

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

ConT_EXt LMTX

global (alias: _G)

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

| | | | |
|-----------------|----------|-----------------|------------|
| logs | table | require | function |
| lpdf | table | required | function |
| lpeg | table | resolvers | table |
| lua | table | ruledspace | function |
| luatex | table | sandbox | table |
| lxml | table | scanarray | function |
| math | table | scanhash | function |
| mathematics | table | scripts | table |
| md5 | table | select | function |
| metapost | table | set | table |
| mime | table | setinspector | function |
| moduledata | table | setmetatable | function |
| modules | table | sha2 | table |
| mp | function | shipbox_ref_h | number |
| mplib | table | shipbox_ref_v | number |
| next | function | sio | table |
| noads | table | socket | table |
| node | table | sorters | table |
| nodes | table | statistics | table |
| number | table | status | table |
| objects | table | storage | table |
| optional | table | streams | table |
| optionalrequire | function | string | table |
| os | table | structures | table |
| package | table | table | table |
| pagebuilders | table | tex | table |
| pairs | function | texconditionals | data table |
| parametersets | table | texconfig | table |
| pcall | function | texconstants | data table |
| pdf | table | texifs | data table |
| pdfdecode | table | texio | table |
| pdfe | table | texisdefined | data table |
| physics | table | texmodes | data table |
| pngdecode | table | texsystemmodes | data table |
| poporientation | function | thirddata | table |
| print | function | toboolean | function |
| publications | table | todecimal | function |
| pushorientation | function | token | table |
| rawequal | function | tokens | table |
| rawget | function | tonumber | function |
| rawlen | function | tostring | function |
| rawset | function | tracers | table |
| readarray | function | trackers | table |
| regimes | table | type | function |

| | | | |
|--------------------|----------|-----------------|----------|
| typesetters | table | warn | function |
| unpack | function | xcomplex | table |
| updaters | table | xdecimal | table |
| url | table | xmath | table |
| userdata | table | xml | table |
| utf | table | xpcall | function |
| utf8 | table | xzip | table |
| utilities | table | zip | table |
| v | string | 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 hwbtorgb
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 | | F enable | |
| 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 resolve_end
F resolve_reset
F resolve_step
D scopes
F setfeatures

F start
F stop
B supported
D values

backends (context)

closeout function

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

latelua function

nodeinjections table

noflatelua function

nothing function

openout function

pdf table

T codeinjections

F addbookmarks

F analyzenormalsymbol

F analyzesymbol

F attachmentid

F bitmap

F clonefield

F copyimage

F definefield

F definefieldset

F defineviewerlayer

F embedfile

F embedimage

F enabletags

F exportformdata

F fieldsurrounding

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 scanningimage

F setattachmentsupport

F setfieldcalculationset

F setfigurealternative

F setfigurecolorspace

F setfiguremask

F setformat

F setformsmethod

F setpagetransition

F settaggingsupport

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

basexx (extra lua)

decode16 function

decode64 function

decode85 function

decodeLZW function

decodeRL function

encode16 function

encode64 function

encode85 function

encodeLZW function

encodeRL 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 |
| getlines | function | raw | function |
| gettexbuffer | function | run | function |
| loadcontent | function | samplefile | function |
| parallel | table | undent | function |

builders (context)

checksidefloat function

kernel table

- F hyphenating
- F hyphenation
- F kerning
- F ligaturing
- F mlist_to_hlist

paragraphs table

- T constructors
 - N attribute
 - F define
 - F disable
 - F enable
 - F handler
- T methods
 - F basic
 - F default
 - F hpack
 - F oneline
- D names
- D numbers
- F set
- F start
- F stop
- T expansion
 - F trace
- F kepttogether
- F registertogether
- T solutions
 - T splitters
 - F define
 - F optimize
 - T registered
 - F reset
 - F set
 - F split

F start

F stop

F tag

profiling table

- F add
- F distance
- F fixedprofile
- F get
- F list
- F pagehandler
- F profilebox
- F set

vspacing table

- F analyze
- D categories
- F collapsevbox
- T data
 - D map
 - D skip
 - D snapmethods
- F definesnapmethod
- B fixed
- F forcepageflush
- F forcestrutdepth
- F getnofpreviouslines
- F pagehandler
- F pageoverflow
- F popatsame
- F pushatsame
- F setmap
- F setskip
- F snapbox
- F synchronizepage
- F tocategories
- F tocategory
- F vboxhandler

cache (context)

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

callback (basic tex)

find function
known function

list function
register overloaded function

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 contribute_filter

B define_font

B find_format_file

B find_log_file

B hpack_filter

B hpack_quality

B hyphenate

B insert_local_par

B intercept_lua_error

B intercept_tex_error

B kerning

B ligaturing

B linebreak_filter

B make_extensible

B mlist_to_hlist

B new_graf

B open_data_file

B post_linebreak_filter

B pre_dump

B pre_linebreak_filter

B pre_output_filter

B process_jobname

B show_error_message

B show_warning_message

B show_whatsit

B start_file

B start_run

B stop_file

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

containers (context)

cleanname function
content function
define function
is_usable function

is_valid function
read function
usecache boolean
write function

converters (context)

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

uchexnumbers

upper

verbose

D data

function

function

table

F translate

weekday

word

words

function

function

function

coroutine (basic lua)

close function
create function
isyieldable function
resume function

running function
status function
wrap function
yield function

ctxrunner (context)

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

data (context)

| | | | |
|---------------|----------|------------------|--------|
| action | function | prerolled | string |
| depth | number | width | number |
| height | number | | |

debug (basic lua)

getinfo function

sethook function

traceback 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 cmdline | | 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 | T json |
| converters | table | T actions |
| F engine | | F cleanup |
| F lmtx | | F convert |
| enable | function | F finalize |
| gethpos | function | F initialize |
| getpos | function | F outputfilename |
| getrpos | function | F prepare |
| getvpos | function | F wrapup |
| helpers | table | T flushers |
| F tomatrix | | F character |
| install | function | F rule |
| instances | table | F simplerule |
| T default | | F specialrule |
| T actions | | F updatefontstate |
| F convert | | S name |
| F outputfilename | | T lua |
| T flushers | | T actions |
| S name | | F cleanup |
| T empty | | F convert |
| T actions | | F finalize |
| F convert | | F initialize |
| F prepare | | F outputfilename |
| T flushers | | F prepare |
| S name | | F wrapup |
| T js | | T flushers |
| T actions | | F character |
| F cleanup | | F rule |
| F convert | | F simplerule |
| F finalize | | F specialrule |
| F initialize | | F updatefontstate |
| F outputfilename | | S name |
| F prepare | | T mps |
| F wrapup | | T actions |
| T flushers | | F cleanup |
| F character | | F convert |
| F rule | | F finalize |
| F simplerule | | F initialize |
| F specialrule | | F outputfilename |
| F updatefontstate | | F prepare |
| S name | | F wrapup |

- T flushers
 - F character
 - F rule
 - F simplerule
 - F specialrule
 - F updatefontstate
- S name
- T none
- T actions
- T flushers
- S name
- T pdf
 - T actions
 - F cleanup
 - F convert
 - F finalize
 - F initialize
 - F outputfilename
 - F prepare
 - F wrapup

- T flushers
 - F character
 - F fontchar
 - F group
 - F image
 - F literal
 - F poporientation
 - F pushorientation
 - F restore
 - F rule
 - F save
 - F setmatrix
 - F simplerule
 - F specialrule
 - F updatefontstate
- S name
- lmtxversion** number
- outputfilename** function
- report** function

environment (context)

| | | | |
|----------------------------|------------|-------------------------------|------------|
| argument | function | luafile | function |
| arguments | data table | luafilechunk | function |
| basicengines | data table | luatexengine | string |
| currentrun | number | luatexfunctionality | number |
| definefilefallback | function | luatexversion | number |
| definefilesynonym | function | maxnofruns | number |
| engineflags | data table | oldhome | string |
| filename | string | originalarguments | data table |
| filenames | table | outputfilename | string |
| files | table | ownbin | string |
| filesynonyms | data table | ownmain | string |
| forcedruns | number | ownname | string |
| getargument | function | ownpath | string |
| homedir | string | prerollrun | boolean |
| initex | boolean | rawarguments | data table |
| initexmode | boolean | reconstructcommandline | function |
| initializearguments | function | relativepath | function |
| initializefilenames | function | setargument | function |
| inputfilebarename | string | splitarguments | function |
| inputfilename | string | suffix | string |
| inputfilesuffix | string | texfile | function |
| jobfilefullname | string | texmfos | string |
| jobfilename | string | texos | string |
| jobfilesuffix | string | texroot | string |
| jobname | string | truefilename | function |
| kindofrun | number | uselua module | function |
| lmtxmode | number | usemodules | function |
| loadexamodes | function | validengines | data table |
| loadluafile | 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 | needsupdating | function |
| basename | function | pathpart | function |
| checksum | function | readdata | function |
| collapsepath | function | removesuffix | function |
| copy | function | replacesuffix | function |
| dirname | function | reslash | function |
| expandname | function | robustname | function |
| extname | function | savechecksum | function |
| is_qualified_path | function | savedata | function |
| is_readable | function | size | function |
| is_rootbased_path | function | splitbase | function |
| is_writable | function | splitname | function |
| isreadable | function | splitpath | function |
| iswritable | function | strip | function |
| join | function | suffix | function |
| joinpath | function | suffixes | function |
| loadchecksum | function | suffixesonly | function |
| nameonly | function | suffixonly | function |
| nametotable | function | syncmtimes | function |
| needs Updating | function | withinbase | function |

fio (extra lua)

| | |
|--------------------------|----------|
| getposition | function |
| read2dot14 | function |
| readbytes | function |
| readbytetable | function |
| readcardinal1 | function |
| readcardinal1le | function |
| readcardinal2 | function |
| readcardinal2le | function |
| readcardinal3 | function |
| readcardinal3le | function |
| readcardinal4 | function |
| readcardinal4le | function |
| readcardinaltable | function |
| readfixed2 | function |
| readfixed4 | function |
| readinteger1 | function |
| readinteger1le | function |
| readinteger2 | function |

| | |
|-------------------------|----------|
| readinteger2le | function |
| readinteger3 | function |
| readinteger3le | function |
| readinteger4 | function |
| readinteger4le | function |
| readintegertable | function |
| readline | function |
| setposition | function |
| skipposition | function |
| writecardinal1 | function |
| writecardinal1le | function |
| writecardinal2 | function |
| writecardinal2le | function |
| writecardinal3 | function |
| writecardinal3le | function |
| writecardinal4 | function |
| writecardinal4le | 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 |
| current | function |
| define | function |
| each | function |
| getfont | function |
| getfontdimen | function |

| | |
|---------------------|----------|
| id | function |
| max | function |
| nextid | function |
| setfont | function |
| setfontdimen | 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 calculatescale
- F checkedfeatures
- F checkedfilename
- F cleanupable

