

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

ConT_EXt MkIV

global (alias: _G)

| | | | |
|--------------------|----------|-----------------------------|----------|
| FFISUPPORTED | function | environment | table |
| INITEXMODE | boolean | epdf | table |
| LUAEXCOREVERSION | number | error | function |
| LUAEXENGINE | string | experiments | table |
| LUAEXFUNCTIONALITY | number | ffi | table |
| LUAEXVERSION | number | ffilib | function |
| MP | table | figures | table |
| _LUAVERSION | number | file | table |
| _MAJORVERSION | number | fio | table |
| _MINORVERSION | number | floats | table |
| arg | table | font | table |
| assert | function | fonts | table |
| attributes | table | frozen | boolean |
| backends | table | functions | table |
| bit32 | table | getmetatable | function |
| blobs | table | getpos | function |
| blockrequire | function | getvpos | function |
| boolean | table | global | table |
| buffers | table | grammar_parsed_text_one_nop | userdata |
| builders | table | grammar_parsed_text_one_yes | userdata |
| caches | table | grammar_parsed_text_two_nop | userdata |
| callback | table | grammar_parsed_text_two_yes | userdata |
| callbacks | table | grammar_unparsed_text_nop | userdata |
| catcodes | table | grammar_unparsed_text_yes | userdata |
| characters | table | graphics | table |
| chemistry | table | gregorian_to_jalali | function |
| collectgarbage | function | gzip | table |
| commands | table | img | table |
| containers | table | inspect | function |
| context | function | interactions | table |
| converters | table | interfaces | table |
| coroutine | table | io | table |
| ctxrunner | table | ipairs | function |
| debug | table | jalali_to_gregorian | function |
| dimen | function | job | table |
| dir | table | lang | table |
| directives | table | languages | table |
| document | table | last | number |
| documentdata | table | layouts | table |
| dofile | function | lfs | table |
| done | boolean | libraries | table |

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

utilities
v
vf
visualizers

table
number
table
table

xml
xpcall
zip
zlib

table
function
table
table

attributes (context)

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 definesimplegray
- F definespotcolor
- F definetransparency
- F enable
- F filter
- F forcedmodel
- F forcesupport
- F formatcolor
- F formatgray
- F getpagecolormodel
- F gray
- F graytohsv
- F handler
- F hsvtorgb
- F hsvtorgb
- F iccprofile
- F isblack
- N main
- S model

- D models
- F mpcolor
- F mpnamedcolor
- F mpoptions
- F namedcolorattributes
- N none
- F popset
- F processcolorcomponents
- F pushset
- F register
- D registered
- F registerspotcolor
- F rgb
- F rgbtocmyk
- F rgbtorgb
- F rgbtohsv
- N selector
- F setlist
- F setmodel
- F setpagecolormodel
- D sets
- F spec
- F spot
- F spotcolorname
- F spotcolorparent
- F spotcolorvalue
- B supported
- F toattributes
- F transparencycomponents
- B triggering
- F usecolors
- D valid
- F value
- D values
- B weightgray

define

effects

function

table

- N attribute
- D data
- F enable
- F handler

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

backends (context)

codeinjections table

F boxresourcedimensions
F registerboxresource
F restoreboxresource

current string

defaults table

T codeinjections
F gethpos
F getmatrix
F getpos
F getvpos
F hasmatrix
T nodeinjections
T registrations
D tables

included table

B context
B date
B id
B metadata
B pdf

install function

nodeinjections table

F restore
F save
F transform

nothing function

pdf table

T codeinjections
F addbookmarks
F attachmentid
F clonefield
F definefield
F definefieldset
F defineviewerlayer
F embedfile
F enabletags
F exportformdata
F getbookmarks
F getdefaultfieldvalue
F getfieldcategory

F getfieldset
F getformatoption
F gethpos
F getmatrix
F getoutputfilename
F getpos
F getpreviewfigure
F getvpos
F hasmatrix
F insertrenderingwindow
F mergebookmarks
F mergereferences
F mergeviewerlayers
F prerollreference
F presetsymbol
F presetsymbollist
F processrendering
F registerdocumentcloseaction
F registerdocumentopenaction
F registeredsymbol
F registerpagecloseaction
F registerpageopenaction
F registersymbol
F setfieldcalculationset
F setfigurealternative
F setfigurecolorspace
F setfiguremask
F setformat
F setformsmethod
F setpagetransition
F setupcanvas
F setupidentity
F setxmpfile
F startlayer
F startunicodetoactualtext
F startunicodetoactualtextdirect
F stoplayer
F stopunicodetoactualtext
F stopunicodetoactualtextdirect
F supportedformats
F unicodetoactualtext

- F useviewerlayer
- F validfield
- F validfieldcategory
- F validfieldset
- S comment
- T nodeinjections
 - F addtags
 - F annotation
 - F attachfile
 - F changestackedlayer
 - F cmykcolor
 - F comment
 - F destination
 - F effect
 - F graycolor
 - F injectbitmap
 - F insertmovie
 - F insertsound
 - F insertswf
 - F insertu3d
 - F knockout
 - F negative
 - F overprint
 - F positive

- F reference
- F rgbcolor
- F spotcolor
- F startlayer
- F startstackedlayer
- F stoplayer
- F stopstackedlayer
- F transparency
- F typesetfield
- T registrations
 - F cmykindexcolor
 - F cmykspotcolor
 - F getspotcolorreference
 - F grayindexcolor
 - F grayspotcolor
 - F rgbindexcolor
 - F rgbspotcolor
 - F spotcolorname
 - F transparency

T tables

D vfspecialchars

| | |
|----------------------|----------|
| registrations | table |
| tables | table |
| timestamp | function |

bit32 (basic lua)

arshift function

band function

bnot function

bor function

btest function

bxor function

extract function

lrotate function

lshift function

replace function

rrotate function

rshift function

blobs (context)

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

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

boolean (context)

tocontext function

tonumber function

buffers (context)

| | | | |
|-----------------------|----------|-------------------------|----------|
| append | function | F hassomecontent | |
| assign | function | F next | |
| collectcontent | function | F place | |
| erase | function | F reset | |
| exists | function | F save | |
| getcontent | function | prepend | function |
| getlines | function | raw | function |
| loadcontent | function | run | function |
| parallel | table | undent | function |
| F define | | | |

builders (context)

kernel table

- F hyphenation
- F kerning
- F ligaturing
- F mlist_to_hlist
- T originals
 - F hyphenate
 - F kerning
 - F ligaturing

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 pagehandler
- F resetprevdepth
- F setmap
- F setskip
- F snapbox
- F tocategories
- F tocategory
- F vboxhandler

cache (context)

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

callback (basic tex)

find function
list function

register overloaded function

callbacks (context)

| | | |
|---------------------------|------------|-------------------------|
| freeze | function | B insert_local_par |
| known | function | B kerning |
| list | data table | B ligaturing |
| pop | function | B linebreak_filter |
| push | function | B mlist_to_hlist |
| register | function | B open_read_file |
| report | function | B post_linebreak_filter |
| supported | table | B pre_dump |
| B append_to_vlist_filter | | B pre_linebreak_filter |
| B build_page_insert | | B pre_output_filter |
| B buildpage_filter | | B process_input_buffer |
| B call_edit | | B process_jobname |
| B contribute_filter | | B process_output_buffer |
| B define_font | | B process_rule |
| B find_cidmap_file | | B read_cidmap_file |
| B find_data_file | | B read_data_file |
| B find_enc_file | | B read_enc_file |
| B find_font_file | | B read_font_file |
| B find_format_file | | B read_map_file |
| B find_image_file | | B read_opentype_file |
| B find_map_file | | B read_pk_file |
| B find_opentype_file | | B read_sfd_file |
| B find_output_file | | B read_truetype_file |
| B find_pk_file | | B read_type1_file |
| B find_read_file | | B read_vf_file |
| B find_sfd_file | | B show_error_hook |
| B find_truetype_file | | B show_error_message |
| B find_type1_file | | B show_lua_error_hook |
| B find_vf_file | | B show_warning_message |
| B find_write_file | | B start_file |
| B finish_pdffile | | B start_page_number |
| B finish_pdfpage | | B start_run |
| B finish_synctex_callback | | B stop_file |
| B glyph_not_found | | B stop_page_number |
| B glyph_stream_provider | | B stop_run |
| B hpack_filter | | B vpack_filter |
| B hpack_quality | | B vpack_quality |
| B hyphenate | | |

catcodes (context)

names data table

numbers data table

register function

characters (context)

| | | | |
|-----------------------|------------|------------------------------|------------|
| activeoffset | number | is_spacing | data table |
| adobename | function | lcchars | data table |
| bidirectional | data table | lccode | function |
| blockrange | function | lccodes | data table |
| blocks | data table | lettered | function |
| casemap | table | lhash | data table |
| categories | data table | linebreaks | data table |
| category | function | lower | function |
| categorytags | data table | mathlists | data table |
| classifiers | table | mirrors | table |
| collapsed | data table | otfscripts | data table |
| contextname | function | private | table |
| csletters | data table | ranges | data table |
| data | data table | registerentities | function |
| decomposed | data table | remap_hangul_syllable | function |
| description | function | setactivecatcodes | function |
| descriptions | data table | setlettercatcodes | function |
| detailtags | data table | shape | function |
| directions | table | shaped | function |
| emoji | table | shash | data table |
| F compact | | shchars | data table |
| F known | | shcodes | data table |
| F resolve | | showstring | function |
| emojized | function | specialchars | data table |
| encodes | data table | specials | data table |
| entities | data table | splits | table |
| fallbacks | data table | T char | |
| filters | data table | T compat | |
| fractions | table | subscripts | table |
| fromnumber | function | superscripts | table |
| fschars | data table | synonyms | data table |
| fscodes | data table | tex | table |
| getrange | function | D accentmapping | |
| graphemes | data table | D commandmapping | |
| hangul | data table | F defineaccents | |
| initialize | function | F safechar | |
| is_character | data table | F toutf | |
| is_command | data table | F toutfpattern | |
| is_letter | data table | textclasses | table |
| is_mark | data table | tonumber | function |
| is_punctuation | data table | ucchars | data table |

uccode
uccodes
uhash

function
data table
data table

unicodechar
upper

function
function

chemistry (context)

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

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

containers (context)

