F quoted-printable | | F quoted-printable |
| eol | function | | F text |
| normalize | overloaded function | wrp | function |
| qp | function | | |

mp (context)

| | | | |
|-----------------------------|----------|----------------------------|----------|
| BackSpace | function | OuterMarginWidth | function |
| BaselineSkip | function | OverlayDepth | function |
| BodyFontSize | function | OverlayHeight | function |
| BottomDistance | function | OverlayLineWidth | function |
| BottomHeight | function | OverlayOffset | function |
| BottomSpace | function | OverlayRegion | function |
| CurrentColumn | function | OverlayWidth | function |
| CurrentHeight | function | PageDepth | function |
| CurrentWidth | function | PageFraction | function |
| CutSpace | function | PageNumber | function |
| EmWidth | function | PageOffset | function |
| ExHeight | function | PaperBleed | function |
| FooterDistance | function | PaperHeight | function |
| FooterHeight | function | PaperWidth | function |
| HSize | function | PrintPaperHeight | function |
| HeaderDistance | function | PrintPaperWidth | function |
| HeaderHeight | function | RealPageNumber | function |
| InPageBody | function | RightEdgeDistance | function |
| InnerEdgeDistance | function | RightEdgeWidth | function |
| InnerEdgeWidth | function | RightMarginDistance | function |
| InnerMarginDistance | function | RightMarginWidth | function |
| InnerMarginWidth | function | SpineWidth | function |
| LastPageNumber | function | StrutDepth | function |
| LayoutColumnDistance | function | StrutHeight | function |
| LayoutColumnWidth | function | SubPageNumber | function |
| LayoutColumns | function | TextHeight | function |
| LeftEdgeDistance | function | TextWidth | function |
| LeftEdgeWidth | function | TopDistance | function |
| LeftMarginDistance | function | TopHeight | function |
| LeftMarginWidth | function | TopSkip | function |
| LineHeight | function | TopSpace | function |
| MakeupHeight | function | VSize | function |
| MakeupWidth | function | _get_count_ | function |
| NumberOfColumns | function | _get_dimen_ | function |
| NumberOfPages | function | _get_macro_ | function |
| NumberOfSubPages | function | _get_toks_ | function |
| OnOddPage | function | _set_count_ | function |
| OnRightPage | function | _set_dimen_ | function |
| OuterEdgeDistance | function | _set_macro_ | function |
| OuterEdgeWidth | function | _set_toks_ | function |
| OuterMarginDistance | function | aux | table |

| | | | |
|--------------------------|----------|--------------------------------------|----------|
| F boolean | | fill | function |
| F color | | flatten | function |
| F direct | | flush | function |
| F direct1 | | format | function |
| F direct2 | | formatted | function |
| F direct3 | | fprint | function |
| F direct4 | | fromhash | function |
| F draw | | get | table |
| F fill | | F boolean | |
| F flush | | F integer | |
| F fprint | | F number | |
| F integer | | F numeric | |
| F number | | F path | |
| F numeric | | F string | |
| F pair | | getcount | function |
| F pairpoints | | getdimen | function |
| F path | | getmacro | function |
| F pathpoints | | gettoks | function |
| F points | | graphformat | function |
| F print | | inhash | function |
| F quadruple | | integer | function |
| F quadruplepoints | | isarray | function |
| F quoted | | isobject | function |
| F size | | lmt_color_functions | table |
| F string | | F shade | |
| F transform | | F step | |
| F triplet | | lmt_contours_bitmap_get | function |
| F tripletpoints | | lmt_contours_bitmap_set | function |
| F vprint | | lmt_contours_cleanup | function |
| boolean | function | lmt_contours_color | function |
| cleaned | function | lmt_contours_edge_get_band | function |
| color | function | lmt_contours_edge_get_cell | function |
| dataset | function | lmt_contours_edge_paths | function |
| datasets | function | lmt_contours_edge_set | function |
| F load | | lmt_contours_edge_set_by_band | function |
| defaultcolormodel | function | lmt_contours_edge_set_by_cell | function |
| dimension | function | lmt_contours_format | function |
| direct | function | lmt_contours_function | function |
| direct1 | function | lmt_contours_maxmean | function |
| direct2 | function | lmt_contours_maxz | function |
| direct3 | function | lmt_contours_minmean | function |
| direct4 | function | lmt_contours_minz | function |
| disposehash | function | lmt_contours_nofvalues | function |
| draw | function | lmt_contours_nx | function |

| | | | |
|---------------------------------|----------|-------------------------|----------|
| lmt_contours_ny | function | mf_tt_dimensions | function |
| lmt_contours_range | function | mf_tt_initialize | function |
| lmt_contours_shade_paths | function | mode | function |
| lmt_contours_shade_set | function | n | function |
| lmt_contours_shape_paths | function | newhash | function |
| lmt_contours_start | function | number | function |
| lmt_contours_stop | function | numeric | function |
| lmt_contours_value | function | pair | function |
| lmt_contours_xrange | function | pairpoints | function |
| lmt_contours_yrange | function | path | function |
| lmt_surface_do | function | pathleft | function |
| mf_blob_add | function | pathlength | function |
| mf_blob_dimensions | function | pathpoint | function |
| mf_blob_index | function | pathpoints | function |
| mf_blob_new | function | pathreset | function |
| mf_blob_raw_content | function | pathright | function |
| mf_blob_raw_dimensions | function | points | function |
| mf_blob_raw_reset | function | positionanchor | function |
| mf_blob_raw_toutf | function | positionbox | function |
| mf_blob_raw_wipe | function | positioncurve | function |
| mf_blob_size | function | positionpage | function |
| mf_blob_width | function | positionpath | function |
| mf_external_figure | function | positionpxy | function |
| mf_finish_saving_data | function | positionregion | function |
| mf_formatted_text | function | positionwhd | function |
| mf_get_outline_text | function | positionxy | function |
| mf_graphic_text | function | prefix | function |
| mf_inject_blob | function | print | function |
| mf_made_text | function | processingmode | function |
| mf_map_move | function | quadruple | function |
| mf_map_text | function | quadruplepoints | function |
| mf_named_color | function | quoted | function |
| mf_outline_text | function | report | function |
| mf_path_left | function | scan | table |
| mf_path_length | function | set | table |
| mf_path_point | function | F path | |
| mf_path_reset | function | setcount | function |
| mf_path_right | function | setdimen | function |
| mf_save_data | function | setmacro | function |
| mf_script_index | function | settoks | function |
| mf_some_text | function | size | function |
| mf_start_saving_data | function | string | function |
| mf_stop_saving_data | function | systemmode | function |
| mf_tb_dimensions | function | texstr | function |

| | | | |
|-----------------------|----------|----------------------|----------|
| texttextanchor | function | tripletpoints | function |
| texvar | function | utflen | function |
| tohash | function | utfsub | function |
| transform | function | vprint | function |
| triplet | function | | |

mplib (extra tex)

| | | | |
|--------------------|----------|--------------------|---------------------|
| char_depth | function | get_boolean | function |
| char_height | function | get_number | function |
| char_width | function | get_numeric | function |
| execute | function | get_path | function |
| fields | function | get_string | function |
| finder | function | new | overloaded function |
| finders | table | pen_info | function |
| F file | | solve_path | function |
| F mpstemplate | | statistics | function |
| finish | function | version | function |

noads (context)

| | | | |
|-----------------|-------|----------------------|------------|
| handlers | table | | F resize |
| F align | | | F showtree |
| F alternates | | | F tags |
| F autofences | | | F unscript |
| F classes | | | F unstack |
| F collapse | | | F variants |
| F domains | | process | function |
| F families | | processnested | function |
| F fixscripts | | processors | table |
| F italics | | F mlist_to_hlist | |
| F kernpairs | | T unscript | |
| F makeup | | T unstack | |
| F relocate | | processouter | function |
| F render | | | |

node (basic tex)

