

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 | document | table |
| FFISUPPORTED | 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 |
| directives | table | lua | table |

| | | | |
|------------------------|----------|------------------------|------------|
| luatex | table | scripts | table |
| lxml | table | select | function |
| math | table | set | table |
| mathematics | table | setinspector | function |
| md5 | table | setmetatable | function |
| metapost | table | sha2 | table |
| mime | table | shipbox_ref_h | number |
| moduledata | table | shipbox_ref_v | number |
| modules | table | sio | table |
| mp | function | socket | table |
| mplib | table | sorters | table |
| next | function | statistics | table |
| noads | table | status | table |
| node | table | storage | table |
| nodes | table | streams | table |
| number | table | string | table |
| objects | table | structures | table |
| optional | table | table | table |
| optionalrequire | function | tex | table |
| os | table | texconditionals | data table |
| package | table | texconfig | table |
| pagebuilders | table | texconstants | data table |
| pairs | function | texifs | data table |
| parametersets | table | texio | table |
| pcall | function | texisdefined | data table |
| pdf | table | texmodes | data table |
| pdfdecode | table | texsystemmodes | data table |
| pdfe | table | thirddata | table |
| physics | table | toboollean | function |
| pngdecode | table | todecimal | function |
| poplevellevel | function | token | table |
| print | function | tokens | table |
| publications | table | tonumber | function |
| pushleaderlevel | function | 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 |

| | | | |
|-------------|----------|--------|----------|
| utilities | table | xml | table |
| visualizers | table | xpcall | function |
| warn | function | xzip | table |
| xcomplex | table | zip | table |
| xdecimal | table | zlib | table |
| xmath | 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 hsvtogray
F hsvtorgb
F hwbtorgb
F iccprofile
F isblack
F labtorgb
F labtoxyz
N main
S model
D models
F mpcolor
F mpnamedcolor
F mpoptions
F namedcolorattributes
N none
F popset
F processcolorcomponents
F pushset
F register
D registered
F registerspotcolor
F rgb
F rgbtocmyk
F rgbtogray
F rgbtohsv
F rgbtoxyz
N selector
F setlist
F setmodel
F setpagecolormodel
D sets
F spec

| | | | |
|--------------------------|------------|-----------------------|----------|
| F spot | | F disabletriggering | |
| F spotcolorname | | F enabletriggering | |
| F spotcolorparent | | F finalize | |
| F spotcolorvalue | | F initialize | |
| B supported | | F process | |
| F toattributes | | F selective | |
| F transparencycomponents | | F simple | |
| B triggering | | F stacked | |
| F usecolors | | F stacker | |
| D valid | | system | function |
| F value | | tooverloads | function |
| D values | | transparencies | table |
| B weightgray | | N attribute | |
| F xyztolab | | D data | |
| F xyztorgb | | 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 |

viewerlayers table

N attribute
F cleanup
D data
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

codeinjections table

F boxresourcedimensions

F registerboxresource

F restoreboxresource

current string

defaults table

T codeinjections

T nodeinjections

T registrations

D tables

getcallbackstate function

included table

B context

B date

B id

B metadata

B pdf

install function

latelua function

nodeinjections table

nothing function

openout function

pdf table

T codeinjections

F addbookmarks

F analyzenormalsymbol

F analyzesymbol

F attachmentid

F bitmap

F clonefield

F copyimage

F definefield

F definefieldset

F defineviewerlayer

F embedfile

F embedimage

F enabletags

F exportformdata

F fieldsurrounding

F flushmergelayer

F getbookmarks

F getdefaultfieldvalue

F getfieldcategory

F getfieldset

F getformatoption

F getidentityvariable

F getinfo

F getpreviewfigure

F insertrenderingwindow

F jp2

F jpg

F maptag

F mergebookmarks

F mergecomments

F mergefields

F mergereferences

F mergeviewerlayers

F newimage

F png

F prerollreference

F presetsymbol

F presetsymbollist

F processrendering

F registerdocumentcloseaction

F registerdocumentopenaction

F registeredsymbol

F registerpagecloseaction

F registerpageopenaction

F registerpattern

F registersymbol

F scanimage

F setattachmentsupport

F setfieldcalculationset

F setfigurealternative

F setfigurecolorspace

F setfiguremask

F setformat

F setformsmethod

F setpagetransition

F settaggingsupport

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

builders (context)

checkparcontext function
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 paragraph_context

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 anudatta | |
| bidi | data table | T before_half | |
| blockrange | function | T before_main | |
| blocks | data table | T before_postscript | |
| casemap | table | T before_subscript | |
| categories | data table | T below_mark | |
| category | function | T consonant | |
| categorytags | data table | T dependent_vowel | |
| classifiers | table | T halant | |
| collapsed | data table | T independent_vowel | |
| combined | data table | T nukta | |
| contextname | function | T post_mark | |
| csletters | data table | T pre_mark | |
| data | data table | T ra | |
| decomposed | data table | T stress_tone_mark | |
| description | function | T twopart_mark | |
| descriptions | data table | T vowel_modifier | |
| detailtags | data table | 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_syllabe | function |
| T after_postscript | | setactivecatcodes | function |
| T after_subscript | | setlettercatcodes | function |

| | | | |
|-------------------------|------------|---------------------|------------|
| setothercatcodes | function | D commandmapping | |
| shape | function | F defineaccents | |
| shaped | function | F safechar | |
| shash | data table | F strtoutf | |
| shchars | data table | F strtoutfpattern | |
| 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 | verbosemarks | data table |
| D accentmapping | | | |