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

verbose

D data

F translate

weekday

table

function

word

words

year

function

function

function

coroutine (basic lua)

create function
resume function
running function

status function
wrap function
yield function

ctxrunner (context)

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

debug (basic lua)

| | |
|---------------------|----------|
| debug | function |
| gethook | function |
| getinfo | function |
| getlocal | function |
| getmetatable | function |
| getregistry | function |
| getupvalue | function |
| getuservalue | function |

| | |
|---------------------|----------|
| sethook | function |
| setlocal | function |
| setmetatable | function |
| setupvalue | function |
| setuservalue | function |
| traceback | function |
| upvalueid | function |
| upvaluejoin | function |

dir (context)

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

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

directives (context)

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

| | |
|-----------------|----------|
| name | string |
| register | function |
| report | function |
| reset | function |
| show | function |
| value | function |

document (context)

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

environment (context)

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

epdf (extra tex)

Array function
Attribute function
AttributeOwner_Type function
Attribute_Type function
Dict function
Object function

Object_Type function
PDFRectangle function
StructElement_Type function
open overloaded function
openMemStream function
type function

experiments (context)

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

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

figures (context)

| | | | |
|-------------------------|------------|-------------------------|------------|
| applyratio | function | F ofindex | |
| badname | function | F package | |
| bases | data table | F print | |
| bitmapimage | function | F scan | |
| boxnumber | number | F serialize | |
| cachepaths | data table | F totable | |
| check | function | F types | |
| checkers | data table | F write | |
| converters | data table | include | function |
| current | function | includes | data table |
| defaultdepth | number | initialize | function |
| defaultheight | number | loaded | data table |
| defaultsearch | boolean | localpaths | data table |
| defaultwidth | number | magics | data table |
| done | function | mergegoodies | function |
| dummy | function | nofmissing | number |
| exists | data table | nofprocessed | number |
| exists | function | order | data table |
| formats | data table | paths | data table |
| found | data table | patterns | data table |
| get | function | pop | function |
| getinfo | function | preferquality | boolean |
| getrealpage | function | programs | data table |
| guess | function | push | function |
| hash | function | registerpattern | function |
| identifiers | data table | registerresource | function |
| identify | function | registersuffix | function |
| images | table | resources | data table |
| F boxes | | scale | function |
| F check | | set | function |
| F checksize | | setlookups | function |
| F clone | | setmemstream | function |
| F copy | | setorder | function |
| F immediatewrite | | setpaths | function |
| F keys | | suffixes | data table |
| F new | | used | data table |
| F node | | | |

file (basic lua)

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

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

fio (extra lua)

| | | | |
|------------------------|----------|-----------------------|----------|
| checkpermission | function | readfixed4 | function |
| getposition | function | readinteger1 | function |
| read2dot14 | function | readinteger2 | function |
| readbytes | function | readinteger3 | function |
| readbytetable | function | readinteger4 | function |
| readcardinal1 | function | readline | function |
| readcardinal2 | function | recordfilename | function |
| readcardinal3 | function | setposition | function |
| readcardinal4 | function | skipposition | function |
| readfixed2 | function | | |

floats (context)

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

font (basic tex)

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

fonts (context)

| | | |
|---------------------------|-------|-------------------------|
| analyzers | table | |
| D features | | F currentfonthasfeature |
| D initializers | | D designsizes |
| D methods | | D dontembed |
| F setstate | | F enhanceparameters |
| D states | | T enhancers |
| B useunicodemarks | | T afm |
| | | F apply |
| checkers | table | F patch |
| F getmissing | | T patches |
| F missing | | F register |
| F placeholder | | F report |
| cid | table | F register |
| F getmap | | F report |
| F loadfile | | T otf |
| collections | table | F addfeature |
| F checkenabled | | F apply |
| F clonevector | | F enhance |
| F define | | F patch |
| T definitions | | T patches |
| F found | | F register |
| F prepare | | F report |
| F process | | F register |
| F registermain | | F report |
| F report | | T tfm |
| F reset | | F apply |
| T vectors | | F patch |
| constructors | table | T patches |
| F addcharacters | | F register |
| F addcoreunicodes | | F report |
| F aftercopyingcharacters | | F register |
| F applymanipulators | | F report |
| F assignmathparameters | | N factor |
| B autocleanup | | T features |
| F beforecopyingcharacters | | D afm |
| D cache | | D otf |
| B cacheintex | | D tfm |
| F calculatescale | | F finalize |
| F checkedfeatures | | F getfeatureaction |
| F checkedfilename | | F getprivate |
| F cleanupable | | T handlers |
| F collectprocessors | | T afm |

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

| | |
|-------------------------------|------------------------|
| F cff2 | F getfactors |
| F cffcheck | 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 reversechainedcontextsingle | F readbytetable |
| F single | F readcardinal |
| F gvar | F readcardinal1 |
| F head | F readcardinal2 |
| T helpers | F readcardinal2le |
| F axistofactors | F readcardinal3 |
| F cleanname | F readcardinal3le |
| F getaxisscale | F readcardinal4 |

| | |
|---------------------|----------------------|
| F readcardinal4le | T statistics |
| F readchar | D usedfeatures |
| F readfixed2 | F storepdfdata |
| F readfixed4 | T svg |
| F readinteger | F filterglyph |
| F readinteger1 | F topdf |
| F readinteger2 | D svgcache |
| F readinteger2le | B svgenabled |
| F readinteger3 | T tables |
| F readinteger3le | D baselines |
| F readinteger4 | D features |
| F readinteger4le | D featuretypes |
| F readsignedbyte | D languages |
| F readstring | D scripts |
| F readtag | N version |
| F setposition | T pfb |
| F size | F loadvector |
| F skip | T tfm |
| F skiplong | F addtounicode |
| F skipposition | D features |
| F skipshort | N maxnestingdepth |
| F writebyte | N maxnestingsize |
| F writecardinal2 | F reencode |
| F writecardinal4 | F setfeatures |
| F writestring | N version |
| F svg | T vf |
| N tableversion | T combinations |
| F unifymissing | F combine |
| F unpack | T combiner |
| F vhea | D commands |
| F vmtx | D helpers |
| F vorg | D math |
| F vvar | D predefined |
| F woff2otf | N version |
| F registerpalette | D whatever |
| F registerplugin | F hashfeatures |
| F reorderlookups | F hashinstance |
| T sbix | T hashmethods |
| F topdf | F normal |
| D sbixcache | F virtual |
| B sbixenabled | F initializefeatures |
| F scriptandlanguage | T keys |
| F setdynamics | T characters |
| F setfeatures | T descriptions |

| | | |
|--------------------------|-----------------------|----------|
| T parameters | S name | |
| S ascender | S noglyphnames | |
| S descender | S nostackmath | |
| S designsize | S psname | |
| T expansion | S textitalics | |
| S auto | S virtualized | |
| S shrink | D loadedfonts | |
| S step | S namemode | |
| S stretch | N noffontsloaded | |
| S extendfactor | N nofsharedfonts | |
| S factor | N nofsharedhashes | |
| S hfactor | N nofsharedvectors | |
| S mathsize | N privateoffset | |
| T protrusion | D privateslots | |
| S auto | F readanddefine | |
| S quad | F registerfeature | |
| S scaledpoints | F resetfeature | |
| S scriptpercentage | B resolvevirtualtoo | |
| S scriptscriptpercentage | F scale | |
| S size | F scaled | |
| S slantfactor | F setfactor | |
| S slantperpoint | F setfeature | |
| T spacing | F setname | |
| S extra | B sharefonts | |
| S shrink | F trytosharefont | |
| S stretch | N version | |
| S width | current | function |
| S units | currentid | function |
| S vfactor | definers | table |
| S xheight | F addlookup | |
| T properties | F analyze | |
| S autoitalicamount | F applypostprocessors | |
| S cidinfo | F checkedmode | |
| S embedding | F checkedscript | |
| S encodingbytes | F current | |
| S filename | S defaultlookup | |
| S finalized | F define | |
| S fontname | F getspecification | |
| S format | F internal | |
| S fullname | F loadfont | |
| S hasitalics | F makespecification | |
| S hasmath | T methods | |
| S mathitalics | F install | |
| S mode | D variants | |

| | | | |
|-------------------------|------------|-------------------------|-------|
| F read | | D colorschemes | |
| F register | | T data | |
| F registered | | T dejavu-math | |
| F registersplit | | S author | |
| F resetnullfont | | S comment | |
| F resolve | | S copyright | |
| T resolvers | | B initialized | |
| F file | | T mathematics | |
| F name | | T alternates | |
| F spec | | T dotless | |
| definetypface | function | S comment | |
| encodings | table | S feature | |
| T agl | | N value | |
| D ctxcodes | | T kerns | |
| D extras | | S name | |
| D names | | S version | |
| D synonyms | | D designsizes | |
| D unicodes | | D filenames | |
| D cache | | F getcompositions | |
| F is_known | | T list | |
| D known | | F load | |
| F load | | F prepare_features | |
| F make_unicode_vector | | F register | |
| D math | | F registerpostprocessor | |
| N version | | F report | |
| enhanceid | function | T suffixes | |
| expansions | data table | handlers | table |
| formats | data table | hashes | table |
| getalternate | function | D characters | |
| getdiscexpansion | function | D classes | |
| getkern | function | D csnames | |
| getmultiple | function | D descriptions | |
| getsubstitution | function | D dynamics | |
| getters | table | D emwidths | |
| T alternate | | D exheights | |
| F opentype | | D extensibles | |
| T kern | | D features | |
| F opentype | | D identifiers | |
| F type1 | | D italics | |
| T multiple | | D lastmathids | |
| F opentype | | D marks | |
| T substitution | | D modes | |
| F opentype | | D originals | |
| goodies | table | D parameters | |

