

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

ConT_EXt LMTX

global (alias: _G)

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

| | | | |
|-----------------|----------|-----------------|------------|
| lua | table | select | function |
| luatex | table | set | table |
| lxml | table | setinspector | function |
| math | table | setmetatable | function |
| mathematics | table | sha2 | table |
| md5 | table | shipbox_ref_h | number |
| metapost | table | shipbox_ref_v | number |
| mime | table | sio | table |
| moduledata | table | socket | table |
| modules | table | sorters | table |
| mp | function | statistics | table |
| mplib | table | status | table |
| next | function | storage | table |
| noads | table | streams | table |
| node | table | string | table |
| nodes | table | structures | table |
| number | table | table | table |
| objects | table | tex | table |
| optional | table | texconditionals | data table |
| optionalrequire | function | texconfig | table |
| os | table | texconstants | data table |
| package | table | texifs | data table |
| pagebuilders | table | texio | table |
| pairs | function | texisdefined | data table |
| parametersets | table | texmodes | data table |
| pcall | function | texsystemmodes | data table |
| pdf | table | thirddata | table |
| pdfdecode | table | toboolean | function |
| pdfe | table | todecimal | function |
| physics | table | token | table |
| pngdecode | table | tokens | table |
| print | function | tonumber | function |
| publications | table | tostring | function |
| rawequal | function | tracers | table |
| rawget | function | trackers | table |
| rawlen | function | type | function |
| rawset | function | typesetters | table |
| regimes | table | unpack | function |
| require | function | updaters | table |
| required | function | url | table |
| resolvers | table | userdata | table |
| ruledspace | function | utf | table |
| sandbox | table | utf8 | table |
| scripts | table | utilities | table |

visualizers

warn

xcomplex

xdecimal

xmath

table

function

table

table

table

xml

xpcall

xzip

zip

zlib

table

function

table

table

table

attributes (context)

alternates table

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

applyoverloads function

colorintents table

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

colors table

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

F formatgray
F getpagecolormodel
F gray
F graytohsv
F handler
T helpers
F complement
F inbetween
F justone
F hsvtorgay
F hsvtorgb
F hwbtorgb
F iccprofile
F isblack
N main
S model
D models
F mpcolor
F mpnamedcolor
F mpoptions
F namedcolorattributes
N none
F popset
F processcolorcomponents
F pushset
F register
D registered
F registerspotcolor
F rgb
F rgbtocmyk
F rgbtorgay
F rgbtohsv
N selector
F setlist
F setmodel
F setpagecolormodel
D sets
F spec
F spot
F spotcolorname
F spotcolorparent

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

F definedlayoutcomponent
F enable
F forcesupport
F handler
B hasorder
D listwise
F register
D registered
F resolve_begin

F resolve_end
F resolve_reset
F resolve_step
D scopes
F setfeatures
F start
F stop
B supported
D values

backends (context)

| | | |
|-------------------------|----------|-------------------------------|
| closeout | function | F getbookmarks |
| codeinjections | table | F getdefaultfieldvalue |
| F boxresourcedimensions | | F getfieldcategory |
| F registerboxresource | | F getfieldset |
| F restoreboxresource | | F getformatoption |
| current | string | F getidentityvariable |
| defaults | table | F getinfo |
| T codeinjections | | F getpreviewfigure |
| T nodeinjections | | F insertrenderingwindow |
| T registrations | | F jp2 |
| D tables | | F jpg |
| getcallbackstate | function | F maptag |
| included | table | F mergebookmarks |
| B context | | F mergecomments |
| B date | | F mergefields |
| B id | | F mergereferences |
| B metadata | | F mergeviewerlayers |
| B pdf | | F newimage |
| install | function | F png |
| latelua | function | F prerollreference |
| nodeinjections | table | F presetsymbol |
| nothing | function | F presetsymbollist |
| openout | function | F processrendering |
| pdf | table | F registerdocumentcloseaction |
| T codeinjections | | F registerdocumentopenaction |
| F addbookmarks | | F registeredsymbol |
| F analyzenormalsymbol | | F registerpagecloseaction |
| F analyzesymbol | | F registerpageopenaction |
| F attachmentid | | F registerpattern |
| F bitmap | | F registersymbol |
| F clonefield | | F scanimage |
| F copyimage | | F setattachmentsupport |
| F definefield | | F setfieldcalculationset |
| F definefieldset | | F setfigurealternative |
| F defineviewerlayer | | F setfigurecolorspace |
| F embedfile | | F setfiguremask |
| F embedimage | | F setformat |
| F enabletags | | F setformsmethod |
| F exportformdata | | F setpagetransition |
| F fieldsurrounding | | F settaggingsupport |
| F flushmergelayer | | F setupidentity |

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

basexx (extra lua)

decode16 function

decode64 function

decode85 function

decodeLZW function

decodeRL function

encode16 function

encode64 function

encode85 function

encodeLZW function

encodeRL function

bit32 (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 |
| assign | function |
| collectcontent | function |
| erase | function |
| exists | function |
| get | function |
| getcontent | function |
| getlines | function |
| gettexbuffer | function |
| loadcontent | function |
| parallel | table |

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

builders (context)

checksidefloat function

kernel table

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

paragraphs table

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

F tag

profiling table

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

vspacing table

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

cache (context)

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

callback (basic tex)

find function

known function

list function

register overloaded function

usage function

callbacks (context)

freeze function

functions table

F start_page_number

F stop_page_number

known function

list data table

pop function

push function

register function

report function

supported table

B append_to_vlist_filter

B begin_paragraph

B build_page_insert

B buildpage_filter

B contribute_filter

B define_font

B find_format_file

B find_log_file

B handle_overload

B hpack_filter

B hpack_quality

B hyphenate

B insert_par

B intercept_lua_error

B intercept_tex_error

B kerning

B ligaturing

B linebreak_filter

B make_extensible

B mlist_to_hlist

B open_data_file

B post_linebreak_filter

B pre_dump

B pre_linebreak_filter

B pre_output_filter

B process_jobname

B show_error_message

B show_lua_call

B show_warning_message

B show_whatsit

B start_file

B start_run

B stop_file

B stop_run

B trace_memory

B vpack_filter

B vpack_quality

B wrapup_run

catcodes (context)

names data table

numbers data table

register function

characters (context)

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

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

chemistry (context)

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

containers (context)

cleanname function
content function
define function
is_usable function

is_valid function
read function
usecache boolean
write function

converters (context)

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

uchexnumbers

upper

verbose

D data

function

function

table

F translate

weekday

word

words

function

function

function

coroutine (basic lua)

close function
create function
isyieldable function
resume function

running function
status function
wrap function
yield function

ctxrunner (context)

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

data (context)

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

debug (basic lua)

getinfo function
sethook function

traceback function

dir (context)

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

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

directives (context)

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

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

document (context)

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

documentdata (context)

variable function

drivers (context)

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

| | |
|-------------------|--------------------------------|
| F character | F poporientation |
| F rule | F pushorientation |
| F simplerule | F restore |
| F specialrule | F rule |
| F updatefontstate | F save |
| S name | F setmatrix |
| T none | F setstate |
| T actions | F simplerule |
| T flushers | F specialrule |
| S name | F startclipping |
| T pdf | F startmatrix |
| T actions | F startmirroring |
| F cleanup | F startrotation |
| F convert | F startscaling |
| F finalize | F stopclipping |
| F initialize | F stopmatrix |
| F outputfilename | F stopmirroring |
| F prepare | F stoprotation |
| F wrapup | F stopscaling |
| T flushers | F updatefontstate |
| F character | S name |
| F fontchar | lmtxversion number |
| F group | outputfilename function |
| F image | report function |
| F literal | |

environment (context)

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

experiments (context)

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

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

figures (context)

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

suffixes
used

data table
data table

file (basic lua)

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

fio (extra lua)

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

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

floats (context)

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

font (basic tex)

| | |
|----------------------|----------|
| addcharacters | function |
| current | function |
| define | function |
| getfont | function |
| getfontdimen | function |

| | |
|---------------------|----------|
| id | function |
| max | function |
| nextid | function |
| setfont | function |
| setfontdimen | function |

fonts (context)

analyzers table

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

checkers table

- F getmissing
- F missing
- F placeholder

cid table

- F getmap
- F loadfile

collections table

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

constructors table

- F addcharacters
- F addcoreunicodes
- F aftercopyingcharacters
- F applyfinalizers
- F applymanipulators
- F assignmathparameters
- F beforecopyingcharacters
- D cache
- F calculatescale
- F checkedfeatures
- F checkedfilename
- F collectprocessors
- F currentfonthasfeature