| | | |
|------------------------------|----------|------------------------|
| check_discretionaries | function | F getglue |
| check_discretionary | function | F getheight |
| copy | function | F getid |
| copy_list | function | F getkern |
| count | function | F getlang |
| current_attr | function | F getleader |
| dimensions | function | F getlist |
| direct | table | F getnext |
| F check_discretionaries | | F getnucleus |
| F check_discretionary | | F getoffsets |
| F copy | | F getpenalty |
| F copy_list | | F getprev |
| F count | | F getproperty |
| F current_attr | | F getshift |
| F dimensions | | F getsub |
| F effective_glue | | F getsubtype |
| F end_of_math | | F getsup |
| F find_attribute | | F getwhd |
| F first_glyph | | F getwidth |
| F flatten_discretionaries | | F has_attribute |
| F flush_list | | F has_field |
| F flush_node | | F has_glyph |
| F flush_properties_table | | F hpack |
| F free | | F hyphenating |
| F get_attribute | | F insert_after |
| F get_properties_table | | F insert_before |
| F get_synctex_fields | | F is_char |
| F getattributelist | | F is_direct |
| F getboth | | F is_glyph |
| F getbox | | F is_node |
| F getchar | | F is_zero_glue |
| F getcomponents | | F kerning |
| F getdata | | F last_node |
| F getdepth | | F length |
| F getdir | | F ligaturing |
| F getdirection | | F new |
| F getdisc | | F prepend_prevdepth |
| F getexpansion | | F protect_glyph |
| F getfam | | F protect_glyphs |
| F getfield | | F protrusion_skippable |
| F getfont | | F rangedimensions |

| | | |
|-----------------------|--------------------------------|----------|
| F remove | F traverse_char | |
| F set_attribute | F traverse_glyph | |
| F set_properties_mode | F traverse_id | |
| F set_synctex_fields | F traverse_list | |
| F setattributelist | F unprotect_glyph | |
| F setboth | F unprotect_glyphs | |
| F setbox | F unset_attribute | |
| F setchar | F usedlist | |
| F setcomponents | F uses_font | |
| F setdata | F vpack | |
| F setdepth | F write | |
| F setdir | effective_glue | function |
| F setdirection | end_of_math | function |
| F setdisc | family_font | function |
| F setexpansion | fields | function |
| F setfam | find_attribute | function |
| F setfield | first_glyph | function |
| F setfont | fix_node_lists | function |
| F setglue | flatten_discretionaries | function |
| F setheight | flush_list | function |
| F setkern | flush_node | function |
| F setlang | flush_properties_table | function |
| F setleader | free | function |
| F setlink | get_attribute | function |
| F setlist | get_properties_table | function |
| F setnext | getboth | function |
| F setnucleus | getchar | function |
| F setoffsets | getdisc | function |
| F setpenalty | getfield | function |
| F setprev | getfont | function |
| F setproperty | getglue | function |
| F setshift | getid | function |
| F setsplit | getleader | function |
| F setsub | getlist | function |
| F setsubtype | getnext | function |
| F setsup | getprev | function |
| F setwhd | getproperty | function |
| F setwidth | getsubtype | function |
| F slide | getwhd | function |
| F tail | has_attribute | function |
| F todirect | has_field | function |
| F tonode | has_glyph | function |
| F toString | hpack | function |
| F traverse | hyphenating | function |

| | | | |
|-----------------------------|----------|-------------------------|----------|
| id | function | setfield | function |
| insert_after | function | setglue | function |
| insert_before | function | setproperty | function |
| is_char | function | slide | function |
| is_glyph | function | subtype | function |
| is_node | function | subtypes | function |
| is_zero_glue | function | tail | function |
| kertering | function | tostring | function |
| last_node | function | traverse | function |
| length | function | traverse_char | function |
| ligaturing | function | traverse_glyph | function |
| make_extensible | function | traverse_id | function |
| mlist_to_hlist | function | traverse_list | function |
| new | function | type | function |
| next | function | types | function |
| prepend_prevdepth | function | unprotect_glyph | function |
| prev | function | unprotect_glyphs | function |
| protect_glyph | function | unset_attribute | function |
| protect_glyphs | function | usedlist | function |
| protrusion_skippable | function | uses_font | function |
| rangedimensions | function | values | function |
| remove | function | vpack | function |
| set_attribute | function | whatsits | function |
| set_properties_mode | function | write | function |

nodes (context)

| | | | |
|------------------------------|------------|--------------------------------|------------|
| accentcodes | data table | discretionarycodes | data table |
| aligned | function | effective_glue | function |
| append | function | end_of_math | function |
| apply | function | fencecodes | data table |
| applyvisuals | function | fields | function |
| astable | function | fillcodes | data table |
| basepoints | function | find_attribute | function |
| boundarycodes | data table | first_glyph | function |
| boxes | table | firstcharacter | function |
| F dimensions | | firstcharinbox | function |
| F direct | | firstdirinbox | function |
| F found | | firstglyph | function |
| F reset | | flatten_discretionaries | function |
| F restore | | flush | function |
| F save | | flush_list | function |
| F savenode | | flush_node | function |
| builders | table | free | function |
| F buildpage_filter | | fullhpack | function |
| F vpack_filter | | getattr | function |
| check_discretionaries | function | getattribute | function |
| codes | data table | getboth | function |
| concat | function | getbox | function |
| copy | function | getchar | function |
| copy_list | function | getfield | function |
| copy_node | function | getfont | function |
| count | function | getglue | function |
| countall | function | getid | function |
| current_attr | function | getleader | function |
| delete | function | getlist | function |
| destinations | table | getnext | function |
| N attribute | | getprev | function |
| T done | | getsubtype | function |
| F handler | | gluecodes | data table |
| T stack | | gluevalues | data table |
| dimensionfields | data table | glyphcodes | data table |
| dimensions | function | handlers | table |
| dircodes | data table | F accessibility | |
| directioncodes | data table | F backgrounds | |
| directionvalues | data table | F backgroundspage | |
| dirvalues | data table | F backgroundsvbox | |
| disccodes | data table | F characters | |

| | | | |
|--------------------------------|------------|------------------------|------------|
| F checkforleaks | | is_direct | function |
| F checkglyphs | | is_display_math | function |
| F checkparcounter | | is_node | function |
| F cleanupbox | | is_nut | function |
| F cleanuppage | | is_zero_glue | function |
| F export | | kerncodes | data table |
| F finalizebox | | kertering | function |
| F flatten | | keys | table |
| F flattenline | | T whatsit | |
| F migrate | | last_node | function |
| F protectglyphs | | leadercodes | data table |
| F stripping | | leftmarginwidth | function |
| F textbackgrounds | | length | function |
| F unprotectglyphs | | ligaturing | function |
| has_attribute | function | linefillers | table |
| has_field | function | D data | |
| has_glyph | function | F define | |
| hpack | function | F enable | |
| hyphenating | function | F filler | |
| idsandsubtypes | function | F handler | |
| idstostring | function | lines | table |
| ignorablefields | data table | T boxed | |
| injections | table | F register | |
| F copy | | F setup | |
| F getligaindex | | F stage_one | |
| F getthreshold | | F stage_two | |
| F handler | | D data | |
| F installgetspaceboth | | F finalize | |
| F installnewkern | | F number | |
| F isspace | | N scratchbox | |
| F keepcounts | | link | function |
| F reset | | linked | function |
| F resetcounts | | list | function |
| F setcursive | | listablefields | data table |
| F setkern | | listcodes | data table |
| F setligaindex | | listtoutf | function |
| F setmark | | literalvalues | data table |
| F setmove | | load | function |
| F setposition | | locate | function |
| F setspacekerns | | margincodes | data table |
| insert_after | function | marginkerncodes | data table |
| insert_before | function | markers | table |
| insert_list_after | function | F get | |
| installattributehandler | function | mathcodes | data table |

| | | |
|---------------------------|------------|----------------------|
| maxboxwidth | function | F flush_list |
| mlist_to_hlist | function | F flush_node |
| new | function | F free |
| noadcodes | data table | F fullhpack |
| noadoptions | table | F get_synctex_fields |
| N axis | | F getattr |
| N exact | | F getattribute |
| N left | | F getattributelist |
| N middle | | F getattrlist |
| N no_axis | | F getboth |
| N right | | F getbox |
| N set | | F getboxglue |
| N unused_1 | | F getchar |
| N unused_2 | | F getcomponents |
| nodecodes | data table | F getdata |
| nopts | function | F getdepth |
| nuts | table | F getdir |
| F append | | F getdirection |
| F apply | | F getdisc |
| F applyvisuals | | F getdiscretionary |
| F check_discretionaries | | F getexpansion |
| F concat | | F getfam |
| F copy | | F getfield |
| F copy_list | | F getfont |
| F copy_no_components | | F getglue |
| F copy_node | | F getglyphdata |
| F copy_only | | F getheight |
| F copy_only_glyphs | | F getid |
| F copy_properties | | F getkern |
| F copyvisual | | F getlang |
| F count | | F getlanguage |
| F countall | | F getleader |
| F current_attr | | F getlist |
| F delete | | F getnext |
| F dimensions | | F getnucleus |
| F effective_glue | | F getoffsets |
| F end_of_math | | F getorientation |
| F find_attribute | | F getpenalty |
| F first_glyph | | F getpost |
| F firstcharacter | | F getpre |
| F firstcharinbox | | F getprev |
| F firstglyph | | F getprop |
| F flatten_discretionaries | | F getreplace |
| F flush | | F getruledata |