| | | | |
|------------------------|----------|---------------------------|------------|
| T processes | | D category_to_placeholder | |
| D properties | | F format | |
| D quads | | F onetimemessage | |
| D resources | | F register | |
| T setdynamics | | F reportdefinedfonts | |
| T shapes | | F reportusedfeatures | |
| D spaces | | | |
| D spacings | | mappings | table |
| T streams | | F addtounicode | |
| D unicones | | F fromunicode16 | |
| D variants | | F loadfile | |
| D xheights | | F loadline | |
| helpers | table | F makenameparser | |
| F addextraprivate | | D overloads | |
| F addprivate | | F reset | |
| F checkflags | | F tounicode | |
| F checkmerge | | F tounicode16 | |
| F checksteps | | F tounicode16sequence | |
| F descriptiontoslot | | metapost | table |
| F dimenfactor | | F boundingbox | |
| F expandglyph | | F boxtomp | |
| F fontpatternhassize | | F draw | |
| F getcoloredglyphs | | F fill | |
| F getdigitwidth | | F maxbounds | |
| F getinstancespec | | F output | |
| F getparameters | | F paths | |
| F getprivatecharornode | | F widthline | |
| F getprivatenode | | F zeroline | |
| F getprivates | | mp | table |
| F getprivateslot | | D cache | |
| F hasprivate | | B inline | |
| F indextoslot | | N version | |
| F name | | names | data table |
| F nametoslot | | nulldata | data table |
| F setdigitwidth | | protrusions | data table |
| F splitfontpattern | | readers | table |
| F tochar | | F afm | |
| infofont | function | F check_lua | |
| iterators | table | F check_tfm | |
| F characters | | F lua | |
| F descriptions | | F ofm | |
| F glyphs | | F opentype | |
| loggers | table | F otf | |
| F add_placeholders | | F pfb | |
| | | D sequence | |

| | | | |
|---------------------------|----------|-------------------------|----------|
| F tfm | | setdiscexpansion | function |
| F ttc | | specifiers | table |
| F ttf | | D contextmerged | |
| F woff | | F contextnumber | |
| reserveid | function | D contextnumbers | |
| select | table | D contextsetups | |
| D alternatives | | F contexttostring | |
| F bodyfont | | F definecontext | |
| D data | | F mergecontext | |
| F default | | F presetcontext | |
| D defaults | | F registercontext | |
| F definefallbackfamily | | F showcontext | |
| F definefontfamily | | F splitcontext | |
| F definefontfamilypreset | | D synonyms | |
| D extras | | D variants | |
| F fallback | | symbols | table |
| D fallbacks | | T emoji | |
| F features | | F checked | |
| F filefallback | | F resolved | |
| F fontdata | | F uselibrary | |
| F fontfallback | | tables | table |
| F fontsynonym | | D data | |
| F goodies | | F savefont | |
| F mathfallback | | F saveoriginal | |
| D methods | | tracers | table |
| D presets | | treatments | table |
| F registerfallback | | F applyfixes | |
| F registerfiles | | D data | |
| F registerfontalternative | | S filename | |
| F registerfontfamily | | F ignoredfile | |
| F textfallback | | F report | |
| F typeface | | F trace | |
| F typescript | | typefaces | table |
| F userdata | | | |

functions (context)

dummy function

graphics (context)

backgrounds table

F fetchmultipar

F pair

F path

F point

gzip (extra lua)

close function
lines function
load function

open function
save function
suffix function

img (basic tex)

| | | | |
|-----------------------|----------|------------------|----------|
| boxes | function | ofindex | function |
| check | function | package | function |
| checksize | function | print | function |
| clone | function | scan | function |
| copy | function | serialize | function |
| immediatewrite | function | totable | function |
| keys | function | types | function |
| new | function | write | function |
| node | 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

linkedList 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 |
| cachedsetups | data table |
| cachesetup | function |
| checkedspecification | function |
| complete | data table |
| constants | data table |
| corenamespaces | data table |
| currentinterface | string |
| currentresponse | string |
| definecommand | function |
| defined | function |
| doifelsemessage | function |
| elements | data table |
| formats | data table |
| getcheckedparameters | function |
| getmessage | function |
| getnamespace | function |
| getsetupstring | function |
| hashedsetups | data table |
| implement | function |
| interfacedcommand | function |
| interfaces | table |
| invalidkey | function |
| message | function |
| namespaces | table |

F define

| | |
|--------------------------|------------|
| F list | |
| registernamespace | function |
| scanners | data table |
| setconstant | function |
| setcount | function |
| setdimen | function |
| setelement | function |
| setformat | function |
| setmacro | function |
| setmessage | function |
| setmessages | function |
| settranslation | function |
| setupstrings | data table |
| setuserinterface | function |
| setvalidkeys | function |
| setvariable | function |
| showmessage | function |
| storedscanners | data table |
| strings | table |
| syntax | data table |
| tolist | function |
| translations | data table |
| usednamespaces | data table |
| variables | data table |
| writestatus | function |

io (basic lua)

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

job (context)

| | | | |
|--------------------------|----------|------------------|-------|
| comment | function | F check | |
| datasets | table | D collected | |
| D collected | | F count | |
| F extend | | F define | |
| F getdata | | F find | |
| F setdata | | F first | |
| D tobesaved | | F get | |
| disablesave | function | F getcollected | |
| embedded | table | F getdata | |
| D collected | | F getfield | |
| D tobesaved | | F gettobesaved | |
| fileobjreferences | table | F inlist | |
| D collected | | F last | |
| D tobesaved | | F list | |
| files | table | F save | |
| D collected | | F savetagged | |
| F context | | D tobesaved | |
| B forcerun | | positions | table |
| F run | | F b_column | |
| D tobesaved | | F b_region | |
| getrandomseed | function | F c | |
| initialize | function | D collected | |
| load | function | F column | |
| loadother | function | F copy | |
| objects | table | F depth | |
| D collected | | F e_column | |
| F get | | F e_region | |
| F number | | F enhance | |
| F page | | F extra | |
| F save | | T free | |
| F set | | F get | |
| D tobesaved | | F getreserved | |
| pack | boolean | F gettobesaved | |
| packversion | number | F hangafter | |
| pagestates | table | F hangindent | |
| D collected | | F height | |
| F extend | | F hsize | |
| F realpage | | F leftskip | |
| F setstate | | F lowerleft | |
| D tobesaved | | F lowerright | |
| passes | table | F markregionbox | |

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

lang (basic tex)

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

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

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

T enablers

F load

B enables

T methods

F found

N threshold

layouts (context)

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

lfs (extra lua)

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

libraries (context)

basiclua data table

basictex data table

builtin data table

extralua data table

extratex data table

functions data table

globals data table

lmx (context)

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

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

logs (context)

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

lpdf (context)

| | | | |
|---------------------------------|------------|----------------------------------|------------|
| action | function | finalizedocument | function |
| adddocumentcolorspace | function | finalizepage | function |
| adddocumenttextgstate | function | finishtransparencycode | function |
| adddocumentpattern | function | flushobject | function |
| adddocumentshade | function | flushstreamfileobject | function |
| addtocatalog | function | flushstreamobject | function |
| addtoinfo | function | formats | data table |
| addtonames | function | frompdfdoc | function |
| addtopageattributes | function | fromsixteen | function |
| addtopageresources | function | gethpos | function |
| addtopagesattributes | function | getmatrix | function |
| addtxmpinfo | function | getpos | function |
| annotationspecification | function | getvpos | function |
| array | function | graycode | function |
| boolean | function | hasmatrix | function |
| border | function | id | function |
| checkedkey | function | injecttxmpinfo | function |
| checkedvalue | function | inserttxmpinfo | function |
| circularshade | function | layerreference | function |
| cmykcode | function | limited | function |
| collectedresources | function | linearshade | function |
| color | function | nametree | function |
| colorspace | function | null | function |
| colorspaceconstants | data table | number | function |
| colorspec | function | pagereference | function |
| colorvalue | function | patternstream | function |
| colorvalues | function | pdfcolor | function |
| constant | function | pdftimestamp | function |
| delayedobject | function | permitdetail | function |
| destinationspecification | function | protectresources | boolean |
| dictionary | function | rectangle | function |
| docstring | function | reference | function |
| epdf | table | registerannotation | function |
| F contenttotext | | registerdestination | function |
| F expand | | registerdocumentfinalizer | function |
| F expanded | | registerpagefinalizer | function |
| F getpagecontent | | registerpattern | function |
| F getstructure | | reserveobject | function |
| F load | | rgbcode | function |
| F unload | | rotationcm | function |
| escaped | function | setdates | function |

| | | | |
|-----------------------------|----------|---------------------------|----------|
| settime | function | tosixteen | function |
| settrailerid | function | transform | function |
| shareobject | function | transparency | function |
| shareobjectreference | function | transparencycode | function |
| spotcode | function | transparencygroups | table |
| stream | function | B none | |
| string | function | transparencyvalue | function |
| timestamp | function | unicode | function |
| toeight | function | verbose | function |
| topdfdoc | 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 |
| counter | function | utfchartabletopattern | function |
| endstripper | function | version | function |
| finder | function | | |

ltn12 (extra lua)

BLOCKSIZE number

filter table

F chain

F cycle

pump table

F all

F step

sink table

F chain

F error

F file

F null

F simplify

F table

source table

F cat

F chain

F empty

F error

F file

F rewind

F simplify

F string

lua (basic tex)

| | | | |
|----------------------------|------------|--------------------------|------------|
| bytecode | table | mask | string |
| bytedata | data table | messages | data table |
| bytedone | table | name | table |
| B page-cst | | newtable | function |
| collectgarbage | function | numbers | data table |
| delay | function | registercode | function |
| finalize | function | registeredcodes | function |
| firstbytecode | number | registerfinalizer | function |
| flush | function | registername | function |
| flushdelayed | function | setbytecode | function |
| get_functions_table | function | setluaname | function |
| getbytecode | function | startupfile | string |
| getluaname | function | version | string |
| lastbytecode | number | | |

luatex (context)

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

lxml (context)

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

| | |
|-------------------------|----------|
| resetsetup | function |
| resolvedentity | function |
| root | function |
| save | function |
| serialize | function |
| setaction | function |
| setcdata | function |
| setcommandtonone | function |
| setcommandtotext | function |
| setsetup | function |
| snippet | function |
| sorters | table |

- F add
- F compare
- F flush
- F reset
- F show
- F sort

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

math (basic lua)

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

mathematics (context)

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

md5 (extra lua)