- F collectprocessors
- F currentfonthasfeature
- 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
- B fixprotrusion
- F getfeatureaction
- F getmathparameter

| | |
|----------------------------|---|
| F getprivate | F featuresinitializer |
| T handlers | F featuresprocessor |
| T afm | F getactualtext |
| B autoprefixed | F getalternate |
| D cache | F getgsub |
| D features | F getkern |
| F getkern | F getmultiple |
| T helpdata | F getstreamhash |
| D bothkerned | F getsubstitution |
| D leftkerned | T handlers |
| D ligatures | F 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 txtfirststate |
| 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 | D pngcache |

| | |
|-------------------|------------------------------|
| B pngenabled | F reversechainedcontextsingl |
| 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 multiple | F readbytes |

| | |
|---------------------|---------------------|
| F readbytetable | F writeinteger2 |
| F readcardinal | F writeinteger2le |
| F readcardinal1 | F writeinteger3 |
| F readcardinal1le | F writeinteger3le |
| F readcardinal2 | F writeinteger4 |
| F readcardinal2le | F writeinteger4le |
| F readcardinal3 | F writestring |
| F readcardinal3le | F stripredundant |
| F readcardinal4 | F svg |
| F readcardinal4le | N tableversion |
| F readcardinaltable | F unifymissing |
| F readchar | F unpack |
| F readfixed2 | F vhea |
| F readfixed4 | F vmtx |
| F readinteger | F vorg |
| F readinteger1 | F vvar |
| F readinteger1le | F woff2otf |
| F readinteger2 | F registerpalette |
| F readinteger2le | F registerplugin |
| F readinteger3 | F reorderlookups |
| F readinteger3le | F scriptandlanguage |
| F readinteger4 | F setdynamics |
| F readinteger4le | F setfeatures |
| F readintegertable | T statistics |
| F readsignedbyte | D usedfeatures |
| F readstring | D svgcache |
| F readtag | B svgenabled |
| F setposition | T tables |
| F size | D baselines |
| F skip | D features |
| F skiplong | D featuretypes |
| F skipposition | D languages |
| F skipshort | D scripts |
| F writebyte | N version |
| F writecardinal1 | T pfb |
| F writecardinal1le | F loadvector |
| F writecardinal2 | T tfm |
| F writecardinal2le | D cache |
| F writecardinal3 | D features |
| F writecardinal3le | N maxnestingdepth |
| F writecardinal4 | N maxnestingsize |
| F writecardinal4le | T readers |
| F writeinteger1 | F loadpk |
| F writeinteger1le | F loadtfm |

| | |
|----------------------|--------------------------|
| F loadtfmvf | S scriptpercentage |
| F loadvf | S scriptscriptpercentage |
| F pktopdf | S size |
| F showpk | S slantfactor |
| F reencode | S slantperpoint |
| F setfeatures | T spacing |
| N version | S extra |
| T vf | S shrink |
| T combinations | S stretch |
| 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 |

N noffontsloaded
 N nofsharedfonts
 N nofsharedhashes
 N nofsharedvectors
 N privateoffset
 D privateslots
 F readanddefine
 F registerfeature
 F resetfeature
 B resolvevirtualtoo
 F scale
 F scaled
 F setfactor
 F setfeature
 F setmathparameter
 F setname
 B sharefonts
 F trytosharefont
 N version

current function

currentid function

definers table

F addlookup
 F analyze
 F applypostprocessors
 F checkedmode
 F checkedscript
 S defaultlookup
 F define
 F getspecification
 F internal
 F loadfont
 F makespecification
 T methods
 F install
 D variants
 F read
 F register
 F registered
 F registersplit
 F resetnullfont
 F resolve
 T resolvers
 F file

F name
 F spec
definetypeface function
dropins table
 F clone
 F nextid
 F provide
 F registerglyph
 F registerglyphs
 F swap

encodings table

T agl
 D ctxcodes
 D extras
 D names
 D synonyms
 D unicodes
 D cache
 F is_known
 D known
 F load
 F make_unicode_vector
 D math
 N version

enhanceid function

expansions data table

formats data table

getalternate function

getindices function

getkern function

getmultiple function

getsubstitution function

getters table

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

goodies table

- D colorschemes
- T data
 - T 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
- D filenames
- F getcompositions
- T list
- F load
- F prepare_features
- F register
- F registerpostprocessor
- F report
- T suffixes

handlers table

hashes table

- D characters
- D classes
- D csnames
- D descriptions
- D dynamics
- D emwidths
- D exheights
- D extensibles
- D features
- D identifiers
- D italics
- D lastmathids
- D marks
- D mathparameters
- D modes
- D originals

- D parameters
- T processes
- D properties
- D quads
- D resources
- T setdynamics
- T shapes
- D spaces
- D spacings
- T streams
- D unicodes
- D variants
- D xheights

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 | | B | keepnames | |
| F | splitfontpattern | | N | mathbase | |
| F | tochar | | N | mathextrabase | |
| infofont | function | | N | textbase | |
| iterators | table | | N | textextrabase | |
| F | characters | | protrusions | data table | |
| F | descriptions | | readers | table | |
| F | glyphs | | F | afm | |
| loggers | table | | F | check_lua | |
| F | add_placeholders | | F | check_tfm | |
| D | category_to_placeholder | | F | lua | |
| F | format | | F | ofm | |
| F | onetimemessage | | F | opentype | |
| F | register | | F | otf | |
| F | reportdefinedfonts | | F | pfb | |
| 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 | |

- F registerfontalternative
- F registerfontfamily
- F textfallback
- F typeface
- F typescript
- F userdata

specifiers table

- D contextmerged
- F contextnumber
- D contextnumbers
- D contextsetups
- F contexttostring
- F definecontext
- F mergecontext
- F presetcontext
- F registercontext
- F showcontext
- F splitcontext
- D synonyms

- D variants

symbols table

- T emoji
- F checked
- F resolved
- F uselibrary

tables table

- D data
- F savefont
- F saveoriginal

tracers table

treatments table

- F applyfixes
- D data
- S filename
- F ignoredfile
- F report
- F trace

typefaces table

functions (context)

dummy function

graphics (context)

backgrounds table

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

bitmaps table

- F flush
- F new

F placeholder

F tocontext

identifiers table

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

identify function

gzip (extra lua)

compress function
compressed function
decompress function

load function
save function
suffix function

images (context)

check function
checksize function
copy function
create function
embed function
keys table
print function
scan function
serialize function
sizes table

 B art
 B bleed
 B crop
 B media

 B none
 B trim
totable function
types table

 N jbig2
 N jp2
 N jpg
 N memstream
 N none
 N pdf
 N png
 N stream

wrap function

interactions (context)

attachments data table

fields table

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

general table

- F getidentity
- F setupidentity

help table

- F collect
- F reference
- F register

javascripts table

- F addtopreamble
- F code
- D codes
- F flushpreambles

D functions

D preambles

F setpreamble

F storecode

F storepreamble

F usepreamblenow

F usescripts

linkedLists data table

pages table

F setpagetransition

F setupcanvas

references table

F setcloseddocument

F setclosepage

F setopendocument

F setopenpage

renderings data table

soundclips data table

interfaces (context)

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

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)

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

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

lang (basic tex)

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

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

languages (context)

| | | | |
|-------------------------------|------------|---------------------------------|------------|
| 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 | nofflattened | 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 isleftpage

F leftorrightpageaction

lfs (extra lua)

| | |
|-----------------------|---------------------|
| attributes | overloaded function |
| chdir | overloaded function |
| currentdir | function |
| dir | overloaded function |
| isdir | overloaded function |
| isfile | overloaded function |
| isfound | function |
| isreadabledir | function |
| isreadablefile | function |
| iswriteabledir | function |

| | |
|------------------------|---------------------|
| iswriteablefile | function |
| link | overloaded function |
| mkdir | overloaded function |
| makedirs | function |
| modification | function |
| readlink | function |
| rmdir | overloaded function |
| setexecutable | function |
| symlink | function |
| touch | 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 | reportlines | function |
| categories | function | setformats | function |
| direct | function | setformatters | function |
| disable | function | setlogfile | function |
| enable | function | setmessenger | function |
| exporters | table | setprocessor | function |
| extendbanner | function | setprogram | function |
| finalactions | function | settarget | function |
| flush | function | settimedlog | function |
| help | function | settranslations | function |
| loggingerrors | function | show | function |
| messenger | function | simple | function |
| new | function | simpleline | function |
| newline | function | simplelines | function |
| poptarget | function | start_page_number | function |
| pushtarget | function | start_run | function |
| registerfinalactions | function | starterrorlogging | function |
| report | function | startfilelogging | function |
| reportbanner | function | status | function |
| reporter | function | stop_page_number | function |
| reporters | table | stoperrorlogging | function |
| F banner | | stopfilelogging | function |
| F export | | subdirect | function |
| F help | | subreport | function |
| F info | | system | function |
| F lines | | texerrormessage | function |
| F version | | writer | function |
| reportline | function | | |

lpdf (context)

| | | | |
|---------------------------------|------------|----------------------------------|----------|
| action | function | destination specification | function |
| adddocumentcolorspace | function | dictionary | function |
| adddocumenttextgstate | function | docstring | function |
| adddocumentpattern | function | epdf | table |
| adddocumentshade | function | F analyzefonts | |
| addtocatalog | function | F contenttotext | |
| addtoinfo | function | F expanded | |
| addtonames | function | F getpagecontent | |
| addtopageattributes | function | F getstructure | |
| addtopageresources | function | T image | |
| addtopagesattributes | function | F close | |
| addxmpinfo | function | F copy | |
| annotation specification | function | F new | |
| array | function | F open | |
| attachmentsymbols | function | F query | |
| boolean | function | F load | |
| border | function | F parsecontent | |
| checkedkey | function | F plugin | |
| checkedvalue | function | T resolvers | |
| circularshade | function | F destinations | |
| cmykcode | function | F embeddedfiles | |
| collectedresources | function | F javascripts | |
| color | function | F layers | |
| colorspace | function | F pages | |
| colorspaceconstants | data table | F structure | |
| colorspec | function | F widgets | |
| colorvalue | function | F stripcontent | |
| colorvalues | function | F unload | |
| commentssymbols | function | escaped | function |
| compresslevel | function | finalizedocument | function |
| constant | function | finalizefonts | function |
| copyarray | function | finalizepage | function |
| copyboolean | function | finishtransparencycode | function |
| copyconstant | function | flags | table |
| copydictionary | function | T annotations | |
| copyfloat | function | N AutoView | |
| copyinteger | function | N Hidden | |
| copynumber | function | N Invisible | |
| copystring | function | N Locked | |
| copyunicode | function | N LockedContents | |
| delayedobject | function | N NoRotate | |