| | |
|---------------------|-------------------|
| F getshift | F direction |
| F getsub | F directliteral |
| F getsubtype | F disc |
| F getsup | F emptyrule |
| F getsurround | F fence |
| F getvalue | F fontkern |
| F getwhd | F fraction |
| F getwidth | F glue |
| F has_attribute | F glyph |
| F has_dimensions | F hlist |
| F has_field | F italicckern |
| F has_glyph | F kern |
| F hpack | F latelua |
| F hyphenating | F leader |
| F insert_after | F leftmarginkern |
| F insert_before | F leftskip |
| F insert_list_after | F lineskip |
| F is_direct | F literal |
| F is_display_math | F mathchar |
| F is_node | F mathtextchar |
| F is_nut | F negatedglue |
| F is_zero_glue | F noad |
| F ischar | F originliteral |
| F isdone | F outlinerule |
| F isglyph | F pageliteral |
| F kerning | F penalty |
| F last_node | F radical |
| F leftmarginwidth | F rawliteral |
| F length | F register |
| F ligaturing | F restore |
| F link | F rightmarginkern |
| F linked | F rightskip |
| F locate | F rule |
| F mlist_to_hlist | F save |
| F nestedtracedslide | F savepos |
| F new | F setmatrix |
| T pool | F shrink |
| F accent | F stretch |
| F baselineskip | F subbox |
| F boundary | F sublist |
| F choice | F temp |
| F cleanup | F textdir |
| F delim | F usage |
| F delimiter | T userids |

| | |
|------------------------|----------------------|
| N margins.inline | F setdirection |
| N splitters.one | F setdisc |
| N splitters.two | F setdiscretionary |
| F usernode | F setexpansion |
| F userrule | F setfam |
| F vlist | F setfield |
| F wordboundary | F setfont |
| F prepend | F setglue |
| F processranges | F setglyphdata |
| F processwords | F setheight |
| F protect_glyph | F setkern |
| F protect_glyphs | F setlang |
| F protrusion_skippable | F setlanguage |
| F rangedimensions | F setleader |
| F rawprop | F setlink |
| F reference | F setlist |
| F rehpack | F setnext |
| F remove | F setnucleus |
| F repackhlist | F setoffsets |
| F replace | F setorientation |
| F rightmarginwidth | F setparproperty |
| T rules | F setpenalty |
| T ruleactions | F setpost |
| F box | F setpre |
| F draw | F setprev |
| F fill | F setprop |
| F mp | F setreplace |
| F stroke | F setruledata |
| F userrule | F setshift |
| F set_attribute | F setsplit |
| F set_synctex_fields | F setsub |
| F setattr | F setsubtype |
| F setattribute | F setsup |
| F setattributelist | F setsurround |
| F setattributes | F setunsetattributes |
| F setattrlist | F setvalue |
| F setboth | F setvisual |
| F setbox | F setvisuals |
| F setboxglue | F setwhd |
| F setchar | F setwidth |
| F setcomponents | F slide |
| F setdata | F somepenalty |
| F setdepth | F somespace |
| F setdir | F splitbox |

| | | |
|--------------------|---------------------|------------|
| F striprange | F uses_font | |
| F tail | F vianodes | |
| F takeattr | F vianuts | |
| F takebox | F vpack | |
| F takelist | F write | |
| F theprop | packlist | function |
| F tonode | penaltycodes | data table |
| F tonodes | plugindata | table |
| F tonut | F finalizer | |
| F tosequence | F initializer | |
| F tostring | S name | |
| F tracedslide | T namespace | |
| F traverse | N attribute | |
| F traverse_char | D data | |
| F traverse_glyph | F enable | |
| F traverse_id | F handler | |
| F traverse_list | F register | |
| T traversers | D registered | |
| F boundary | D values | |
| F char | F processor | |
| F dir | points | function |
| F disc | pool | table |
| F glue | F baselineskip | |
| F glyph | F cleanup | |
| F hlist | F directliteral | |
| F list | F glyph | |
| F next | F hlist | |
| F node | F latelua | |
| F vlist | F lineskip | |
| F whatsit | F literal | |
| T typesetters | F originliteral | |
| F tohbox | F register | |
| F tohpack | F restore | |
| F tonodes | F save | |
| F tovbox | F savepos | |
| F tovpack | F setmatrix | |
| F unprotect_glyph | F special | |
| F unprotect_glyphs | F usage | |
| F unset_attribute | F vlist | |
| F unsetattribute | prepend | function |
| F unsetattributes | print | function |
| F untracedslide | processors | table |
| F use_components | F contribute_filter | |
| F usedlist | B enabled | |

| | | | |
|-----------------------------|------------|-----------------------------|------------|
| F hpack_filter | | setglue | function |
| F post_linebreak_filter | | setleader | function |
| F pre_linebreak_filter | | setlink | function |
| F tracer | | setlist | function |
| properties | table | setnext | function |
| T data | | setprev | function |
| protect_glyph | function | setunsetattributes | function |
| protect_glyphs | function | shifts | table |
| protrusion_skippable | function | D data | |
| pts | function | F define | |
| radicalcodes | data table | F enable | |
| rangedimensions | function | F handler | |
| reference | function | show | function |
| references | table | showboxes | function |
| N attribute | | showcodes | function |
| T done | | showlist | function |
| F handler | | showsimplelist | function |
| T stack | | skipcodes | data table |
| reheap | function | skipvalues | data table |
| remove | function | slide | function |
| repackhlist | function | snapshots | table |
| replace | function | F getparameters | |
| report | function | F getsamples | |
| rightmarginwidth | function | F resetsamples | |
| rulecodes | data table | F takesample | |
| rules | table | somepenalty | function |
| D data | | somespace | function |
| F define | | splitbox | function |
| F enable | | stripdiscretionaries | function |
| F handler | | stripping | table |
| F userrule | | T glyphs | |
| save | function | F set | |
| serialize | function | subtypes | data table |
| serializebox | function | tail | function |
| set_attribute | function | takeattr | function |
| setattrr | function | takebox | function |
| setattribute | function | tasks | table |
| setattributes | function | F actions | |
| setboth | function | F appendaction | |
| setbox | function | F disableaction | |
| setboxtonaturalwd | function | F disablegroup | |
| setchar | function | F enableaction | |
| setfield | function | F enablegroup | |
| setfont | function | F freeze | |

| | | | |
|-----------------------|----------|-----------------------|----------|
| F freezgroup | | T nodes | |
| F new | | F rule | |
| F prependaction | | T nuts | |
| F removeaction | | F rule | |
| F replaceaction | | F resetproperties | |
| F restart | | F rule | |
| F setaction | | F setlist | |
| F showactions | | F setproperties | |
| F table | | F start | |
| tobasepoints | function | T steppers | |
| tocentimeters | function | F check | |
| tociceros | function | F codes | |
| todidots | function | F features | |
| todimen | function | F font | |
| toinches | function | F glyphs | |
| tomillimeters | function | F message | |
| tonewciceros | function | F messages | |
| tonewdidots | function | F nofsteps | |
| tonode | function | F register | |
| tonodes | function | F reset | |
| tonut | function | F start | |
| topicsas | function | F stop | |
| topoints | function | F stop | |
| toscaledpoints | function | T transparencies | |
| tosequence | function | F reset | |
| tostring | function | F set | |
| totable | function | F setlist | |
| totree | function | traverse | function |
| toutf | function | traverse_char | function |
| tracers | table | traverse_glyph | function |
| T characters | | traverse_id | function |
| F collect | | traverse_list | function |
| F equal | | traversers | table |
| F start | | F char | |
| F string | | F glyph | |
| F unicodes | | F list | |
| T colors | | F node | |
| F reset | | typesetters | table |
| F set | | F hbox | |
| F setlist | | F hpack | |
| F fontchar | | F tohbox | |
| T frequencies | | F tohpack | |
| F register | | F tonodes | |
| T pool | | F to vbox | |

| | | | |
|-------------------------|------------|---------------------|------------|
| F tovpack | | F attribute | |
| F vpack | | T attributes | |
| unprotect_glyph | function | F box | |
| unprotect_glyphs | function | F handler | |
| unset_attribute | function | F markfonts | |
| unsetattribute | function | F register | |
| unsetattributes | function | F setfont | |
| usedlist | function | F setlayer | |
| usercodes | data table | F setruledglyph | |
| uses_font | function | F setvisual | |
| vianodes | function | vpack | function |
| vianuts | function | whatcodes | data table |
| visualizebox | function | whatsitcodes | data table |
| visualizers | table | write | function |

number (context)

| | | | |
|-----------------------|------------|-----------------------|----------|
| | function | tobitstring | function |
| basepoints | function | tocentimeters | function |
| bytetodecimal | function | tociceros | function |
| compactfloat | function | tocontext | function |
| decimaltobyte | function | todidots | function |
| dimenfactors | data table | todimen | function |
| formatted | function | toevenhex | function |
| formattedfloat | function | toinches | function |
| idiv | function | tomillimeters | function |
| maxdimen | number | tonewciceros | function |
| nopts | function | tonewdidots | function |
| percent | function | tonumberf | function |
| points | function | tonumberg | function |
| pts | function | topicas | function |
| signed | function | topoints | function |
| sparseexponent | function | toscaled | function |
| splitdimen | function | toscaledpoints | function |
| tol6dot16 | function | valid | function |
| tobasepoints | function | | |

objects (context)

