

MP aes 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 loaders
logs lpdf **lpeg** **lua** luac luatex lxml **math**
mathematics **md5** metapost **mime** moduledata
modules mp **mplib** noads **node** nodes number
objects optional **os** **package** pagebuilders
paintreaders parametersets **pdf** **pdfdecode** **pdfe**
physics **pngdecode** publications regimes
resolvers sandbox scripts set **sha2** **sio** **socket**
sorters sparse 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)

| | | | |
|----------------------------|----------|------------------------------|----------|
| CONTEXTLMTXMODE | number | count | number |
| FFISUPPORTED | boolean | createmask | function |
| JITSUPPORTED | boolean | ctxrunner | table |
| LUAMAJORVERSION | number | debug | table |
| LUAMINORVERSION | number | dimen | function |
| LUATEXENGINE | string | dir | table |
| LUATEXFORMATID | number | directives | table |
| LUATEXFUNCTIONALITY | number | document | table |
| LUATEXVERSION | number | documentdata | table |
| LUAVERSION | number | dofile | function |
| MP | function | done | boolean |
| aes | table | drivers | table |
| arg | table | environment | table |
| asnumber_p | function | error | function |
| assert | function | experiments | table |
| attributes | table | figures | table |
| backends | table | file | table |
| basexx | table | fio | table |
| bit32 | table | floats | table |
| blobs | table | flushsimplerule | function |
| blockrequire | function | flushspecialrule | function |
| boolean | table | font | table |
| buffers | table | fonts | table |
| builders | table | functions | table |
| caches | table | getmetatable | function |
| callback | table | getscriptstatus | function |
| callbacks | table | global | table |
| catcodes | table | graphics | table |
| characters | table | gzip | table |
| checkimage | function | handledefinitions | function |
| chemistry | table | handletransformstring | function |
| collectgarbage | function | images | table |
| collectstructure | function | inspect | function |
| combine | function | interactions | table |
| commands | table | interfaces | table |
| containers | table | io | table |
| context | function | ipairs | function |
| converters | table | job | table |
| copyarray | function | language | table |
| copydictionary | function | languages | table |
| coroutine | table | last_pdf | number |

| | | | |
|-----------------|------------|-------------------|------------|
| layouts | table | pdfc | table |
| lfs | table | physics | table |
| libraries | table | pngdecode | table |
| lmx | table | popleaderlevel | function |
| load | function | print | function |
| loaders | data table | profilelines | function |
| loadfile | function | publications | table |
| loadstring | function | pushleaderlevel | function |
| logs | table | rawequal | function |
| lpdf | table | rawget | function |
| lpeg | table | rawlen | function |
| lua | table | rawset | function |
| luac | table | recolor | function |
| luatex | table | regimes | table |
| lxml | table | require | function |
| math | table | required | function |
| mathematics | table | resolvers | table |
| mathshapekern | function | ruledspace | function |
| md5 | table | sandbox | table |
| metapost | table | scripts | table |
| mime | table | select | function |
| moduledata | table | set | table |
| modules | table | setinspector | function |
| mp | function | setmathparameters | function |
| mplib | table | setmetatable | function |
| next | function | sha2 | table |
| noads | table | shipbox_ref_h | number |
| node | table | shipbox_ref_v | number |
| nodes | table | sio | table |
| number | table | socket | table |
| objects | table | sorters | table |
| optional | table | sparse | table |
| optionalrequire | function | statistics | table |
| os | table | status | table |
| p_number_p | userdata | storage | table |
| p_number_u | userdata | streams | table |
| package | table | string | table |
| pagebuilders | table | structures | table |
| paintreaders | table | table | table |
| pairs | function | tex | table |
| parametersets | table | texconditionals | data table |
| pcall | function | texconfig | table |
| pdf | table | texconstants | data table |
| pdfdecode | table | texifs | data table |

| | | | |
|-----------------------|-------------------|--------------------|-----------------|
| texio | table | updaters | table |
| texisdefined | data table | url | table |
| texmodes | data table | userdata | table |
| texsystemmodes | data table | utf | table |
| thirddata | table | utf8 | table |
| toboollean | function | utilities | table |
| todecimal | function | visualizers | table |
| token | table | warn | function |
| tokens | table | xcomplex | table |
| tonumber | function | xdecimal | table |
| tostring | function | xmath | table |
| tracers | table | xml | table |
| trackers | table | xpcall | function |
| type | function | xzip | table |
| typesetters | table | zip | table |
| unpack | function | zlib | table |

aes (context)

decode function
encode function

random function

attributes (context)