| | | | |
|-----------------------|------------|---------------------|----------|
| N NoView | | frompdfdoc | function |
| N NoZoom | | fromsixteen | function |
| N Print | | getcatalag | function |
| N Printable | | getcompression | function |
| N ReadOnly | | getfontname | function |
| N ToggleNoView | | getfontobjnumber | function |
| N auto | | getinfo | function |
| N hidden | | getmapentry | function |
| N printable | | getmetadata | function |
| T widgets | | getnofpages | function |
| N Comb | | getpageproperties | function |
| N CommitOnSelChange | | getpagetags | function |
| N DoNotScroll | | getversion | function |
| N DoNotSpellCheck | | getxformname | function |
| N Edit | | graycode | function |
| N FileSelect | | id | function |
| N MultiLine | | immediateobj | function |
| N NoExport | | includechar | function |
| N NoToggleToOff | | includecharlist | function |
| N Password | | includefont | function |
| N PopUp | | includeimage | function |
| N PushButton | | injectors | table |
| N Radio | | F bitmap | |
| N RadiosInUnison | | F jp2 | |
| N ReadOnly | | F jpg | |
| N Required | | F png | |
| N RichText | | injectxmpinfo | function |
| N Sort | | insertxmpinfo | function |
| N file | | layerreference | function |
| N fixed | | limited | function |
| N nocheck | | linearshade | function |
| N protected | | literal | function |
| N readonly | | majorversion | function |
| N required | | makenametree | function |
| N sorted | | minorversion | function |
| N unavailable | | nofpages | function |
| flushfonts | function | null | function |
| flushgroup | function | number | function |
| flushobject | function | obj | function |
| flushstreamfileobject | function | objectcompresslevel | function |
| flushstreamobject | function | pagereference | function |
| formats | data table | patternstream | function |
| frombytes | function | pdfcolor | function |
| fromeight | function | pdftimestamp | function |

| | | | |
|----------------------------------|----------|--------------------------------|----------|
| permitdetail | function | setpagetag | function |
| print | function | setsuppressoptionalinfo | function |
| procset | function | settime | function |
| protectresources | boolean | settrailerid | function |
| rectangle | function | setversion | function |
| reference | function | shareobject | function |
| registerannotation | function | shareobjectreference | function |
| registerdestination | function | spotcode | function |
| registerdocumentfinalizer | function | stream | function |
| registerfont | function | string | function |
| registerpagefinalizer | function | toeight | function |
| registerpattern | function | topdfdoc | function |
| reserveobject | function | tosixteen | function |
| rgbcode | function | transparency | function |
| rotationcm | function | transparencycode | function |
| setcompression | function | transparencygroups | table |
| setdates | function | B none | |
| setmapfile | function | transparencyvalue | function |
| setmapline | function | unicode | function |
| setomitcharset | function | usedcharacters | table |
| setomitcidset | function | verbose | function |
| setpageorder | function | vfimage | 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 | | |

lua (basic tex)

| | |
|----------------------------|---------------------|
| bytecode | table |
| bytedata | data table |
| bytedone | table |
| callbytecode | function |
| collectgarbage | function |
| delay | function |
| finalize | function |
| firstbytecode | number |
| flush | function |
| flushdelayed | function |
| get_functions_table | function |
| getbytecode | function |
| getcurrenttime | function |
| getfunctionstable | overloaded function |
| getpreciseseconds | function |
| getpreciseticks | function |
| getruntime | function |
| getstacktop | function |
| getstartupfile | function |
| getversion | function |
| lastbytecode | number |

| | |
|--------------------------|------------|
| macros | table |
| B enabled | |
| F loaded | |
| F required | |
| F reset | |
| F resolvestring | |
| F resolving | |
| F showdefinitions | |
| mask | string |
| messages | data table |
| newindex | function |
| newtable | function |
| numbers | data table |
| registercode | function |
| registeredcodes | function |
| registerfinalizer | function |
| registername | function |
| setbytecode | function |
| setexitcode | function |
| startupfile | string |
| 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 | first | function |
| all | function | flush | function |
| applyfunction | function | flushlinewise | function |
| applyselectors | function | flushsetups | function |
| att | function | flushspacewise | function |
| attribute | function | get_id | function |
| badinclusions | function | getid | function |
| chainattribute | function | getindex | function |
| checkindex | function | id | function |
| collected | function | idsplitter | userdata |
| command | function | include | function |
| concat | function | inclusion | function |
| concatrange | function | inclusions | function |
| content | function | index | function |
| context | function | inlineverbatimim | function |
| convert | function | installsetup | function |
| count | function | last | function |
| delete | function | lastatt | function |
| depth | 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 |

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

math (basic lua)

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

mathematics (context)

| | | | |
|-------------------------------|------------|-------------------------------|------------|
| addfallbacks | function | 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
dec function
hex function

sum function
sumHEX function
sumhexa function

metapost (context)

| | | |
|--------------------|----------|-------------------|
| checkformat | function | N newinternal |
| cm | function | N nullary |
| codes | table | N numeric |
| N addto | | N of |
| N ampersand | | N ofbinary |
| N and | | N outertag |
| N assignment | | N parametertype |
| N atleast | | N plus_or_minus |
| N begingroup | | N primarybinary |
| N btex | | N primarydef |
| N capsule | | N randomseed |
| N colon | | N relax |
| N comma | | N repeat_loop |
| N controls | | N rightbrace |
| N curl | | N rightbracket |
| N cycle | | N rightdelimiter |
| N declare | | N runscript |
| N def | | N save |
| N definedmacro | | N scantokens |
| N delimiters | | N scope |
| N endgroup | | N secondarybinary |
| N equals | | N secondarydef |
| N etex | | N semicolon |
| N everyjob | | N setbounds |
| N exitif | | N shipout |
| N expandafter | | N show |
| N fi_or_else | | N skip |
| N if | | N slash |
| N input | | N special |
| N interim | | N step |
| N internal | | N stop |
| N iteration | | N str |
| N join | | N string |
| N leftbrace | | N tag |
| N leftbracket | | N tension |
| N leftdelimiter | | N tertiarybinary |
| N let | | N tertiarydef |
| N macrospecial | | N thingstoadd |
| N maketext | | N to |
| N message | | N unary |
| N mode | | N undefinedcs |

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

| | |
|-------------------------|----------|
| reportsvgfonts | function |
| reset | function |
| resetlastlog | function |
| resetplugins | function |
| run | function |
| runscript | function |
| scanparameters | function |
| scripterror | function |
| scriptindex | function |
| setextensions | function |
| setoutercolor | function |
| setparameterset | function |
| settext | function |
| setvariable | function |
| showlog | boolean |
| showsvgpage | function |
| simple | function |
| splitprescript | function |
| startgraphic | function |
| startsvghashing | function |
| stopgraphic | function |
| stopsvghashing | function |
| svformat | function |
| svgcolorremapper | function |
| svgglyphtomp | function |
| svgshapestomp | function |
| svgshapestopdf | function |
| svgsplitcolor | function |
| svgtomp | function |
| svgtopdf | function |
| sxsy | function |
| tex | table |
| F get | |
| F reset | |
| F set | |

| | |
|----------------------|----------|
| F setfrombuffer | |
| texerrors | boolean |
| texexp | function |
| theclippath | function |
| tographic | function |
| totable | function |
| types | table |
| N boolean | |
| N cmykcolor | |
| N color | |
| N dependent | |
| N independent | |
| N known | |
| N numeric | |
| N pair | |
| N path | |
| N pen | |
| N picture | |
| N protodependent | |
| N string | |
| N structured | |
| N suffixedmacro | |
| N tokenlist | |
| N transform | |
| N unknownboolean | |
| N unknownpath | |
| N unknownpen | |
| N unknownpicture | |
| N unknownstring | |
| N unsuffixedmacro | |
| N vacuum | |
| typesvgpage | function |
| unload | function |
| untagvariable | function |
| variables | table |

mime (extra lua)

b64 function

decode function

decodet table

 F base64

 F quoted-printable

dot function

encode function

encodet table

 F base64

 F quoted-printable

eol function

normalize function

qp function

qpwrp function

report function

stuff function

unb64 function

unqp function

wrap function

wrapt table

 F base64

 F default

 F quoted-printable

 F text

wrp function

mp (context)

| | | | |
|-------------------|----------|--------------------|----------|
| <u>get_count</u> | function | color | function |
| <u>get_dimen</u> | function | dataset | function |
| <u>get_macro</u> | function | datasets | function |
| <u>get_toks</u> | function | F load | |
| <u>set_count</u> | function | dimension | function |
| <u>set_dimen</u> | function | direct | function |
| <u>set_macro</u> | function | direct1 | function |
| <u>set_toks</u> | function | direct2 | function |
| autoinject | function | direct3 | function |
| aux | table | direct4 | function |
| F boolean | | disposehash | function |
| F color | | draw | function |
| F direct | | fill | function |
| F direct1 | | flatten | function |
| F direct2 | | flush | function |
| F direct3 | | format | function |
| F direct4 | | formatted | function |
| F draw | | fprint | function |
| F fill | | fromhash | function |
| F flush | | get | table |
| F fprint | | getcount | function |
| F integer | | getdimen | function |
| F number | | getmacro | function |
| F numeric | | gettoks | function |
| F pair | | graphformat | function |
| F pairpoints | | inhash | function |
| F path | | inject | function |
| F pathpoints | | F boolean | |
| F points | | F cmykcolor | |
| F print | | F color | |
| F quadruple | | F integer | |
| F quadruplepoints | | F number | |
| F quoted | | F numeric | |
| F size | | F pair | |
| F string | | F path | |
| F transform | | F string | |
| F triplet | | F transform | |
| F tripletpoints | | F whatever | |
| F vprint | | integer | function |
| boolean | function | isarray | function |
| cleaned | function | isobject | function |

| | | | |
|--------------------------------------|----------|-------------------------------|----------|
| lmt_color_functions | table | mf_blob_raw_content | function |
| F shade | | mf_blob_raw_dimensions | function |
| F step | | mf_blob_raw_reset | function |
| lmt_contours_bitmap_get | function | mf_blob_raw_toutf | function |
| lmt_contours_bitmap_set | function | mf_blob_raw_wipe | function |
| lmt_contours_cleanup | function | mf_blob_size | function |
| lmt_contours_color | function | mf_blob_width | function |
| lmt_contours_edge_get_band | function | mf_external_figure | function |
| lmt_contours_edge_get_cell | function | mf_finish_saving_data | function |
| lmt_contours_edge_paths | function | mf_formatted_text | function |
| lmt_contours_edge_set | function | mf_get_outline_text | function |
| lmt_contours_edge_set_by_band | function | mf_graphic_text | function |
| lmt_contours_edge_set_by_cell | function | mf_inject_blob | function |
| lmt_contours_format | function | mf_made_text | function |
| lmt_contours_function | function | mf_map_move | function |
| lmt_contours_maxmean | function | mf_map_text | function |
| lmt_contours_maxz | function | mf_named_color | function |
| lmt_contours_minmean | function | mf_outline_text | function |
| lmt_contours_minz | function | mf_save_data | function |
| lmt_contours_nofvalues | function | mf_script_index | function |
| lmt_contours_nx | function | mf_some_text | function |
| lmt_contours_ny | function | mf_start_saving_data | function |
| lmt_contours_range | function | mf_stop_saving_data | function |
| lmt_contours_shade_paths | function | mf_tb_dimensions | function |
| lmt_contours_shade_set | function | mf_tt_dimensions | function |
| lmt_contours_shape_paths | function | mf_tt_initialize | function |
| lmt_contours_start | function | mode | function |
| lmt_contours_stop | function | n | function |
| lmt_contours_value | function | newhash | function |
| lmt_contours_xrange | function | number | function |
| lmt_contours_yrange | function | numeric | function |
| lmt_do_remaptext | function | pair | function |
| lmt_function_x | function | pairpoints | function |
| lmt_mesh_set | function | path | function |
| lmt_mesh_update | function | pathpoints | function |
| lmt_poisson_generate | function | points | function |
| lmt_register_glyph | function | positionanchor | function |
| lmt_register_glyphs | function | positionbox | function |
| lmt_surface_do | function | positioncurve | function |
| lmt_svg_include | function | positionpage | function |
| mf_blob_add | function | positionpath | function |
| mf_blob_dimensions | function | positionpxy | function |
| mf_blob_index | function | positionregion | function |
| mf_blob_new | function | positionwhd | function |