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

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

metapost (context)

| | | | |
|-------------------------|------------|-------------------------------|----------|
| analyzeplugins | function | getstatistics | function |
| checkformat | function | gettext | function |
| checktexts | function | graphic | function |
| collapse | boolean | graphic_base_pass | function |
| colorinitializer | function | initializescriptrunner | function |
| comment | function | instance | function |
| convert | function | intermediate | table |
| defaultformat | string | T actions | |
| defaultinstance | string | F makempy | |
| defaultmethod | string | lastlog | string |
| directrun | function | load | function |
| escaped | function | makempy | table |
| exectime | table | N nofconverted | |
| extensiondata | data table | F processgraphics | |
| filterclippath | function | F registerfile | |
| flush | function | maketext | function |
| flushers | table | metafun | table |
| T pdf | | F interpolate | |
| F comment | | F topath | |
| F flushfigure | | method | number |
| F startfigure | | mptopdf | table |
| F stopfigure | | F convertmpstopdf | |
| F textfigure | | N nofconverted | |
| flushliteral | function | n | number |
| flushnormalpath | function | nvformat | function |
| flushreset | function | optimize | boolean |
| fonts | table | parse | function |
| F define | | pdfliterals | function |
| T flusher | | pluginactions | function |
| F flushfigure | | popvariable | function |
| F startfigure | | popvariables | function |
| F stopfigure | | process | function |
| N instances | | processplugins | function |
| F process | | processspecial | function |
| format | function | properties | table |
| format_number | function | pushvariable | function |
| format_string | function | pushvariables | function |
| formatnumber | function | quickanddirty | function |
| getclippath | function | reducetogray | boolean |
| getextensions | function | reporterror | function |
| getjobdata | function | reset | function |

| | | | |
|----------------------|----------|----------------------|----------|
| resetlastlog | function | F get | |
| resetplugins | function | F reset | |
| runscript | function | F set | |
| scripterror | function | F setfrombuffer | |
| setextensions | function | texerrors | boolean |
| setoutercolor | function | texexp | function |
| settext | function | texttextsdata | function |
| setvariable | function | theclippath | function |
| showlog | boolean | totable | function |
| simple | function | unload | function |
| svformat | function | untagvariable | function |
| tex | table | 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

stuff function

unb64 function

unqp function

wrap function

wrapt table

F base64

F default

F quoted-printable

F text

wrp function

mp (context)

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

F load

| | | | |
|--------------------------|----------|-----------------------|----------|
| defaultcolormodel | function | positionbox | function |
| dimension | function | positioncurve | function |
| disposehash | function | positionpage | function |
| format | function | positionpath | function |
| formatted | function | positionpxy | function |
| fprint | function | positionregion | function |
| get | table | positionwhd | function |
| F boolean | | positionxxy | function |
| F number | | prefix | function |
| F numeric | | print | function |
| F string | | quadruple | function |
| get_outline_text | function | quoted | function |
| getcount | function | report | function |
| getdimen | function | setcount | function |
| gettoks | function | setdimen | function |
| graphformat | function | settoks | function |
| inhash | function | size | function |
| integer | function | systemmode | function |
| isarray | function | tb_dimensions | function |
| mode | function | texstr | function |
| n | function | texvar | function |
| newhash | function | tohash | function |
| numeric | function | triplet | function |
| pair | function | tt_dimensions | function |
| path | function | tt_initialize | function |
| positionanchor | function | | |

mplib (extra tex)

| | | | |
|--------------------|----------|---------------------|---------------------|
| fields | function | get_numeric | function |
| finder | function | get_string | function |
| finders | table | new | overloaded function |
| F file | | pen_info | function |
| get_boolean | function | preprocessed | function |
| get_number | function | version | function |

noads (context)

| | | | |
|-----------------|-------|----------------------|------------------|
| handlers | table | | F render |
| F align | | | F resize |
| F alternates | | | F showtree |
| F autofences | | | F tags |
| F classes | | | F unscript |
| 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 | | processouter | function |
| F relocate | | | |

node (basic tex)

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

| | | |
|-----------------------|--------------------------------|----------|
| F setbox | end_of_math | function |
| F setchar | family_font | function |
| F setcomponents | fields | function |
| F setdepth | find_attribute | function |
| F setdir | first_glyph | function |
| F setdisc | fix_node_lists | function |
| F setfield | flatten_discretionaries | function |
| F setfont | flush_list | function |
| F setglue | flush_node | function |
| F setheight | flush_properties_table | function |
| F setkern | free | function |
| F setlang | get_attribute | function |
| F setleader | get_properties_table | function |
| F setlink | getboth | function |
| F setlist | getchar | function |
| F setnext | getdisc | function |
| F setnucleus | getfield | function |
| F setoffsets | getfont | function |
| F setpenalty | getglue | function |
| F setprev | getid | function |
| F setproperty | getleader | function |
| F setshift | getlist | function |
| F setsplit | getnext | function |
| F setsub | getprev | function |
| F setsubtype | getproperty | function |
| F setup | getsubtype | function |
| F setwhd | getwhd | function |
| F setwidth | has_attribute | function |
| F slide | has_field | function |
| F tail | has_glyph | function |
| F todirect | hpack | function |
| F tonode | id | function |
| F tostring | insert_after | function |
| F traverse | insert_before | function |
| F traverse_char | is_char | function |
| F traverse_id | is_glyph | function |
| F unprotect_glyph | is_node | function |
| F unprotect_glyphs | is_zero_glue | function |
| F unset_attribute | kerning | function |
| F usedlist | last_node | function |
| F uses_font | length | function |
| F vpack | ligaturing | function |
| F write | mlist_to_hlist | function |
| effective_glue | new | function |

| | | | |
|-----------------------------|----------|-------------------------|----------|
| next | function | tail | function |
| prev | function | tostring | function |
| protect_glyph | function | traverse | function |
| protect_glyphs | function | traverse_char | function |
| protrusion_skippable | function | traverse_id | function |
| rangedimensions | function | type | function |
| remove | function | types | function |
| set_attribute | function | unprotect_glyph | function |
| set_properties_mode | function | unprotect_glyphs | function |
| setfield | function | unset_attribute | function |
| setglue | function | usedlist | function |
| setproperty | function | uses_font | function |
| setwhd | function | vpack | function |
| slide | function | whatsits | function |
| subtype | function | write | function |
| subtypes | function | | |

nodes (context)

| | | | |
|------------------------------|------------|-------------------------------|------------|
| accentcodes | data table | fencecodes | data table |
| aligned | function | fields | function |
| append | function | fillcodes | data table |
| apply | function | find_attribute | function |
| applyvisuals | function | first_glyph | function |
| astable | function | firstcharacter | function |
| basepoints | function | firstcharinbox | function |
| boundarycodes | data table | firstdirinbox | function |
| boxes | table | firstglyph | function |
| F dimensions | | flush | function |
| F direct | | flush_list | function |
| F found | | flush_node | function |
| F reset | | free | function |
| F restore | | fullhpack | function |
| F save | | getattr | function |
| builders | table | getattribute | function |
| F buildpage_filter | | getbox | function |
| F vpack_filter | | getchar | function |
| check_discretionaries | function | getdisc | function |
| codes | data table | getfield | function |
| concat | function | getfont | function |
| copy | function | getglue | function |
| copy_list | function | getid | function |
| copy_node | function | getleader | function |
| count | function | getlist | function |
| countall | function | getnext | function |
| current_attr | function | getprev | function |
| delete | function | getsubtype | function |
| destinations | table | getwhd | function |
| N attribute | | gluecodes | data table |
| T done | | glyphcodes | data table |
| F handler | | glyphdir_is_equal | data table |
| T stack | | glyphdir_is_opposite | data table |
| dimensionfields | data table | glyphdir_is_orthogonal | data table |
| dimensions | function | handlers | table |
| dir_is_pop | data table | F accessibility | |
| dir_negation | data table | F alignbackgrounds | |
| disccodes | data table | F backgrounds | |
| discretionarycodes | data table | F characters | |
| effective_glue | function | F checkforleaks | |
| end_of_math | function | F checkglyphs | |

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

mlist_to_hlist

new

noadcodes

noadoptoptions

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_glyphs

F copy_properties

F copyvisual

F count

F count_components

F countall

F current_attr

F delete

F dimensions

F effective_glue

F end_of_math

F find_attribute

F first_glyph

F firstcharacter

F firstcharinbox

F firstglyph

F flush

F flush_list

F flush_node

function

function

data table

table

data table

function

table

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 getdepth

F getdir

F getdisc

F getdiscretionary

F getfield

F getfont

F getglue

F getheight

F getid

F getkern

F getlang

F getlanguage

F getleader

F getlist

F getnext

F getnucleus

F getoffsets

F getpenalty

F getprev

F getprop

F getshift

F getsub

F getsubtype

F getsup

F getsurround

F getwhd

F getwidth

F has_attribute

F has_field

F has_glyph

F hpack

| | |
|---------------------|--------------------|
| F insert_after | F leader |
| F insert_before | F leftmarginkern |
| F insert_list_after | F leftskip |
| F is_char | F lineskip |
| F is_direct | F mathchar |
| F is_display_math | F mathtextchar |
| F is_glyph | F negatedglue |
| F is_node | F noad |
| F is_nut | F pdfannotation |
| F is_zero_glue | F pdfdestination |
| F ischar | F pdfdirectliteral |
| F isglyph | F pdfliteral |
| F kerning | F pdforiginliteral |
| F last_node | F pdfpageliteral |
| F leftmarginwidth | F pdfrawliteral |
| F length | F pdfrestore |
| F ligaturing | F pdfsave |
| F link | F pdfsetmatrix |
| F linked | F penalty |
| F locate | F radical |
| F mlist_to_hlist | F register |
| F nestedtracedslide | F rightmarginkern |
| F new | F rightskip |
| T pool | F rule |
| F accent | F shrink |
| F baselineskip | F special |
| F boundary | F stretch |
| F choice | F subbox |
| F cleanup | F sublist |
| F delim | F temp |
| F delimiter | F textdir |
| F disc | F usage |
| F emptyrule | F userattributes |
| F fence | T usersids |
| F fontkern | N margins.inline |
| F fraction | N property |
| F glue | N splitters.one |
| F gluespec | N splitters.two |
| F glyph | F userlist |
| F hlist | F userlua |
| F italicckern | F usernumber |
| F kern | F userrule |
| F latelua | F userstring |
| F lateluafunction | F usertokens |