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)

cleannname function
content function
define function
is_usable function

is_valid function
read function
usecache boolean
write function

converters (context)

| | | | |
|---------------------------|----------|----------------------------|------------|
| A | function | cn-c | function |
| A:es | function | convert | function |
| A:ru | function | decimals | function |
| A:sl | function | define | function |
| AK | function | 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 | F popleaderlevel |
| converters | table | F pushleaderlevel |
| F engine | | F rule |
| F lmtx | | F simplerule |
| enable | function | F specialrule |
| gethpos | function | F updatefontstate |
| getpos | function | T Whatsit |
| getrpos | function | S name |
| getvpos | function | T json |
| helpers | table | T actions |
| install | function | F cleanup |
| instances | table | F convert |
| T default | | F finalize |
| T actions | | F initialize |
| F convert | | F outputfilename |
| F outputfilename | | F prepare |
| T flushers | | F wrapup |
| F popleaderlevel | | T flushers |
| F pushleaderlevel | | F character |
| T Whatsit | | F popleaderlevel |
| S name | | F pushleaderlevel |
| T empty | | F rule |
| T actions | | F simplerule |
| F convert | | F specialrule |
| F prepare | | F updatefontstate |
| T flushers | | T Whatsit |
| F popleaderlevel | | S name |
| F pushleaderlevel | | T lua |
| T Whatsit | | T actions |
| S name | | F cleanup |
| T js | | F convert |
| T actions | | F finalize |
| F cleanup | | F initialize |
| F convert | | F outputfilename |
| F finalize | | F prepare |
| F initialize | | F wrapup |
| F outputfilename | | T flushers |
| F prepare | | F character |
| F wrapup | | F popleaderlevel |
| T flushers | | F pushleaderlevel |
| F character | | F rule |

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

environment (context)

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

experiments (context)

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

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

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

fio (extra lua)

| | |
|--------------------------|----------|
| getposition | function |
| read2dot14 | function |
| readbytes | function |
| readbytetable | function |
| readcardinal1 | function |
| 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 | | F currentfonthasfeature |
| D initializers | | D designsizes |
| D methods | | F enhanceparameters |
| F setstate | | T enhancers |
| D states | | T afm |
| B useunicodemarks | | F apply |
| checkers | table | F patch |
| F getmissing | | T patches |
| D mapping | | F register |
| F missing | | F report |
| F placeholder | | F register |
| cid | table | F report |
| F getmap | | T otf |
| F loadfile | | F addfeature |
| collections | table | F apply |
| F checkenabled | | F enhance |
| F clonevector | | F patch |
| F define | | T patches |
| T definitions | | F register |
| F found | | F report |
| F prepare | | F register |
| F process | | F report |
| F register | | T tfm |
| F registermain | | F apply |
| F report | | F patch |
| F reset | | T patches |
| T vectors | | F register |
| constructors | table | F report |
| F addcharacters | | F register |
| F addcoreunicodes | | F report |
| F aftercopyingcharacters | | N factor |
| F applyfinalizers | | T features |
| F applymanipulators | | D afm |
| F assignmathparameters | | D otf |
| F beforecopyingcharacters | | D tfm |
| D cache | | F finalize |
| F calculatyscale | | F getfeatureaction |
| F checkedfeatures | | F getmathparameter |
| F checkedfilename | | F getprivate |
| F collectprocessors | | T handlers |
| | | T afm |

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

| | |
|-------------------------------|------------------------|
| F avar | F head |
| F cbdt | T helpers |
| F cblc | F axistofactors |
| F cff | F cleanname |
| F cff2 | F getaxisscale |
| F cffcheck | F getfactors |
| T cffencoder | F getscales |
| F checkhash | F gotodatatable |
| F cmap | F normalizedaxis |
| F colr | T normalizedaxisishash |
| F compact | F readvariationdata |
| F cpal | F reportsskippedtable |
| F ebdt | F setvariabledata |
| F eblc | F hhea |
| F ebsc | F hmtx |
| F expand | F hvar |
| F extend | F kern |
| F fvar | F loadfont |
| F gdef | F loadshapes |
| F getcomponents | F loca |
| F getinfo | F math |
| F glyf | F maxp |
| F gpos | F mvar |
| T gposhandlers | F name |
| F chainedcontext | F os/2 |
| F context | F pack |
| F cursive | F parsecharstrings |
| F extension | F post |
| F marktobase | F registerextender |
| F marktoligature | F rehash |
| F marktomark | F sbix |
| F pair | F stat |
| F single | T streamreader |
| F gsub | F close |
| T gsubhandlers | F getposition |
| F alternate | F getsizes |
| F chainedcontext | F look |
| F context | F open |
| F extension | F read2dot14 |
| F ligature | F readbyte |
| F multiple | F readbytes |
| F reversechainedcontextsingle | F readbytetable |
| F single | F readcardinal |
| F gvar | F readcardinal1 |