| | | | |
|------------------------|----------|-----------------------|----------|
| positionxy | function | F token | |
| prefix | function | F transform | |
| print | function | set | table |
| processingmode | function | setcount | function |
| quadruple | function | setdimen | function |
| quadruplepoints | function | setmacro | function |
| quoted | function | settoks | function |
| report | function | size | function |
| scan | table | solve | function |
| F boolean | | string | function |
| F cmykcolor | | systemmode | function |
| F color | | texstr | function |
| F expression | | texttextanchor | function |
| F integer | | texvar | function |
| F next | | tohash | function |
| F number | | transform | function |
| F numeric | | triplet | function |
| F pair | | tripletpoints | function |
| F path | | utflen | function |
| F pen | | utfsub | function |
| F string | | vprint | function |
| F symbol | | | |

mplib (extra tex)

| | | | |
|-------------------------|---------------------|-------------------------|----------|
| codes | function | realtime logging | boolean |
| execute | function | scan_boolean | function |
| fields | function | scan_cmykcolor | function |
| finder | function | scan_color | function |
| finders | table | scan_expression | function |
| F file | | scan_integer | function |
| F mpstemplate | | scan_next | function |
| finish | function | scan_number | function |
| inject_boolean | function | scan_numeric | function |
| inject_cmykcolor | function | scan_pair | function |
| inject_color | function | scan_path | function |
| inject_integer | function | scan_pen | function |
| inject_number | function | scan_string | function |
| inject_numeric | function | scan_symbol | function |
| inject_pair | function | scan_token | function |
| inject_path | function | scan_transform | function |
| inject_string | function | solve_path | function |
| inject_transform | function | statistics | function |
| inject_whatever | function | status | function |
| new | overloaded function | types | function |
| pen_info | 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 getfont |
| check_discretionary | function | F getglue |
| copy | function | F getglyphdata |
| copy_list | function | F getheight |
| count | function | F getid |
| current_attr | function | F getkern |
| dimensions | function | F getlang |
| direct | table | F getleader |
| F check_discretionaries | | F getlist |
| F check_discretionary | | F getnext |
| F copy | | F getnormalizedline |
| F copy_list | | F getnucleus |
| F copy_only | | F getoffsets |
| F count | | F getorientation |
| F current_attr | | F getparstate |
| F dimensions | | F getpenalty |
| F effective_glue | | F getpost |
| F end_of_math | | F getpre |
| F exchange | | F getprev |
| F find_attribute | | F getproperty |
| F find_attribute_range | | F getreplace |
| F find_node | | F getscript |
| F first_glyph | | F getshift |
| F flatten_discretionaries | | F getstate |
| F flush_list | | F getsub |
| F flush_node | | F getsubpre |
| F free | | F getsubtype |
| F get_attribute | | F getsup |
| F get_properties_table | | F getsuppre |
| F get_synctex_fields | | F getwhd |
| F getattributelist | | F getwidth |
| F getboth | | F glyphdimensions |
| F getbox | | F has_attribute |
| F getchar | | F has_dimensions |
| F getdata | | F has_field |
| F getdepth | | F has_glyph |
| F getdirection | | F hpack |
| F getdisc | | F hyphenating |
| F getexpansion | | F ignore_math_skip |
| F getfam | | F insert_after |
| F getfield | | F insert_before |

F is_char
 F is_direct
 F is_glyph
 F is_node
 F is_valid
 F is_zero_glue
 F kerning
 F last_node
 F length
 F ligaturing
 F make_extensible
 F migrate
 F mlist_to_hlist
 F naturalwidth
 F new
 F prepend_prevdepth
 F protect_glyph
 F protect_glyphs
 F protrusion_skippable
 F rangedimensions
 F remove
 F reverse
 F set_attribute
 F set_synctex_fields
 F setattributelist
 F setboth
 F setbox
 F setchar
 F setdata
 F setdepth
 F setdirection
 F setdisc
 F setexpansion
 F setfam
 F setfield
 F setfont
 F setglue
 F setglyphdata
 F setheight
 F setkern
 F setlang
 F setleader
 F setlink
 F setlist

F setnext
 F setnucleus
 F setoffsets
 F setorientation
 F setpenalty
 F setpost
 F setpre
 F setprev
 F setproperty
 F setreplace
 F setscript
 F setshift
 F setsplit
 F setstate
 F setsub
 F setsubpre
 F setsubtype
 F setup
 F setsuppre
 F setwhd
 F setwidth
 F slide
 F start_of_par
 F tail
 F todirect
 F tonode
 F toString
 F tovaliddirect
 F traverse
 F traverse_char
 F traverse_glyph
 F traverse_id
 F traverse_list
 F type
 F unprotect_glyph
 F unprotect_glyphs
 F unset_attribute
 F usedlist
 F uses_font
 F vertical_break
 F vpack
 F write

effective_glue
end_of_math

function
 function

| | | | |
|--------------------------------|----------|---------------------------------|----------|
| family_font | function | optimize_unset_attribute | function |
| fields | function | prepend_prevdepth | function |
| find_attribute | function | protect_glyph | function |
| first_glyph | function | protect_glyphs | function |
| flatten_discretionaries | function | protrusion_skippable | function |
| flush_list | function | rangedimensions | function |
| flush_node | function | remove | function |
| free | function | set_attribute | function |
| get_attribute | function | set_glue | function |
| get_glue | function | setfield | function |
| get_properties_table | function | setproperty | function |
| getfield | function | slide | function |
| getproperty | function | subtypes | function |
| has_attribute | function | tail | function |
| has_field | function | tostring | function |
| has_glyph | function | traverse | function |
| hpack | function | traverse_char | function |
| hyphenating | function | traverse_glyph | function |
| id | function | traverse_id | function |
| insert_after | function | traverse_list | function |
| insert_before | function | type | function |
| inuse | function | types | function |
| is_node | function | unprotect_glyph | function |
| is_zero_glue | function | unprotect_glyphs | function |
| kerning | function | unset_attribute | function |
| last_node | function | usedlist | function |
| length | function | uses_font | function |
| ligaturing | function | values | function |
| make_extensible | function | vpack | function |
| mlist_to_hlist | function | write | function |
| new | 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 | getid | function |
| countall | function | getleader | function |
| current_attr | function | getlist | function |
| delete | function | getnext | function |
| destinations | table | getprev | function |
| N attribute | | getsubtype | function |
| T done | | gluecodes | data table |
| F handler | | gluevalues | data table |
| T stack | | glyphcodes | data table |
| dimensionfields | data table | handlers | table |
| dimensions | function | F accessibility | |
| dircodes | data table | F backgrounds | |
| directioncodes | data table | F backgroundspage | |
| directionvalues | data table | F backgroundsvbox | |
| dirvalues | data table | F characters | |
| disccodes | data table | F checkforleaks | |

| | | | |
|--------------------------------|------------|------------------------|------------|
| 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 | | kerning | 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 | | localparcodes | data table |
| F setspacekerns | | locate | function |
| insert_after | function | margincodes | data table |
| insert_before | function | marginkerncodes | data table |
| insert_list_after | function | markers | table |
| installattributehandler | function | F get | |
| is_direct | function | mathcodes | data table |

maxboxwidth

migrations

F setinserts

F setmarks

mlist_to_hlist

new

noadcodes

noadoptions

N axis

N exact

N left

N middle

N no_axis

N right

N set

N unused_1

N unused_2

nodecodes

nopts

nuts

F append

F apply

F applyvisuals

F check_discretionaries

F concat

F copy

F copy_list

F copy_no_components

F copy_node

F copy_only

F copy_only_glyphs

F copy_properties

F copyvisual

F count

F count_components

F countall

F current_attr

F delete

F dimensions

F dirdimensions

F effective_glue

F end_of_math

F exchange

F find_attribute

function

table

function

function

data table

table

data table

function

table

F find_node

F first_glyph

F firstcharacter

F firstcharinbox

F firstglyph

F flatten_discretionaries

F flush

F flush_list

F flush_node

F free

F fullhpack

F get_components

F get_synctex_fields

F getattr

F getattribute

F getattributelist

F getattrlist

F getboth

F getbox

F getboxglue

F getchar

F getcomponents

F getdata

F getdepth

F getdirection

F getdisc

F getdiscretionary

F getexpansion

F getfam

F getfield

F getfont

F getglue

F getglyphdata

F getheight

F getid

F getkern

F getlang

F getlanguage

F getleader

F getlist

F getnext

F getnormalizedline

F getnucleus

F getoffsets

| | |
|---------------------|---------------------|
| F getorientation | F locate |
| F getpenalty | F migrate |
| F getpost | F mlist_to_hlist |
| F getpre | F nestedtracedslide |
| F getprev | F new |
| F getprop | T pool |
| F getreplace | F accent |
| F getruledata | F baselineskip |
| F getscript | F boundary |
| F getshift | F choice |
| F getsstate | F cleanup |
| F getsub | F delim |
| F getsubpre | F delimiter |
| F getsubtype | F direction |
| F getsup | F directliteral |
| F getsuppre | F disc |
| F getsurround | F emptyrule |
| F getvalue | F fence |
| F getwhd | F fontkern |
| F getwidth | F fraction |
| F has_attribute | F glue |
| F has_dimensions | F gluespec |
| F has_field | F glyph |
| F has_glyph | F hlist |
| F hpack | F indentskip |
| F hyphenating | F italickern |
| F insert_after | F kern |
| F insert_before | F latelua |
| F insert_list_after | F leader |
| F is_direct | F lefthangskip |
| F is_display_math | F leftmarginkern |
| F is_node | F leftskip |
| F is_nut | F lineskip |
| F is_zero_glue | F literal |
| F ischar | F mathchar |
| F isdone | F mathtextchar |
| F isglyph | F negatedglue |
| F kerning | F noad |
| F last_node | F originliteral |
| F leftmarginwidth | F outlinerule |
| F length | F pageliteral |
| F ligaturing | F penalty |
| F link | F radical |
| F linked | F rawliteral |