| | |
|------------------------|----------------------|
| F vlist | F setnucleus |
| F wordboundary | F setoffsets |
| F prepend | F setpenalty |
| F protect_glyph | F setprev |
| F protect_glyphs | F setprop |
| F protrusion_skippable | F setshift |
| F rangedimensions | F setsplit |
| F rawprop | F setsub |
| F reference | F setsubtype |
| F rehpack | F setup |
| F remove | F setsurround |
| F repackhlist | F setunsetattributes |
| F replace | F setvisual |
| F rightmarginwidth | F setvisuals |
| T rules | F setwhd |
| F userrule | F setwidth |
| F set_attribute | F slide |
| F set_components | F somepenalty |
| F set_synctex_fields | F somespace |
| F setattr | F splitbox |
| F setattrattribute | F tail |
| F setattrattributelist | F take_components |
| F setattrattributes | F takeattr |
| F setattrrlist | F takebox |
| F setboth | F takelist |
| F setbox | F theprop |
| F setboxglue | F tonode |
| F setchar | F tonodes |
| F setcomponents | F tonut |
| F setdepth | F tosequence |
| F setdir | F toString |
| F setdisc | F tracedslide |
| F setdiscretionary | F traverse |
| F setfield | F traverse_char |
| F setfont | F traverse_id |
| F setglue | T typesetters |
| F setheight | F tohbox |
| F setkern | F tohpack |
| F setlang | F tonodes |
| F setlanguage | F to vbox |
| F setleader | F tovpack |
| F setlink | F unprotect_glyph |
| F setlist | F unprotect_glyphs |
| F setnext | F unset_attribute |

| | | | |
|----------------------------|------------|-----------------------------|------------|
| F unsetattribute | | F rule | |
| F unsetattributes | | F special | |
| F untracedslide | | F usage | |
| F use_components | | F usernumber | |
| F usedlist | | F vlist | |
| F uses_font | | prepend | function |
| F vianodes | | print | function |
| F vianuts | | processors | table |
| F vpack | | F contribute_filter | |
| F write | | B enabled | |
| packlist | function | F hpack_filter | |
| pardir_is_equal | data table | F post_linebreak_filter | |
| pardir_is_opposite | data table | F pre_linebreak_filter | |
| pardir_is_parallel | data table | F tracer | |
| partextdir_is_equal | data table | processranges | function |
| penaltycodes | data table | processwords | function |
| plugindata | table | properties | table |
| F finalizer | | T actions | |
| F initializer | | F delayed | |
| S name | | F fdelayed | |
| T namespace | | F immediate | |
| N attribute | | F attach | |
| D data | | T data | |
| F enable | | F delayed | |
| F handler | | protect_glyph | function |
| F register | | protect_glyphs | function |
| D registered | | protrusion_skippable | function |
| D values | | pts | function |
| F processor | | radicalcodes | data table |
| points | function | rangedimensions | function |
| pool | table | reference | function |
| F baselineskip | | references | table |
| F cleanup | | N attribute | |
| F glyph | | T done | |
| F hlist | | F handler | |
| F kern | | T stack | |
| F latelua | | reheapack | function |
| F lineskip | | remove | function |
| F pdfdirectliteral | | repackhlist | function |
| F pdforiginliteral | | replace | function |
| F pdfrestore | | report | function |
| F pdfsave | | rightmarginwidth | function |
| F pdfsetmatrix | | rulecodes | data table |
| F register | | rules | table |

| | | | |
|---------------------------|------------|-----------------------------|------------|
| D data | | F resetsamples | |
| F define | | F takesample | |
| F enable | | somepenalty | function |
| F handler | | spaces | function |
| T ruleactions | | splitbox | function |
| F box | | stripdiscretionaries | function |
| F draw | | stripping | table |
| F fill | | T glyphs | |
| F mp | | F set | |
| F stroke | | striprange | function |
| F userrule | | tail | function |
| save | function | takeattr | function |
| serialize | function | takebox | function |
| serializebox | function | tasks | table |
| set_attribute | function | F actions | |
| setattr | function | F appendaction | |
| setattribute | function | F disableaction | |
| setattributes | function | F disablegroup | |
| setboth | function | F enableaction | |
| setbox | function | F enablegroup | |
| setboxtonaturalwd | function | F freeze | |
| setfield | function | F freezegroup | |
| setglue | function | F new | |
| setlink | function | F prependaction | |
| setlist | function | F removeaction | |
| setnext | function | F replaceaction | |
| setprev | function | F restart | |
| setunsetattributes | function | F setaction | |
| setwhd | function | F showactions | |
| shifts | table | F table | |
| D data | | textdir_is_equal | data table |
| F define | | textdir_is_is | data table |
| F enable | | textdir_is_opposite | data table |
| F handler | | textdir_is_parallel | data table |
| show | function | tobasepoints | function |
| showboxes | function | tocentimeters | function |
| showcodes | function | tociceros | function |
| showlist | function | todidots | function |
| showsimplelist | function | todimen | function |
| skipcodes | data table | toinches | function |
| slide | function | tomillimeters | function |
| snapshots | table | tonewciceros | function |
| F getparameters | | tonewdidots | function |
| F getsamples | | tonode | function |

| | | | |
|-----------------------|----------|-------------------------|------------|
| tonodes | function | F reset | |
| tonut | function | F start | |
| topics | function | F stop | |
| topoints | function | F stop | |
| toscaledpoints | function | T transparencies | |
| tosequence | function | F reset | |
| tostring | function | F set | |
| totable | function | F setlist | |
| totree | function | traverse | function |
| toutf | function | traverse_char | function |
| tracers | table | traverse_id | function |
| | | typesetters | table |
| T characters | | F hbox | |
| F collect | | F hpack | |
| F equal | | F tohbox | |
| F start | | F tohpack | |
| F string | | F tonodes | |
| F unicodes | | F to vbox | |
| T colors | | F to vpack | |
| F reset | | | |
| F set | | | |
| F setlist | | | |
| F fontchar | | unprotect_glyph | function |
| T frequencies | | unprotect_glyphs | function |
| F register | | unset_attribute | function |
| T pool | | unsetattribute | function |
| T nodes | | unsetattributes | function |
| F rule | | usedlist | function |
| T nuts | | usercodes | data table |
| F rule | | vianodes | function |
| F resetproperties | | vianuts | function |
| F rule | | visualizebox | function |
| F setlist | | visualizers | table |
| F setproperties | | F attribute | |
| F start | | T attributes | |
| T steppers | | F box | |
| F check | | F handler | |
| F codes | | F markfonts | |
| F features | | F setfont | |
| F font | | F setlayer | |
| F glyphs | | F setruledglyph | |
| F message | | F setvisual | |
| F messages | | vpack | function |
| F nofsteps | | whatcodes | data table |
| F register | | whatsitcodes | data table |
| | | write | function |

number (context)

| | | | |
|-----------------------|------------|-----------------------|----------|
| | function | | |
| basepoints | function | tobasepoints | function |
| bit | function | tobitstring | function |
| bits | function | tocentimeters | function |
| bytetodecimal | function | toxiceros | function |
| clearbit | function | tocontext | function |
| compactfloat | function | todidots | function |
| decimaltobyte | function | todimen | function |
| dimenfactors | data table | toevenhex | function |
| formatted | function | toinches | function |
| formattedfloat | function | tomillimeters | function |
| hasbit | function | tonewciceros | function |
| maxdimen | number | tonewdidots | function |
| nopts | function | tonumberf | function |
| percent | function | tonumberg | function |
| points | function | topicas | function |
| pts | function | topoints | function |
| setbit | function | toscaled | function |
| signed | function | toscaledpoints | function |
| sparseexponent | function | toset | function |
| splitdimen | function | valid | function |

objects (context)

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

os (basic lua)

| | | | |
|---------------------|---------------------|----------------------|---------------------|
| __getenv__ | function | remove | overloaded function |
| __setenv__ | function | rename | overloaded function |
| binsuffix | string | resolvers | table |
| binsuffixes | table | F bits | |
| clock | function | resultof | function |
| converttime | function | runtime | function |
| date | function | selfdir | string |
| difftime | function | setenv | overloaded function |
| env | data table | setlocale | overloaded function |
| exec | overloaded function | sleep | function |
| execute | overloaded function | spawn | overloaded function |
| exit | function | time | function |
| fulltime | function | times | function |
| getenv | overloaded function | timezone | function |
| gettimeofday | function | tmpdir | function |
| isleapyear | function | tmpname | function |
| launch | function | today | function |
| libsuffix | string | type | string |
| localtime | function | uname | function |
| name | string | uuid | function |
| newline | string | validdatetime | function |
| nofdays | function | weekday | function |
| now | function | where | function |
| pipeto | function | which | function |
| platform | string | | |

package (basic lua)

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

pagebuilders (context)

columnsets table

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

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

injections table

- F flushafter
- F flushbefore
- F save

mixedcolumns table

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

pdf (basic tex)

| | | | |
|--------------------------------|----------|--------------------------------|---------------------|
| fontname | function | immediateobj | function |
| fontobjnum | function | mapfile | function |
| fontsize | function | mapline | function |
| getcatalg | function | maxobjnum | function |
| getcompresslevel | function | newcolorstack | function |
| getcreationdate | function | obj | function |
| getdecimaldigits | function | objtype | function |
| getdestmargin | function | pageref | function |
| getgentounicode | function | print | function |
| gethpos | function | refobj | function |
| getignoreunknownimages | function | registerannot | overloaded function |
| getimageresolution | function | reserveobj | function |
| getinclusionerrorlevel | function | setcatalg | overloaded function |
| getinfo | function | setcompresslevel | function |
| getlastannot | function | setdecimaldigits | function |
| getlastlink | function | setdestmargin | function |
| getlastobj | function | setfontattributes | function |
| getlinkmargin | function | setgentounicode | function |
| getmajorversion | function | setignoreunknownimages | function |
| getmatrix | function | setimageresolution | function |
| getminorversion | function | setinclusionerrorlevel | function |
| getnames | function | setinfo | overloaded function |
| getobjcompresslevel | function | setlinkmargin | function |
| getomitcidset | function | setmajorversion | function |
| getorigin | function | setminorversion | function |
| getpageattributes | function | setnames | overloaded function |
| getpageresources | function | setobjcompresslevel | function |
| getpagesattributes | function | setomitcidset | function |
| getpkresolution | function | setorigin | function |
| getpos | function | setpageattributes | overloaded function |
| getretval | function | setpageresources | overloaded function |
| getsuppressoptionalinfo | function | setpagesattributes | overloaded function |
| getthreadmargin | function | setpkresolution | function |
| gettrailer | function | setsuppressoptionalinfo | function |
| gettrailerid | function | setthreadmargin | function |
| getversion | function | settrailer | overloaded function |
| getvpos | function | settrailerid | function |
| getxformattributes | function | setxformattributes | function |
| getxformmargin | function | setxformmargin | function |
| getxformresources | function | setxformresources | function |
| hasmatrix | function | xformname | function |