- D designsizes
- F enhanceparameters
- T enhancers
 - T afm
 - F apply
 - F patch
 - T patches
 - F register
 - F report
- F register
- F report
- T otf
 - F addfeature
- F apply
- F enhance
- F patch
- T patches
 - F register
- F report
- F register
- F report
- T tfm
 - F apply
- F patch
- T patches
 - F register
- F report
- F register
- F report
- N factor
- T features
 - D afm
 - D otf
 - D tfm
- F finalize
- F getfeatureaction
- F getmathparameter
- F getprivate
- T handlers
 - T afm
 - B autoprefixed

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

| | |
|-------------------------------|----------------------|
| F cbbt | T helpers |
| F cblc | F axistofactors |
| F cff | F cleannname |
| F cff2 | F getaxisscale |
| F cffcheck | F getfactors |
| T cffencoder | F getscales |
| F checkhash | F gotodatatable |
| F cmap | F normalizedaxis |
| F colr | T normalizedaxishash |
| F compact | F readvariationdata |
| F cpal | F reportskippedtable |
| F ebdtt | 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 readcardinal1le |

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

```

F reencode
F setfeatures
N version
T vf
  T combinations
  F combine
  T combiner
    D commands
  D helpers
  D math
  N version
  D whatever
F hashfeatures
F hashinstance
T hashmethods
  F normal
  F virtual
F initializefeatures
D loadedfonts
N noffontsloaded
N nofsharedfonts
N nofsharedhashes
N nofsharedvectors
N privateoffset
D privateslots
F readanddefine
F registerfeature
F resetfeature
B resolvevirtualtoo
F scale
F scaled
F setfactor
F setfeature
F setmathparameter
F setname
B sharefonts
F trytosharefont
N version
current          function
currentid       function
definers        table
  F addlookup
  F analyze
  F applypostprocessors

```

```

F checkedmode
F checkedscript
S defaultlookup
F define
F getspecification
F internal
F loadfont
F makespecification
T methods
  F install
  D variants
F read
F register
F registered
F registersplit
F resetnullfont
F resolve
T resolvers
  F file
  F name
  F spec
defintypeface  function
dropins        table
  F clone
  F getshape
  F getshapes
  F nextid
  F provide
  F registerglyph
  F registerglyphs
  F swap
  F swapone
encodings      table
  T agl
    D ctxcodes
    D extras
    D names
    D synonyms
    D unicodes
  D cache
  F is_known
  D known
  F load
  F make_unicode_vector

```


D math
 N version
enhanceid function
expansions data table
formats data table
getalternate function
getindices function
getkern function
getmultiple function
getsubstitution function
getters table

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

goodies table

D colorschemes
 T data
 T dejavu-math
 S author
 S comment
 S copyright
 B initialized
 T mathematics
 T alternates
 T dotless
 S comment
 S feature
 N value
 T kerns
 T *:0x1D449
 T bottomright
 S name
 S version
 D designsizes
 D filenames
 F getcompositions
 T list

F load
 F prepare_features
 F register
 F registerpostprocessor
 F report
 T suffixes

handlers table
hashes table

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

helpers table

F addextraprivate
 F addprivate
 F appendcommands
 F appendcommandtable
 F checkflags
 F checkmerge

- F checksteps
- F collectanchors
- F combineglyphs
- D commands
- F composecharacters
- F descriptiontoslot
- F dimenfactor
- F expandglyph
- T extraprivates
- F fontpatternhassize
- F getcoloredglyphs
- F getdigitwidth
- F getinstancespec
- F getparameters
- F getprivatecharornode
- F getprivatenode
- F getprivates
- F getprivateslot
- F hasprivate
- F indextoslot
- F mathscriptslots
- F name
- F nametoslot
- F newprivateslot
- F prependcommands
- F prependcommandtable
- F privateslot
- F scalecommands
- F setdigitwidth
- F setmetaglyph
- F setmetaglyphs
- F splitfontpattern
- F tochar
- T vfinjectors
 - F pdf
 - F startcolor
 - F stopcolor
- T vfspecials
 - T backgrounds
 - T outlines
- infofont** function
- iterators** table
 - F characters
 - F descriptions

- F glyphs
- loggers** table
 - F format
 - F onetimemessage
 - F register
 - F reportdefinedfonts
 - F reportusedfeatures
- mappings** table
 - F addtounicode
 - F fromunicode16
 - F getentry
 - F loadfile
 - F loadline
 - F makenameparser
 - D overloads
 - F reset
 - F tounicode
 - F tounicode16
 - F tounicode16sequence
- metapost** table
 - F boundingbox
 - F boxtomp
 - F draw
 - F fill
 - F maxbounds
 - F output
 - F paths
 - F widthline
 - F zeroline
- names** data table
- nulldata** data table
- privateoffsets** table
 - B keepnames
 - N mathbase
 - N mathextrabase
 - N textbase
 - N textextrabase
- protrusions** data table
- readers** table
 - F afm
 - F check_lua
 - F check_tfm
 - F lua
 - F ofm

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

functions (context)

dummy function

graphics (context)

backgrounds table

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

bitmaps table

- F flush
- F new

F placeholder

F tocontext

identifiers table

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

identify function

gzip (extra lua)

compress function
compressed function
decompress function

load function
save function
suffix function

images (context)

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

 B art
 B bleed
 B crop

 B media
 B none
 B trim

totable function
types table

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

wrap function

interactions (context)

attachments data table

fields table

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

general table

- F getidentity
- F setupidentity

help table

- F collect
- F reference
- F register

javascripts table

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

D functions

D preambles

F setpreamble

F storecode

F storepreamble

F usepreamblenow

F usescripts

linkedLists data table

pages table

- F setpagetransition
- F setupcanvas

references table

- F setcloseddocument
- F setclosepage
- F setopendocument
- F setopenpage

renderings data table

soundclips data table

interfaces (context)

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

io (basic lua)

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

job (context)

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

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

language (basic tex)

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

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

languages (context)

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

F check

T data

F disable

F enable

T enablers

B enables

F found

F load

T methods

N threshold

layouts (context)

| | | | |
|--------------------------|----------|--------------------------|-------|
| getcanvas | function | status | table |
| getpagedimensions | function | F isleftpage | |
| setupcanvas | function | F lefttorrightpageaction | |

lfs (extra lua)

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

| | |
|------------------------|---------------------|
| iswriteablefile | function |
| link | overloaded function |
| mkdir | overloaded function |
| mkdirs | function |
| modification | function |
| readlink | function |
| rmdir | overloaded function |
| setexecutable | function |
| symlink | function |
| touch | overloaded function |

libraries (context)

basiclua data table

basictex data table

builtin data table

extralua data table

extratex data table

functions data table

globals data table

lmx (context)

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

| | |
|---------------------------|----------|
| loadedfile | function |
| make | function |
| new | function |
| overloaderror | function |
| popupfile | function |
| print | function |
| pv | function |
| report | function |
| reset | function |
| result | function |
| set | function |
| show | function |
| 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 | setformatters | function |
| categories | function | setlogfile | function |
| direct | function | setmessenger | function |
| disable | function | setprocessor | function |
| enable | function | settarget | function |
| finalactions | function | settimedlog | function |
| flush | function | settranslations | function |
| loggingerrors | function | show | function |
| messenger | function | start_page_number | function |
| new | function | start_run | function |
| newline | function | starterrorlogging | function |
| poptarget | function | startfilelogging | function |
| private | table | status | function |
| F enablepagetiming | | stop_page_number | function |
| F getpagetiming | | stoperrorlogging | function |
| pushtarget | function | stopfilelogging | function |
| registerfinalactions | function | subdirect | function |
| report | function | subreport | function |
| reporter | function | texerrormessage | function |
| setformats | function | writer | function |

lpdf (context)