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

- 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

definetypface 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 | | T list | |
| D math | | F load | |
| N version | | F prepare_features | |
| enhanceid | function | F register | |
| expansions | data table | F registerpostprocessor | |
| formats | data table | F report | |
| getalternate | function | T suffixes | |
| getindices | function | handlers | table |
| getkern | function | hashes | table |
| getmultiple | function | D characters | |
| getsubstitution | function | D classes | |
| getters | table | D csnames | |
| T alternate | | D descriptions | |
| F opentype | | D dynamics | |
| T kern | | D emwidths | |
| F opentype | | D exheights | |
| F type1 | | D extensibles | |
| F type3 | | D features | |
| T multiple | | D identifiers | |
| F opentype | | D italics | |
| T substitution | | D lastmathids | |
| F opentype | | D marks | |
| goodies | table | D mathparameters | |
| D colorschemes | | D modes | |
| T data | | D originals | |
| T dejavu-math | | D parameters | |
| S author | | T processes | |
| S comment | | D properties | |
| S copyright | | D quads | |
| B initialized | | D resources | |
| T mathematics | | T setdynamics | |
| T alternates | | T shapes | |
| T dotless | | D spaces | |
| S comment | | D spacings | |
| S feature | | T streams | |
| N value | | D unicodes | |
| T kerns | | D variants | |
| T *:0x1D449 | | D xheights | |
| T bottomright | | helpers | table |
| S name | | F addextraprivate | |
| S version | | F addprivate | |
| D designsizes | | F appendcommands | |
| D filenames | | F appendcommandtable | |
| F getcompositions | | 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 registerglyphbox
- F scalecommands
- F setboxglyph
- F setboxglyphs
- 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 glyph
- F maxbounds
- 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 registerfontalternative | |
| F check_tfm | | F registerfontfamily | |
| F lua | | F textfallback | |
| F ofm | | F typeface | |
| F opentype | | F typescript | |
| F otf | | F userdata | |
| F pfb | | specifiers | table |
| D sequence | | D contextmerged | |
| F tfm | | F contextnumber | |
| F ttc | | D contextnumbers | |
| F ttf | | D contextsetups | |
| F woff | | F contexttostring | |
| reserveid | function | F definecontext | |
| select | table | F mergecontext | |
| D alternatives | | F presetcontext | |
| F bodyfont | | F registercontext | |
| D data | | F showcontext | |
| F default | | F splitcontext | |
| D defaults | | D synonyms | |
| F definefallbackfamily | | D variants | |
| F definefontfamily | | symbols | table |
| F definefontfamilypreset | | T emoji | |
| D extras | | F checked | |
| F fallback | | F resolved | |
| D fallbacks | | F uselibrary | |
| F features | | tables | table |
| F filefallback | | tracers | table |
| F fontdata | | treatments | table |
| F fontfallback | | F applyfixes | |
| F fontsynonym | | D data | |
| F goodies | | S filename | |
| F mathfallback | | F ignoredfile | |
| D methods | | F report | |
| D presets | | F trace | |
| F registerfallback | | typefaces | table |
| F registerfiles | | | |

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 getvpos
 F hangafter
 F hangindent
 F height
 F hsize
 N lastx
 N lasty
 F leftskip
 F lowerleft
 F lowerright
 F markregionbox
 F n
 F onsamepage
 F overlapping
 F p
 F page
 T pagedata
 F paragraph
 F parindent
 F position
 F r
 F region
 F registerhandlers
 F replace
 F rightskip
 F set
 F setall
 F setregionbox
 F setspec

F settobesaved
 D tobесaved
 F upperleft
 F upperright
 F used
 F whd
 F width
 F x
 F xy
 F y

register
save
structure

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

variables

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

version

function
 function
 table

table

number

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 | nofflatten | function |
| F averagecharwidth | | numbers | data table |
| F getdata | | postexhyphenchar | function |
| getdata | function | posthyphenchar | function |
| getnumber | function | preexhyphenchar | function |
| hjcounts | table | prehyphenchar | function |
| hyphenate | function | registered | data table |
| hyphenators | table | replacements | table |
| T dictionaries | | F add | |
| D featuresets | | F addlist | |
| F handler | | F handler | |
| T methods | | F set | |
| F expanded | | serializediscretionary | function |
| B none | | setexceptions | function |
| F original | | setsynonym | function |
| F tex | | showdiscretionaries | function |
| F traditional | | 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 |
| makedirs | function |
| modification | function |
| readlink | function |
| rmdir | overloaded function |
| setexecutable | function |
| symlink | function |
| touch | overloaded function |

libraries (context)

basiclua data table

basictex data table

builtin data table

extralua data table

extratex data table

functions data table

globals data table

lmx (context)