pdfscanner (context)

scan function

physics (context)

units table

F registerunit

D tables

publications (context)

| | | |
|-----------------------------|------------|--------------|
| addtexentry | function | S author |
| analyze | function | T categories |
| anywhere | function | T article |
| authorcache | data table | S category |
| authorcollapsers | data table | T extra |
| authorhashers | table | T fields |
| F invertedshort | | S author |
| F normal | | S editor |
| F normalinverted | | S journal |
| F normalshort | | 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 |
| converttoxml | function | T sets |
| currentspecification | table | T author |

| | | |
|----------------|------------------------|------------|
| 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 | enhancers | table |
| S author | F details | |
| S institution | F order | |
| S organization | F suffixes | |
| S subtitle | finder | function |
| S title | firstofrange | function |
| S year | found | function |
| T optional | get | function |
| T required | getcasted | function |
| T sets | getdetail | function |
| T authors | getdirect | function |
| T virtual | getfaster | function |
| S comment | getfield | function |
| S copyright | getfuzzy | function |
| T fields | getindex | function |
| S name | inspectors | data table |
| T types | journals | table |
| S author | F abbreviated | |
| S editor | F add | |
| S keywords | F expanded | |
| S number | F load | |
| S page | F save | |
| S pages | lastofrange | function |
| S volume | lists | table |

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

| | | | |
|---------------------|-------|--------------------|----------|
| F showdatasetfields | | F string | |
| F showentry | | usedataset | function |
| F showfields | | usedentries | function |
| F showhashedauthors | | writers | table |
| F showtables | | F author | |
| F showvariants | | F keyword | |
| typesetters | table | F pagenumber | |
| F author | | F range | |

regimes (context)

| | |
|-------------------|----------|
| cleanup | function |
| disable | function |
| enable | function |
| fromregime | function |
| pop | function |

| | |
|------------------|----------|
| process | function |
| push | function |
| toregime | function |
| translate | function |

resolvers (context)

| | | | |
|-------------------------------------|------------|--------------------------------|------------|
| allprefixes | function | findpath | function |
| appendhash | function | findtexfile | function |
| automount | function | findwildcardfile | function |
| automounted | table | 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 |
| criticalvars | data table | getfilehashes | function |
| dangerous | data table | gethashes | function |
| datastate | function | getownpath | function |
| defaultsuffixes | table | getreadfilename | function |
| dowithfilesandreport | function | hashers | data table |
| dowithfilesintree | function | homedir | string |
| dowithpath | function | initialized | function |
| dowithvariable | function | inputstack | table |
| env | 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 | load | function |
| finders | data table | loadbinfile | function |
| findfile | function | loaders | data table |
| findfiles | function | loadlua lib | function |
| findgivenfile | function | loadtexfile | function |
| findgivenfiles | function | loadtime | function |

| | | | |
|--------------------------|------------|---------------------------------|------------|
| locateformat | function | savers | data table |
| locators | data table | scandata | function |
| luacnffallback | string | scanfiles | function |
| luacnfname | string | schemes | table |
| luacnfspec | string | T cleaners | |
| luacnfstate | string | F md5 | |
| macros | table | F none | |
| F convertfile | | F strip | |
| F decodecomment | | F cleanname | |
| F enablecomment | | F fetchstring | |
| F encodecomment | | F fetchtable | |
| F preprocessed | | F install | |
| F processmk | | setdynamic | function |
| F processmkvi | | setenv | function |
| F version | | setmemstream | function |
| maxreadlevel | number | showpath | function |
| methodhandler | function | simplescanfiles | function |
| openbinfile | function | splitconfigurationpath | function |
| openers | data table | splitexpansions | function |
| openfile | function | splitmethod | function |
| opentexfile | function | splitpath | function |
| ownpath | string | stackpath | function |
| popextrapath | function | starttiming | function |
| poppath | function | stoptiming | function |
| prefixes | data table | suffixes | data table |
| prependhash | function | suffixmap | data table |
| pushextrapath | function | suffixofformat | function |
| pushpath | function | texdatablob | function |
| registerextrapath | function | toppath | function |
| registerfile | function | unexpandedpath | function |
| registerfilehash | function | unexpandedpathlist | function |
| registerintrees | function | unresolve | function |
| registermethod | function | updaterelations | function |
| registerzipfile | function | updatescript | function |
| relations | data table | uselibrary | function |
| renew | function | usertypes | data table |
| renewcache | function | usezipfile | function |
| repath | function | validatedpath | function |
| reset | function | variable | function |
| resetextrapaths | function | variableofformat | function |
| resetmemstream | function | variableofformatorsuffix | function |
| resetresolve | function | wildcardpattern | function |
| resolve | 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 | N inter_char_stretch_factor |
| F disable | | N inter_word_stretch_factor |
| F enable | | handlers |
| F handler | | data table |
| categorytonumber | data table | hash |
| colors | data table | table |
| decomposehangul | function | injectors |
| defaults | table | data table |
| N inter_char_half_shrink_factor | | installdataset |
| N inter_char_half_stretch_factor | | function |
| N inter_char_hangul_penalty | | installmethod |
| N inter_char_quarter_shrink_factor | | function |
| N inter_char_quarter_stretch_factor | | numbertocategory |
| N inter_char_shrink_factor | | data table |
| | | numbertodataset |
| | | data table |
| | | numbertohandler |
| | | data table |
| | | reset |
| | | function |
| | | set |
| | | function |
| | | splitters |
| | | data table |

set (context)

contains function

create function

tolist function

tonumber function

totable function

sio (context)

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

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

socket (extra lua)

BLOCKSIZE number
_DEBUG boolean
_SETSIZE number
bind function
choose function
connect function
connect4 function
connect6 function
dns table

F getaddrinfo
F gethostname
F getnameinfo
F tohostname
F toip

ftp table

S PASSWORD
N PORT
N TIMEOUT
S USER
F command
F get
F open
F put

gettime function

headers table

T canonic
S accept
S accept-charset
S accept-encoding
S accept-language
S accept-ranges
S action
S age
S allow
S alternate-recipient
S arrival-date
S authorization
S bcc
S cache-control
S cc
S comments

S connection
S content-description
S content-disposition
S content-encoding
S content-id
S content-language
S content-length
S content-location
S content-md5
S content-range
S content-transfer-encoding
S content-type
S date
S diagnostic-code
S dsn-gateway
S etag
S expect
S expires
S final-log-id
S final-recipient
S from
S host
S if-match
S if-modified-since
S if-none-match
S if-range
S if-unmodified-since
S in-reply-to
S keywords
S last-attempt-date
S last-modified
S location
S max-forwards
S message-id
S mime-version
S original-envelope-id
S original-recipient
S pragma
S proxy-authenticate
S proxy-authorization
S range

S received
 S received-from-mta
 S references
 S referer
 S remote-mta
 S reply-to
 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

http **table**

N PORT
 N TIMEOUT
 S USERAGENT
 F open
 F request

newtry **function**

protect **function**
select **function**
sink **function**
sinkt **table**

F close-when-done
 F default
 F http-chunked
 F keep-open

skip **function**
sleep **function**
smtp **table**

S DOMAIN
 N PORT
 S SERVER
 N TIMEOUT
 S ZONE
 F message
 F open
 F send

source **function**
sourcet **table**

F by-length
 F default
 F http-chunked
 F until-closed

tcp **function**
tcp6 **function**
tp **table**

N TIMEOUT
 F connect

try **function**
udp **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

setlanguage function

sort function

splitters table

 F utf

strip function

tracers data table

update function

statistics (context)

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

status (basic tex)

list function

resetmessages function

setexitcode function

storage (context)

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

streams (context)

| | |
|-------------------|----------|
| collect | function |
| disable | function |
| enable | function |
| flush | function |
| initialize | function |

| | |
|--------------------|----------|
| push | function |
| start | function |
| stop | function |
| synchronize | function |

string (basic lua)

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

structures (context)

| | | |
|-------------------|----------|--------------------------------------|
| atlocation | function | F previous |
| blocks | table | F raw |
| D collected | | F record |
| F define | | F reset |
| F print | | F restart |
| F save | | F restore |
| F select | | F save |
| F setstate | | F set |
| D states | | F setlevel |
| D tobesaved | | F setoffset |
| bookmarks | table | F setown |
| T extras | | F setstate |
| F get | | F setvalue |
| F mergesections | | T specials |
| F register | | F userpage |
| F reset | | F subs |
| F tosections | | D tobesaved |
| F finalize | | F value |
| F flatten | | F way |
| F installhandler | | currentsectionnumber function |
| F merge | | descriptions table |
| S method | | documents table |
| F overload | | D data |
| F place | | F initialize |
| F register | | F preset |
| F setup | | F reset |
| counters | table | floats table |
| F add | | formulas table |
| F analyze | | helpers table |
| F check | | F analyze |
| D collected | | F formulanumber |
| F compact | | F merged |
| F converted | | F page |
| F currentvalue | | F pageofinternal |
| D data | | F prefix |
| F define | | F prefixlastpage |
| F first | | F prefixpage |
| F get | | F simplify |
| F last | | F title |
| F next | | F touserdata |
| F prev | | inserts table |

| | | | |
|-------------------|--------------|----------------------------|--------------|
| 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 tobесaved | |
| D stored | | F userdata | |
| | | F uservalue | |
| itemgroups | table | marks | table |
| lists | 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 reordered | | F listindex | |
| T result | | T numbers | |

- F ordered
- F postpone
- F resetpostponed
- F restore
- F save
- F setstate
- D states
- F store

pages table

- F analyze
- D collected
- F in_body
- F is_odd
- N nopages
- F number
- F on_right
- F save
- D tobesaved