alternates table

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

applyoverloads function

checkvalues 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 formatluminance
- F formatluminanceratio
- 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 spotcolorname | |
| F spotcolorparent | |
| F spotcolorvalue | |
| B supported | |
| F toattributes | |
| F transparencycomponents | |
| B triggering | |
| F usecolors | |
| D valid | |
| F value | |
| D values | |
| B weightgray | |
| F xyztolab | |
| F xyztorgb | |
| counts | data table |
| define | function |
| effects | table |
| N attribute | |
| D data | |
| F enable | |
| F handler | |
| F register | |
| D registered | |
| D values | |
| getvalue | function |
| getvalues | function |
| handlers | table |
| hasvalues | function |
| list | data table |
| markasoverload | function |
| names | data table |
| negatives | table |
| N attribute | |
| D data | |
| F enable | |
| F handler | |
| F register | |
| D registered | |
| F set | |
| numbers | data table |

| | |
|-----------------------|----------|
| ofnode | function |
| private | function |
| public | function |
| registervalue | function |
| restore | function |
| save | function |
| setcleaner | function |
| showcurrent | function |
| states | table |
| F disabletriggering | |
| F enabletriggering | |
| F finalize | |
| F initialize | |
| F process | |
| F selective | |
| F simple | |
| F stacked | |
| F stacker | |
| system | function |
| tooverloads | function |
| transparencies | table |
| N attribute | |
| D data | |
| F enable | |
| F forcesupport | |
| F handler | |
| T names | |
| N color | |
| N colorburn | |
| N colordodge | |
| N darken | |
| N difference | |
| N exclusion | |
| N hardlight | |
| N hue | |
| N lighten | |
| N luminosity | |
| N multiply | |
| N none | |
| N normal | |
| N overlay | |
| N saturation | |
| N screen | |
| N softlight | |

| | |
|--------------------------|-----------------|
| N none | F forcesupport |
| F register | F handler |
| D registered | B hasorder |
| B supported | D listwise |
| F toattribute | F register |
| B triggering | D registered |
| F value | F resolve_begin |
| D values | F resolve_end |
| unsetvalue | F resolve_reset |
| values | F resolve_step |
| viewerlayers | D scopes |
| N attribute | F setfeatures |
| F cleanup | F start |
| D data | F stop |
| F define | B supported |
| F definedlayoutcomponent | D values |
| F enable | |

backends (context)

closeout function

codeinjections table

F registerboxresource

F restoreboxresource

current string

defaults table

T codeinjections

F prerollreference

F setautoprefix

F vfstartcolor

F vfstopcolor

T nodeinjections

F cmykcolor

F destination

F graycolor

F injectknockout

F injectoverprint

F reference

F rgbcolor

F spotcolor

F transparency

T registrations

F transparency

D tables

getcallbackstate function

included table

B context

B date

B id

B metadata

B pdf

initialize function

latelua function

nodeinjections table

nothing function

openout function

registered table

T pdf

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 fieldssurrounding

F flushmergelayer

F getbookmarks

F getboxresourcebox

F getdefaultfieldvalue

F getfieldcategory

F getfieldset

F getformatoption

F getinfo

F getpreviewfigure

F getrefobj

F insertrenderingwindow

F jp2

F jpg

F maptag

F mergebookmarks

F mergecomments

F mergefields

F mergereferences

F mergerenditions

F mergeviewerlayers

F newimage

F png

F prerollreference

F presetsymbol

F presetsymbolist

F processrendering

F registerdocumentcloseaction

F registerdocumentopenaction

F registeredsymbol
 F registerpagecloseaction
 F registerpageopenaction
 F registerpattern
 F registersymbol
 F ruleactionbox
 F ruleactiondraw
 F ruleactionfill
 F ruleactionmp
 F ruleactionstroke
 F saveboxresource
 F scanimage
 F setattachmentsupport
 F setautoprefix
 F setencryption
 F setfieldcalculationset
 F setfigurealternative
 F setfigurecolorspace
 F setfiguremask
 F setformat
 F setformsmethod
 F setpagetransition
 F settaggingssupport
 F setxmpfile
 F startlayer
 F startunicodetoactualtext
 F startunicodetoactualtextdirect
 F stoplayer
 F stopunicodetoactualtext
 F stopunicodetoactualtextdirect
 F supportedformats
 F unicodetoactualtext
 F useviewerlayer
 F validfield
 F validfieldcategory
 F validfieldset
 F vfstartcolor
 F vfstopcolor
 F wrapimage
 S name
 T nodeinjections
 F addtags