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

| | |
|---------------------------|----------|
| loadedfile | function |
| make | function |
| new | function |
| overloaderror | function |
| popupfile | function |
| print | function |
| pv | function |
| report | function |
| reset | function |
| result | function |
| set | function |
| show | function |
| 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 | |
| commentsymbols | function | F unload | |
| compresslevel | function | escaped | function |
| constant | function | finalizedocument | 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 | | lastreferredpage | function |
| N readonly | | layerreference | function |
| N required | | limited | function |
| N sorted | | linearshade | function |
| N unavailable | | literal | function |
| flushfonts | function | majorversion | function |
| flushgroup | function | makenametree | function |
| flushobject | function | minorversion | function |
| flushstreamfileobject | function | nofpages | function |
| flushstreamobject | function | null | function |
| fonts | table | number | function |
| F color_direct | | object | function |

| | | | |
|----------------------------------|----------|-----------------------------|----------|
| objectcompresslevel | function | setomitcharset | function |
| pagereference | function | setomitcidset | function |
| patternstream | function | setpageorder | function |
| pdfcolor | function | setpagetag | function |
| pdftimestamp | function | settime | function |
| pdfvimage | 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 |

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 | macros | table |
| bytedata | data table | B enabled | |
| bytdone | table | F loaded | |
| callbytecode | function | F required | |
| delay | function | F reset | |
| finalize | function | F resolvestring | |
| firstbytecode | number | F resolving | |
| flush | function | F showdefinitions | |
| flushdelayed | function | messages | data table |
| get_functions_table | function | newindex | function |
| getbytecode | function | newtable | function |
| getcurrenttime | function | numbers | data table |
| getfunctionstable | overloaded function | registercode | function |
| getpreciseseconds | function | registeredcodes | function |
| getpreciseticks | function | registerfinalizer | function |
| getruntime | function | registername | function |
| getstacktop | function | setbytecode | function |
| getstartupfile | function | setexitcode | function |
| getversion | function | startupfile | string |
| lastbytecode | number | version | string |

luatex (context)

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

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

| | |
|-------------------------|------------|
| F add | |
| F compare | |
| F flush | |
| F reset | |
| F show | |
| F sort | |
| splitid | function |
| startraw | function |
| startunesescaped | function |
| stopraw | function |
| stopunesescaped | function |
| store | function |
| strip | function |
| stripped | function |
| tag | function |
| text | function |
| tobuffer | function |
| tofile | function |
| toparameters | function |
| toverbatim | function |
| verbatim | function |
| withindex | function |
| xmltexhandler | data table |

math (basic lua)

| | | | |
|--------------------|----------|-----------------------|---------------------|
| abs | function | 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 |
| sumHEXA | function |
| sumhexa | function |

metapost (context)

| | | |
|--------------------|----------|-------------------|
| checkformat | function | N newinternal |
| cm | function | N nullary |
| codes | table | N numeric |
| N addto | | N of |
| N ampersand | | N ofbinary |
| N and | | N outertag |
| N assignment | | N parametertype |
| N atleast | | N plus_or_minus |
| N begingroup | | N primarybinary |
| N btex | | N primarydef |
| N capsule | | N 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 | | includesvgfile | function |
| N void | | installplugin | function |
| N with | | isobject | function |
| N within | | knownparameters | table |
| N write | | lastlog | string |
| colorinitializer | function | load | function |
| convert | function | maketext | function |
| currentmpx | function | metafonts | table |
| currentmpxstatus | function | metafun | table |
| defaultformat | string | F interpolate | |
| defaultinstance | string | F topath | |
| defaultmethod | string | mptopdf | table |
| directrun | function | F convertmpstopdf | |
| escaped | function | N nofconverted | |
| exectime | table | n | number |
| extensiondata | data table | nofruns | number |
| filterclippath | function | nofscriptruns | function |
| flush | function | nvformat | function |
| flushers | table | pdf literals | function |
| T pdf | | pluginactions | function |
| F flushfigure | | popformat | function |
| F startfigure | | popscriptrunner | function |
| F stopfigure | | popvariable | function |
| F textfigure | | popvariables | function |
| F tocomment | | preparetexttextsdata | function |
| flushnormalpath | 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 |
| graphic | function | resetplugins | function |
| graphic_base_pass | function | run | function |
| includesvgbuffer | function | runscript | function |

scanparameters function
scripterror function
scriptindex function
setextensions function
setoutercolor function
setparameterset function
settext function
setvariable function
showlog boolean
showsvgpage function
simple function
splitprescript function
startgraphic function
startsvghashing function
stopgraphic function
stopsvghashing function
svformat function
svgcolorremapper function
svgfactors table
 N cm
 N em
 N ex
 N in
 N mm
 N pc
 N pt
 N px
svgglyphcomp function
svgshapestop function
svgshapestopdf function
svgsplitcolor function
svgtomp function
svgtopdf function
sxsy function
tex table
 F get
 F reset