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

| | | | |
|------------------------------|----------|----------------------------|------------|
| N NoRotate | | F color_indirect | |
| N NoView | | formats | data table |
| N NoZoom | | frombytes | function |
| N Print | | fromeight | function |
| N Printable | | frompdfdoc | function |
| N ReadOnly | | fromsixteen | function |
| N ToggleNoView | | getcatalog | function |
| N auto | | getcompression | function |
| N hidden | | getfontname | function |
| N printable | | getfontobjectnumber | function |
| T widgets | | getinfo | function |
| N Comb | | getmatrix | function |
| N CommitOnSelChange | | getmetadata | function |
| N DoNotScroll | | getnofpages | function |
| N DoNotSpellCheck | | getpageproperties | function |
| N Edit | | getpagereference | function |
| N FileSelect | | getpagetags | function |
| N MultiLine | | getpos | function |
| N NoExport | | getversion | function |
| N NoToggleToOff | | getxformname | function |
| N Password | | graycode | function |
| N PopUp | | hasmatrix | function |
| N PushButton | | id | function |
| N Radio | | immediateobject | function |
| N RadiosInUnison | | includeimage | function |
| N ReadOnly | | injectors | table |
| N Required | | F bitmap | |
| N RichText | | F jp2 | |
| N Sort | | F jpg | |
| N file | | F png | |
| N fixed | | injectxmpinfo | function |
| N nocheck | | insertxmpinfo | function |
| N protected | | layerreference | function |
| N readonly | | limited | function |
| N required | | linearshade | function |
| N sorted | | literal | function |
| N unavailable | | majorversion | function |
| flushfonts | function | makenametree | function |
| flushgroup | function | minorversion | function |
| flushobject | function | nofpages | function |
| flushstreamfileobject | function | null | function |
| flushstreamobject | function | number | function |
| fonts | table | object | function |
| F color_direct | | objectcompresslevel | function |

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

lpeg (basic lua)

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

lua (basic tex)

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

| | |
|--------------------------|------------|
| macros | table |
| B enabled | |
| F loaded | |
| F required | |
| F reset | |
| F resolvestring | |
| F resolving | |
| F showdefinitions | |
| messages | data table |
| newindex | function |
| newtable | function |
| numbers | data table |
| registercode | function |
| registeredcodes | function |
| registerfinalizer | function |
| registername | function |
| setbytecode | function |
| setexitcode | function |
| startupfile | string |
| version | string |

luatex (context)

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

lxml (context)

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

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

math (basic lua)

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

mathematics (context)

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

md5 (extra lua)

HEX function
dec function
hex function

sum function
sumHEX function
sumhex function

metapost (context)

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

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

| | | | |
|-------------------------|----------|----------------------|----------|
| resetplugins | function | F get | |
| run | function | F reset | |
| runscript | function | F set | |
| scanparameters | function | F setfrombuffer | |
| scripterror | function | texerrors | boolean |
| scriptindex | function | texexp | function |
| setextensions | function | theclippath | function |
| setoutercolor | function | tographic | function |
| setparameterset | function | totable | function |
| settext | function | types | table |
| setvariable | function | N boolean | |
| showlog | boolean | N cmykcolor | |
| showsvgpage | function | N color | |
| simple | function | N dependent | |
| splitprescript | function | N independent | |
| startgraphic | function | N known | |
| startsvghashing | function | N numeric | |
| stopgraphic | function | N pair | |
| stopsvghashing | function | N path | |
| svformat | function | N pen | |
| svgcolorremapper | function | N picture | |
| svgfactors | table | N protodependent | |
| N cm | | N string | |
| N em | | N structured | |
| N ex | | N suffixedmacro | |
| N in | | N tokenlist | |
| N mm | | N transform | |
| N pc | | N unknownboolean | |
| N pt | | N unknownpath | |
| N px | | N unknownpen | |
| svglyphtomp | function | N unknownpicture | |
| svgshapestomp | function | N unknownstring | |
| svgshapestopdf | function | N unsuffixedmacro | |
| svgsplitcolor | function | N vacuum | |
| svgtomp | function | typesvgpage | function |
| svgtopdf | function | unload | function |
| sxsy | 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

report function

stuff function

unb64 function

unqp function

wrap function

wrapt table

 F base64

 F default

 F quoted-printable

 F text

wrp function

mp (context)

| | | | |
|-------------------|----------|-----------------------------------|----------|
| autoinject | function | direct3 | function |
| aux | table | direct4 | function |
| F boolean | | disposehash | function |
| F color | | draw | function |
| F direct | | fill | function |
| F direct1 | | flatten | function |
| F direct2 | | flush | function |
| F direct3 | | format | function |
| F direct4 | | formatted | function |
| F draw | | fprint | function |
| F fill | | fromhash | function |
| F flush | | get | table |
| F fprint | | F hashentry | |
| F integer | | graphformat | function |
| F number | | inhash | function |
| F numeric | | inject | function |
| F pair | | F boolean | |
| F pairpoints | | F cmykcolor | |
| F path | | F color | |
| F pathpoints | | F integer | |
| F points | | F number | |
| F print | | F numeric | |
| F quadruple | | F pair | |
| F quadruplepoints | | F path | |
| F quoted | | F quadruplet | |
| F size | | F string | |
| F string | | F transform | |
| F transform | | F triplet | |
| F triplet | | F whatever | |
| F tripletpoints | | integer | function |
| F vprint | | isarray | function |
| boolean | function | isobject | function |
| cleaned | function | lmt_color_functions | table |
| color | function | F shade | |
| dataset | function | F step | |
| datasets | function | lmt_contours_bitmap_get | function |
| F load | | lmt_contours_bitmap_set | function |
| dimension | function | lmt_contours_cleanup | function |
| direct | function | lmt_contours_color | function |
| direct1 | function | lmt_contours_edge_get_band | function |
| direct2 | function | lmt_contours_edge_get_cell | function |

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|--------------------------------------|----------|-----------------------------|----------|
| lmt_contours_edge_paths | function | mf_inject_blob | function |
| lmt_contours_edge_set | function | mf_map_move | function |
| lmt_contours_edge_set_by_band | function | mf_map_text | function |
| lmt_contours_edge_set_by_cell | function | mf_named_color | function |
| lmt_contours_format | function | mf_outline_text | function |
| lmt_contours_function | function | mf_save_data | function |
| lmt_contours_maxmean | function | mf_script_index | function |
| lmt_contours_maxz | function | mf_start_saving_data | function |
| lmt_contours_minmean | function | mf_stop_saving_data | function |
| lmt_contours_minz | function | mf_tb_dimensions | function |
| lmt_contours_nofvalues | function | mf_tt_dimensions | function |
| lmt_contours_nx | function | mf_tt_initialize | function |
| lmt_contours_ny | function | mode | function |
| lmt_contours_range | function | n | function |
| lmt_contours_shade_paths | function | newhash | function |
| lmt_contours_shade_set | function | number | function |
| lmt_contours_shape_paths | function | numeric | function |
| lmt_contours_start | function | pair | function |
| lmt_contours_stop | function | pairpoints | function |
| lmt_contours_value | function | path | function |
| lmt_contours_xrange | function | pathpoints | function |
| lmt_contours_yrange | function | points | function |
| lmt_function_x | function | positionanchor | function |
| lmt_mesh_set | function | positionbox | function |
| lmt_mesh_update | function | positioncurve | function |
| lmt_poisson_generate | function | positionpage | function |
| lmt_surface_do | function | positionpath | function |
| lmt_svg_include | function | positionpxy | function |
| mf_blob_add | function | positionregion | function |
| mf_blob_dimensions | function | positionwhd | function |
| mf_blob_index | function | positionxy | function |
| mf_blob_new | function | prefix | function |
| mf_blob_raw_content | function | print | function |
| mf_blob_raw_dimensions | function | processingmode | function |
| mf_blob_raw_reset | function | quadruple | function |
| mf_blob_raw_toutf | function | quadruplepoints | function |
| mf_blob_raw_wipe | function | quoted | function |
| mf_blob_size | function | report | function |
| mf_blob_width | function | scan | table |
| mf_external_figure | function | F boolean | |
| mf_finish_saving_data | function | F cmykcolor | |
| mf_formatted_text | function | F color | |
| mf_get_outline_text | function | F expression | |
| mf_graphic_text | function | F integer | |

| | | | |
|-------------|----------|-----------------------|----------|
| F next | | skip | table |
| F number | | F token | |
| F numeric | | solve | function |
| F pair | | string | function |
| F path | | systemmode | function |
| F pen | | texstr | function |
| F property | | texttextanchor | function |
| F string | | texvar | function |
| F symbol | | tohash | function |
| F token | | transform | function |
| F transform | | triplet | function |
| set | table | tripletpoints | function |
| size | function | vprint | function |

mplib (extra tex)

| | | | |
|-------------------------|----------|------------------------|---------------------|
| execute | function | inject_whatever | function |
| finder | function | new | overloaded function |
| finders | table | pen_info | function |
| F file | | propertycodes | table |
| F mpstemplate | | realtimelogging | boolean |
| finish | function | scan_boolean | function |
| getcallbackstate | function | scan_cmykcolor | function |
| getcodes | function | scan_color | function |
| getfields | function | scan_expression | function |
| gethashentries | function | scan_integer | function |
| gethashentry | function | scan_next | function |
| getstates | function | scan_number | function |
| getstatistics | function | scan_numeric | function |
| getstatus | function | scan_pair | function |
| gettype | function | scan_path | function |
| gettypes | function | scan_pen | function |
| inject_boolean | function | scan_property | function |
| inject_cmykcolor | function | scan_string | function |
| inject_color | function | scan_symbol | function |
| inject_integer | function | scan_token | function |
| inject_number | function | scan_transform | function |
| inject_numeric | function | showcontext | function |
| inject_pair | function | skip_token | function |
| inject_path | function | solve_path | function |
| inject_string | function | version | function |
| inject_transform | function | | |

noads (context)