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

os (basic lua)

| | | | |
|---------------------|---------------------|----------------------|---------------------|
| __getenv__ | function | remove | overloaded function |
| __setenv__ | function | rename | overloaded function |
| binsuffix | string | resolvers | table |
| binsuffixes | table | F bits | |
| clock | function | resultof | function |
| converttime | function | runtime | function |
| date | function | selfdir | string |
| difftime | function | setenv | overloaded function |
| env | data table | setexitcode | function |
| exec | overloaded function | setlocale | overloaded function |
| execute | overloaded function | sleep | function |
| exit | overloaded function | spawn | overloaded function |
| fulltime | function | time | function |
| getenv | overloaded function | timezone | function |
| gettimeofday | function | tmpdir | 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 | luapaths | function |
| cpath | string | path | string |
| extralibpath | function | poplibpath | function |
| extralibpaths | function | popluapath | function |
| extralupath | function | preload | table |
| extralupaths | function | pushlibpath | function |
| helpers | table | pushluapath | function |
| libpaths | function | searchers | table |
| loaded | table | searchpath | function |
| loaders | table | seeall | function |
| loadlib | 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 (basic tex)

immediateobj function

pdf (extra tex)

| | | | |
|--------------------------|------------|------------------------|------------|
| arraytotable | function | getnofpages | function |
| close | function | getnumber | function |
| closestream | function | getpage | function |
| dictionarytotable | function | getpages | function |
| encryptioncodes | data table | getsize | function |
| getarray | function | getstatus | function |
| getboolean | function | getstream | function |
| getbox | function | getstring | function |
| getcatalag | function | gettrailer | function |
| getdictionary | function | getversion | function |
| getfromarray | function | new | function |
| getfromdictionary | function | objectcodes | data table |
| getfromreference | function | open | 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 |

pdfscanner (context)

scan function

physics (context)

units table

F registerunit

D tables

publications (context)

| | | | |
|-------------------------|------------|-----------------------------|----------|
| addtexentry | function | converttoxml | function |
| analyze | function | currentspecification | table |
| anywhere | function | S author | |
| authorcache | data table | T categories | |
| authorcollapsers | data table | T article | |
| authorhashers | table | S category | |
| F invertedshort | | T extra | |
| F normal | | T fields | |
| F normalinverted | | S author | |
| F normalshort | | S editor | |
| F sequential | | S journal | |
| F sequentialshort | | S keywords | |
| F short | | S note | |
| authormap | data table | S number | |
| authortoregister | function | 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 | |
| concatstate | function | T required | |

| | | |
|----------------|------------------------|------------|
| 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 | |
| S page | F load | |

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

| | | | | |
|----------------|-------------------------|---|--------------------|------------|
| D | privates | F | showtables | |
| D | sets | F | showvariants | |
| D | specials | | typesetters | table |
| D | types | F | author | |
| D | virtuals | F | string | |
| tags | | | usedataset | function |
| tracers | function | | usedentries | function |
| | table | | writers | table |
| F | showdatasetauthors | | F | author |
| F | showdatasetcompleteness | | F | keyword |
| F | showdatasetfields | | F | pagenumber |
| F | showentry | | F | range |
| F | showfields | | | |
| F | showhashedauthors | | | |

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 | findpath | function |
| appendhash | function | findpk | function |
| automount | function | findtexfile | function |
| automounted | table | findwildcardfile | function |
| booleanvariable | function | findwildcardfiles | function |
| cacheversion | string | formatofsuffix | function |
| checkedvariable | function | formatofvariable | function |
| cleanedpathlist | function | formats | data table |
| cleanpath | function | foundintree | function |
| cleanpathlist | function | foundintrees | function |
| concatinators | data table | generators | data table |
| configbanner | string | get_from_content | function |
| configurationfiles | function | getenv | function |
| criticalvars | data table | getextrapaths | function |
| dangerous | data table | getfilehashes | function |
| datastate | function | gethashes | function |
| defaultsuffixes | table | getownpath | function |
| dowithfilesandreport | function | getreadfilename | function |
| dowithfilesintree | function | hashers | data table |
| dowithpath | function | homedir | string |
| dowithvariable | function | initialized | function |
| env | function | inputstack | table |
| executers | table | installinputfilehandler | function |
| expandbraces | function | installinputlinehandler | function |
| expandedpathfromlist | function | jobpath | function |
| expandedpathlist | function | jobs | table |
| expandedpathlistfromvariable | function | F currentcomponent | |
| expandpath | function | F currentenvironment | |
| expandpathfromvariable | function | F currentproduct | |
| expansion | function | F currentproject | |
| extendtexmfvariable | function | F justacomponent | |
| filtered_from_content | function | D processors | |
| find_file | function | F productcomponent | |
| find_files | function | F usefile | |
| findbinfile | function | joinpath | function |
| findctxfile | function | knownvariables | function |
| finders | data table | load | function |
| findfile | function | loadbinfile | function |
| findfiles | function | loaders | data table |
| findgivenfile | function | loadlua lib | function |
| findgivenfiles | function | loadtexfile | function |

| | | | |
|--------------------------|------------|---------------------------------|------------|
| loadtime | function | resolve | function |
| locateformat | function | savers | data table |
| locators | data table | scandata | function |
| luacnffallback | string | scanfiles | function |
| luacnfname | string | schemes | table |
| luacnfspec | string | | |
| luacnfstate | string | T cleaners | |
| macros | table | F md5 | |
| | | F none | |
| F convertfile | | F strip | |
| F decodecomment | | F cleanname | |
| F enablecomment | | F fetchstring | |
| F encodecomment | | F fetchtable | |
| F preprocessed | | F install | |
| F processmk | | setdynamic | function |
| F processmklx | | setenv | function |
| F processmkvi | | setmemstream | 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 |
| poppath | function | suffixes | data table |
| prefixes | data table | suffixmap | data table |
| prependhash | function | suffixofformat | function |
| pushextrapath | function | texdatablob | function |
| pushpath | function | toppath | function |
| registerextrapath | function | unexpandedpath | function |
| registerfile | function | unexpandedpathlist | function |
| registerfilehash | function | unresolve | function |
| registerintrees | function | updaterelations | function |
| registermethod | function | updatescript | function |
| registerzipfile | function | uselibrary | function |
| relations | data table | usertypes | data table |
| renew | function | usezipfile | function |
| renewcache | function | validatedpath | function |
| repath | function | variable | function |
| reset | function | variableofformat | function |
| resetextrapaths | function | variableofformatorsuffix | function |
| resetmemstream | function | wildcardpattern | function |
| resetresolve | 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

categorytonumber data table

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

handlers data table

hash 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

numbertocategory data table

numbertodataset data table

numbertohandler data table

reset function

set function

splitters data table

set (context)

contains function

create function

tolist function

tonumber function

totable function

sha2 (context)

| | |
|------------------|----------|
| HASH256 | function |
| HASH384 | function |
| HASH512 | function |
| digest256 | function |
| digest384 | function |

| | |
|------------------|----------|
| digest512 | function |
| hash256 | function |
| hash384 | function |
| hash512 | function |

sio (context)

| | |
|--------------------------|----------|
| read2dot14 | function |
| readbytes | function |
| readbytetable | function |
| readcardinal1 | function |
| readcardinal2 | function |
| readcardinal3 | function |
| readcardinal4 | function |
| readcardinaltable | function |

| | |
|-------------------------|----------|
| readfixed2 | function |
| readfixed4 | function |
| readinteger1 | function |
| readinteger2 | function |
| readinteger3 | function |
| readinteger4 | function |
| readintegertable | function |