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

mime (extra lua)

b64 function

decode function

decodet table

F base64

F quoted-printable

dot function

encode function

encodet table

F base64

F quoted-printable

eol function

normalize function

qp function

qpwrp function

report function

stuff function

unb64 function

unqp function

wrap function

wrapt table

F base64

F default

F quoted-printable

F text

wrp function

mp (context)

| | | | |
|-------------------|----------|-----------------------------------|----------|
| 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 |

| | | | |
|--------------------------------------|----------|-----------------------------|----------|
| 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 | | texvar | function |
| F string | | tohash | function |
| F symbol | | transform | function |
| F token | | triplet | function |
| F transform | | tripletpoints | function |
| set | table | vprint | function |
| size | 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 getscale |
| F get_attribute | | F getscales |
| F get_attributes | | F getscript |
| F get_properties_table | | F getshift |
| F get_synctex_fields | | F getstate |
| F getattributelist | | F getsub |
| F getboth | | F getsubpre |
| F getbox | | F getsubtype |
| F getchar | | F getsup |
| F getdata | | F getsuppre |

| | |
|------------------------|----------------------|
| F gettotal | F set_attributes |
| F getwhd | F set_synctex_fields |
| F getwidth | F setattributelist |
| F getxscale | F setboth |
| F getxyscales | F setbox |
| F getyscale | F setchar |
| F has_attribute | F setdata |
| F has_dimensions | F setdepth |
| F has_field | F setdirection |
| F has_glyph | F setdisc |
| F has_glyph_option | F setexpansion |
| F hpack | F setfam |
| F hyphenating | F setfield |
| F id | F setfont |
| F ignore_math_skip | F setglue |
| F insert_after | F setglyphdata |
| F insert_before | F setheight |
| F is_char | F setindex |
| F is_direct | F setkern |
| F is_glyph | F setlanguage |
| F is_next_char | F setleader |
| F is_next_glyph | F setlink |
| F is_node | F setlist |
| F is_prev_char | F setnext |
| F is_prev_glyph | F setnucleus |
| F is_valid | F setoffsets |
| F is_zero_glue | F setoptions |
| F kerning | F setorientation |
| F last_node | F setpenalty |
| F length | F setpost |
| F ligaturing | F setpre |
| F make_extensible | F setprev |
| F migrate | F setproperty |
| F mlist_to_hlist | F setreplace |
| F naturalhsz | 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 settotal | | get_properties_table | function |
| F setwhd | | getfield | function |
| 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 |

uses_font
values
vpack

function
function
function

write

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 |

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

- F literal
- F mathchar
- F mathtextchar
- F negatedglue
- F noad
- F originliteral
- F outlinerule
- F pageliteral
- F penalty
- F radical
- F rawliteral
- F register
- F restore
- F righthangskip
- F rightmarginkern
- F rightskip
- F rule
- F save
- F savepos
- F setmatrix
- F setstate
- F shrink
- F startrotation
- F stock
- F stretch
- F subbox
- F submlist
- F temp
- F usage
- F userdefined
- T userids
- F usernode
- F userrule
- F vlist
- F wordboundary
- F prepend
- F processranges
- F processwords
- F protect_glyph
- F protect_glyphs
- F protrusion_skippable
- F rangedimensions
- F rawprop
- F reference

- F rehpac
- F remove
- F repackhlist
- F replace
- F reverse
- F rightmarginwidth
- T rules
- T ruleactions
 - F box
 - F draw
 - F fill
 - F mp
 - F stroke
- F userrule
- F set_attribute
- F set_components
- F setattr
- F setattribute
- F setattributelist
- F setattributes
- F setattrlist
- F setattrrs
- F setboth
- F setbox
- F setboxglue
- F setchar
- F setcomponents
- F setdata
- F setdepth
- F setdirection
- F setdisc
- F setdiscretionary
- F setexpansion
- F setfam
- F setfield
- F setfont
- F setglue
- F setglyphdata
- F setheight
- F setkern
- F setlang
- F setlanguage
- F setleader
- F setlink

| | |
|----------------------|--------------------|
| F setlist | F theprop |
| F setnext | F tonode |
| F setnucleus | F tonodes |
| F setoffsets | F tonut |
| F setoptions | F tosequence |
| F setorientation | F toString |
| F setparproperty | F tracedslide |
| F setpenalty | F traverse |
| F setpost | F traverse_char |
| F setpre | F traverse_content |
| F setprev | F traverse_glyph |
| F setprop | F traverse_id |
| F setreplace | F traverse_list |
| F setruledata | T traversers |
| F setscale | 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 tovbox |
| F setwidth | F tovpack |
| 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 vpack | | B enabled | |
| F write | | F hpack_filter | |
| F xscaled | | F post_linebreak_filter | |
| F yscaled | | F pre_linebreak_filter | |
| 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 | | reheap | 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 |