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

node (basic tex)

| | | |
|------------------------------|----------|----------------------|
| check_discretionaries | function | F getdepth |
| check_discretionary | function | F getdirection |
| copy | function | F getdisc |
| copy_list | function | F getexpansion |
| count | function | F getfam |
| current_attributes | function | F getfield |
| dimensions | function | F getfont |
| direct | table | F getglue |
| F addmargins | | F getglyphdata |
| F addxoffset | | F getglyphdimensions |
| F addxymargins | | F getheight |
| F addyoffset | | F getid |
| F check_discretionaries | | F getindex |
| F check_discretionary | | F getkern |
| F copy | | F getkerndimension |
| F copy_list | | F getlanguage |
| F copy_only | | F getleader |
| F count | | F getlist |
| F current_attributes | | F getnext |
| F dimensions | | F getnormalizedline |
| F effective_glue | | F getnucleus |
| F end_of_math | | F getoffsets |
| F exchange | | F getoptions |
| F fields | | F getorientation |
| F find_attribute | | F getparstate |
| F find_attribute_range | | F getpenalty |
| F find_node | | F getpost |
| F first_glyph | | F getpre |
| F flatten_discretionaries | | F getprev |
| F flush_list | | F getproperty |
| F flush_node | | F getreplace |
| F free | | F getscales |
| F get_attribute | | F getscript |
| F get_attributes | | F getshift |
| F get_properties_table | | F getstate |
| F get_synctex_fields | | F getsub |
| F getattributelist | | F getsubpre |
| F getboth | | F getsubtype |
| F getbox | | F getsup |
| F getchar | | F getsuppre |
| F getdata | | F gettotal |

| | |
|------------------------|--------------------|
| F getwhd | F setattributelist |
| F getwidth | F setboth |
| F getxscale | F setbox |
| F getxyscales | F setchar |
| F getyscale | F setdata |
| F has_attribute | F setdepth |
| F has_dimensions | F setdirection |
| F has_field | F setdisc |
| F has_glyph | F setexpansion |
| F has_glyph_option | F setfam |
| F hpack | F setfield |
| F hyphenating | F setfont |
| F id | F setglue |
| F ignore_math_skip | F setglyphdata |
| F insert_after | F setheight |
| F insert_before | F setindex |
| F is_char | F setkern |
| F is_direct | F setlanguage |
| F is_glyph | F setleader |
| F is_next_char | F setlink |
| F is_next_glyph | F setlist |
| F is_node | F setnext |
| F is_prev_char | F setnucleus |
| F is_prev_glyph | F setoffsets |
| F is_valid | F setoptions |
| F is_zero_glue | F setorientation |
| F kerning | F setpenalty |
| F last_node | F setpost |
| F length | F setpre |
| F ligaturing | F setprev |
| F make_extensible | F setproperty |
| F migrate | F setreplace |
| F mlist_to_hlist | F setscales |
| F naturalwidth | F setscript |
| F new | F setshift |
| F protect_glyph | F setsplit |
| F protect_glyphs | F setstate |
| F protrusion_skippable | F setsub |
| F rangedimensions | F setsubpre |
| F remove | F setsubtype |
| F reverse | F setup |
| F set_attribute | F setsuppre |
| F set_attributes | F setttotal |
| F set_synctex_fields | F setwhd |

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|--------------------------------|----------|-----------------------------|----------|
| F setwidth | | getproperty | function |
| F show | | has_attribute | function |
| F slide | | has_field | function |
| F start_of_par | | has_glyph | function |
| F subtypes | | hpack | function |
| F tail | | hyphenating | function |
| F todirect | | id | function |
| F tonode | | insert_after | function |
| F tostring | | insert_before | function |
| F tovaliddirect | | instock | function |
| F traverse | | inuse | function |
| F traverse_char | | is_node | function |
| F traverse_content | | is_zero_glue | function |
| F traverse_glyph | | kerning | function |
| F traverse_id | | last_node | function |
| F traverse_list | | length | function |
| F type | | ligaturing | function |
| F types | | make_extensible | function |
| F unprotect_glyph | | mlist_to_hlist | function |
| F unprotect_glyphs | | new | function |
| F unset_attribute | | protect_glyph | function |
| F unset_attributes | | protect_glyphs | function |
| F usedlist | | protrusion_skippable | function |
| F uses_font | | rangedimensions | function |
| F values | | remove | function |
| F vertical_break | | set_attribute | function |
| F vpack | | set_glue | function |
| F write | | setfield | function |
| F xscaled | | setproperty | function |
| F yscaled | | show | function |
| effective_glue | function | slide | function |
| end_of_math | function | subtypes | function |
| family_font | function | tail | function |
| fields | function | tostring | function |
| find_attribute | function | traverse | function |
| first_glyph | function | traverse_id | function |
| flatten_discretionaries | function | type | function |
| flush_list | function | types | function |
| flush_node | function | unprotect_glyph | function |
| free | function | unprotect_glyphs | function |
| get_attribute | function | unset_attribute | function |
| get_glue | function | usedlist | function |
| get_properties_table | function | uses_font | function |
| getfield | function | values | function |

vpack
write

function
function

nodes (context)

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

| | | | |
|--------------------------------|----------|------------------------|------------|
| F cleanuppage | | is_zero_glue | function |
| F export | | kerncodes | data table |
| F finalizebox | | kerning | function |
| F flatten | | keys | table |
| F flattenline | | T Whatsit | |
| F migrate | | last_node | function |
| F protectglyphs | | leftmarginwidth | function |
| F show | | length | function |
| F stripping | | ligaturing | function |
| F textbackgrounds | | linefillers | table |
| F unprotectglyphs | | D data | |
| has_attribute | function | F define | |
| has_field | function | F enable | |
| has_glyph | function | F filler | |
| hpack | function | F handler | |
| hyphenating | function | lines | table |
| idsandsubtypes | function | T boxed | |
| idstostring | function | F addlinenumbers | |
| injections | table | F register | |
| F copy | | F setup | |
| F getligaindex | | D data | |
| F getthreshold | | F finalize | |
| F handler | | F number | |
| F installgetspaceboth | | link | function |
| F installnewkern | | linked | function |
| F isspace | | list | function |
| F keepcounts | | listcodes | data table |
| F reset | | listtoutf | function |
| F resetcounts | | literalvalues | data table |
| F setcursive | | locate | function |
| F setkern | | markers | table |
| F setligaindex | | F get | |
| F setmark | | mathcodes | data table |
| F setmove | | maxboxwidth | function |
| F setposition | | migrations | table |
| F setspacekerns | | F setinserts | |
| insert_after | function | F setmarks | |
| insert_before | function | mlist_to_hlist | function |
| insert_list_after | function | new | function |
| installattributehandler | function | noadcodes | data table |
| is_direct | function | noadoptions | table |
| is_display_math | function | N axis | |
| is_node | function | N exact | |
| is_nut | function | N left | |

| | |
|---------------------------|----------------------|
| N middle | F flush |
| N no_axis | F flush_components |
| N right | F flush_list |
| N set | F flush_node |
| N unused_1 | F free |
| N unused_2 | F fullhpack |
| nodecodes | F get_components |
| nopts | F getattr |
| nuts | F getattribute |
| F addmargins | F getattributelist |
| F addxoffset | F getattrlist |
| F addxymargins | F getattrs |
| F addyoffset | F getboth |
| F append | F getbox |
| F apply | F getboxglue |
| F applyvisuals | F getchar |
| F check_discretionaries | F getcomponents |
| T colors | F getdata |
| F set | F getdepth |
| F concat | F getdirection |
| F copy | F getdisc |
| F copy_list | F getdiscretionary |
| F copy_no_components | F getexpansion |
| F copy_node | F getfam |
| F copy_only | F getfield |
| F copy_only_glyphs | F getfont |
| F copy_properties | F getglue |
| F copyvisual | F getglyphdata |
| F count | F getglyphdimensions |
| F count_components | F getheight |
| F countall | F getid |
| F current_attributes | F getkern |
| F delete | F getkerndimension |
| F dimensions | F getlang |
| F dirdimensions | F getlanguage |
| F effective_glue | F getleader |
| F end_of_math | F getlist |
| F exchange | F getnext |
| F find_attribute | F getnormalizedline |
| F first_glyph | F getnucleus |
| F firstcharacter | F getoffsets |
| F firstcharinbox | F getoptions |
| F firstglyph | F getorientation |
| F flatten_discretionaries | F getpenalty |
| data table | |
| function | |
| table | |