socket (extra lua)

| | | |
|-----------------------|---------------------|-----------------------------|
| BLOCKSIZE | number | S cc |
| _DATAGRAMSIZE | number | S comments |
| _DEBUG | boolean | S connection |
| _SETSIZE | number | S content-description |
| _SOCKETINVALID | number | S content-disposition |
| bind | overloaded function | S content-encoding |
| choose | overloaded function | S content-id |
| connect | function | S content-language |
| connect4 | overloaded function | S content-length |
| connect6 | overloaded function | S content-location |
| dns | table | S content-md5 |
| F getaddrinfo | | S content-range |
| F gethostname | | S content-transfer-encoding |
| F getnameinfo | | S content-type |
| F tohostname | | S cookie |
| F toip | | S date |
| ftp | table | S diagnostic-code |
| S PASSWORD | | S dsn-gateway |
| N TIMEOUT | | S etag |
| S USER | | S expect |
| F command | | S expires |
| F genericform | | S final-log-id |
| F get | | S final-recipient |
| F open | | S from |
| F put | | S host |
| gettime | function | S if-match |
| headers | overloaded 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 proxy-authenticate | F request | |
| S proxy-authorization | newtry | function |
| S range | protect | function |
| S received | report | function |
| S received-from-mta | select | function |
| S references | sink | overloaded function |
| S referer | sinkt | overloaded table |
| S remote-mta | F close-when-done | |
| S reply-to | F default | |
| S reporting-mta | F http-chunked | |
| S resent-bcc | F keep-open | |
| S resent-cc | skip | function |
| S resent-date | sleep | function |
| S resent-from | smtip | table |
| S resent-message-id | S DOMAIN | |
| S resent-reply-to | N PORT | |
| S resent-sender | S SERVER | |
| S resent-to | N TIMEOUT | |
| S retry-after | S ZONE | |
| S return-path | F message | |
| S sender | F open | |
| S server | F send | |
| S smtp-remote-recipient | source | overloaded function |
| S status | sourcet | overloaded table |
| S subject | F by-length | |
| S te | F default | |
| S to | F http-chunked | |
| S trailer | F until-closed | |
| S transfer-encoding | tcp | function |
| S upgrade | tcp4 | function |
| S user-agent | tcp6 | function |
| S vary | tp | overloaded table |
| S via | N TIMEOUT | |
| S warning | F connect | |
| S will-retry-until | try | overloaded function |
| S www-authenticate | udp | function |
| S x-mailer | udp4 | function |
| F lower | udp6 | function |
| F normalize | url | overloaded table |
| http | F absolute | |
| N TIMEOUT | F build | |
| S USERAGENT | F build_path | |
| F genericform | F escape | |
| F open | F parse | |

F parse_path

F unescape

sorters (context)

| | | | |
|---------------------|----------|------------------------|------------|
| basicsorter | function | B pm | |
| comparers | table | B uc | |
| F basic | | B zc | |
| constants | table | B zm | |
| S defaultdigits | | definitions | data table |
| S defaultlanguage | | firstofsplit | function |
| S defaultmethod | | packch | function |
| N digitmaximum | | packuc | function |
| N digitoffset | | replacementlist | function |
| N ignoredoffset | | setlanguage | function |
| N replacementoffset | | sort | function |
| T validmethods | | splitters | table |
| B ch | | F utf | |
| B mc | | strip | function |
| B mm | | tracers | data table |
| B pc | | update | function |

statistics (context)

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

status (basic tex)

list function

resetmessages function

setexitcode 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 | packsize | function |
| autosingle | function | quote | function |
| booleanstring | function | quoted | function |
| byte | function | rep | function |
| bytepairs | function | replacenewlines | function |
| bytes | function | reverse | function |
| bytetable | function | split | function |
| char | function | splitlines | function |
| characterpairs | function | splitup | function |
| characters | function | strip | function |
| checkedsplit | function | sub | function |
| collapsespaces | function | tformat | function |
| containsws | function | toHEX | function |
| count | function | toboollean | function |
| dump | function | tobytes | function |
| escapedpattern | function | tocontext | function |
| escapedquotes | function | todec | function |
| explode | function | todimen | function |
| find | function | tohex | function |
| format | function | tonodes | function |
| formatter | function | topattern | function |
| formatters | function | totable | function |
| fullstrip | function | toutf | function |
| gmatch | function | tracedchar | function |
| gsub | function | tracedchars | table |
| is_boolean | function | unpack | function |
| is_empty | function | unquote | function |
| itself | function | unquoted | function |
| len | function | upper | function |
| limit | function | utfcharacter | function |
| longtostring | function | utfcharacters | function |
| lower | function | utflength | function |
| match | function | utfpadd | function |
| nospaces | function | utfpadding | function |
| nspaces | table | utfvalue | function |
| optionalquoted | function | utfvalues | function |
| pack | function | valid | function |

structures (context)

| | | |
|-------------------|----------|--------------------------------------|
| atlocation | function | F next |
| blocks | table | F prev |
| D collected | | F previous |
| F define | | 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 formulanumber |
| 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 last | | F title |

| | | | |
|-------------------|--------------|----------------------------|--------------|
| F touserdata | | F reordered | |
| inserts | table | T result | |
| D data | | F savedlistnumber | |
| F define | | F savedlistprefixednumber | |
| F getdata | | F savedlisttitle | |
| F getlocation | | D sectionblocks | |
| F getname | | F sectionnumber | |
| F getnumber | | F size | |
| F setlocation | | F title | |
| F setup | | D tobesaved | |
| D stored | | F userdata | |
| itemgroups | table | F uservalue | |
| lists | table | marks | table |
| F addto | | D data | |
| F analyze | | F define | |
| B autoreorder | | F exists | |
| D cached | | F fetch | |
| D collected | | F fetchallmarks | |
| F discard | | F fetched | |
| F enhance | | F fetchonemark | |
| T enhancers | | F fetchtwomarks | |
| F filter | | F get | |
| F formulainumber | | F number | |
| F getresult | | F relate | |
| F groupindex | | F reset | |
| F hasnumberdata | | F set | |
| F haspagedata | | F show | |
| F hastitledata | | F synchronize | |
| F iscached | | F title | |
| D kinds | | T tracers | |
| F label | | F showtable | |
| F location | | notes | table |
| D names | | F check_spacing | |
| F number | | F checkpagechange | |
| D ordered | | F define | |
| F page | | F doifonsamepageasprevious | |
| F popnesting | | F get | |
| F prefix | | F getdeltapage | |
| F prefixednumber | | F getinternal | |
| F prefixedpage | | F getn | |
| F process | | F getstate | |
| D pushed | | F hascontent | |
| F pushnesting | | F internal | |
| F realpage | | F internalid | |

| | | |
|---------------------|--------------|----------------------------------|
| F listindex | | T files |
| T numbers | | T data |
| F ordered | | F define |
| F postpone | | F found |
| F resetpostponed | | F get |
| F restore | | F filter |
| F save | | F filterdefault |
| F setstate | | D filters |
| D states | | D flaginternals |
| F store | | F from |
| pages | table | D functions |
| F allmarked | | F get |
| F analyze | | F getcurrentmetadata |
| D collected | | F getcurrentprefixspec |
| F fraction | | F getinnermethod |
| F in_body | | F getinternalcachedlistreference |
| F is_odd | | F getinternallistreference |
| F mark | | F getinternalreference |
| F marked | | F getoutermethod |
| N nopages | | D handlers |
| F number | | F identify |
| F on_right | | F import |
| F save | | F inject |
| D tobesaved | | F injectcurrentset |
| F toranges | | S innermethod |
| references | table | D internals |
| F analyze | | F load |
| F checkedfile | | F loadpresets |
| F checkedfileorurl | | F mark |
| F checkedprogram | | S outermethod |
| F checkedrealpage | | D pages |
| F checkedurl | | U prefixsplitter |
| D collected | | D productdata |
| U componentsplitter | | T programs |
| F currentmetadata | | T data |
| F currentorder | | F define |
| D currentset | | F get |
| F define | | F realpageofpage |
| D defined | | U referencesplitter |
| D derived | | D referred |
| F enhance | | F referredpage |
| D executers | | F registerfinalizer |
| F expandcurrent | | F registerinitializer |
| F export | | F registerpage |

- F reset
- D runners
- F set
- F setandgetattribute
- F setcomponent
- F setinternalreference
- F setlinkmethod
- F setnextinternal
- F setnextorder
- F setreferencerealpage
- 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