| | |
|-----------------------|----------------------|
| F register | F stroke |
| F restore | F userrule |
| F righthangskip | F set_attribute |
| F rightmarginkern | F set_components |
| F rightskip | F set_synctex_fields |
| F rule | F setattr |
| F save | F setattribute |
| F savepos | F setattributelist |
| F setmatrix | F setattributes |
| F shrink | F setattrlist |
| F stretch | F setboth |
| F subbox | F setbox |
| F submlist | F setboxglue |
| F temp | F setchar |
| F usage | F setcomponents |
| T userids | F setdata |
| N margins.inline | F setdepth |
| N splitters.one | F setdirection |
| N splitters.two | F setdisc |
| F usernode | F setdiscretionary |
| F userrule | F setexpansion |
| F vlist | F setfam |
| F wordboundary | F setfield |
| F prepend | F setfont |
| F processranges | F setglue |
| F processwords | F setglyphdata |
| F protect_glyph | F setheight |
| F protect_glyphs | F setkern |
| F protrusion_skipable | F setlang |
| F rangedimensions | F setlanguage |
| F rawprop | F setleader |
| F reference | F setlink |
| F rehpick | F setlist |
| F remove | F setnext |
| F repackhlist | F setnucleus |
| F replace | F setoffsets |
| F reverse | 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 setruledata | F glue | |
| F setscript | F glyph | |
| F setshift | F hlist | |
| F setsplit | F list | |
| F setstate | F next | |
| F setsub | F node | |
| F setsubpre | F vlist | |
| F setsubtype | F whatsit | |
| F setup | T typesetters | |
| F setsuppre | F tohbox | |
| F setsurround | F tohpack | |
| F setunsetattributes | F tonodes | |
| F setvalue | F toinbox | |
| F setvisual | F tovpack | |
| F setvisuals | F unprotect_glyph | |
| F setwhd | F unprotect_glyphs | |
| F setwidth | F unset_attribute | |
| F slide | F unsetattribute | |
| F somepenalty | F unsetattributes | |
| F somespace | F untracedslide | |
| F splitbox | F usedlist | |
| F start_of_par | F uses_font | |
| F striprange | F vianodes | |
| F tail | F vianuts | |
| F takeattr | F vpack | |
| F takebox | F write | |
| F takelist | packlist | function |
| F theprop | penaltycodes | data table |
| F tonode | plugindata | table |
| F tonodes | F finalizer | |
| F tonut | F initializer | |
| F tosequence | S name | |
| F toString | T namespace | |
| F tracedslide | N attribute | |
| F traverse | D data | |
| F traverse_char | F enable | |
| F traverse_glyph | F handler | |
| F traverse_id | F register | |
| F traverse_list | D registered | |
| T traversers | D values | |
| F boundary | F processor | |
| F char | points | function |
| F dir | pool | table |
| F disc | F baselineskip | |

| | | | |
|-----------------------------|------------|---------------------------|------------|
| F cleanup | | report | function |
| F directliteral | | rightmarginwidth | function |
| F glyph | | rulecodes | data table |
| F hlist | | rules | table |
| F latelua | | D data | |
| F lineskip | | F define | |
| F literal | | F enable | |
| F originliteral | | F handler | |
| F register | | F userrule | |
| F restore | | save | function |
| F rule | | serialize | function |
| F save | | serializebox | function |
| F savepos | | set_attribute | function |
| F setmatrix | | setattr | function |
| F special | | setattribute | function |
| F usage | | setattributes | function |
| F vlist | | setboth | function |
| prepend | function | setbox | function |
| print | function | setboxtonaturalwd | function |
| processors | table | setchar | function |
| F contribute_filter | | setfield | function |
| B enabled | | setfont | function |
| F hpack_filter | | setleader | function |
| F post_linebreak_filter | | setlink | function |
| F pre_linebreak_filter | | setlist | function |
| F tracer | | setnext | function |
| properties | table | setprev | function |
| T data | | setunsetattributes | function |
| protect_glyph | function | shifts | table |
| protect_glyphs | function | D data | |
| protrusion_skippable | function | F define | |
| pts | function | F enable | |
| radicalcodes | data table | F handler | |
| rangedimensions | function | show | function |
| reference | function | showboxes | function |
| references | table | showcodes | function |
| N attribute | | showlist | function |
| T done | | showsimplelist | function |
| F handler | | skipcodes | data table |
| T stack | | skipvalues | data table |
| reheapack | function | slide | function |
| remove | function | snapshots | table |
| repackhlist | function | F getparameters | |
| replace | function | F getsamples | |

| | | | |
|-----------------------------|------------|-----------------------|----------|
| F resetsamples | | topoints | function |
| F takesample | | toscaledpoints | function |
| somepenalty | function | tosequence | function |
| somespace | function | tostring | function |
| splitbox | function | totable | function |
| start_of_par | function | totree | function |
| stripdiscretionaries | function | toutf | function |
| stripping | table | tracers | table |
| T glyphs | | T characters | |
| F set | | F collect | |
| subtypes | data table | F equal | |
| tail | function | F start | |
| takeattr | function | F string | |
| takebox | function | F unicodes | |
| tasks | table | T colors | |
| F actions | | F reset | |
| F appendaction | | F set | |
| F disableaction | | F setlist | |
| F disablegroup | | F directions | |
| F enableaction | | F fontchar | |
| F enablegroup | | T frequencies | |
| F freeze | | F register | |
| F freezegroup | | T pool | |
| F new | | T nodes | |
| F prependaction | | F rule | |
| F removeaction | | T nuts | |
| F replaceaction | | F rule | |
| F restart | | F resetproperties | |
| F setaction | | F rule | |
| F showactions | | F setlist | |
| F table | | F setproperties | |
| tobasepoints | function | F start | |
| tocentimeters | function | T steppers | |
| tociceros | function | F check | |
| todidots | function | F codes | |
| todimen | function | F features | |
| toinches | function | F font | |
| tomillimeters | function | F glyphs | |
| tonewciceros | function | F message | |
| tonewdidots | function | F messages | |
| tonode | function | F nofsteps | |
| tonodes | function | F register | |
| tonut | function | F reset | |
| topicas | function | F start | |

| | | | |
|------------------------|----------|-------------------------|------------|
| F stop | | unprotect_glyphs | function |
| F stop | | unset_attribute | function |
| T transparencies | | unsetattribute | function |
| F reset | | unsetattributes | function |
| F set | | usedlist | function |
| F setlist | | usercodes | data table |
| traverse | function | uses_font | function |
| traverse_char | function | vianodes | function |
| traverse_glyph | function | vianuts | function |
| traverse_id | function | visualizebox | function |
| traverse_list | function | visualizers | table |
| traversers | table | F attribute | |
| F char | | T attributes | |
| F glyph | | F box | |
| F list | | F handler | |
| F node | | F markfonts | |
| typesetters | table | F register | |
| F hbox | | F setfont | |
| F hpack | | F setlayer | |
| F tohbox | | F setruledglyph | |
| F tohpack | | F setvisual | |
| F tonodes | | vpack | function |
| F toinbox | | whatcodes | data table |
| F toinbox | | whatsitcodes | data table |
| F toinbox | | write | function |
| unprotect_glyph | 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 |

optional (context)

curl table

F escape
F fetch
F getversion
F initialize
F unescape

ghostscript table

F execute
F initialize

graphicsmagick table

F execute
F initialize

kpse table

F expand_braces
F expand_path
F expand_var
F find_file
F find_files
F get_file_types
F initialize
F readable_file
F set_program_name
F var_value

loaded table

mujs table

F dofile
F execute
F initialize

F reset
F setclosefile
F setconsole
F setfindfile
F setopenfile
F setreadfile
F setseekfile

mysql table

F close
F execute
F getmessage
F initialize
F open

postgress table

F close
F execute
F getmessage
F initialize
F open

sqlite table

F close
F execute
F getmessage
F initialize
F open

zint table

F execute
F initialize

os (basic lua)

| | |
|---------------------------|---------------------|
| <code>__getenv__</code> | function |
| <code>__setenv__</code> | function |
| <code>binsuffix</code> | string |
| <code>binsuffixes</code> | table |
| <code>clock</code> | function |
| <code>converttime</code> | function |
| <code>date</code> | overloaded function |
| <code>difftime</code> | function |
| <code>enableansi</code> | function |
| <code>env</code> | data table |
| <code>execute</code> | overloaded function |
| <code>exit</code> | overloaded function |
| <code>fulltime</code> | function |
| <code>getcodepage</code> | function |
| <code>getenv</code> | overloaded function |
| <code>gettimeofday</code> | function |
| <code>isleapyear</code> | function |
| <code>launch</code> | function |
| <code>libsuffix</code> | string |
| <code>localtime</code> | function |
| <code>name</code> | string |
| <code>newline</code> | string |
| <code>nofdays</code> | function |
| <code>now</code> | function |
| <code>pipeto</code> | function |
| <code>platform</code> | string |
| <code>remove</code> | overloaded function |

| | |
|----------------------------|---------------------|
| <code>rename</code> | overloaded function |
| <code>resolvers</code> | table |
| <code> F bits</code> | |
| <code>resultof</code> | function |
| <code>runtime</code> | function |
| <code>selfarg</code> | table |
| <code>selfbase</code> | string |
| <code>selfbin</code> | string |
| <code>selfcore</code> | string |
| <code>selfdir</code> | string |
| <code>selfname</code> | string |
| <code>selfpath</code> | string |
| <code>setenv</code> | overloaded function |
| <code>setexitcode</code> | function |
| <code>setlocale</code> | overloaded function |
| <code>sleep</code> | function |
| <code>time</code> | function |
| <code>timezone</code> | function |
| <code>tmpname</code> | function |
| <code>today</code> | function |
| <code>type</code> | string |
| <code>uname</code> | function |
| <code>uuid</code> | function |
| <code>validdatetime</code> | function |
| <code>weekday</code> | function |
| <code>where</code> | function |
| <code>which</code> | function |

package (basic lua)