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|---------------------|---------------------|
| F getpost | F isprevglyph |
| F getpre | F kerning |
| F getprev | F last_node |
| F getprop | F leftmarginwidth |
| F getreplace | F length |
| F getruledata | F ligaturing |
| F getscales | F link |
| F getscript | F linked |
| F getshift | F locate |
| F getstate | F migrate |
| F getsub | F mlist_to_hlist |
| F getsubpre | F nestedtracedslide |
| F getsubtype | F new |
| F getsup | T pool |
| F getsuppre | F accent |
| F getsurround | F baselineskip |
| F getsynctexfields | F boundary |
| F gettotal | F choice |
| F getvalue | F cleanup |
| F getwhd | F delim |
| F getwidth | F delimiter |
| F getxscale | F direction |
| F getxyscales | F directliteral |
| F getyscale | F disc |
| F has_attribute | F emptyrule |
| F has_dimensions | F fence |
| F has_field | F fontkern |
| F has_glyph | F fraction |
| F has_glyph_option | F glue |
| F hpack | F gluespec |
| F hyphenating | F glyph |
| F insert_after | F hlist |
| F insert_before | F indentskip |
| F insert_list_after | F italicckern |
| F is_display_math | F kern |
| F is_node | F latelua |
| F is_nut | F leader |
| F is_zero_glue | F lefthangskip |
| F ischar | F leftmarginkern |
| F isdone | F leftskip |
| F isglyph | F lineskip |
| F isnextchar | F literal |
| F isnextglyph | F mathchar |
| F isprevchar | F mathtextchar |

| | |
|------------------------|--------------------|
| F negatedglue | F replace |
| F noad | F reverse |
| F originliteral | F rightmarginwidth |
| F outlinerule | T rules |
| F pageliteral | T ruleactions |
| F penalty | F box |
| F radical | F draw |
| F rawliteral | F fill |
| F register | F mp |
| F restore | F stroke |
| F righthangskip | F userrule |
| F rightmarginkern | F set_attribute |
| F rightskip | F set_components |
| F rule | F setattr |
| F save | F setattribute |
| F savepos | F setattributelist |
| F setmatrix | F setattributes |
| F setstate | F setattrlist |
| F shrink | F setattrs |
| F startrotation | F setboth |
| F stock | F setbox |
| F stretch | F setboxglue |
| F subbox | F setchar |
| F submlist | F setcomponents |
| F temp | F setdata |
| F usage | F setdepth |
| F userdefined | F setdirection |
| T userids | F setdisc |
| F usernode | F setdiscretionary |
| F userrule | F setexpansion |
| F vlist | F setfam |
| F wordboundary | F setfield |
| F prepend | F setfont |
| F processranges | F setglue |
| F processwords | F setglyphdata |
| F protect_glyph | F setheight |
| F protect_glyphs | F setkern |
| F protrusion_skippable | F setlang |
| F rangedimensions | F setlanguage |
| F rawprop | F setleader |
| F reference | F setlink |
| F rehpick | F setlist |
| F remove | F setnext |
| F repackhlist | F setnucleus |

| | |
|----------------------|--------------------|
| F setoffsets | F tosequence |
| F setoptions | F toString |
| F setorientation | F tracedslide |
| F setparproperty | F traverse |
| F setpenalty | F traverse_char |
| F setpost | F traverse_content |
| F setpre | F traverse_glyph |
| F setprev | F traverse_id |
| F setprop | F traverse_list |
| F setreplace | T traversers |
| F setruledata | F boundary |
| F setscales | F char |
| F setscript | F content |
| F setshift | F dir |
| F setsplit | F disc |
| F setstate | F glue |
| F setsub | F glyph |
| F setsubpre | F hlist |
| F setsubtype | F list |
| F setup | F next |
| F setsuppre | F node |
| F setsurround | F vlist |
| F setsynctexfields | F whatsit |
| F setunsetattributes | T typesetters |
| F setvalue | F tohbox |
| F setvisual | F tohpack |
| F setvisuals | F tonodes |
| F setwhd | F to vbox |
| F setwidth | F to vpack |
| F show | F unprotect_glyph |
| F slide | F unprotect_glyphs |
| F somepenalty | F unset_attribute |
| F somespace | F unset_attributes |
| F splitbox | F unsetattribute |
| F start_of_par | F unsetattributes |
| F striprange | F untracedslide |
| F tail | F usedlist |
| F takeattr | F uses_font |
| F takebox | F vianodes |
| F takelist | F vianuts |
| F theprop | F vpack |
| F tonode | F write |
| F tonodes | F xscaled |
| F tonut | F yscaled |

| | | | |
|-------------------------|------------|-----------------------------|------------|
| packlist | function | F tracer | |
| parcodes | data table | properties | table |
| penaltycodes | data table | T data | |
| plugindata | table | protect_glyph | function |
| F finalizer | | protect_glyphs | function |
| F initializer | | protrusion_skippable | function |
| S name | | pts | function |
| T namespace | | radicalcodes | data table |
| N attribute | | rangedimensions | function |
| D data | | reference | function |
| F enable | | references | table |
| F handler | | N attribute | |
| F register | | T done | |
| D registered | | F handler | |
| D values | | T stack | |
| F processor | | rehpack | function |
| points | function | remove | function |
| pool | table | repackhlist | function |
| F baselineskip | | replace | function |
| F cleanup | | report | function |
| F directliteral | | rightmarginwidth | function |
| F glyph | | rulecodes | data table |
| F hlist | | rules | table |
| F latelua | | D data | |
| F lineskip | | F define | |
| F literal | | F enable | |
| F originliteral | | F handler | |
| F register | | F process | |
| F restore | | F userrule | |
| F rule | | serialize | function |
| F save | | serializebox | function |
| F savepos | | set_attribute | function |
| F setmatrix | | setattr | function |
| F stock | | setattribute | function |
| F usage | | setattributes | function |
| F vlist | | setboth | function |
| prepend | function | setbox | function |
| print | function | setboxtonaturalwd | function |
| processors | table | setchar | function |
| F contribute_filter | | setfield | function |
| B enabled | | setfont | function |
| F hpack_filter | | setleader | function |
| F post_linebreak_filter | | setlink | function |
| F pre_linebreak_filter | | setlist | function |

| | | | |
|-----------------------------|------------|-----------------------|----------|
| setnext | function | F showactions | |
| setprev | function | F table | |
| setunsetattributes | function | tobasepoints | function |
| shifts | table | tocentimeters | function |
| D data | | tociceros | function |
| F define | | todidots | function |
| F enable | | todimen | function |
| F handler | | toinches | function |
| showboxes | function | tomillimeters | function |
| showlist | function | tonode | function |
| showsimplelist | function | tonodes | function |
| skipcodes | data table | tonut | function |
| slide | function | topicas | function |
| snapshots | table | topoints | function |
| F getsamples | | toscaledpoints | function |
| F resetsamples | | tosequence | function |
| F takesample | | tostring | function |
| somepenalty | function | totable | function |
| somespace | function | totree | function |
| splitbox | function | toutf | function |
| start_of_par | function | tracers | table |
| stripdiscretionaries | function | T colors | |
| stripping | table | F reset | |
| T glyphs | | F set | |
| F set | | F setlist | |
| subtypes | data table | F directions | |
| tail | function | F fontchar | |
| takeattr | function | T frequencies | |
| takebox | function | F register | |
| tasks | table | T pool | |
| F actions | | T nodes | |
| F appendaction | | F rule | |
| F disableaction | | T nuts | |
| F disablegroup | | F rule | |
| F enableaction | | F resetproperties | |
| F enablegroup | | F rule | |
| F freeze | | F setlist | |
| F freezegroup | | F setproperties | |
| F new | | F start | |
| F prependaction | | T steppers | |
| F removeaction | | F check | |
| F replaceaction | | F codes | |
| F restart | | F features | |
| F setaction | | F font | |

| | | | |
|--------------------|----------|-------------------------|------------|
| F glyphs | | unprotect_glyph | function |
| F message | | unprotect_glyphs | function |
| F messages | | unset_attribute | function |
| F nofsteps | | unsetattribute | function |
| F register | | unsetattributes | function |
| F reset | | usedlist | function |
| F start | | uses_font | function |
| F stop | | vianodes | function |
| F stop | | vianuts | function |
| T transparencies | | visualizebox | function |
| F reset | | visualizers | table |
| F set | | F attribute | |
| F setlist | | T attributes | |
| traverse | function | F box | |
| traverse_id | function | F handler | |
| typesetters | table | F markfonts | |
| F hbox | | F register | |
| F hpack | | F setfont | |
| F tohbox | | F setlayer | |
| F tohpack | | F setruledglyph | |
| F tonodes | | F setvisual | |
| F toinbox | | vpack | function |
| F tovpack | | whatsitcodes | data table |
| F vpack | | write | function |

number (context)