- F analyze
- D collected
- F compare

table

- F define
- F enhance
- F extend
- F filter
- F filtercollected
- F finalize
- F findinternal
- F flush
- F get
- F prepare
- F process
- F setmethod
- F sort
- F store
- D tobesaved
- F unique
- F userdata

sections

- 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

table

- 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 filter
- F finalize
- F flush
- F isshown
- F isused
- F meaning
- F prepare
- F process
- F register
- F registershown

- F registerused
- F resetshown
- F resetused
- F sort
- F synonym
- D tobesaved

tags table

- F current
- F elementtag
- F finishexport
- F getextradata
- F getid
- F getmetadata
- F gettablecell
- F gettabulatecell
- F handler
- F initializeexport
- D labels
- F last
- F lastinchain
- F locatedtag
- T patterns
 - U splitter
- D properties
- F registerextradata
- F registermetadata
- F restart
- F setaspect
- F setattributehash
- F setcombination
- F setconstruct
- F setfigure
- F setfloat
- F setformulacontent
- F sethighlight
- F setitem
- F setitemgroup
- F setlist
- F setnotation
- F setnotationsymbol
- F setparagraph
- F setproperty
- F setpublication
- F setregister

| | |
|---------------------------|------------------|
| F setsorting | D specifications |
| F setsynonym | F start |
| F settablecell | F stop |
| F settabulatecell | F strip |
| F settagdelimitedsymbol | D taglist |
| F settagsubsentencesymbol | T usewithcare |
| F setupexport | T images |
| F setuserproperties | |

table (basic lua)

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

tex (basic tex)

| | | | |
|---------------------------------|------------|----------------------------|---------------------|
| attribute | table | getdimen | function |
| badness | function | getglue | function |
| box | table | getglyphdata | function |
| boxresources | table | getlccode | function |
| F getbox | | getlist | function |
| F getdimensions | | getlocallevel | function |
| F save | | getmath | function |
| F use | | getmathcode | function |
| catcode | table | getmathcodes | function |
| conditionals | data table | getmodevalues | function |
| constants | data table | getmuglue | function |
| count | table | getmuskip | function |
| cprint | function | getnest | function |
| ctdcatcodes | number | getpagestate | function |
| ctxcatcodes | number | getsfcode | function |
| definefont | function | getskip | function |
| delcode | table | gettoks | function |
| dimen | table | getuccode | function |
| directives | data table | glue | table |
| enableprimitives | function | hashtokens | function |
| error | function | ifs | data table |
| extraprimitives | function | inimatcodes | number |
| finish | function | init_rand | function |
| fontidentifier | function | isattribute | function |
| fontname | function | isbox | function |
| force_synctex_line | function | iscount | overloaded function |
| force_synctex_tag | function | isdefined | function |
| forcehmode | function | isdimen | overloaded function |
| fprint | function | isglue | function |
| get | function | ismuglue | function |
| get_synctex_line | function | ismuskip | overloaded function |
| get_synctex_mode | function | isskip | overloaded function |
| get_synctex_tag | function | istoken | function |
| getattribute | function | istoks | function |
| getbox | function | lccode | table |
| getboxresourcebox | function | linebreak | function |
| getboxresourcedimensions | function | lists | table |
| getcatcode | function | lua_math_random | function |
| getcount | function | lua_math_randomseed | function |
| getdelcode | function | luacatcodes | number |
| getdelcodes | function | magicconstants | table |

| | | | |
|----------------------|------------|------------------|------------|
| N maxdimen | | setlccode | function |
| N running | | setlist | function |
| N trueinch | | setmath | function |
| mathcode | table | setmathcode | function |
| modes | data table | setmuglue | function |
| muglue | table | setmuskip | function |
| muskip | table | setnest | function |
| nest | table | setsfcode | function |
| nilcatcodes | number | setskip | function |
| normal_rand | function | settoks | function |
| notcatcodes | number | setuccode | function |
| number | function | sfcode | table |
| primitives | function | shipout | function |
| print | function | show_context | function |
| prtcategories | number | skip | table |
| quittoks | function | sp | function |
| resetparagraph | function | splitbox | function |
| romannumeral | function | sprint | function |
| round | function | systemmodes | data table |
| run | function | takebox | function |
| runtoks | function | texcatcodes | number |
| saveboxresource | function | toks | table |
| scale | function | tpacatcodes | number |
| scantoks | function | tpbcatcodes | number |
| set | function | tprint | function |
| set_synctex_line | function | trackers | data table |
| set_synctex_mode | function | triggerbuildpage | function |
| set_synctex_no_files | function | txtcatcodes | number |
| set_synctex_tag | function | type | function |
| setattribute | function | uccode | table |
| setbox | function | uniform_rand | function |
| setcatcode | function | uniformdeviate | function |
| setcount | function | uprint | function |
| setdelcode | function | useboxresource | function |
| setdimen | function | vrbcategories | number |
| setglue | function | write | function |
| setglyphdata | function | | |

texconfig (basic tex)

| | | | |
|------------------------|---------------------|------------------------|-------------------|
| error_line | number | max_in_open | number |
| expand_depth | number | max_print_line | number |
| fix_mem_init | number | max_strings | number |
| formatname | string | nest_size | number |
| function_size | number | param_size | number |
| half_error_line | number | properties_size | number |
| hash_extra | number | save_size | number |
| init | overloaded function | shell_escape | string |
| kpse_init | boolean | stack_size | overloaded number |

texio (basic tex)

closeinput function

setescape function

write function

write_nl function

token (basic tex)

| | | | |
|-----------------------|----------|------------------------|----------|
| biggest_char | function | put_next | function |
| command_id | function | scan_argument | function |
| commands | function | scan_box | function |
| create | function | scan_code | function |
| expand | function | scan_csname | function |
| get_active | function | scan_dimen | function |
| get_cmdname | function | scan_float | function |
| get_command | function | scan_glue | function |
| get_csname | function | scan_int | function |
| get_expandable | function | scan_keyword | function |
| get_id | function | scan_keyword_cs | function |
| get_index | function | scan_list | function |
| get_macro | function | scan_real | function |
| get_meaning | function | scan_string | function |
| get_mode | function | scan_token | function |
| get_next | function | scan_toks | function |
| get_protected | function | scan_word | function |
| get_tok | function | set_char | function |
| is_defined | function | set_lua | function |
| is_token | function | set_macro | function |
| new | function | type | function |

tokens (context)

| | | |
|-----------------------|----------|----------------------------|
| astable | function | U loadfoundtypescriptfile |
| bgroup | userdata | U resetctxscanner |
| bits | table | U rlap |
| N active | | U scratchcounter |
| N alignment | | U scratchdimen |
| N begingroup | | U scratchmuskip |
| N character | | U scratchskip |
| N close | | U scratchtoken |
| N comment | | U secondoftwoarguments |
| N endgroup | | U setfalsevalue |
| N endoffline | | U setsectionblock |
| N escape | | U setupsystem |
| N ignore | | U startcolumns |
| N invalid | | U starttabulate |
| N letter | | U starttitle |
| N mathshift | | U startxtitle |
| N open | | U stopcolumns |
| N other | | U stoptabulate |
| N parameter | | U stoptitle |
| N space | | U stopxtitle |
| N subscript | | U texsetup |
| N superscript | | U xmlw |
| N whitespace | | |
| cache | table | collectors table |
| U NC | | T data |
| U NR | | F defaultwords |
| U bf | | F dowithwords |
| U color | | F flush |
| U colordefalc | | F install |
| U colordefflc | | F register |
| U colordefflt | | T registered |
| U colordefrlt | | F show |
| U dofinishreference | | F test |
| U dostarttext | | commands data table |
| U finishjob | | compile function |
| U firstofoneargument | | constant function |
| U firstoftwoarguments | | converters table |
| U gobbleoneargument | | S toboolean |
| U goto | | S todimen |
| U iftrue | | S toglue |
| U input | | S tonumber |
| | | S toString |

create function
defined function
egroup userdata
getters table

F box
 F count
 F dimen
 F glue
 F macro
 F meaning
 F skip
 F token

hbox userdata
isdefined function
istoken function
letter function
letters function
new function
other function
pickup function
presets table

T 1 string
 T 2 strings
 T 3 strings
 T 4 strings
 T 5 strings
 T 6 strings
 T 7 strings
 T 8 strings

printlist function
scanners table

F argument
 F boolean
 F box
 F code
 F conditional
 F count
 F csname
 F dimen
 F dimension
 F float
 F glue
 F hbox
 F integer