F annotation
 F attachfile
 F changestackedlayer
 F cmykcolor
 F comment
 F destination
 F effect
 F getboxresourcedimensions
 F graycolor
 F injectbitmap
 F insertu3d
 F knockout
 F negative
 F overprint
 F positive
 F reference
 F rgbcolor
 F spotcolor
 F startalternate
 F startlayer
 F startstackedlayer
 F stopalternate
 F stoplayer
 F stopstackedlayer
 F transparency
 F typesetfield
 F useboxresource
 T registrations
 F cmykindexcolor
 F cmykspotcolor
 F getspotcolorreference
 F grayindexcolor
 F grayspotcolor
 F rgbindexcolor
 F rgbspotcolor
 F spotcolorname
 F transparency

T tables

| | |
|----------------------|----------|
| registrations | table |
| setencryption | function |
| tables | table |
| writeout | function |

basexx (extra lua)

decode16 function

decode64 function

decode85 function

decodeLZW function

decodeRL function

encode16 function

encode64 function

encode85 function

encodeLZW function

encodeRL function

bit32 (basic lua)

arshift function
band function
bnot function
bor function
btest function
bxor function

extract function
lrotate function
lshift function
replace function
rrotate function
rshift function

blobs (context)

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

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

boolean (context)

tocontext function

tonumber function

buffers (context)

| | |
|-----------------------|----------|
| append | function |
| assign | function |
| collectcontent | function |
| empty | function |
| erase | function |
| exists | function |
| get | function |
| getcontent | function |
| getctxlua | function |
| getlines | function |
| getmkvi | function |
| gettex | function |
| loadcontent | function |

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

builders (context)

checkparcontext function

checksidefloat function

kernel table

F collapsing

F hyphenating

F kerning

F ligaturing

F mlisttohtml

local_box_filter function

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 keptogether

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 boxlinehandler

F distance

F fixedprofile

F get

F list

F pagehandler

F pagelinehandler

F profilebox

F profilelines

F set

F setlines

vspacing table

D categories

F checkstrutdepth

F collapsevbox

T data

D map

D skip

D snapmethods

F definesnapmethod

B fixed

F flushcontributions

F forcepageflush

F forcestrutdepth

F getnofpreviouslines

F inject

F injectdisable

F injectpenalty

F injectskip

F interceptsamepagecontent

F pagehandler

F pageoverflow

F popatsame

F pushatsame

F setmap

F setskip

F snapbox

F synchronizepage

F tocategories

F tocategory

F vboxhandler

cache (context)

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

callback (basic tex)

find function
known function
list function

register overloaded function
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 alignment_filter

B append_line_filter

B append_to_vlist_filter

B begin_paragraph

B build_page_insert

B buildpage_filter

B define_font

B find_format_file

B find_log_file

B get_attribute

B get_math_dictionary

B get_noad_class

B glyph_run

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 local_box_filter

B make_extensible

B math_rule

B missing_character

B mlist_to_hlist

B open_data_file

B packed_vbox_filter

B paragraph_context

B post_linebreak_filter

B pre_dump

B pre_linebreak_filter

B pre_output_filter

B process_character

B process_jobname

B register_extensible

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 after_subscript | |
| bidirectional | data table | T anudatta | |
| blockrange | function | T before_half | |
| blocks | data table | T before_main | |
| can_have_space | 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_hyphenator | data table |
| F known | | is_letter | data table |
| F resolve | | is_mark | data table |
| emojized | function | is_punctuation | data table |
| encodes | data table | is_spacing | data table |
| entities | data table | is_symbol | data table |
| fallbacks | data table | lcchars | data table |
| filters | data table | lccode | function |
| fractions | table | lccodes | data table |
| fromnumber | function | lettered | function |
| fschars | data table | lhash | data table |
| fscodes | data table | linebreaks | data table |
| getrange | function | lower | function |
| graphemes | data table | mathlists | data table |
| hangul | data table | mirrors | table |
| indigroups | table | otfscripts | data table |
| T above_mark | | ranges | data table |
| T after_half | | registerentities | function |
| T after_main | | remap_hangul_syllable | function |
| T after_postscript | | scripthash | table |

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

chemistry (context)

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

containers (context)