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 enableinteraction
- 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
- F define
- F enhance
- F extend
- F filter
- F filtercollected
- F finalize

table

- 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 load
- F matchingtilldepth
- F numberatdepth
- F numbers
- F popblock
- F prefixedconverted
- F pushblock
- F register
- D registered
- F reportstructure
- F save
- T sectionblockdata
 - T bodypart
 - S bookmark

table

| | | | | |
|-------------------|--------------|---------------------------|--|--------------|
| F set | | tags | | table |
| F setblock | | F elementtag | | |
| F setchecker | | F finishexport | | |
| F setentry | | F getid | | |
| F setinitialblock | | F getmetadata | | |
| F setlevel | | F handler | | |
| F setnumber | | F initializeexport | | |
| F structuredata | | D labels | | |
| F title | | F last | | |
| D tobesaved | | F lastinchain | | |
| F typesetnumber | | F locatedtag | | |
| F userdata | | T patterns | | |
| B verbose | | U splitter | | |
| sets | table | D properties | | |
| F define | | F registermetadata | | |
| F get | | F restart | | |
| F getall | | F setaspect | | |
| D setlist | | F setattributefield | | |
| specials | table | F setcombination | | |
| D collected | | F setconstruct | | |
| F retrieve | | F setfigure | | |
| F store | | F sethighlight | | |
| D tobesaved | | F setitem | | |
| synonyms | table | F setitemgroup | | |
| F analyzed | | F setlist | | |
| D collected | | F setnotation | | |
| F compare | | F setnotationsymbol | | |
| F define | | F setproperty | | |
| F filter | | F setregister | | |
| F finalize | | F setsorting | | |
| F flush | | F setsynonym | | |
| F isshown | | F settablecell | | |
| F isused | | F settabulatecell | | |
| F meaning | | F settagdelimitedsymbol | | |
| F prepare | | F settagsubsentencesymbol | | |
| F process | | F setupexport | | |
| F register | | F setuserproperties | | |
| F registershown | | D specifications | | |
| F registerused | | F start | | |
| F resetshown | | F stop | | |
| F resetused | | F strip | | |
| F sort | | D taglist | | |
| F synonym | | T usewithcare | | |
| D tobesaved | | T images | | |

table (basic lua)

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

tex (basic tex)

| | | | |
|---------------------------------|------------|----------------------------|---------------------|
| attribute | table | getmuglue | function |
| badness | function | getmuskip | function |
| box | table | getnest | function |
| catcode | table | getsfcode | function |
| conditionals | data table | getskip | function |
| constants | data table | gettoks | function |
| count | table | getuccode | function |
| cprint | function | glue | table |
| ctdcatcodes | number | hashtokens | function |
| ctxcatcodes | number | ifs | data table |
| definefont | function | inimatcodes | number |
| delcode | table | init_rand | function |
| dimen | table | isattribute | function |
| directives | data table | isbox | function |
| enableprimitives | function | iscount | overloaded function |
| error | function | isdefined | function |
| extraprimitives | function | isdimen | overloaded function |
| finish | function | ismuskip | overloaded function |
| fontidentifier | function | isskip | overloaded function |
| fontname | function | istoken | function |
| force_synctex_line | function | istoks | function |
| force_synctex_tag | function | lccode | table |
| fprint | function | linebreak | function |
| get | function | lists | table |
| get_synctex_line | function | lua_math_random | function |
| get_synctex_mode | function | lua_math_randomseed | function |
| get_synctex_tag | function | luacatcodes | number |
| getattribute | function | mathcode | table |
| getbox | function | modes | data table |
| getboxresourcedimensions | function | muglue | table |
| getcatcode | function | muskip | table |
| getcount | function | nest | table |
| getdelcode | function | nilcatcodes | number |
| getdelcodes | function | normal_rand | function |
| getdimen | function | notcatcodes | number |
| getglue | function | number | function |
| getlccode | function | primitives | function |
| getlist | function | print | function |
| getmath | function | prtcacodes | number |
| getmathcode | function | resetparagraph | function |
| getmathcodes | function | romannumeral | function |

| | | | |
|-------------------------|----------|-------------------------|------------|
| round | function | setuccode | function |
| run | function | sfcode | table |
| saveboxresource | function | shipout | function |
| scale | function | show_context | function |
| scantoks | function | skip | table |
| set | function | sp | function |
| set_synctex_line | function | splitbox | function |
| set_synctex_mode | function | sprint | function |
| set_synctex_tag | function | systemmodes | data table |
| setattribute | function | takebox | function |
| setbox | function | texcatcodes | number |
| setcatcode | function | toks | table |
| setcount | function | tpacatcodes | number |
| setdelcode | function | tpbcacodes | number |
| setdimen | function | tprint | function |
| setglue | function | trackers | data table |
| setlcode | function | triggerbuildpage | function |
| setlist | function | txtcatcodes | number |
| setmath | function | type | function |
| setmathcode | function | uccode | table |
| setmuglue | function | uniform_rand | function |
| setmuskip | function | uniformdeviate | function |
| setnest | function | uprint | function |
| setsfcode | function | useboxresource | function |
| setskip | function | vrbcacodes | number |
| settoks | function | write | function |

texconfig (basic tex)

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

texio (basic tex)

setescape function
write function

write_nl function

token (basic tex)

| | |
|-----------------------|----------|
| create | function |
| get_active | function |
| get_cmdname | function |
| get_command | function |
| get_csname | function |
| get_expandable | function |
| get_id | function |
| get_index | function |
| get_macro | function |
| get_meaning | function |
| get_mode | function |
| get_next | function |
| get_protected | function |
| get_tok | function |

| | |
|---------------------|----------|
| is_token | function |
| put_next | function |
| scan_code | function |
| scan_csname | function |
| scan_dimen | function |
| scan_glue | function |
| scan_int | function |
| scan_keyword | function |
| scan_string | function |
| scan_token | function |
| scan_toks | function |
| scan_word | function |
| set_macro | function |
| type | function |

tokens (context)

astable function
bgroup userdata
bits table

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

collectors table

T data
F defaultwords
F dowithwords
F flush
F install
F register
T registered
F show
F test

compile function
constant function
converters table

S toboolean
S todimen
S toglue
S tonumber
S tostring

defined function
egroup userdata
getters table

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

hbox userdata
istoken function
letter function
letters function
other function
pickup function
printlist function
scanners table

F boolean
F code
F conditional
F count
F csname
F dimen
F dimension
F glue
F integer
F keyword
F list
F lxmlid
F number
F scanclose
F scanopen
F skip
F string
F token
F tokens
F toks
F word

scantable function

setters table

F box
F count
F dimen
F glue
F macro
F skip

shortcuts table

T bits
N active
N alignment
N begingroup
N character
N close
N comment
N endgroup
N endofline
N escape
N ignore
N invalid
N letter
N mathshift
N open
N other
N parameter
N space
N subscript
N superscript
N whitespace
N close
F inspect
N open
F report
F scanboolean
F scanclose
F scancode
F scanconditional
F scaniname
F scandimen
F scandimension
F scaninteger
F scankeyword
F scanlist
T scanners

F boolean
F code
F conditional
F count
F csname
F dimen
F dimension
F glue
F integer
F keyword
F list
F lxmlid
F number
F scanclose
F scanopen
F skip
F string
F token
F tokens
F toks
F word
F scannumber
F scanopen
F scanstring
F scanword
F toboolean
F todimen
T tokens
F astable
U bgroup
T collectors
F defaultwords
F dowithwords
F flush
F install
F register
F show
F test
F compile
F constant
T converters
S toboolean
S todimen
S toglue

| | | |
|-------------|-------------------|----------|
| S tonumber | N close | |
| S toString | F inspect | |
| F defined | N open | |
| U egroup | F report | |
| T getters | F scanboolean | |
| F box | F scanclose | |
| F count | F scancode | |
| F dimen | F scanconditional | |
| F glue | F scanscname | |
| F macro | F scandimen | |
| F meaning | F scandimension | |
| F skip | F scaninteger | |
| F token | F scankeyword | |
| U hbox | F scanlist | |
| F istoken | F scannumber | |
| F letter | F scanopen | |
| F letters | F scanstring | |
| F other | F scanword | |
| F pickup | F toboolean | |
| F printlist | F todimen | |
| F scantable | F tonumber | |
| T setters | F toString | |
| F box | U vbox | |
| F count | U vtop | |
| F dimen | F tonumber | |
| F glue | F toString | |
| F macro | vbox | userdata |
| F skip | vtop | userdata |
| T shortcuts | | |

tracers (context)

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

trackers (context)

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

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
B keptogether
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

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

unicode (extra lua)

ascii table

F byte
F char
F dump
F find
F format
F gfind
F gmatch
F gsub
F len
F lower
F match
F rep
F reverse
F sub
F upper

grapheme table

F byte
F char
F dump
F find
F format
F gfind
F gmatch
F gsub
F len
F lower
F match
F rep
F reverse
F sub
F upper

latin1 table

F byte
F char
F dump
F find
F format
F gfind
F gmatch
F gsub

F len
F lower
F match
F rep
F reverse
F sub
F upper

toutf32string function

utf8 table

F byte
F char
F characters
F chrln
F count
F dump
F filetype
F find
F format
F gfind
F gmatch
F gsub
F is_valid
F len
F length
F lower
F magic
F match
F remapper
F rep
F replacer
F reverse
F split
F splitlines
F sub
F substituter
F tocodes
F toeight
F toentities
F tostring
F totable
F upper

| | |
|----------------------|----------------------|
| F ustring | F utf32_to_utf8_le_t |
| F utf16_to_utf8_be | F utf32_to_utf8_t |
| F utf16_to_utf8_be_t | F utf8_to_utf16 |
| F utf16_to_utf8_le | F utf8_to_utf16_be |
| F utf16_to_utf8_le_t | F utf8_to_utf16_le |
| F utf16_to_utf8_t | F utf8_to_utf8_t |
| F utf32_to_utf8_be | F values |
| F utf32_to_utf8_be_t | F xstring |
| F utf32_to_utf8_le | |

url (context)

| | |
|------------------|----------|
| addscheme | function |
| barepath | function |
| construct | function |
| escape | function |
| filename | function |
| hashed | function |

| | |
|--------------------|----------|
| hascheme | function |
| query | function |
| split | function |
| toquery | function |
| unescapeget | function |

utilities (context)

debugger table

F disable
F enable
F savestats
F showstats
F showtraceback

files table

F close
F getposition
F getsize
F look
F open
F read2dot14
F readbyte
F readbytes
F readbytetable
F readcardinal
F readcardinal1
F readcardinal2
F readcardinal2le
F readcardinal3
F readcardinal3le
F readcardinal4
F readcardinal4le
F readchar
F readfixed2
F readfixed4
F readinteger
F readinteger1
F readinteger2
F readinteger2le
F readinteger3
F readinteger3le
F readinteger4
F readinteger4le
F readsignedbyte
F readstring
F readtag
F setposition
F size
F skip