F keyword
 F keywordcs
 F list
 F lxmld
 F number
 F real
 F scanclose
 F scanopen
 F string
 F table
 F token
 F tokens
 F toks
 F vbox
 F verbatim
 F vtop
 F whd
 F word

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
 N character
 N close
 N comment
 N endgroup
 N endofline
 N escape
 N ignore
 N invalid
 N letter
 N mathshift
 N open
 N other

| | |
|-------------------|---------------------------|
| N parameter | F scanopen |
| N space | F string |
| N subscript | F table |
| N superscript | F token |
| N whitespace | F tokens |
| N close | F toks |
| F inspect | F vbox |
| N open | F verbatim |
| F report | F vtop |
| F scanargument | F whd |
| F scanboolean | F word |
| F scanbox | F scannumber |
| F scanclose | F scanopen |
| F scancode | F scanstring |
| F scanconditional | F scantable |
| F scancsname | F scanvbox |
| F scandimen | F scanverbatim |
| F scandimension | F scanvtop |
| F scanhbox | F scanword |
| F scaninteger | F toboolean |
| F scankeyword | F todimen |
| F scankeywordcs | T tokens |
| F scanlist | F astable |
| T scanners | U bgroup |
| F argument | T cache |
| F boolean | U NC |
| F box | U NR |
| F code | U bf |
| F conditional | U color |
| F count | U colordefalc |
| F csname | U colordefflc |
| F dimen | U colordefflt |
| F dimension | U colordefrlt |
| F float | U dofinishreference |
| F glue | U dostarttext |
| F hbox | U finishjob |
| F integer | U firstofoneargument |
| F keyword | U firstoftwoarguments |
| F keywordcs | U gobbleoneargument |
| F list | U goto |
| F lxmld | U iftrue |
| F number | U input |
| F real | U loadfoundtypescriptfile |
| F scanclose | U resetctxscanner |

| | |
|------------------------|-------------------|
| U rlap | F glue |
| U scratchcounter | F macro |
| U scratchdimen | F meaning |
| U scratchmuskip | F skip |
| U scratchskip | F token |
| U scratchtoken | U hbox |
| U secondoftwoarguments | F isdefined |
| U setfalsevalue | F istoken |
| U setsectionblock | F letter |
| U setupsystem | F letters |
| U startcolumns | F new |
| U starttabulate | F other |
| U starttitle | F pickup |
| U startxtitle | T presets |
| U stopcolumns | F printlist |
| U stoptabulate | T setters |
| U stoptitle | F box |
| U stopxtitle | F char |
| U texsetup | F count |
| U xmlw | F dimen |
| T collectors | F glue |
| F defaultwords | F lua |
| F dowithwords | F macro |
| F flush | F skip |
| F install | T shortcuts |
| F register | N close |
| F show | F inspect |
| F test | N open |
| D commands | F report |
| F compile | F scanargument |
| F constant | F scanboolean |
| T converters | F scanbox |
| S toboolean | F scanclose |
| S todimen | F scancode |
| S toglue | F scanconditional |
| S tonumber | F scansname |
| S tostring | F scandimen |
| F create | F scandimension |
| F defined | F scanhbox |
| U egroup | F scaninteger |
| T getters | F scankeyword |
| F box | F scankeywordcs |
| F count | F scanlist |
| F dimen | F scannumber |

| | | |
|----------------|-------------|----------|
| F scanopen | F tonumber | |
| F scanstring | F tostring | |
| F scantable | U vbox | |
| F scanvbox | U vtop | |
| F scanverbatim | F tonumber | |
| F scanvtop | F tostring | |
| F scanword | vbox | userdata |
| F toboolean | vtop | userdata |
| F todimen | | |

tracers (context)

| | | | |
|------------------|----------|---------------------|----------|
| count | function | primitive | function |
| cs | function | printerror | function |
| dimen | function | printwarning | function |
| knownlist | function | showlines | function |
| lists | table | strings | table |
| T context | | S undefined | |
| T internals | | toks | function |
| T scratch | | type | function |
| name | function | | |

trackers (context)

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

typesetters (context)

| | | | |
|-----------------------|-------|-------|-------------------|
| alignments | table | | |
| F handler | | | T handlers |
| F set | | | F installhandler |
| breakpoints | table | | F processmath |
| F define | | | F set |
| F handler | | | F setcolor |
| D mapping | | | F setmath |
| T methods | | | F tomode |
| T numbers | | | firstlines |
| F set | | table | |
| F setreplacement | | | T actions |
| cases | table | | F default |
| T actions | | | F line |
| F handler | | | F word |
| F register | | | F handler |
| F set | | | F set |
| characteralign | table | | fontkerns |
| F handler | | | table |
| F resetcharacteralign | | | F handler |
| F setcharacteralign | | | initials |
| characters | table | | table |
| F handler | | | T actions |
| T methods | | | F default |
| F replacenbsp | | | F addanchortoline |
| F replacenbspaces | | | F addtoline |
| checkers | table | | F calculatedelta |
| F handler | | | F checkline |
| F reset | | | F handler |
| F set | | | F moveinline |
| cleaners | table | | F normalize |
| F handler | | | F set |
| F set | | | injectors |
| digits | table | | table |
| T actions | | | F check |
| F handler | | | T list |
| F set | | | F mark |
| directions | table | | F reset |
| F getfences | | | F set |
| F getglobal | | | F show |
| F getmethod | | | italics |
| F handler | | table | |
| | | | F enablemath |
| | | | F enabletext |
| | | | F forcevariant |
| | | | F handler |
| | | | F reset |
| | | | F set |

kerns table

D factors
F handler
F keepligature
D mapping
F set

manipulators table

F apply
F applyspecification
T methods
F Word
F Words
F abbreviatedjournal
F expandedjournal
F lowercase
F stripperperiod
F uppercase
T patterns
U list
U pair
F splitspecification

margins table

F finalhandler
F globalhandler
F localhandler
F save

marksuspects function

paragraphs table

F addanchortoline
F addtoline
F calculatedelta
F checkline
F handler
F moveinline
F normalize
F set

periodkerns table

D factors
F handler
D mapping
F set

processors table

F apply
F register
F reset
F split
F startapply
F stopapply
F stripped
F toString

rubies table

F attach
F check

showsuspects function

spacings table

F define
F handler
D mapping
T numbers
T frenchpunctuation
T characters
S name
N number

F reset

F set

F setup

wrappers table

F handler

xtables table

F cleanup
F construct
F create
F finish_row
F flush
F initialize_construct
F initialize_reflow_height
F initialize_reflow_width
F next_row
F reflow_height
F reflow_width
F set_construct
F set_reflow_height
F set_reflow_width

updaters (context)

apply function

register function

url (context)

| | |
|------------------|----------|
| addscheme | function |
| barepath | function |
| construct | function |
| decode | function |
| encode | function |
| escape | function |
| filename | function |

| | |
|--------------------|----------|
| hashed | function |
| hasscheme | function |
| query | function |
| split | function |
| toquery | function |
| unescape | function |
| unescapeget | function |

utf8 (context)

| | |
|--------------------|----------|
| 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 readcardinal2
F readcardinal2le
F readcardinal3
F readcardinal3le
F readcardinal4
F readcardinal4le
F readcardinaltable
F readchar
F readfixed2
F readfixed4
F readinteger
F readinteger1
F readinteger2
F readinteger2le
F readinteger3
F readinteger3le
F readinteger4
F readinteger4le
F readintegertable
F readsignedbyte
F readstring
F readtag
F setposition