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 |

debug (basic lua)

getinfo function

sethook function

traceback function

dir (context)

| | |
|-----------------------|----------|
| collectpattern | function |
| current | function |
| expandlink | 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 |
| values | 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)

| | | |
|-------------------------|----------|-------------------|
| applyanchor | function | F updatefontstate |
| applyorientation | function | T whatsit |
| convert | function | S name |
| converters | table | T json |
| F analyze | | T actions |
| F engine | | F cleanup |
| F lmtx | | F convert |
| F resyncbox | | F finalize |
| enable | function | F initialize |
| gethpos | function | F outputfilename |
| getpos | function | F prepare |
| getrpos | function | F wrapup |
| getvpos | function | T flushers |
| helpers | table | F character |
| install | function | F popleaderlevel |
| instances | table | F pushleaderlevel |
| T empty | | F rule |
| T actions | | F setstate |
| F convert | | F simplerule |
| F prepare | | F specialrule |
| T flushers | | F updatefontstate |
| F popleaderlevel | | T whatsit |
| F pushleaderlevel | | S name |
| T whatsit | | T lua |
| S name | | T actions |
| T js | | F cleanup |
| T actions | | F convert |
| F cleanup | | F finalize |
| F convert | | F initialize |
| F finalize | | F outputfilename |
| F initialize | | F prepare |
| F outputfilename | | F wrapup |
| F prepare | | T flushers |
| F wrapup | | F character |
| T flushers | | F popleaderlevel |
| F character | | F pushleaderlevel |
| F popleaderlevel | | F rule |
| F pushleaderlevel | | F simplerule |
| F rule | | F specialrule |
| F simplerule | | F updatefontstate |
| F specialrule | | T whatsit |

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

figures (context)

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

| | | | |
|----------------------|------------|-----------------|------------|
| resources | data table | setorder | function |
| scale | function | setpaths | function |
| set | function | suffixes | data table |
| setconversion | function | used | data table |
| setlookups | function | | |

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 |
| readcline | function |
| readcstring | function |
| readfixed2 | function |
| readfixed4 | function |
| readinteger1 | function |

| | |
|-------------------------|----------|
| readinteger1le | function |
| readinteger2 | function |
| readinteger2le | function |
| readinteger3 | function |
| readinteger3le | function |
| readinteger4 | function |
| readinteger4le | function |
| readintegertable | 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 |
| getfontspec | function |
| getmathindex | function |

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

fonts (context)

analyzers table

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

callbacks table

- F callback
- F devirtualize

checkers table

- F getmissing
- D mapping
- F missing
- F placeholder

cid table

- F getmap
- F loadfile

collections table

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

constructors table

- F addcharacters
- F addcoreunicodes
- F aftercopyingcharacters
- F applyfinalizers
- F applymanipulators
- F assignmathparameters
- F beforecopyingcharacters
- F beforepassingfonttotex

- D cache
- F calculatescale
- F checkedfeatures
- F checkedfilename
- F collectprocessors
- F currentfonthasfeature
- D designsizes
- F enhanceparameters
- T enhancers
- T afm
 - F apply
 - F patch
- T patches
 - F register
 - F report
- F register
- F report
- T otf
 - F addfeature
 - F apply
 - F enhance
 - F patch
- T patches
 - F register
 - F report
- F register
- F report
- T tfm
 - F apply
 - F patch
- T patches
 - F register
 - F report
- F register
- F report
- N factor
- T features
 - D afm
 - D otf
 - D tfm
- F finalize

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

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

| | |
|---------------------|---------------------|
| F open | F writecardinal3 |
| F read2dot14 | F writecardinal3le |
| F readbyte | F writecardinal4 |
| F readbytes | F writecardinal4le |
| F readbytetable | F writeinteger1 |
| F readcardinal | F writeinteger1le |
| F readcardinal1 | F writeinteger2 |
| F readcardinal1le | F writeinteger2le |
| F readcardinal2 | F writeinteger3 |
| F readcardinal2le | F writeinteger3le |
| F readcardinal3 | F writeinteger4 |
| F readcardinal3le | F writeinteger4le |
| F readcardinal4 | F writestring |
| F readcardinal4le | F stripredundant |
| F readcardinaltable | F svg |
| F readchar | N tableversion |
| F readcline | F unifymissing |
| F readcstring | 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 | F texthandler |
| F writecardinal1 | T vectors |
| F writecardinal1le | T arab |
| F writecardinal2 | T gpos |
| F writecardinal2le | N curs |

- N kern
- N mark
- N mkmk
- T gsub
- N calt
- N ccmp
- N cswh
- N dlig
- N fina
- N init
- N isol
- N liga
- N medi
- N mset
- N rclt
- N rlig
- N version
- T pfb
- F loadvector
- N version
- T tfm
- D cache
- D features
- N maxnestingdepth
- N maxnestingsize
- T readers
- F loadpk
- F loadtfm
- F loadtfmvf
- F loadvf
- F pktopdf
- F showpk
- F reencode
- F setfeatures
- N version
- T vf
- T combinations
- F combine
- T combiner
- D commands
- D helpers
- D math
- D predefined
- 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**
- currentid**
- definers**
- 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