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

objects (context)

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

optional (context)

curl table

F escape
F fetch
F getversion
F initialize
F unescape

ghostscript table

F execute
F initialize

graphicsmagick table

F execute
F initialize

kpse table

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

loaded table

mujs table

F dofile
F execute
F initialize

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

mysql table

F close
F execute
F getmessage
F initialize
F open

postgress table

F close
F execute
F getmessage
F initialize
F open

sqlite table

F close
F execute
F getmessage
F initialize
F open

zint table

F execute
F initialize

os (basic lua)

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

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

package (basic lua)

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

pagebuilders (context)

columnsets table

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

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

injections table

F flushafter
F flushbefore
F save

mixedcolumns table

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

pdf (basic tex)

`immediateobj` function

pdf (extra tex)

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

physics (context)

units table

F registerunit

D tables

pngdecode (extra tex)

applyfilter function

expand function

interlace function

splitmask function

tocmyk function

publications (context)

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

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

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

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

regimes (context)

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

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

resolvers (context)

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

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

sandbox (context)

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

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

scripts (context)

autofontfeature table

F disable
F enable
F handler

colors data table

decomposehangul function

defaults table

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

getdata function

getinjector function

getsplitter function

getstatus function

handlers data table

hash table

injectors data table

inserters table

F nobreakspace_after

F nobreakspace_before

F space_after

F space_before

F zerowidthspace_after

F zerowidthspace_before

installdataset function

installmethod function

numbertodataset data table

numbertohandler data table

reset function

set function

setstatus function

splitters data table

set (context)

contains function

create function

tolist function

tonumber function

totable function

sha2 (extra lua)

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

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

sio (extra lua)

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

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

socket (extra lua)

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

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

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

sorters (context)

basicsorter function

comparers table

F basic

constants table

S defaultdigits

S defaultlanguage

S defaultmethod

N digitmaximum

N digitoffset

N ignoredoffset

N replacementoffset

T validmethods

B ch

B mc

B mm

B pc

B pm

B uc

B zc

B zm

definitions data table

firstofsplit function

packch function

packuc function

replacementlist function

setlanguage function

sort function

splitters table

F utf

strip function

tracers data table

update function

statistics (context)

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

| | |
|----------------------|----------|
| resettiming | function |
| runtime | function |
| savefmtstatus | function |
| show | function |
| showmemory | function |
| showusage | function |
| starttiming | function |
| stoptiming | function |
| threshold | number |
| timed | function |
| tracefunction | function |

status (basic tex)

| | |
|------------------------------|----------|
| getbufferstate | function |
| getcallbackstate | function |
| getconstants | function |
| geterrorlinestate | function |
| geterrorstate | function |
| getexpandstate | function |
| getextrastate | function |
| getfilestate | function |
| getfontstate | function |
| gethalferrorlinestate | function |
| gethashstate | function |
| getinputstate | function |
| getlanguagestate | function |
| getlookupstate | function |
| getluastate | function |

| | |
|--------------------------|----------|
| getmarksstate | function |
| getneststate | function |
| getnodestate | function |
| getparameterstate | function |
| getpoolstate | function |
| getreadstate | function |
| getsavestate | function |
| getsparsestate | function |
| getstringstate | function |
| gettexstate | function |
| gettokenstate | function |
| getwarningstate | function |
| iocodes | table |
| list | function |
| resetmessages | function |

storage (context)

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

streams (context)

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

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

string (basic lua)

| | | | |
|-----------------------|----------|---------------------------|----------|
| autodouble | function | nspace | table |
| autosingle | function | optionalquoted | function |
| booleanstring | function | pack | function |
| byte | function | packsize | function |
| bytepairs | function | quote | function |
| bytes | function | quoted | function |
| bytetable | function | rep | function |
| char | function | replacenewlines | function |
| characterpairs | function | reverse | function |
| characters | function | split | function |
| checkedsplit | function | splitlines | function |
| collapsesaces | function | splitup | function |
| containsws | function | strip | function |
| count | function | sub | function |
| dawson | function | tformat | function |
| dump | function | toHEX | function |
| erf | function | toboollean | function |
| erfc | function | tobytes | function |
| erfcx | function | tocontext | function |
| erfi | function | todec | function |
| escapedpattern | function | todimen | function |
| escapedquotes | function | tohex | function |
| explode | function | tonodes | function |
| f6 | function | topattern | function |
| find | function | totable | function |
| format | function | tounicode16 | function |
| formatter | function | toutf | function |
| formatters | function | toutf32 | function |
| fullstrip | function | toutf8 | function |
| gmatch | function | tracedchar | function |
| gsub | function | tracedchars | table |
| is_boolean | function | unpack | function |
| is_empty | function | unquote | function |
| itself | function | unquoted | function |
| len | function | upper | function |
| limit | function | utfcharacter | function |
| linetable | function | utfcharacters | function |
| longtostring | function | utfcharacterstable | function |
| lower | function | utflength | function |
| match | function | utfpadd | function |
| nspace | function | utfpadding | function |

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

structures (context)

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

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

F listindex
D numbers
F ordered
F postpone
F resetpostponed
F restore
F save
F setstate
D states
F store

pages table

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

references table

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

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

- F registerpage
- F reset
- D runners
- F set
- F setandgetattribute
- F setcomponent
- F setinternalreference
- F setlinkmethod
- F setnextinternal
- F setnextorder
- F setreferencerealpage
- D specials
- F splitcomponent
- F splitprefix
- F splitreference
- F synchronizepage
- T testrunners
 - F inner
 - F special
 - F special operation
 - F special operation with arguments
- T testspecials
 - F deltapage
 - F i
 - F internal
 - F page
 - F realpage
 - F section
 - F userpage
- D tobereferred
- D tobesaved
- D tracedpages
- T urls
 - T data
 - F define
 - F found
 - F get
 - F untex
- D usedinternals
- D usedviews
- F valid

registers

- F analyze
- D collected

table

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

sections

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

table

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

F setregister

F setsorting

F setsynonym

F settablecell

F settabulatecell

F settagdelimitedsymbol

F settagsubsentencesymbol

F setupexport

F setuserproperties

D specifications

F start

F stop

F strip

D taglist

T usewithcare

T images

table (basic lua)

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

tex (basic tex)

| | | | |
|----------------------------------|------------|-----------------------------|----------|
| attribute | table | getcount | function |
| badness | function | getdelcode | function |
| box | table | getdelcodes | function |
| boxresources | table | getdimen | function |
| F getbox | | getdimensionvalue | function |
| F getdimensions | | geterrorvalues | function |
| F save | | getflagvalues | function |
| F use | | getfontoffamily | function |
| catcode | table | getfrozenparvalues | function |
| chardef | function | getglue | function |
| conditionals | data table | getglyphdata | function |
| constants | data table | getglyphoptionvalues | function |
| count | table | getglyphscript | function |
| cprint | function | getglyphstate | function |
| ctdcatcodes | number | getgroupvalues | function |
| ctxcatcodes | number | gethelptext | function |
| definefont | function | gethyphenationvalues | function |
| delcode | table | getintegervalue | function |
| dimen | table | getinteraction | function |
| dimensiondef | function | getiovalues | function |
| directives | data table | getlargestusedmark | function |
| enableprimitives | function | getlccode | function |
| error | function | getlinedir | function |
| experiments | data table | getlist | function |
| extraprimitives | function | getlocallevel | function |
| fatalerror | function | getmark | function |
| flagcodes | data table | getmath | function |
| fontidentifier | function | getmathcode | function |
| fontname | function | getmathcodes | function |
| forcehmode | function | getmathdir | function |
| forcesynctexline | function | getmodevalues | function |
| forcesynctextag | function | getmuglue | function |
| fprint | function | getmuskip | function |
| frozenparcodes | data table | getnest | function |
| get | function | getnormalizevalues | function |
| getattribute | function | getoutputactive | function |
| getbox | function | getpagesate | function |
| getboxdir | function | getpardir | function |
| getboxresourcebox | function | getprimitiveorigins | function |
| getboxresourcecdimensions | function | getsfcode | function |
| getcatcode | function | getskip | function |