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

pagebuilders (context)

columnsets table

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

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

injections table

F flushafter
F flushbefore
F save

mixedcolumns table

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

pdf (basic tex)

immediateobj function

pdf (extra tex)

| | | | |
|--------------------------|------------|------------------------|------------|
| arraytotable | function | getnumber | function |
| close | function | getpage | function |
| closestream | function | getpages | function |
| dictionarytotable | function | getsize | function |
| encryptioncodes | data table | getstatus | function |
| getarray | function | getstream | function |
| getboolean | function | getstring | function |
| getbox | function | gettrailer | function |
| getcatalag | function | getversion | function |
| getdictionary | function | new | function |
| getfromarray | function | objectcodes | data table |
| getfromdictionary | function | open | function |
| getfromreference | function | openfile | function |
| getfromstream | function | openstream | function |
| getinfo | function | pages totable | function |
| getinteger | function | readfromstream | function |
| getmemoryusage | function | readwholestream | function |
| getname | function | type | function |
| getnofobjects | function | unencrypt | function |
| getnofpages | function | | |

physics (context)

units table

F registerunit

D tables

pngdecode (extra tex)

applyfilter function

expand function

interlace function

splitmask function

tocmyk function

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 | function | usedataset | function |
| tracers | table | usedentries | function |
| F showdatasetauthors | | writers | table |
| F showdatasetcompleteness | | F author | |
| F showdatasetfields | | F keyword | |
| F showentry | | F pagenumber | |
| F showfields | | F range | |
| 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 | findtexfile | function |
| appendhash | function | findwildcardfile | function |
| automount | function | findwildcardfiles | function |
| booleanvariable | function | formatofsuffix | function |
| cacheversion | string | formatofvariable | function |
| checkedvariable | function | formats | data table |
| cleanedpathlist | function | foundintree | function |
| cleanpath | function | foundintrees | function |
| cleanpathlist | function | generators | data table |
| concatinators | data table | get_from_content | function |
| configbanner | string | getenv | function |
| configurationfiles | function | getextrapaths | function |
| dangerous | data table | getfilehashes | function |
| datastate | function | gethashes | function |
| defaultsuffixes | table | getownpath | function |
| dirstatus | function | getreadfilename | function |
| dowithfilesandreport | function | hashers | data table |
| dowithfilesintree | function | homedir | string |
| dowithpath | function | initialized | function |
| dowithvariable | function | installinputfilehandler | function |
| executers | table | installinputlinehandler | function |
| expandbraces | function | jobpath | function |
| expandedpathfromlist | function | jobs | table |
| expandedpathlist | function | F currentcomponent | |
| expandedpathlistfromvariable | function | F currentenvironment | |
| expandpath | function | F currentproduct | |
| expandpathfromvariable | function | F currentproject | |
| expansion | function | F justacomponent | |
| extendtexmfvariable | function | D processors | |
| filtered_from_content | function | F productcomponent | |
| find_file | function | F usefile | |
| find_files | function | joinpath | function |
| findbinfile | function | knownvariables | function |
| findctxfile | function | libraries | table |
| finders | data table | F optionalloaded | |
| findfile | function | F validoptional | |
| findfiles | function | load | function |
| findgivenfile | function | loadbinfile | function |
| findgivenfiles | function | loaders | data table |
| findlib | function | loadlua lib | function |
| findpath | function | loadtexfile | function |

| | | | |
|--------------------------|------------|-------------------------------|------------|
| loadtime | function | resetmemstream | function |
| locateformat | function | resetresolve | function |
| locators | data table | resolve | function |
| luacnffallback | string | savers | data table |
| luacnfname | string | scandata | function |
| luacnfspec | string | scanfiles | function |
| luacnfstate | string | schemes | table |
| macros | table | T cleaners | |
| F convertfile | | F md5 | |
| F decodecomment | | F none | |
| F enablecomment | | F strip | |
| F encodecomment | | F cleanname | |
| F preprocessed | | F fetchstring | |
| F processmk | | F fetchtable | |
| F processmklx | | F install | |
| F processmkvi | | setdynamic | function |
| F version | | setenv | function |
| maxreadlevel | number | setmemstream | function |
| methodhandler | function | showpath | function |
| openbinfile | function | simplescanfiles | function |
| openers | data table | splitconfigurationpath | function |
| openfile | function | splitexpansions | function |
| opentexfile | function | splitmethod | function |
| ownpath | string | splitpath | function |
| popextrapath | function | stackpath | function |
| popinputname | function | starttiming | function |
| poppath | function | stoptiming | function |
| prefixes | data table | suffixes | data table |
| prependhash | function | suffixmap | data table |
| pushextrapath | function | suffixofformat | function |
| pushinputname | 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 |
| wildcardpattern | function |

sandbox (context)

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

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

scripts (context)

autofontfeature table

F disable
F enable
F handler

colors data table

decomposehangul function

defaults table

N inter_char_half_shrink_factor
N inter_char_half_stretch_factor
N inter_char_hangul_penalty
N inter_char_quarter_shrink_factor
N inter_char_quarter_stretch_factor
N inter_char_shrink_factor
N inter_char_stretch_factor
N inter_word_stretch_factor

getdata function

getinjector function

getsplitter function

getstatus function

handlers data table

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

numbertodataset data table

numbertohandler data table

reset function

set function

setstatus function

splitters data table

set (context)

contains function

create function

tolist function

tonumber function

totable function

sha2 (extra lua)

| | |
|------------------|----------|
| HASH256 | function |
| HASH384 | function |
| HASH512 | function |
| HEX256 | function |
| HEX384 | function |
| HEX512 | function |
| digest256 | function |
| digest384 | function |
| digest512 | function |

| | |
|----------------|----------|
| hash256 | function |
| hash384 | function |
| hash512 | function |
| hex256 | function |
| hex384 | function |
| hex512 | function |
| sum256 | function |
| sum384 | function |
| sum512 | function |

sio (extra lua)

read2dot14 function
readbytes function
readbytetable function
readcardinal1 function
readcardinal1le function
readcardinal2 function
readcardinal2le function
readcardinal3 function
readcardinal3le function
readcardinal4 function
readcardinal4le function
readcardinaltable function

readfixed2 function
readfixed4 function
readinteger1 function
readinteger1le function
readinteger2 function
readinteger2le function
readinteger3 function
readinteger3le function
readinteger4 function
readinteger4le function
readintegertable function

socket (extra lua)

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

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

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

sorters (context)

basicsorter function

comparers table

 F basic

constants table

 S defaultdigits

 S defaultlanguage

 S defaultmethod

 N digitmaximum

 N digitoffset

 N ignoredoffset

 N replacementoffset

 T validmethods

 B ch

 B mc

 B mm

 B pc

 B pm

 B uc

 B zc

 B zm

definitions data table

firstofsplit function

packch function

packuc function

replacementlist function

setlanguage function

sort function

splitters table

 F utf

strip function

tracers data table

update function

statistics (context)

| | |
|-----------------------|----------|
| benchmarktimer | function |
| callbacks | function |
| checkfmtstatus | function |
| currenttime | function |
| elapsed | function |
| elapsedindeed | function |
| elapsedseconds | function |
| elapsedtime | function |
| enable | boolean |
| formatruntime | function |
| hastiming | function |

| | |
|----------------------|----------|
| memused | function |
| register | function |
| resettiming | function |
| runtime | function |
| savefmtstatus | function |
| show | function |
| starttiming | function |
| stoptiming | function |
| threshold | number |
| timed | function |
| tracefunction | function |

status (basic tex)

constants
list

function
function

resetmessages 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 | nspace | table |
| autosingle | function | optionalquoted | function |
| booleanstring | function | pack | function |
| byte | function | packsize | function |
| bytepairs | function | quote | function |
| bytes | function | quoted | function |
| bytetable | function | rep | function |
| char | function | replacenewlines | function |
| characterpairs | function | reverse | function |
| characters | function | split | function |
| checkedsplit | function | splitlines | function |
| collapsespaces | function | splitup | function |
| containsws | function | strip | function |
| count | function | sub | function |
| dawson | function | tformat | function |
| dump | function | toHEX | function |
| erf | function | toboollean | function |
| erfc | function | tobytes | function |
| erfcx | function | tocontext | function |
| erfi | function | todec | function |
| escapedpattern | function | todimen | function |
| escapedquotes | function | tohex | function |
| explode | function | tonodes | function |
| f6 | function | topattern | function |
| find | function | totable | function |
| format | function | tounicode16 | function |
| formatter | function | toutf | function |
| formatters | function | toutf32 | function |
| fullstrip | function | toutf8 | 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 |
| linetable | function | utfcharacters | function |
| longtostring | function | utfcharacteratable | function |
| lower | function | utflength | function |
| match | function | utfpadd | function |
| nspace | function | utfpadding | function |

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

structures (context)

| | | |
|-------------------|----------|--------------------------------------|
| allocation | 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 formulainumber |
| 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 numbers
F ordered
F postpone
F resetpostponed
F restore
F save
F setstate
D states
F store

pages table

F allmarked
F analyze
D collected
F fraction
F in_body
F is_odd
F mark
F marked
N nopages
F number
F on_right
F save
D tobesaved
F toranges

references table

F analyze
F checkedfile
F checkedfileorurl
F checkedprogram
F checkedrealpage
F checkedurl
D collected
U componentsplitter
F currentmetadata
F currentorder
D currentset
F define
D defined
D derived
F enhance
D executers
F expandcurrent
F export

T files
T data
F define
F found
F get
F filter
F filterdefault
D filters
D flaginternals
F from
D functions
F get
F getcurrentmetadata
F getcurrentprefixspec
F getinnermethod
F getinternalcachedlistreference
F getinternallistreference
F getinternalreference
F getoutermethod
D handlers
F identify
F import
F inject
F injectcurrentset
S innermethod
D internals
F load
F loadpresets
F mark
S outermethod
D pages
U prefixsplitter
D productdata
T programs
T data
F define
F get
F realpageofpage
U referencesplitter
D referred
F referredpage
F registerfinalizer
F registerinitializer
F registerpage

- F reset
- D runners
- F set
- F setandgetattribute
- F 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 registerused | |
| F save | | F resetshown | |
| T sectionblockdata | | F resetused | |
| T bodypart | | F sort | |
| S bookmark | | F synonym | |
| F set | | D tobesaved | |
| F setblock | | tags | table |
| F setchecker | | F current | |
| F setentry | | F elementtag | |
| F setinitialblock | | F finishexport | |
| F setlevel | | F getextradata | |
| F setnumber | | F getid | |
| F showstructure | | F getmetadata | |
| F structuredata | | F gettablecell | |
| F title | | F gettabulatecell | |
| D tobesaved | | F handler | |
| F typesetnumber | | F initializeexport | |
| F userdata | | D labels | |
| B verbose | | F last | |
| sets | table | F lastinchain | |
| F define | | F locatedtag | |
| F get | | T patterns | |
| F getall | | U splitter | |
| D setlist | | D properties | |
| specials | table | F registerextradata | |
| D collected | | F registermetadata | |
| F retrieve | | F restart | |
| F store | | F setaspect | |
| D tobesaved | | F setattributehash | |
| synonyms | table | F setcombination | |
| F analyzed | | F setconstruct | |
| D collected | | F setfigure | |
| F compare | | F setfloat | |
| F define | | F setformulacontent | |
| F filter | | F sethighlight | |
| F finalize | | F setitem | |
| F flush | | F setitemgroup | |
| F isshown | | F setlist | |
| F isused | | F setnotation | |
| F meaning | | F setnotationsymbol | |
| F prepare | | F setparagraph | |
| F process | | F setproperty | |
| F register | | F setpublication | |
| F registershown | | F setregister | |