- function
- function
- table

| | |
|------------------------|------------|
| F read | |
| F register | |
| F registered | |
| F registerfallbackfont | |
| 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 | |
| effects | table |
| encodings | table |
| T agl | |
| D ctxcodes | |
| D extras | |
| D names | |
| D synonyms | |
| D unicodes | |
| D cache | |
| F is_known | |
| D known | |
| F load | |
| F make_unicode_vector | |
| D math | |
| N version | |
| enhanceid | function |
| expansions | data table |
| formats | data table |
| getalternate | function |
| getindices | function |
| getkern | function |
| getmultiple | function |

| | |
|------------------------|----------|
| getsubstitution | function |
| getters | table |
| T alternate | |
| F opentype | |
| T kern | |
| F opentype | |
| F type1 | |
| F type3 | |
| T multiple | |
| F opentype | |
| T substitution | |
| F opentype | |
| goodies | table |
| D colorschemes | |
| T data | |
| T common-math.lfg | |
| S author | |
| S comment | |
| S copyright | |
| B initialized | |
| T mathematics | |
| T tweaks | |
| T presets | |
| F braille | |
| F eulertocalligraphic | |
| F fallbacks | |
| F moderntocalligraphic | |
| F moveintegrals | |
| F moveitalics | |
| F pagellaradical | |
| F rsfstoscript | |
| F rsfsuprighttoscript | |
| F scripttocalligraphic | |
| F wipeanchors | |
| F wipeitalics | |
| F xitsarabic | |
| S name | |
| S version | |
| T dejavu-math | |
| S author | |
| S comment | |
| S copyright | |
| B initialized | |
| T mathematics | |

- T alternates
- T dotless
 - S comment
 - S feature
 - N value
- T bigslots
- T parameters
 - N AccentBaseDepth
 - N AccentTopShiftUp
 - N DelimiterPercent
 - N DelimiterShortfall
 - N DisplayOperatorMinHeight
 - N FlattenedAccentTopShiftUp
 - N FractionRuleThickness
 - S PrimeBaselineDropMax
 - S PrimeShiftUp
 - S PrimeShiftUpCramped
 - N SubscriptShiftDown
 - S SubscriptShiftDownWithSuperscript
 - N SuperscriptShiftUp
- T tweaks
 - T aftercopying
- S name
- S version
- T dejavu-text
 - S author
 - S comment
 - S copyright
 - T extensions
- B initialized
 - S name
 - S version
- D designsizes
- D filenames
- F getcompositions
- T list
- F load
- F prepare_features
- F register
- F registerpostprocessor
- F report
- T suffixes

handlers table

hashes table

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

helpers table

- F addextraprivate
- F addprivate
- F appendcommands
- F appendcommandtable
- F checkflags
- F checkmerge
- F checksteps
- F collectanchors
- F combineglyphs
- D commands
- F composecharacters
- F descriptiontoslot
- F dimenfactor
- F expandglyph

| | |
|---------------------------|--------------------------------|
| T extraprivates | N delimited ghost check |
| F fontpatternhassize | N delimited ghost dagger |
| F getcoloredglyphs | N delimited ghost dagger 1 |
| F getdigitwidth | N delimited ghost ddagger |
| F getinstancespec | N delimited ghost ddagger 1 |
| F getparameters | N delimited ghost dddot |
| F getprivatecharornode | N delimited ghost ddot |
| F getprivatenode | N delimited ghost dot |
| F getprivates | N delimited ghost hat |
| F getprivateslot | N delimited ghost lower corner |
| F hasprivate | N delimited ghost ring |
| F indextoslot | N delimited ghost star |
| F isprivate | N delimited ghost star 1 |
| F mathscriptslots | N delimited ghost tilde |
| F name | N delimited ghost upper corner |
| F nametoslot | N delimited left annuity |
| F newprivateslot | N delimited left lower corner |
| F prependcommands | N delimited left upper corner |
| F prependcommandtable | N delimited right annuity |
| F privateslot | N delimited right ast |
| F registerglyphbox | N delimited right ast 1 |
| F scalecommands | N delimited right bar |
| F setboxdirectly | N delimited right breve |
| F setboxglyph | N delimited right check |
| F setboxglyphs | N delimited right dagger |
| F setdigitwidth | N delimited right dagger 1 |
| F setmetaglyph | N delimited right ddagger |
| F setmetaglyphs | N delimited right ddagger 1 |
| T sharedprivates | N delimited right dddot |
| N arrow left piece | N delimited right ddot |
| N arrow right piece | N delimited right dot |
| N cm brace piece | N delimited right hat |
| N delimited ghost 0x2032 | N delimited right lower corner |
| N delimited ghost 0x2033 | N delimited right ring |
| N delimited ghost 0x2034 | N delimited right star |
| N delimited ghost 0x2035 | N delimited right star 1 |
| N delimited ghost 0x2036 | N delimited right tilde |
| N delimited ghost 0x2037 | N delimited right upper corner |
| N delimited ghost 0x2057 | N double arrow left piece |
| N delimited ghost annuity | N double arrow right piece |
| N delimited ghost ast | N double rule left piece |
| N delimited ghost ast 1 | N double rule middle piece |
| N delimited ghost bar | N double rule right piece |
| N delimited ghost breve | N flat accent 00300 |