| | | | |
|-------------------------|---------------------|--------------------------|------------|
| getsynctexline | function | muglue | table |
| getsynctexmode | function | muskip | table |
| getsynctextag | function | nest | table |
| gettextdir | function | nilcatcodes | number |
| gettoks | function | normalizecodes | data table |
| getuocode | function | notcatcodes | number |
| glue | table | number | function |
| glyphoptioncodes | data table | poplocal | function |
| groupcodes | data table | primitives | function |
| hashtokens | function | print | function |
| hyphenationcodes | data table | prtcategories | number |
| ifs | data table | pushlocal | function |
| inimatcodes | number | quitlocal | function |
| integerdef | function | quittoks | function |
| isattribute | function | resetparagraph | function |
| isbox | function | rlncatcodes | number |
| iscount | overloaded function | romannumeral | function |
| isdefined | function | round | function |
| isdimen | overloaded function | runlocal | function |
| isglue | function | runtoks | function |
| ismuglue | function | saveboxresource | function |
| ismuskip | overloaded function | scale | function |
| isprintable | function | scantoks | function |
| isskip | overloaded function | set | function |
| istoken | function | setattribute | function |
| istoks | function | setbox | function |
| lastnodetype | function | setboxdir | function |
| lccode | table | setcatcode | function |
| linebreak | function | setcount | function |
| lists | table | setdelcode | function |
| luacatcodes | number | setdimen | function |
| magicconstants | table | setdimensionvalue | function |
| N maxdimen | | setglue | function |
| N running | | setglyphdata | function |
| N trueinch | | setglyphscript | function |
| mathchardef | function | setglyphstate | function |
| mathcode | table | setintegervalue | function |
| modelevels | table | setinteraction | function |
| N horizontal | | setlccode | function |
| N math | | setlinedir | function |
| N unset | | setlist | function |
| N vertical | | setmath | function |
| modes | data table | setmathcode | function |
| mprint | function | setmathdir | function |

| | | | |
|-----------------------|----------|-------------------------|------------|
| setmuglue | function | systemmodes | data table |
| setmuskip | function | takebox | function |
| setnest | function | texcatcodes | number |
| setpardir | function | toks | table |
| setsfcode | function | tonumber | function |
| setskip | function | toscaled | function |
| setsynctexline | function | tpacatcodes | number |
| setsynctexmode | function | tpbcatcodes | number |
| setsynctextag | function | tprint | function |
| settexmdir | function | trackers | data table |
| settoks | function | triggerbuildpage | function |
| setuccode | function | txtcatcodes | number |
| sfcode | table | type | function |
| shipout | function | uccode | table |
| showcontext | function | uprint | function |
| skip | table | useboxresource | function |
| sp | function | vrbcacodes | number |
| splitbox | function | write | function |
| sprint | function | | |

texconfig (basic tex)

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

texio (basic tex)

closeinput function

terminal function

write function

write_nl function

token (basic tex)

| | | | |
|-----------------------|----------|------------------------------|----------|
| accessors | table | get_tok | function |
| F active | | get_tolerant | function |
| F cmd | | getcommandid | function |
| F cmdchrsc | | getcommandvalues | function |
| F cmdname | | getfunctionvalues | function |
| F command | | getprimitives | function |
| F csname | | gobble | function |
| F expandable | | gobble_dimen | function |
| F frozen | | gobble_integer | function |
| F index | | is_defined | function |
| F name | | is_next_char | function |
| F protected | | is_token | function |
| F range | | new | function |
| create | function | peek_next | function |
| expand | function | peek_next_char | function |
| expand_macro | function | peek_next_expanded | function |
| future_expand | function | pop_macro | function |
| get_active | function | push_macro | function |
| get_cmdchrsc | function | put_back | function |
| get_cmdname | function | put_next | function |
| get_command | function | save_lua | function |
| get_csname | function | scan_argument | function |
| get_cstoken | function | scan_box | function |
| get_dimension | function | scan_cardinal | function |
| get_expandable | function | scan_char | function |
| get_fields | function | scan_cmdchr | function |
| get_flags | function | scan_cmdchr_expanded | function |
| get_frozen | function | scan_code | function |
| get_id | function | scan_csname | function |
| get_immutable | function | scan_delimited | function |
| get_index | function | scan_dimen | function |
| get_instance | function | scan_dimen_argument | function |
| get_integer | function | scan_float | function |
| get_macro | function | scan_glue | function |
| get_meaning | function | scan_integer | function |
| get_noaligned | function | scan_integer_argument | function |
| get_parameters | function | scan_key | function |
| get_permanent | function | scan_keyword | function |
| get_primitive | function | scan_keyword_cs | function |
| get_protected | function | scan_letters | function |
| get_range | function | scan_luacardinal | function |

| | | | |
|---------------------------|----------|---------------------------|----------|
| scan_luainteger | function | scan_value | function |
| scan_luanumber | function | scan_word | function |
| scan_next | function | serialize | function |
| scan_next_char | function | set_char | function |
| scan_next_expanded | function | set_dimension | function |
| scan_real | function | set_integer | function |
| scan_scale | function | set_lua | function |
| scan_skip | function | set_macro | function |
| scan_string | function | skip_next | function |
| scan_token | function | skip_next_expanded | function |
| scan_token_code | function | type | function |
| scan_tokenlist | function | undefine_macro | function |
| scan_toks | function | | |

tokens (context)

astable function

bits table

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

cache table

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

U loadfoundtypescriptfile

U resetctxscanner

U rlap

U secondoftwoarguments

U setfalsevalue

U setsectionblock

U setupsystem

U startcolumns

U starttabulate

U starttitle

U startxtitle

U stopcolumns

U stoptabulate

U stoptitle

U stopxtitle

U texsetup

U xmlw

commands data table

compile function

constant function

converters table

S toboolean

S todimen

S toglue

S tonumber

S toString

create function

defined function

flags function

getinteger function

getters table

F box

F count

F cstoken

F dimen

F glue

F macro

F meaning

F skip

F token

isdefined function

istoken function
new function
pickup function
popmacro function
presets table

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

pushmacro function
scanners table

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

F integer
F integerargument
F ischar
F key
F keyword
F keywordcs
F letters
F list
F luacardinal
F luainteger
F luanumber
F lxmlid
F next
F nextexpanded
F number
F optional
F peek
F peekchar
F peekexpanded
F real
F scanclose
F scanopen
F skip
F skipexpanded
F string
F table
F token
F tokencode
F tokenlist
F tokens
F toks
F value
F vbox
F verbatim
F vtop
F whd
F word

setinteger function

setters table

F box
F char
F count
F dimen
F glue

| | |
|------------------------|-----------------------|
| F lua | F scandimension |
| F macro | F scanglue |
| F skip | F scangluespec |
| shortcuts table | F scangluevalues |
| T bits | F scanhash |
| N active | F scanhbox |
| N alignment | F scaninteger |
| N begingroup | F scanintegerargument |
| N character | F scankeyword |
| N close | F scankeywordcs |
| N comment | F scanletters |
| N endgroup | F scanlist |
| N endofline | T scanners |
| N escape | F argument |
| N ignore | F argumentasis |
| N invalid | F array |
| N letter | F boolean |
| N mathshift | F box |
| N open | F bracketed |
| N other | F bracketedasis |
| N parameter | F cardinal |
| N space | F char |
| N subscript | F cmdchr |
| N superscript | F cmdchrexpanded |
| N whitespace | F code |
| N close | F conditional |
| F inspect | F count |
| N open | F csname |
| F report | F delimited |
| F scanargument | F dimen |
| F scanargumentasis | F dimenargument |
| F scanarray | F dimension |
| F scanboolean | F float |
| F scanbox | F glue |
| F scanbracketed | F gluespec |
| F scanbracketedasis | F gluevalues |
| F scancardinal | F hash |
| F scanclose | F hbox |
| F scancode | F integer |
| F scanconditional | F integerargument |
| F scancsname | F ischar |
| F scandelimited | F key |
| F scandimen | F keyword |
| F scandimenargument | F keywordcs |

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

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

tracers (context)

printerror function

printwarning function

showlines function

trackers (context)