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

number (context)

| | | | |
|-----------------------|------------|-----------------------|----------|
| | function | tol6dot16 | function |
| basepoints | function | tobasepoints | function |
| bytetodecimal | function | tobitstring | function |
| compactfloat | function | tocentimeters | function |
| decimaltobyte | function | tociceros | 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 |
| nubasepoints | function | tonumberf | function |
| nupoints | function | tonumberg | function |
| percent | function | topicsas | function |
| points | function | topoints | function |
| pts | function | toscaled | function |
| signed | function | toscaledpoints | function |
| sparseexponent | function | valid | function |
| splitdimen | function | | |

objects (context)

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

optional (context)

curl table

F escape
F fetch
F getversion
F initialize
F unescape

foreign table

F abivalues
F initialize
F load
F totable
F types

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

pdfe (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 md5 | |
| F convertfile | | F none | |
| F decodecomment | | F strip | |
| F enablecomment | | F cleanname | |
| F encodecomment | | F fetchstring | |
| F preprocessed | | F fetchtable | |
| F processmk | | F install | |
| F processmklx | | setdynamic | function |
| F processmkvi | | setenv | function |
| F version | | showpath | function |
| maxreadlevel | number | simplescanfiles | function |
| methodhandler | function | splitconfigurationpath | function |
| openbinfile | function | splitexpansions | function |
| openers | data table | splitmethod | function |
| openfile | function | splitpath | function |
| opentexfile | function | stackpath | function |
| ownpath | string | starttiming | function |
| popextrapath | function | stoptiming | function |
| popinputname | function | suffixes | data table |
| poppath | function | suffixmap | data table |
| prefixes | data table | suffixofformat | function |
| prependhash | function | texdatablob | function |
| pushextrapath | function | toppath | function |
| pushinputname | function | unexpandedpath | function |
| pushpath | function | unexpandedpathlist | function |
| registerextrapath | function | unresolve | function |
| registerfile | function | updaterelations | function |
| registerfilehash | function | updatescript | function |
| registerintrees | function | uselibrary | function |
| registermethod | function | usertypes | data table |
| registerzipfile | function | usezipfile | function |
| relations | data table | validatedpath | function |
| renew | function | variable | function |
| renewcache | function | variableofformat | function |
| repath | function | variableofformatorsuffix | function |
| reset | function | wildcardpattern | function |
| resetextrapaths | 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 | getmarksstate | function |
| getcallbackstate | function | getneststate | function |
| getconstants | function | getnodestate | function |
| geterrorlinestate | function | getparameterstate | function |
| geterrorstate | function | getpoolstate | function |
| getexpandstate | function | getreadstate | function |
| getextrastate | function | getsavestate | function |
| getfilestate | function | getsparsestate | function |
| getfontstate | function | getstringstate | function |
| gethalferrorlinestate | function | gettexstate | function |
| gethashstate | function | gettokenstate | function |
| getinputstate | function | getwarningstate | function |
| getlanguagestate | function | iocodes | table |
| getlookupstate | function | list | function |
| getluastate | 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 | nspaces | table |
| autosingle | function | optionalquoted | function |
| booleanstring | function | pack | function |
| byte | function | packsize | function |
| bytepairs | function | quote | function |
| bytes | function | quoted | function |
| bytetable | function | rep | function |
| char | function | replacenewlines | function |
| characterpairs | function | reverse | function |
| characters | function | split | function |
| checkedsplit | function | splitlines | function |
| collapsespaces | function | splitup | function |
| containsws | function | strip | function |
| count | function | sub | function |
| dawson | function | tformat | function |
| dump | function | toHEX | function |
| erf | function | toboollean | function |
| erfc | function | tobytes | function |
| erfcx | function | tocontext | function |
| erfi | function | todec | function |
| escapedpattern | function | todimen | function |
| escapedquotes | function | tohex | function |
| explode | function | tonodes | function |
| f6 | function | topattern | function |
| find | function | totable | function |
| format | function | tounicode16 | function |
| formatter | function | toutf | function |
| formatters | function | toutf32 | function |
| fullstrip | function | toutf8 | function |
| gmatch | function | tracedchar | function |
| gsub | function | tracedchars | table |
| is_boolean | function | unpack | function |
| is_empty | function | unquote | function |
| itself | function | unquoted | function |
| len | function | upper | function |
| limit | function | utfcharacter | function |
| linetable | function | utfcharacters | function |
| longtostring | function | utfcharactertable | function |
| lower | function | utflength | function |
| match | function | utfpadd | function |
| nospaces | 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
- F markedlist
- 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 table

- F analyze

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

sections table

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

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

sets table

- F define
- F get
- F getall
- D setlist

specials table

- D collected
- F retrieve
- F store
- D tobesaved

synonyms table

- F analyzed
- D collected
- F compare
- F define
- F filter
- F finalize
- F flush
- F isshown
- F isused
- F meaning
- F prepare
- F process