| | |
|---------------------------------|---------------------------|
| N flat accent 00301 | N lr brace piece |
| N flat accent 00302 | N maps to piece |
| N flat accent 00303 | N minus rule left piece |
| N flat accent 00304 | N minus rule middle piece |
| N flat accent 00306 | N minus rule right piece |
| N flat accent 00307 | N mirror.10204 |
| N flat accent 00308 | N mirror.10205 |
| N flat accent 0030A | N mirror.10206 |
| N flat accent 0030C | N mirror.10210 |
| N flat accent 020DB | N mirror.10211 |
| N flat accent F06C3 | N mirror.10214 |
| N flat accent F06C7 | N mirror.10215 |
| N flat accent F06C9 | N mirror.10216 |
| N flat accent F06CB | N mirror.10217 |
| N flat accent F06CD | N mirror.10218 |
| N flat accent F06D1 | N mirror.10219 |
| N flat accent F06D3 | N mirror.10222 |
| N flat accent F06D5 | N mirror.10223 |
| N flat accent F06D7 | N mirror.10764 |
| N flat accent F06DB | N mirror.10769 |
| N flat accent F06DD | N mirror.10877 |
| N flat accent F06DF | N mirror.10878 |
| N flat accent F06E1 | N mirror.10885 |
| N flat accent F06E5 | N mirror.10886 |
| N flat accent F06E7 | N mirror.10887 |
| N flat accent F06E9 | N mirror.10888 |
| N flat accent F06EB | N mirror.10889 |
| N flat accent F06EF | N mirror.10890 |
| N flat accent F06F1 | N mirror.10891 |
| N flat accent F06F3 | N mirror.10892 |
| N flat accent F06F5 | N mirror.10901 |
| N flat accent F06F9 | N mirror.10902 |
| N flat accent F06FB | N mirror.10927 |
| N flat accent F06FD | N mirror.10928 |
| N flat double rule left piece | N mirror.120597 |
| N flat double rule middle piece | N mirror.123 |
| N flat double rule right piece | N mirror.12310 |
| N flat rule left piece | N mirror.12311 |
| N flat rule middle piece | N mirror.125 |
| N flat rule right piece | N mirror.171 |
| N fraction bar extender | N mirror.187 |
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| N ll brace piece | N mirror.40 |
| N lm brace piece | N mirror.41 |

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N mirror.60
N mirror.62
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N mirror.92
N mirror.93
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N mirror.984844
N mirror.984853