F skiplong
F skipposition
F skipshort
F writebyte
F writecardinal2
F writecardinal4
F writestring

formatters table

F formatcolumns
F list
F stripzeros

garbagecollector table

F check
N criterium
B enabled

lua table

B alwaysstripcode
F checkmemory
F compile
F loadedluacode
F 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 | B latin-modern-light-designsize |
| F strip | B modern-light |
| F unpack | T modern-mono,modern-base-mono |
| N version | B modern-base-mono |
| parsers | B modern-mono |
| | T modern-variable,latin-modern-variable-designsize,latin-modern-light |
| F add_settings_to_array | B latin-modern-variable |
| F arguments_to_table | B latin-modern-variable-designsize |
| F array_to_string | B modern-variable |
| F csvsplitter | T modernvariable,modern-variable |
| F getparameters | B modern-variable |
| F groupedsplitat | B modernvariable |
| F hash_to_string | T modernvariablelight,modern-variable-light |
| T hashes | B modern-variable-light |
| T settings_to_set | B modernvariablelight |
| T max,fit,broad,auto | T serif,sans,mono |
| B auto | B mono |
| B broad | B sans |
| B fit | B serif |
| B max | T text,hidden,paper,page,leftpage,rightpage |
| T modern,latin-modern | B hidden |
| B latin-modern | B leftpage |
| B modern | B paper |
| T modern,latin-modern,modern-variable,latin-modern-variable,modern-condensed,latin-modern-condensed | B rightpage |
| B latin-modern | B text |
| B latin-modern-condensed | F iterator |
| B latin-modern-variable | F keq_to_hash |
| B modern | F listitem |
| B modern-condensed | F make_settings_to_hash_pattern |
| B modern-variable | F mergehashes |
| T modern,latin-modern-designsize,latin-modern | F options_to_array |
| B latin-modern | F options_to_hash |
| B latin-modern-designsize | T patterns |
| B modern | U settings_to_array |
| T modern,modern-base | U settings_to_hash_a |
| B modern | U settings_to_hash_b |
| B modern-base | U settings_to_hash_c |
| T modern-condensed,latin-modern-condensed-designsize,latin-modern-condensed,latin-modern-light-condensed,latin-modern-light | U unittotex |
| B latin-modern-condensed | F process_stripped_settings |
| B latin-modern-condensed-designsize | F rfc4180splitter |
| B latin-modern-light-condensed | F runtime |
| B modern-condensed | F settings_to_array |
| B modern-light-condensed | F settings_to_array_obey_fences |
| T modern-light,latin-modern-light-designsize,latin-modern-light | |
| B latin-modern-light | |

- F settings_to_array_with_repeat
- F settings_to_hash
- 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 unittotex
- F unittoxml

randomizer table

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

report function

sequencers table

- F appendaction
- F appendgroup
- F compile
- F disableaction
- F disablegroup
- F enableaction
- F enablegroup
- D functions
- F localize
- F new
- F nodeprocessor
- F prependaction
- F prependgroup
- F removeaction
- F replaceaction
- F setkind
- F tostring

setters table

- F disable
- F enable

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

stacker table

- F new

storage table

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

streams table

- F close
- F getposition
- F look
- F open
- F read2dot14
- F read2dot4
- F readbyte
- F readbytes
- F readbytetable
- F readcardinal
- F readcardinal1
- F readcardinal2
- F readcardinal2LE
- F readcardinal3
- F readcardinal3le
- F readcardinal4
- F readchar
- F readfixed2
- F readfixed4
- F readinteger
- F readinteger1
- F readinteger2
- F readinteger2le
- F readinteger3
- F readinteger3le
- F readinteger4
- F readinteger4le

| | |
|----------------------|------------------------|
| F readsignedbyte | U retain and collapse |
| F readstring | U retain and no empty |
| F setposition | F striplines |
| F size | F striplong |
| F skip | F tabtospace |
| F skipbytes | T tracers |
| F skiplong | tables table |
| F skipshort | F accesstable |
| strings table | F definedtable |
| F collapseCrLf | F definetable |
| T formatters | F encapsulate |
| F add | F insertaftervalue |
| F new | F insertbeforevalue |
| F newcollector | F migratetable |
| F newrepeater | F removevalue |
| F nice | F replacevalue |
| T striplinepatterns | templates table |
| U collapse | F load |
| U prune | F replace |
| U prune and collapse | F replacer |
| U prune and no empty | F resolve |
| U retain | |

vf (context)

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

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

visualizers (context)

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

xml (context)

| | |
|------------------------------------|---------------------|
| addentitiesdoctype | function |
| addspecialcode | function |
| after | function |
| all | function |
| applylpath | function |
| applyselector | function |
| assign | function |
| attribute | function |
| badinclusions | function |
| before | function |
| body | function |
| builtinentities | table |
| B amp | |
| B apos | |
| B gt | |
| B lt | |
| B quot | |
| cdata | function |
| cdatatotext | function |
| checkbom | function |
| checkerror | function |
| checknamespace | function |
| checkns | function |
| cleansed | function |
| collect | function |
| collect_elements | function |
| collect_tags | function |
| collect_texts | function |
| collected | function |
| collecttexts | function |
| content | function |
| convert | function |
| copy | function |
| count | function |
| cprint | function |
| css | table |
| F applyselector | |
| F colorspecification | |
| F dimension | |
| F fontspecification | |
| F padding | |

| | |
|----------------------------------|---------------------|
| defaulthandlers | table |
| D file | |
| D parsedxml | |
| D string | |
| D tex | |
| D texline | |
| D texspace | |
| D verbose | |
| defaultprotocol | string |
| delete | function |
| delete_element | function |
| despecialized | function |
| each | function |
| each_element | function |
| elements | function |
| elementtocdata | function |
| empty | function |
| entities | data table |
| erase | function |
| errorhandler | function |
| escaped | function |
| expressions | table |
| F boolean | |
| F child | |
| F contains | |
| F count | |
| F error | |
| F find | |
| F idstring | |
| F lower | |
| F name | |
| F number | |
| F oneof | |
| F print | |
| F quit | |
| F tag | |
| F text | |
| F undefined | |
| F upper | |
| fillin | function |
| filter | function |

finalizers

F paragraphs
T tex
F all
F attribute
F chainattribute
F chainpath
F command
F concat
F concatrange
F context
F count
F ctxtext
F default
F first
F function
F index
F last
F lettered
F lower
F lowerall
F match
F name
F position
F reverse
F stripped
F tag
F tags
F text
F upper
F upperall
T xml
F all
F att
F attribute
F attributes
F cdata
F chainattribute
F count
F default
F elements
F empty
F first
F function

table

F index
F last
F lowerall
F match
F name
F position
F reverse
F table
F tag
F tags
F text
F texts
F upperall

| | |
|------------------------------|----------|
| first | function |
| found | function |
| functions | table |
| getbuffer | function |
| gethandlers | function |
| gethandlersfunction | function |
| helpers | table |
| F recursetext | |
| include | function |
| inclusion | function |
| inclusions | function |
| index | function |
| inheritedconvert | function |
| inject | function |
| inject_element | function |
| inject_element_after | function |
| inject_element_before | function |
| injectafter | function |
| injectbefore | function |
| insert | function |
| insert_element | function |
| insert_element_after | function |
| insert_element_before | function |
| insertafter | function |
| insertbefore | function |
| insertcdata | function |
| insertcomment | function |
| inspect | function |
| is_valid | function |
| kind | function |
| last | function |

| | | | |
|---------------------------|----------|----------------------------|----------|
| lastmatch | function | replace | function |
| load | function | replace_element | function |
| lpath | function | resetinjectors | function |
| lpathcached | function | resolvens | function |
| lpathcalls | function | root | function |
| lshow | function | save | function |
| makestandalone | function | selection | function |
| match | function | separate | function |
| name | function | serialize | function |
| newhandlers | function | serializetotext | function |
| nodesettostring | function | setcdata | function |
| originalload | function | setcomment | function |
| package | function | sethandlersfunction | function |
| parent | function | setinjectors | function |
| parsedentitylpeg | userdata | setproperty | function |
| pihandlers | table | settings | function |
| F injector | | specialcodes | table |
| F tex | | S " | |
| placeholders | table | S # | |
| F unknown_any_entity | | S \$ | |
| F unknown_dec_entity | | S % | |
| F unknown_hex_entity | | S & | |
| popmatch | function | S ' | |
| position | function | S < | |
| privatecodes | table | S > | |
| privatetoken | function | S \ | |
| process | function | S { | |
| process_attributes | function | S | |
| process_elements | function | S } | |
| processattributes | function | S ~ | |
| profiled | table | specialhandler | table |
| pushmatch | function | sprint | function |
| raw | function | string | function |
| registerentity | function | strip | function |
| registers | function | strip_whitespace | function |
| reindex | function | stripelement | function |
| remap_name | function | stripleadingspaces | function |
| remap_namespace | function | table | function |
| remap_tag | function | text | function |
| remapname | function | textonly | function |
| remapnamespace | function | texttocdata | function |
| remaptag | function | tocdata | function |
| renamespace | function | toelement | function |
| reparsedentitylpeg | userdata | tostring | function |

| | | | |
|----------------------------|----------|----------------------|----------|
| totable | function | unprivatized | function |
| toxml | function | unspecialized | function |
| tprint | function | withelement | function |
| traverse | function | withelements | function |
| unescaped | function | wrap | function |
| unescapedentitylpeg | userdata | xmlns | table |

zip (extra lua)

archives

table

close

function

closearchive

function

open

overloaded function

openarchive

function

openfile

function

registeredfiles

table

type

function

zlib (extra lua)

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

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