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

typesetters (context)

alignments table

F handler
F set

breakpoints table

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

cases table

T actions
F handler
F register
F set

characteralign table

F handler
F resetcharacteralign
F setcharacteralign

characters table

F handler
T methods
F replacensp
F replacenspaces

checkers table

F handler
F reset
F set

cleaners table

F handler
F set

digits table

T actions
F handler
F set

directions table

F getfences
F getglobal
F getmethod
F handler

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

firstlines table

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

fontkerns table

F handler

initials table

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

injectors table

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

italics table

F enablemath
F enabletext
F forcevariant
F handler
F reset
F set

kerns table

D factors
F handler
F keepligature
D mapping
F set
manipulators table

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

margins table
F finalhandler
F globalhandler
F localhandler
F save

marksuspects function

paragraphs table
F addanchortoline
F addtoline
F calculatedelta
F checkline
F handler
F moveinline
F set

periodkerns table
D factors
F handler
D mapping
F set

processors table
F apply

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

rubies table

F attach
F check

showsuspects function

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

F reset
F set
F setup

wrappers table

F handler

xtables table

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

updaters (context)

apply function

register function

url (context)

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

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

utf8 (basic lua)

char function
charpattern string
codepoint function

codes function
len function
offset function

utilities (context)

debugger

table

- F disable
- F 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 readcardinal1le
- F readcardinal2
- F readcardinal2le
- F readcardinal3
- F readcardinal3le
- F readcardinal4
- F readcardinal4le
- F readcardinaltable
- F readchar
- F readfixed2
- F readfixed4
- F readinteger
- F readinteger1
- F readinteger1le
- F readinteger2
- F readinteger2le
- F readinteger3
- F readinteger3le
- F readinteger4
- F readinteger4le
- F readintegertable
- F readsignedbyte
- F readstring

- F readtag
- F setposition
- F size
- F skip
- F skiplong
- F skipposition
- F skipshort
- F writebyte
- F writecardinal1
- F writecardinal1le
- F writecardinal2
- F writecardinal2le
- F writecardinal3
- F writecardinal3le
- F writecardinal4
- F writecardinal4le
- F writeinteger1
- F writeinteger1le
- F writeinteger2
- F writeinteger2le
- F writeinteger3
- F writeinteger3le
- F writeinteger4
- F writeinteger4le
- F writestring

formatters

table

- F formatcolumns
- F list
- F stripzeros

garbagecollector

table

- F check
- N criterium
- B enabled

ghostscript

table

- F convert
- F statistics

graphicmagick

table

- F convert
- F statistics

graphicsmagick

table

- F convert

lua table

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

packers table

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

parsers table

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

B leftpage

B page

B paper

B rightpage

B text

F iterator

F keq_to_hash

F listitem

F make_settings_to_hash_pattern

F mergehashes

F options_to_array

F options_to_hash

T patterns

U settings_to_array

U settings_to_hash_a

U settings_to_hash_b

U settings_to_hash_c

U settings_to_hash_d

U unittotex

F process_stripped_settings

F rfc4180splitter

F runtime

F settings_to_array

F settings_to_array_obey_fences

F settings_to_array_with_repeat

F settings_to_hash

F settings_to_hash_colon_too

F settings_to_hash_strict

F settings_to_hash_tolerant

F settings_to_numbers

F settings_to_set

F simple_hash_to_string

F splitmethod

F splitthousands

F stepper

F stripped_settings_to_array

F totime

F unittotex

F unittotxml

randomizer table

F get

F getnumber

F getseed

F popseed

- F pushseed
- F reuseseed
- F setseed
- F setseedi
- randomizers** table
- F poisson
- sequencers** table
- F appendaction
- F appendgroup
- F compile
- F disableaction
- F disablegroup
- F enableaction
- F enablegroup
- D functions
- F localize
- F new
- F nodeprocessor
- F prependaction
- F prependgroup
- F removeaction
- F 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 getsize
- F getstring
- F look
- F open
- F openstring
- F read2dot14
- F read2dot4
- F readbyte
- F readbytes
- F readbytetable
- F readcardinal
- F readcardinal1
- F readcardinal2
- F readcardinal2le
- F readcardinal3
- F readcardinal3le
- F readcardinal4
- F readcardinal4le
- F readcardinaltable
- F readchar
- F readfixed2
- F readfixed4
- F readinteger
- F readinteger1
- F readinteger2
- F readinteger2le
- F readinteger3
- F readinteger3le
- F readinteger4
- F readinteger4le
- F readintegertable
- F readsignedbyte
- F readstring
- F setposition
- F size
- F skip
- F skipbytes
- F skiplong
- F skipshort
- strings** table
- F collapse
- F collapseCrLf

- T formatters
- F add
- F new
- F newcollector
- F newrepeater
- F nice
- T striplinepatterns
 - U collapse
 - U prune
 - U prune and collapse
 - U prune and no empty
 - U prune and to space
 - U retain
 - U retain and collapse
 - U retain and no empty
- F striplines
- F striplong
- F tabtospace
- T tracers

tables table

- F accesstable
- F definedtable

- F definetable
- F encapsulate
- F insertaftervalue
- F insertbeforevalue
- F migratetable
- F removevalue
- F replacevalue

templates table

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

zipfiles table

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

visualizers (context)

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

xcomplex (extra lua)

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

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

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

xdecimal (extra lua)

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

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

xmath (extra lua)

| | |
|-----------------|----------|
| acos | function |
| acosh | function |
| asin | function |
| asinh | function |
| atan | function |
| atan2 | function |
| atanh | function |
| cbrt | function |
| ceil | function |
| copysign | function |
| cos | function |
| cosh | function |
| deg | function |
| erf | function |
| erfc | function |
| exp | function |
| exp2 | function |
| expm1 | function |
| fabs | function |
| fdim | function |
| floor | function |
| fma | function |
| fmax | function |
| fmin | function |
| fmod | function |
| frexp | function |
| gamma | function |
| hypot | function |
| inf | number |
| isfinite | function |
| isinf | function |
| isnan | function |

| | |
|------------------|----------|
| isnormal | function |
| j0 | function |
| j1 | function |
| jn | function |
| ldexp | function |
| lgamma | function |
| log | function |
| log10 | function |
| log1p | function |
| log2 | function |
| logb | function |
| modf | function |
| nan | number |
| nearbyint | function |
| nextafter | function |
| pi | number |
| pow | function |
| rad | function |
| remainder | function |
| remquo | function |
| round | function |
| scalbn | function |
| sin | function |
| sinh | function |
| sqrt | function |
| tan | function |
| tanh | function |
| tgamma | function |
| trunc | function |
| y0 | function |
| y1 | function |
| yn | function |

xml (context)

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

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

| | | | |
|------------------------------|----------|----------------------------|----------|
| inject | function | process | function |
| inject_element | function | process_attributes | function |
| inject_element_after | function | process_elements | function |
| inject_element_before | function | processattributes | function |
| injectafter | function | profiled | table |
| injectbefore | function | pure | function |
| insert | function | pushmatch | function |
| insert_element | function | raw | function |
| insert_element_after | function | registerentity | function |
| insert_element_before | function | registerns | function |
| insertafter | function | reindex | function |
| insertbefore | function | remap_name | function |
| insertcdata | function | remap_namespace | function |
| insertcomment | function | remap_tag | function |
| inspect | function | remapname | function |
| is_valid | function | remapnamespace | function |
| kind | function | remaptag | function |
| last | function | rename | function |
| lastmatch | function | renamespace | function |
| load | function | reparsedentitylpeg | userdata |
| lpath | function | replace | function |
| lpathcached | function | replace_element | function |
| lpathcalls | function | resetinjectors | function |
| lshow | function | resolvns | function |
| makestandalone | function | root | function |
| match | function | save | function |
| name | function | selection | function |
| newhandlers | function | separate | function |
| nodesettostring | function | serialize | function |
| originalload | function | serializetotext | function |
| package | function | setcdata | function |
| parent | function | setcomment | function |
| parsedentitylpeg | userdata | sethandlersfunction | function |
| pihandlers | table | setinjectors | function |
| F injector | | setProperty | function |
| F tex | | settings | function |
| placeholders | table | specialcodes | table |
| F unknown_any_entity | | S " | |
| F unknown_dec_entity | | S # | |
| F unknown_hex_entity | | S \$ | |
| popmatch | function | S % | |
| position | function | S & | |
| privatecodes | table | S ' | |
| privatetoken | function | S < | |

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

xzip (extra lua)

adler32 function
compress function
crc32 function

decompress function
expandsize function

zip (extra lua)

archives table
closearchive function

openarchive function
registeredfiles table

zlib (extra lua)

adler32 function
compress function
crc32 function

decompress function
expandsize function