F size
F skip
F skiplong
F skipposition
F skipshort
F writebyte
F writecardinal2
F writecardinal2le
F writecardinal4
F writecardinal4le
F writestring

formatters table

F formatcolumns
F list
F stripzeros

garbagecollector table

F check
N criterium
B enabled

lua table

B alwaysstripcode
F checkmemory
F compile
F loadedluacode
F loadstring
F loadstripped
N nofstrippedbytes
N nofstrippedchunks
F registerfinalizer
B stripcode
T strippedchunks
F strippedloadstring
T suffixes
S lua
S luc
S lui
S luj
S luv
S tma
S tmc
S tua

| | | | |
|----------------|---|---|--|
| S | tuc | B | latin-modern-condensed-designsize |
| packers | table | B | latin-modern-light-condensed |
| F | hashed | B | modern-condensed |
| F | new | B | modern-light-condensed |
| F | pack | T | modern-light,latin-modern-light-designsize,latin-modern-light-condensed |
| F | simplehashed | B | latin-modern-light |
| F | strip | B | latin-modern-light-designsize |
| F | unpack | B | modern-light |
| N | version | T | modern-mono,modern-base-mono |
| parsers | table | B | modern-base-mono |
| F | add_settings_to_array | B | modern-mono |
| F | arguments_to_table | T | modern-variable,latin-modern-variable-designsize,latin-modern-variable-light |
| F | array_to_string | B | latin-modern-variable |
| F | csvsplitter | B | latin-modern-variable-designsize |
| F | getparameters | B | modern-variable |
| F | groupedsplitat | T | modernvariable,modern-variable |
| F | hash_to_string | B | modern-variable |
| T | hashes | B | modernvariable |
| T | settings_to_set | T | modernvariablelight,modern-variable-light |
| T | min,max,fit,broad,auto | B | modern-variable-light |
| B | auto | B | modernvariablelight |
| B | broad | T | serif,sans,mono |
| B | fit | B | mono |
| B | max | B | sans |
| B | min | B | serif |
| T | modern,latin-modern | T | text,hidden,paper,page,leftpage,rightpage |
| B | latin-modern | B | hidden |
| B | modern | B | leftpage |
| T | modern,latin-modern,modern-variable,latin-modern-variable,modern-variable-light | B | modern-condensed,latin-modern-condensed |
| B | latin-modern | B | paper |
| B | latin-modern-condensed | B | rightpage |
| B | latin-modern-variable | B | text |
| B | modern | F | iterator |
| B | modern-condensed | F | keq_to_hash |
| B | modern-variable | F | listitem |
| T | modern,latin-modern-designsize,latin-modern | F | make_settings_to_hash_pattern |
| B | latin-modern | F | mergehashes |
| B | latin-modern-designsize | F | options_to_array |
| B | modern | F | options_to_hash |
| T | modern,modern-base | T | patterns |
| B | modern | U | settings_to_array |
| B | modern-base | U | settings_to_hash_a |
| T | modern-condensed,latin-modern-condensed-designsize,latin-modern-condensed | U | settings_to_hash_c |
| B | latin-modern-condensed | U | settings_to_hash_c |

- U settings_to_hash_d
- U unittotex
- F process_stripped_settings
- F rfc4180splitter
- F runtime
- F settings_to_array
- F settings_to_array_obey_fences
- F settings_to_array_with_repeat
- F settings_to_hash
- F settings_to_hash_colon_too
- F settings_to_hash_strict
- F settings_to_hash_tolerant
- F settings_to_numbers
- F settings_to_set
- F simple_hash_to_string
- F splitmethod
- F splitthousands
- F stepper
- F stripped_settings_to_array
- F totime
- F unittotex
- F unittotxml

randomizer table

- F get
- F getnumber
- F getseed
- F popseed
- F pushseed
- F reuseseed
- F setseed
- F setseedi

report function

sequencers table

- F appendaction
- F appendgroup
- F compile
- F disableaction
- F disablegroup
- F enableaction
- F enablegroup
- D functions
- F localize
- F new
- F nodeprocessor

- F prependaction
- F prependgroup
- F removeaction
- F replaceaction
- F setkind
- F tostring

setters table

- F disable
- F enable
- F initialize
- F list
- F new
- F register
- F report
- F reset
- F show

stacker table

- F new

storage table

- F allocate
- F checked
- F mark
- F marked
- F setinitializer
- F sparse

streams table

- F close
- F getposition
- F getsizes
- F getstring
- F look
- F open
- F openstring
- F read2dot14
- F read2dot4
- F readbyte
- F readbytes
- F readbytetable
- F readcardinal
- F readcardinal1
- F readcardinal2
- F readcardinal2le
- F readcardinal3
- F readcardinal3le

- F readcardinal4
- F readcardinal4le
- F readcardinaltable
- F readchar
- F readfixed2
- F readfixed4
- F readinteger
- F readinteger1
- 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

strings table

- F collapse
- F collapsecrlf
- T formatters
 - F add
 - F new
- F newcollector

- F newrepeater
- F nice
- T striplinepatterns
 - U collapse
 - 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

templates table

- F load
- F replace
- F replacer
- F resolve

vf (context)

| | |
|---------------|----------|
| char | function |
| down | function |
| fontid | function |
| image | function |
| node | function |
| nop | function |

| | |
|----------------|----------|
| pdf | function |
| pop | function |
| push | function |
| right | function |
| rule | function |
| special | function |

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 | | |

xml (context)

| | | | |
|---------------------------|----------|------------------------|------------|
| addentitiesdoctype | function | F mappedstylevalue | |
| addspecialcode | function | F padding | |
| after | function | F size | |
| all | function | F style | |
| applylpath | function | F stylevalue | |
| applyselector | function | F todimension | |
| assign | function | F variant | |
| attribute | function | F weight | |
| badinclusions | function | defaulthandlers | table |
| before | function | D file | |
| body | function | D parsedxml | |
| builtinentities | table | D string | |
| B amp | | D tex | |
| B apos | | D texline | |
| B gt | | D texspace | |
| B lt | | D verbose | |
| B quot | | defaultprotocol | string |
| cdata | function | delete | function |
| cdatatotext | function | delete_element | function |
| checkbom | 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 | 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 family | | F lower | |
| F fontspecification | | F name | |

| | | | |
|-------------------|----------|----------------------------|----------|
| F number | | T xml | |
| F oneof | | F all | |
| F print | | F att | |
| F quit | | F attribute | |
| F tag | | F attributes | |
| F text | | F cdata | |
| F undefined | | F chainattribute | |
| F upper | | F count | |
| fillin | function | F default | |
| filter | function | F elements | |
| finalizers | table | F empty | |
| F paragraphs | | F first | |
| T tex | | F function | |
| F all | | F index | |
| F attribute | | F last | |
| F chainattribute | | F lowerall | |
| F chainpath | | F match | |
| F command | | F name | |
| F concat | | F position | |
| F concatrange | | F reverse | |
| F context | | F table | |
| F count | | F tag | |
| F ctxtext | | F tags | |
| F default | | F text | |
| F first | | F texts | |
| F function | | F upperall | |
| F index | | first | function |
| F last | | found | function |
| F lettered | | functions | table |
| F lower | | F classes | |
| F lowerall | | F hasclass | |
| F match | | getbuffer | function |
| F name | | gethandlers | function |
| F param | | gethandlersfunction | function |
| F parameter | | helpers | table |
| F position | | F recursetext | |
| F reverse | | include | function |
| F stripped | | inclusion | function |
| F tag | | inclusions | function |
| F tags | | index | function |
| F text | | inheritattributes | function |
| F upper | | inheritedconvert | function |
| F upperall | | inject | function |
| F xml | | inject_element | function |

| | | | |
|------------------------------|----------|----------------------------|----------|
| inject_element_after | function | process_elements | function |
| inject_element_before | function | processattributes | function |
| injectafter | function | profiled | table |
| injectbefore | function | pure | function |
| insert | function | pushmatch | function |
| insert_element | function | raw | function |
| insert_element_after | function | registerentity | function |
| insert_element_before | function | registerns | function |
| insertafter | function | reindex | function |
| insertbefore | function | remap_name | function |
| insertcdata | function | remap_namespace | function |
| insertcomment | function | remap_tag | function |
| inspect | function | remapname | function |
| is_valid | function | remapnamespace | function |
| kind | function | remaptag | function |
| last | function | rename | function |
| lastmatch | function | renamespace | function |
| load | function | reparsedentitylpeg | userdata |
| lpath | function | replace | function |
| lpathcached | function | replace_element | function |
| lpathcalls | function | resetinjectors | function |
| lshow | function | resolvns | function |
| makestandalone | function | root | function |
| match | function | 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 |
| F tex | | settings | function |
| placeholders | table | specialcodes | table |
| F unknown_any_entity | | S " | |
| F unknown_dec_entity | | S # | |
| F unknown_hex_entity | | S \$ | |
| popmatch | function | S % | |
| position | function | S & | |
| privatecodes | table | S ' | |
| privatetoken | function | S < | |
| process | function | S > | |
| process_attributes | function | S \ | |

| | | | |
|---------------------------|----------|----------------------------|----------|
| S { | | tocdata | function |
| S | | toelement | function |
| S } | | tostring | function |
| S ~ | | 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 | withelement | function |
| text | function | withelements | function |
| textonly | function | wrap | function |
| texttocdata | function | xmlns | table |

zip (extra lua)

archives

table

close

function

closearchive

function

open

overloaded function

openarchive

function

openfile

function

registeredfiles

table

type

function

zlib (extra lua)

| | |
|--------------------|----------|
| adler32 | function |
| compress | function |
| compressobj | function |
| crc32 | function |

| | |
|----------------------|----------|
| decompress | function |
| decompressobj | function |
| version | function |