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

tags table

- T backend
- T checks
 - F marginanchor
 - F margintext
 - F math
 - F mrow
 - F mtable
- T destinationhash
- T extras
 - F adddestination
 - F addimplicit
 - F addinternal
 - F addreference
 - F combination
 - F delimitedsymbol
 - F description
 - F descriptionsymbol
 - F document
 - F float
 - F formulacontent
 - F image
 - F item
 - F itemgroup
 - F link
 - F listitem
 - F mi
 - F msub
 - F msup
 - F paragraph
 - F publication
 - F reference
 - F registerlocation
 - F registerpages
 - F registerseparator
 - F section

| | |
|---------------------|---------------------------|
| F sorting | F registerextradata |
| F subsentencesymbol | F registermetadata |
| F synonym | F restart |
| F tablecell | F setaspect |
| F tabulate | F setattributehash |
| F tabulatecell | F setcombination |
| T finalizers | F setconstruct |
| F descriptions | F setfigure |
| T fixes | F setfloat |
| F linenumber | F setformulacontent |
| T listdata | F sethighlight |
| T referencehash | F setitem |
| F setattribute | F setitemgroup |
| T usedimages | F setlist |
| T image | F setnotation |
| T usedstyles | F setnotationsymbol |
| T construct | F setparagraph |
| T highlight | F setproperty |
| F current | F setpublication |
| F elementtag | F setregister |
| F finishexport | F setsorting |
| F getextradata | F setsynonym |
| F getid | F settablecell |
| F getmetadata | F settabulatecell |
| F gettablecell | F settagdelimitedsymbol |
| F gettabulatecell | F settagsubsentencesymbol |
| F handler | F setupexport |
| F initializeexport | F setuserproperties |
| D labels | D specifications |
| F last | F start |
| F lastinchain | F stop |
| F locatedtag | F strip |
| T patterns | D taglist |
| U splitter | T usewithcare |
| D properties | |

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 | getpagestate | function |
| getboxdir | function | getparbegin | function |
| getboxresourcebox | function | getparcontext | function |
| getboxresourcecdimensions | function | getpardir | function |
| getcatcode | function | getprimitiveorigins | function |

| | | | |
|--------------------------|---------------------|--------------------------|------------|
| getrunstatevalues | function | N vertical | |
| getsfcode | function | modes | data table |
| getskip | function | mprint | function |
| getsynctexline | function | muglue | table |
| getsynctexmode | function | muskip | table |
| getsynctextag | function | nest | table |
| gettextdir | function | nilcatcodes | number |
| gettoks | function | normalizecodes | data table |
| getuccode | 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 |

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

texconfig (basic tex)

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

texio (basic tex)

closeinput function

terminal function

write function

write_nl function

token (basic tex)

accessors

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

create function
expand function
expand_macro function
future_expand function
get_active function
get_cmdchrsc function
get_cmdname function
get_command function
get_csname function
get_cstoken function
get_dimension function
get_expandable function
get_fields function
get_flags function
get_frozen function
get_id function
get_immutable function
get_index function
get_instance function
get_integer function
get_macro function
get_meaning function
get_noaligned function
get_parameters function
get_permanent function
get_primitive function
get_protected function
get_range function

table

get_tok function
get_tolerant function
getcommandid function
getcommandvalues function
getfunctionvalues function
getprimitives function
gobble function
gobble_dimen function
gobble_integer function
is_defined function
is_next_char function
is_token function
new function
peek_next function
peek_next_char function
peek_next_expanded function
pop_macro function
push_macro function
put_back function
put_next function
save_lua function
scan_argument function
scan_box function
scan_cardinal function
scan_char function
scan_cmdchr function
scan_cmdchr_expanded function
scan_code function
scan_csname function
scan_delimited function
scan_dimen function
scan_dimen_argument function
scan_float function
scan_glue function
scan_integer function
scan_integer_argument function
scan_key function
scan_keyword function
scan_keyword_cs function
scan_letters 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 | U input |
| bits | table | U loadfoundtypescriptfile |
| N active | | U resetctxscanner |
| N alignment | | U rlap |
| N begingroup | | U secondoftwoarguments |
| N character | | U setfalsevalue |
| N close | | U setsectionblock |
| N comment | | U setupsystem |
| N endgroup | | U startcolumns |
| N endoffline | | U starttabulate |
| N escape | | U starttitle |
| N ignore | | U startxtitle |
| N invalid | | U stopcolumns |
| N letter | | U stoptabulate |
| N mathshift | | U stoptitle |
| N open | | U stopxtitle |
| N other | | U texsetup |
| N parameter | | U xmlw |
| N space | | commands data table |
| N subscript | | compile function |
| N superscript | | constant function |
| N whitespace | | converters table |
| cache | table | S toboolean |
| U NC | | S todimen |
| U NR | | S toglue |
| U bf | | S tonumber |
| U buff_finish | | S toString |
| U c_font_compact | | create function |
| U color | | defined function |
| U colordefalc | | flags function |
| U colordefflc | | getinteger function |
| U colordefflt | | getters table |
| U colordefrlt | | F box |
| U dofinishreference | | F count |
| U dostarttext | | F cstoken |
| U finishjob | | F dimen |
| U firstofoneargument | | F glue |
| U firstoftwoarguments | | F macro |
| U gobbleoneargument | | F meaning |
| U goto | | F skip |
| U iftrue | | 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 scandimenargument |
| 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 scankeyworddcs |
| 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 keywordcs | F todimen |
| 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 buff_finish |
| F nextexpanded | U c_font_compact |
| F number | U color |
| F optional | U colordefalc |
| F peek | U colordefflc |
| F peekchar | U colordefflt |
| F peekexpanded | U colordefrlt |
| F real | U dofinishreference |
| F scanclose | U dostarttext |
| F scanopen | U finishjob |
| F skip | U firstofoneargument |
| F skipexpanded | U firstoftwoarguments |
| F string | U gobbleoneargument |
| F table | U goto |
| F token | U iftrue |
| F tokencode | U input |
| F tokenlist | U loadfoundtypescriptfile |
| F tokens | U resetctxscanner |
| F toks | U rlap |
| F value | U secondoftwoarguments |
| F vbox | U setfalsevalue |
| F verbatim | U setsectionblock |
| F vtop | U setupsystem |
| F whd | U startcolumns |
| F word | U starttabulate |
| F scannumber | U starttitle |
| F scanopen | U startxtitle |
| F scanoptional | U stopcolumns |
| F scanstring | U stoptabulate |
| F scantable | U stoptitle |
| F scantokenlist | U stopxtitle |
| F scantoks | U texsetup |
| F scanvbox | U xmlw |
| F scanverbatim | D commands |
| F scanvtop | F compile |
| F scanword | F constant |
| F toboolean | T converters |