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| N mirror.984854 | N mirror.984922 |
| N mirror.984855 | N mirror.984923 |
| N mirror.984856 | N mirror.984924 |
| N mirror.984857 | N mirror.984925 |
| N mirror.984858 | N mirror.984926 |
| N mirror.984859 | N mirror.984927 |
| N mirror.984860 | N mirror.984928 |
| N mirror.984861 | N mirror.984929 |
| N mirror.984862 | N mirror.984930 |
| N mirror.984863 | N mirror.984931 |
| N mirror.984864 | N mirror.984932 |
| N mirror.984865 | N mirror.984941 |
| N mirror.984866 | N mirror.984942 |
| N mirror.984875 | N mirror.984943 |
| N mirror.984876 | N mirror.984944 |
| N mirror.984877 | N mirror.984951 |
| N mirror.984878 | N mirror.984952 |
| N mirror.984879 | N mirror.984955 |
| N mirror.984880 | N mirror.984956 |
| N mirror.984881 | N mirror.984957 |
| N mirror.984882 | N mirror.984958 |
| N mirror.984883 | N mirror.984959 |
| N mirror.984884 | N mirror.984960 |
| N mirror.984885 | N mirror.984961 |
| N mirror.984886 | N mirror.984962 |
| N mirror.984887 | N mirror.985003 |
| N mirror.984888 | N mirror.985004 |
| N mirror.984897 | N mirror.985005 |
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| N mirror.984900 | N mirror.985008 |
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| N mirror.984903 | N mirror.985011 |
| N mirror.984904 | N mirror.985012 |
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| N mirror.984910 | N mirror.985018 |
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| N mirror.985026 | N mirror.985138 |
| N mirror.985031 | N mirror.985139 |
| N mirror.985033 | N mirror.985140 |
| N mirror.985034 | N mirror.985141 |
| N mirror.985038 | N mirror.985142 |
| N mirror.985040 | N mirror.985143 |
| N mirror.985041 | N mirror.985144 |
| N mirror.985045 | N mirror.985145 |
| N mirror.985047 | N mirror.985146 |
| N mirror.985048 | N mirror.985147 |
| N mirror.985052 | N mirror.985148 |
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| N mirror.985055 | N mirror.985150 |
| N mirror.985059 | N mirror.985151 |
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| N mirror.985116 | N mirror.985160 |
| N mirror.985117 | N mirror.985161 |
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| N mirror.985127 | N mirror.985171 |
| N mirror.985128 | N mirror.985172 |
| N mirror.985129 | N mirror.985173 |
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| F tochar | | B keepnames | |
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| F onetimemessage | | F pfb | |
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| F reportdefinedfonts | | F tfm | |
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| mappings | table | F ttf | |
| F addtounicode | | F woff | |

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| reserveid | function |
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| D data | |
| F default | |
| D defaults | |
| F definefallbackfamily | |
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| D methods | |
| D presets | |
| F registerfallback | |
| F registerfiles | |
| F registerfontalternative | |
| F registerfontfamily | |
| F textfallback | |
| F typeface | |
| F typescript | |
| F userdata | |

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| D contextmerged | |
| F contextnumber | |
| D contextnumbers | |
| D contextsetups | |
| F contexttostring | |
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| F mergecontext | |
| F presetcontext | |
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| F showcontext | |
| F splitcontext | |
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| treatments | table |
| F applyfixes | |
| D data | |
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- F fetchmultipar
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- F flush
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- F bitmap
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- F collapse
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- F getkind
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- F gettop
- F getw
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| | | | | |
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| check | function | | B crop | |
| checksize | function | | B media | |
| copy | function | | B none | |
| create | function | | B trim | |
| embed | function | | storedata | function |
| embedfromstore | function | | totable | function |
| fetchdata | function | | types | table |
| keys | table | | N jbig2 | |
| print | function | | N jp2 | |
| resetdata | function | | N jpg | |
| resetstore | function | | N none | |
| scan | function | | N pdf | |
| serialize | function | | N png | |
| sizes | table | | N stream | |
| B art | | | wrap | function |
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- F getidentity
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- F reference
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F setpagetransition

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F setcloseddocumentaction

F setclosepageaction

F setopendocumentaction

F setopenpageaction

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| 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 | | |

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| | | | |
|--------------------------|----------|--------------------|-------|
| comment | function | F realpage | |
| datasets | table | F realpageorder | |
| D collected | | F setstate | |
| F extend | | D tobesaved | |
| F getdata | | parwrappers | table |
| F setdata | | D collected | |
| D tobesaved | | D tobesaved | |
| disablesave | function | positions | table |
| embedded | table | F b_column | |
| D collected | | F b_region | |
| D tobesaved | | F c | |
| fileobjreferences | table | D collected | |
| D collected | | F column | |
| D tobesaved | | F columnofpos | |
| files | table | F copy | |
| D collected | | F depth | |
| F context | | F e_column | |
| B forcerun | | F e_region | |
| F run | | F enhance | |
| D tobesaved | | F extra | |
| getrandomseed | function | F get | |
| initialize | function | F getcolumndata | |
| linkedlists | table | F getfree | |
| D collected | | F gethpos | |
| D tobesaved | | F getpos | |
| load | function | F getreserved | |
| loadother | function | F getrpos | |
| objects | table | F getsync | |
| D collected | | F gettobesaved | |
| F get | | F getvpos | |
| F number | | F hangafter | |
| F page | | F hangindent | |
| F save | | F height | |
| F set | | F hsize | |
| D tobesaved | | N lastx | |
| pack | boolean | N lasty | |
| packversion | number | F leftskip | |
| pagestates | table | F lowerleft | |
| D collected | | F lowerright | |
| F countervalue | | F markregionbox | |
| F extend | | F n | |