F setsorting

F setsynonym

F settablecell

F settabulatecell

F settagdelimitedsymbol

F settagssentencesymbol

F setupexport

F setuserproperties

D specifications

F start

F stop

F strip

D taglist

T usewithcare

T images

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 | getcount | function |
| badness | function | getdelcode | function |
| box | table | getdelcodes | function |
| boxresources | table | getdimen | function |
| F getbox | | getfontoffamily | function |
| F getdimensions | | getglue | function |
| F save | | getglyphdata | function |
| F use | | getglyphscript | function |
| catcode | table | getglyphstate | function |
| chardef | function | getgroupvalues | function |
| conditionals | data table | gethelptext | function |
| constants | data table | gethyphenationvalues | function |
| count | table | getinteraction | function |
| cprint | function | getlccode | function |
| ctdcatcodes | number | getlinedir | function |
| ctxcatcodes | number | getlist | function |
| definefont | function | getlocallevel | function |
| delcode | table | getmark | function |
| dimen | table | getmath | function |
| directives | data table | getmathcode | function |
| enableprimitives | function | getmathcodes | function |
| error | function | getmathdir | function |
| experiments | data table | getmodevalues | function |
| extraprimitives | function | getmuglue | function |
| fatalerror | function | getmuskip | function |
| fontidentifier | function | getnest | function |
| fontname | function | getpagestate | function |
| force_synctex_line | function | getpardir | function |
| force_synctex_tag | function | getprefixvalues | function |
| forcehmode | function | getsfcode | function |
| fprint | function | getskip | function |
| get | function | gettextdir | function |
| get_synctex_line | function | gettoks | function |
| get_synctex_mode | function | getuccode | function |
| get_synctex_tag | function | glue | table |
| getattribute | function | groupcodes | data table |
| getbox | function | hashtokens | function |
| getboxdir | function | hyphenationcodes | data table |
| getboxresourcebox | function | ifs | data table |
| getboxresourcecdimensions | function | inimatcodes | number |
| getcatcode | function | isattribute | function |

| | | | |
|-----------------------|---------------------|-----------------------------|----------|
| isbox | function | romannumeral | function |
| iscount | overloaded function | round | function |
| isdefined | function | runtoks | function |
| isdimen | overloaded function | saveboxresource | function |
| isglue | function | scale | function |
| ismuglue | function | scantoks | function |
| ismuskip | overloaded function | set | function |
| isprintable | function | set_synctex_line | function |
| isskip | overloaded function | set_synctex_mode | function |
| istoken | function | set_synctex_no_files | function |
| istoks | function | set_synctex_tag | function |
| lastnodetype | function | setattribute | function |
| lccode | table | setbox | function |
| linebreak | function | setboxdir | function |
| lists | table | setcatcode | function |
| luacatcodes | number | setcount | function |
| magicconstants | table | setdelcode | function |
| N maxdimen | | setdimen | function |
| N running | | setglue | function |
| N trueinch | | setglyphdata | function |
| mathchardef | function | setglyphscript | function |
| mathcode | table | setglyphstate | function |
| modelevels | table | setinteraction | function |
| N horizontal | | setlccode | function |
| N math | | setlinedir | function |
| N unset | | setlist | function |
| N vertical | | setmath | function |
| modes | data table | setmathcode | function |
| muglue | table | setmathdir | function |
| muskip | table | setmuglue | function |
| nest | table | setmuskip | function |
| nilcatcodes | number | setnest | function |
| notcatcodes | number | setpardir | function |
| number | function | setsfcode | function |
| prefixcodes | table | setskip | function |
| N frozen | | settexdir | function |
| N global | | settoks | function |
| N immediate | | setuccode | function |
| N protected | | sfcode | table |
| primitives | function | shipout | function |
| print | function | show_context | function |
| prtcategories | number | skip | table |
| quittoks | function | sp | function |
| resetparagraph | function | splitbox | function |

| | | | |
|--------------------|------------|-------------------------|------------|
| sprint | function | trackers | data table |
| systemmodes | data table | triggerbuildpage | function |
| takebox | function | txtcatcodes | number |
| texcatcodes | number | type | function |
| toks | table | uccode | table |
| tonumber | function | uprint | function |
| toscaled | function | useboxresource | function |
| tpacatcodes | number | vrbcatcodes | number |
| tpbcatcodes | number | write | function |
| tprint | 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

terminal function

write function

write_nl function

token (basic tex)

accessors

F active
F cmd
F cmdchr_{cs}
F cmdname
F command
F csname
F expandable
F frozen
F index
F name
F protected
F range
F user

biggest_char function
command_id function
create function
expand function
future_expand function
get_active function
get_cmdchr_{cs} function
get_cmdname function
get_command function
get_csname function
get_cstoken function
get_data function
get_expandable function
get_frozen function
get_id function
get_index function
get_macro function
get_meaning function
get_pool_list function
get_protected function
get_range function
get_tok function
get_user function
gobble function
gobble_dimen function
gobble_int function
is_defined function

table

is_next_char function
is_token function
new function
peek_next function
peek_next_char function
peek_next_expanded function
pop_macro function
primitives function
push_macro function
put_back function
put_next function
scan_argument function
scan_box function
scan_cardinal function
scan_char function
scan_cmdchr function
scan_cmdchr_expanded function
scan_code function
scan_csname function
scan_delimited function
scan_dimen function
scan_float function
scan_glue function
scan_integer function
scan_key function
scan_keyword function
scan_keyword_cs function
scan_letters function
scan_luacardinal function
scan_luainteger function
scan_luanumber function
scan_next function
scan_next_char function
scan_next_expanded function
scan_real function
scan_skip function
scan_string function
scan_token function
scan_token_code function
scan_tokenlist function
scan_toks function

| | | | |
|-------------------|----------|---------------------------|----------|
| scan_value | function | skip_next | function |
| scan_word | function | skip_next_expanded | function |
| set_char | function | to_string | function |
| set_data | function | type | function |
| set_lua | function | values | function |
| set_macro | function | | |

tokens (context)

astable function

bits table

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

cache table

U NC
U NR
U bf
U color
U colordefalc
U colordefflc
U colordefflt
U colordefrlt
U dofinishreference
U dostarttext
U finishjob
U firstofoneargument
U firstoftwoarguments
U gobbleoneargument
U goto
U iftrue
U input
U loadfoundtypescriptfile

U resetctxscanner
U rlap
U scratchcounter
U scratchdimen
U scratchmuskip
U scratchskip
U scratchtoken
U secondoftwoarguments
U setfalsevalue
U setsectionblock
U setupsystem
U startcolumns
U starttabulate
U starttitle
U startxtitle
U stopcolumns
U stoptabulate
U stoptitle
U stopxtitle
U texsetup
U xmlw

commands data table

compile function

constant function

converters table

S toboolean
S todimen
S toglue
S tonumber
S toString

create function

defined function

getdata function

getters table

F box
F count
F cstoken
F dimen
F glue
F macro
F meaning

F skip
 F token
isdefined function
istoken function
new function
pickup function
popmacro function
presets table

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

pushmacro function
scanners table

F argument
 F argumentasis
 F array
 F boolean
 F box
 F bracketed
 F bracketedasis
 F cardinal
 F char
 F cmdchr
 F cmdchrexploded
 F code
 F conditional
 F count
 F csname
 F delimited
 F dimen
 F dimension
 F float
 F glue
 F gluespec
 F gluevalues

F hash
 F hbox
 F integer
 F ischar
 F key
 F keyword
 F keywordcs
 F letters
 F list
 F luacardinal
 F luainteger
 F luanumber
 F lxmlid
 F next
 F nextexploded
 F number
 F optional
 F peek
 F peekchar
 F peekexploded
 F real
 F scanclose
 F scanopen
 F skip
 F skipexploded
 F string
 F table
 F token
 F tokencode
 F tokenlist
 F tokens
 F toks
 F value
 F vbox
 F verbatim
 F vtop
 F whd
 F word

setdata function
setters table

F box
 F char
 F count
 F dimen

| | |
|------------------------|--------------------|
| F glue | F scandimension |
| F lua | F scan glue |
| F macro | F scan glue spec |
| F skip | F scan glue values |
| shortcuts table | F scan hash |
| T bits | F scan hbox |
| N active | F scan integer |
| N alignment | F scan keyword |
| N begingroup | F scan keyword cs |
| N character | F scan letters |
| N close | F scan list |
| N comment | T scanners |
| N endgroup | F argument |
| N endofline | F argument asis |
| N escape | F array |
| N ignore | F boolean |
| N invalid | F box |
| N letter | F bracketed |
| N mathshift | F bracketed asis |
| N open | F cardinal |
| N other | F char |
| N parameter | F cmd chr |
| N space | F cmd chr expanded |
| N subscript | F code |
| N superscript | F conditional |
| N whitespace | F count |
| N close | F cs name |
| F inspect | F delimited |
| N open | F dimen |
| F report | F dimension |
| F scan argument | F float |
| F scan argument asis | F glue |
| F scan array | F glue spec |
| F scan boolean | F glue values |
| F scan box | F hash |
| F scan bracketed | F hbox |
| F scan bracketed asis | F integer |
| F scan cardinal | F is char |
| F scan close | F key |
| F scan code | F keyword |
| F scan conditional | F keyword cs |
| F scan cs name | F letters |
| F scan delimited | F list |
| F scan dimen | F luacardinal |

| | |
|-----------------|---------------------------|
| F luainteger | U NC |
| F luanumber | U NR |
| F lxmlid | U bf |
| F next | U color |
| F nextexpanded | U colordefalc |
| F number | U colordefflc |
| F optional | U colordefflt |
| F peek | U colordefrlt |
| F peekchar | U dofinishreference |
| F peekexpanded | U dostarttext |
| F real | U finishjob |
| F scanclose | U firstofoneargument |
| F scanopen | U firstoftwoarguments |
| F skip | U gobbleoneargument |
| F skipexpanded | U goto |
| F string | U iftrue |
| F table | U input |
| F token | U loadfoundtypescriptfile |
| F tokencode | U resetctxscanner |
| F tokenlist | U rlap |
| F tokens | U scratchcounter |
| F toks | U scratchdimen |
| F value | U scratchmuskip |
| F vbox | U scratchskip |
| F verbatim | U scratchtoken |
| F vtop | U secondoftwoarguments |
| F whd | U setfalsevalue |
| F word | U setsectionblock |
| F scannumber | U setupsystem |
| F scanopen | U startcolumns |
| F scanoptional | U starttabulate |
| F scanstring | U starttitle |
| F scantable | U startxtitle |
| F scantokenlist | U stopcolumns |
| F scantoks | U stoptabulate |
| F scanvbox | U stoptitle |
| F scanverbatim | U stopxtitle |
| F scanvtop | U texsetup |
| F scanword | U xmlw |
| F toboolean | D commands |
| F todimen | F compile |
| T tokens | F constant |
| F astable | T converters |
| T cache | S toboolean |