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

tracers (context)

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

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

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

ghostscript table

F convert
F statistics

graphicmagick table

F convert
F statistics

graphicsmagick table

F convert
F statistics

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

xml (context)

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

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

| | | | |
|------------------------------|----------|----------------------------|----------|
| inject | function | process | function |
| inject_element | function | process_attributes | function |
| inject_element_after | function | process_elements | function |
| inject_element_before | function | processattributes | function |
| injectafter | function | profiled | table |
| injectbefore | function | pure | function |
| insert | function | pushmatch | function |
| insert_element | function | raw | function |
| insert_element_after | function | registerentity | function |
| insert_element_before | function | registerns | function |
| insertafter | function | reindex | function |
| insertbefore | function | remap_name | function |
| insertcdata | function | remap_namespace | function |
| insertcomment | function | remap_tag | function |
| inspect | function | remapname | function |
| is_valid | function | remapnamespace | function |
| kind | function | remaptag | function |
| last | function | rename | function |
| lastmatch | function | renamespace | function |
| load | function | reparsedentitylpeg | userdata |
| lpath | function | replace | function |
| lpathcached | function | replace_element | function |
| lpathcalls | function | resetinjectors | function |
| lshow | function | resolvns | function |
| makestandalone | function | root | function |
| match | function | save | function |
| name | function | selection | function |
| newhandlers | function | separate | function |
| nodesettostring | function | serialize | function |
| originalload | function | serializetotext | function |
| package | function | setcdata | function |
| parent | function | setcomment | function |
| parsedentitylpeg | userdata | sethandlersfunction | function |
| pihandlers | table | setinjectors | function |
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| F tex | | settings | function |
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| F unknown_any_entity | | S " | |
| F unknown_dec_entity | | S # | |
| F unknown_hex_entity | | S \$ | |
| popmatch | function | S % | |
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| <code>S ></code> | | <code>tocdata</code> | function |
| <code>S \</code> | | <code>toelement</code> | function |
| <code>S {</code> | | <code>tostring</code> | function |
| <code>S </code> | | <code>totable</code> | function |
| <code>S }</code> | | <code>toxml</code> | function |
| <code>S ~</code> | | <code>tprint</code> | function |
| <code>specialhandler</code> | table | <code>traverse</code> | function |
| <code>sprint</code> | function | <code>unescaped</code> | function |
| <code>string</code> | function | <code>unescapedentitylpeg</code> | userdata |
| <code>strip</code> | function | <code>unprivatized</code> | function |
| <code>strip_whitespace</code> | function | <code>unspecialized</code> | function |
| <code>stripelement</code> | function | <code>wipe</code> | function |
| <code>stripleadingspaces</code> | function | <code>withelement</code> | function |
| <code>table</code> | function | <code>withelements</code> | function |
| <code>text</code> | function | <code>wrap</code> | function |
| <code>textonly</code> | function | <code>xmlns</code> | table |
| <code>texttocdata</code> | function | | |

xzip (extra lua)

adler32 function
compress function
crc32 function

decompress function
expandsize function

zip (extra lua)

archives

table

closearchive

function

openarchive

function

registeredfiles

table

zlib (extra lua)

adler32 function
compress function
crc32 function

decompress function
expandsize function