| | |
|--------------------|--------------------------|
| S todimen | F scanboolean |
| S toglue | F scanbox |
| S tonumber | F scanbracketed |
| S toString | F scanbracketedasis |
| F create | F scancardinal |
| F defined | F scanclose |
| F getdata | F scancode |
| T getters | F scanconditional |
| F box | F scanscname |
| F count | F scandelimited |
| F cstoken | F scandimen |
| F dimen | F scandimension |
| F glue | F scanglue |
| F macro | F scangluespec |
| F meaning | F scangluevalues |
| F skip | F scanhash |
| F token | F scanhbox |
| F isdefined | F scaninteger |
| F istoken | F scankeyword |
| F new | F scankeywordcs |
| F pickup | F scanletters |
| F popmacro | F scanlist |
| T presets | F scannumber |
| F pushmacro | F scanopen |
| F setdata | F scanoptional |
| T setters | F scanstring |
| F box | F scantable |
| F char | F scantokenlist |
| F count | F scantoks |
| F dimen | F scanvbox |
| F glue | F scanverbatim |
| F lua | F scanvtop |
| F macro | F scanword |
| F skip | F toboolean |
| T shortcuts | F todimen |
| N close | F tonumber |
| F inspect | F toString |
| N open | D values |
| F report | F tonumber |
| F scanargument | F toString |
| F scanargumentasis | values data table |
| F scanarray | |

tracers (context)

| | |
|------------------|----------|
| count | function |
| cs | function |
| dimen | function |
| knownlist | function |
| lists | table |
| T context | |
| T internals | |
| T scratch | |
| name | function |

| | |
|---------------------|----------|
| primitive | function |
| printerror | function |
| printwarning | function |
| showlines | function |
| strings | table |
| S undefined | |
| toks | function |
| type | 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
F set

breakpoints table

F define
F handler
D mapping
T methods
T numbers
F set
F setreplacement

cases table

T actions
F handler
F register
F set

characteralign table

F handler
F resetcharacteralign
F setcharacteralign

characters table

F handler
T methods
F replacensp
F replacenspaces

checkers table

F handler
F reset
F set

cleaners table

F handler
F set

digits table

T actions
F handler
F set

directions table

F getfences
F getglobal
F getmethod
F handler

T handlers
F installhandler
F processmath
F set
F setcolor
F setmath
F tomode

firstlines table

T actions
F default
F line
F word
F handler
F set

fontkerns table

F handler

initials table

T actions
F default
F addanchortoline
F addtoline
F calculatedelta
F checkline
F handler
F moveinline
F normalize
F set

injectors table

F check
T list
F mark
F reset
F set
F show

italics 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 (basic lua)

char function
charpattern string
codepoint function

codes function
len function
offset function

utilities (context)

| | | |
|---------------------|-------|-------------------------------|
| debugger | table | |
| F disable | | F readtag |
| F enable | | F setposition |
| F savestats | | F size |
| F showstats | | F skip |
| F showtraceback | | F skiplong |
| | | F skipposition |
| files | table | F skipshort |
| F close | | F writebyte |
| F getposition | | F writecardinal1 |
| F getsize | | F writecardinal1le |
| F look | | F writecardinal2 |
| F open | | F writecardinal2le |
| F read2dot14 | | F writecardinal3 |
| F readbyte | | F writecardinal3le |
| F readbytes | | F writecardinal4 |
| F readbytetable | | F writecardinal4le |
| F readcardinal | | F writeinteger1 |
| F readcardinal1 | | F writeinteger1le |
| F readcardinal1le | | F writeinteger2 |
| F readcardinal2 | | F writeinteger2le |
| F readcardinal2le | | F writeinteger3 |
| F readcardinal3 | | F writeinteger3le |
| F readcardinal3le | | F writeinteger4 |
| F readcardinal4 | | F writeinteger4le |
| F readcardinal4le | | F writestring |
| F readcardinaltable | | formatters table |
| F readchar | | F formatcolumns |
| F readfixed2 | | F list |
| F readfixed4 | | F stripzeros |
| F readinteger | | garbagecollector table |
| F readinteger1 | | F check |
| F readinteger1le | | N criterium |
| F readinteger2 | | B enabled |
| F readinteger2le | | ghostscript table |
| F readinteger3 | | F convert |
| F readinteger3le | | F statistics |
| F readinteger4 | | graphicmagick table |
| F readinteger4le | | F convert |
| F readintegertable | | F statistics |
| F readsignedbyte | | graphicsmagick table |
| F readstring | | F convert |

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

packers table

F hashed
F new
F pack
F simplehashed
F strip
F unpack
N version

parsers table

F add_settings_to_array
F arguments_to_table
F array_to_string
F csvsplitter
F getparameters
F groupedsplitat
F hash_to_string
T hashes
T settings_to_set
T text,hidden,paper,page,leftpage,rightpage
B hidden

B leftpage

B page

B paper

B rightpage

B text

F iterator

F keq_to_hash

F listitem

F make_settings_to_hash_pattern

F mergehashes

F options_to_array

F options_to_hash

T patterns

U settings_to_array

U settings_to_hash_a

U settings_to_hash_b

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 | | streams | table |
| F reuseseed | | F close | |
| F setseed | | F getposition | |
| F setseedi | | F getsize | |
| randomizers | table | F getstring | |
| F poisson | | F look | |
| report | function | F open | |
| sequencers | table | F openstring | |
| F appendaction | | F read2dot14 | |
| F appendgroup | | F read2dot4 | |
| F compile | | F readbyte | |
| F disableaction | | F readbytes | |
| F disablegroup | | F readbytetable | |
| F enableaction | | F readcardinal | |
| F enablegroup | | F readcardinal1 | |
| D functions | | F readcardinal2 | |
| F localize | | F readcardinal2le | |
| F new | | F readcardinal3 | |
| F nodeprocessor | | F readcardinal3le | |
| F prependaction | | F readcardinal4 | |
| F prependgroup | | F readcardinal4le | |
| F removeaction | | F readcardinaltable | |
| F replaceaction | | F readchar | |
| F setkind | | F readfixed2 | |
| F tostring | | F readfixed4 | |
| setters | table | F readinteger | |
| F disable | | F readinteger1 | |
| F enable | | F readinteger2 | |
| F initialize | | F readinteger2le | |
| F list | | F readinteger3 | |
| F new | | F readinteger3le | |
| F register | | F readinteger4 | |
| F report | | F readinteger4le | |
| F reset | | F readintegertable | |
| F show | | F readsignedbyte | |
| stacker | table | F readstring | |
| F new | | F setposition | |
| storage | table | F size | |
| F allocate | | F skip | |
| F checked | | F skipbytes | |
| F mark | | F skiplong | |
| F marked | | F skipshort | |
| F setinitializer | | strings | table |
| F sparse | | 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

zipfiles table

- F close
- F found
- F gunzipfile
- F hash
- F list
- F open
- F unzip
- F unzipdir
- F zipdir

visualizers (context)

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

xcomplex (extra lua)

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

__tostring function
__unm function
abs function
acos function
acosh function
arg function
asin function
asinh function
atan function
atanh function
conj function
cos function
cosh function
exp function

i function
imag function
log function
new function
pow function
proj function
real function
sin function
sinh function
sqrt function
tan function
tanh function
topair function
tostring function

xdecimal (context)

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

| | | | |
|-------------------------|----------|---------------------------|----------|
| <code>F sqrt</code> | | <code>copy</code> | function |
| <code>F tonumber</code> | | <code>exp</code> | function |
| <code>F tostring</code> | | <code>getprecision</code> | function |
| <code>F trim</code> | | <code>ln</code> | function |
| <code>__le</code> | function | <code>log</code> | function |
| <code>__lt</code> | function | <code>max</code> | function |
| <code>__mul</code> | function | <code>min</code> | function |
| <code>__name</code> | string | <code>minus</code> | function |
| <code>__pow</code> | function | <code>new</code> | function |
| <code>__shl</code> | function | <code>plus</code> | function |
| <code>__shr</code> | function | <code>pow</code> | function |
| <code>__sub</code> | function | <code>rotate</code> | function |
| <code>__tostring</code> | function | <code>setprecision</code> | function |
| <code>__unm</code> | function | <code>shift</code> | function |
| <code>abs</code> | function | <code>sqrt</code> | function |
| <code>band</code> | function | <code>tonumber</code> | function |
| <code>bor</code> | function | <code>tostring</code> | function |
| <code>bxor</code> | function | <code>trim</code> | function |
| <code>conj</code> | function | | |

xmath (extra lua)

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

xml (context)

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

| | | | |
|-------------------|----------|----------------------------|----------|
| F name | | F upperall | |
| F number | | F xml | |
| F oneof | | T xml | |
| F print | | F all | |
| F quit | | F att | |
| F tag | | F attribute | |
| F text | | F attributes | |
| F undefined | | F cdata | |
| F upper | | F chainattribute | |
| fillin | function | F count | |
| filter | function | F default | |
| finalizers | table | F elements | |
| F paragraphs | | F empty | |
| T tex | | F first | |
| F all | | F function | |
| F attribute | | F index | |
| F chainattribute | | F last | |
| F chainpath | | F lowerall | |
| F command | | F match | |
| F concat | | F name | |
| F concatrange | | F position | |
| F context | | F reverse | |
| F count | | F table | |
| F ctxtext | | F tag | |
| F default | | F tags | |
| F depth | | 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 |

| | | | |
|------------------------------|----------|----------------------------|----------|
| inject | function | process | function |
| inject_element | function | process_attributes | 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 < | |

| | | | |
|---------------------------------|----------|----------------------------------|----------|
| <code>S ></code> | | <code>tocdata</code> | function |
| <code>S \</code> | | <code>toelement</code> | function |
| <code>S {</code> | | <code>tostring</code> | function |
| <code>S </code> | | <code>totable</code> | function |
| <code>S }</code> | | <code>toxml</code> | function |
| <code>S ~</code> | | <code>tprint</code> | function |
| <code>specialhandler</code> | table | <code>traverse</code> | function |
| <code>sprint</code> | function | <code>unescaped</code> | function |
| <code>string</code> | function | <code>unescapedentitylpeg</code> | userdata |
| <code>strip</code> | function | <code>unprivatized</code> | function |
| <code>strip_whitespace</code> | function | <code>unspecialized</code> | function |
| <code>stripelement</code> | function | <code>wipe</code> | function |
| <code>stripleadingspaces</code> | function | <code>withelement</code> | function |
| <code>table</code> | function | <code>withelements</code> | function |
| <code>text</code> | function | <code>wrap</code> | function |
| <code>textonly</code> | function | <code>xmlns</code> | table |
| <code>texttocdata</code> | function | | |

xzip (extra lua)

adler32 function
compress function
crc32 function

decompress function
expandsize function

zip (extra lua)

archives table
closearchive function

openarchive function
registeredfiles table

zlib (extra lua)

adler32 function
compress function
crc32 function

decompress function
expandsize function