F onsamepage
F overlapping
F p
F page
F paragraph
F parindent
F position
F r
F region
F registerhandlers
F replace
F rightskip
F set
F setall
F setregionbox
F setspec
F settobesaved
D tobesaved
F upperleft
F upperright
F used
F whd
F width

F x
F xy
F y
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D collected
T components
T namestack
T tobesaved
T branches
S name
S type
variables table
D checksums
D collected
F getchecksum
F makechecksum
F restore
F save
F setchecksum
D tobesaved
version number

language (basic tex)

| | |
|-------------------------|----------|
| clean | function |
| clearhyphenation | function |
| clearpatterns | 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 |
| setwordhandler | function |

languages (context)

| | | | |
|------------------------|------------|-------------------------------|------------|
| addgoodiesdata | function | F installmethod | |
| addgoodiesfile | function | F lasttrace | |
| appliedoptions | table | F loadpatterns | |
| associate | function | F registerexception | |
| associated | data table | F registerpattern | |
| association | function | F setfeatures | |
| counters | data table | installed | function |
| current | function | installhandler | function |
| data | data table | labels | table |
| decimals | data table | F define | |
| define | function | F split | |
| explicitthyphen | function | loadable | function |
| flatten | function | loadwords | function |
| frequencies | table | logger | table |
| F averagecharwidth | | F report | |
| F getdata | | nofflatted | function |
| getdata | function | numbers | data table |
| getnumber | function | postexhyphenchar | function |
| goodiefiles | function | posthyphenchar | function |
| hjcounts | table | preexhyphenchar | function |
| hyphenate | function | prehyphenchar | function |
| hyphenators | table | registered | data table |
| T dictionaries | | registeredactions | table |
| D featuresets | | replacements | table |
| F handler | | F add | |
| T methods | | F addlist | |
| F expanded | | F handler | |
| B none | | F set | |
| F original | | serializediscretionary | function |
| F tex | | setexceptions | function |
| F traditional | | setgoodieshandler | function |
| F popmethod | | setoptions | function |
| F pushmethod | | setpatterns | function |
| F setmethod | | setsynonym | function |
| F setup | | setwordhandler | function |
| F showhyphenationtrace | | showdiscretionaries | function |
| T traditional | | strippedgoodiewords | function |
| F definefeatures | | tolang | function |
| F gettrace | | transliteration | table |
| F hyphenate | | F exception | |
| F injectthyphens | | F handler | |

| | | | |
|------------------|----------|--------------------------|----------|
| F register | | visualizediscretionaries | function |
| F set | | words | table |
| F use | | F check | |
| unload | function | T data | |
| urls | table | F disable | |
| D characters | | F enable | |
| N lefthyphenmin | | T enablers | |
| D mapping | | B enables | |
| B packslashes | | F found | |
| N righthyphenmin | | F load | |
| F setcharacters | | T methods | |
| version | number | N threshold | |

layouts (context)

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

lfs (extra lua)

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

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

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basictex data table

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extralua data table

extratex data table

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globals data table

lmx (context)

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| 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 | setformats | function |
| categories | function | setformatters | function |
| direct | function | setlogfile | function |
| disable | function | setmessenger | function |
| enable | function | setprocessor | function |
| finalactions | function | settarget | function |
| flush | function | settimedlog | function |
| loggingerrors | function | settranslations | function |
| messenger | function | show | function |
| new | function | start_page_number | function |
| newline | function | start_run | function |
| poplogfile | function | startererrorlogging | function |
| poptarget | function | startfilelogging | function |
| private | table | status | function |
| F enablepagetiming | | stop_page_number | function |
| F getpagetiming | | stoperrorlogging | function |
| pushlogfile | function | stopfilelogging | function |
| pushtarget | function | subdirect | function |
| registerfinalactions | function | subreport | function |
| report | function | texerrormessage | function |
| reporter | function | writer | function |
| resetlogfile | function | | |

lpdf (context)

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

| | |
|---------------------------------|----------|
| delayedobject | function |
| destinationspecification | function |
| dictionary | function |
| docstring | function |
| epdf | table |
| F analyzefonts | |
| F contenttotext | |
| F expanded | |
| F getpagecontent | |
| F getstructure | |
| T image | |
| F close | |
| F copy | |
| F new | |
| F open | |
| F query | |
| F load | |
| F objecttype | |
| F parsecontent | |
| F plugin | |
| T resolvers | |
| F destinations | |
| F embeddedfiles | |
| F javascripts | |
| F layers | |
| F pages | |
| F structure | |
| F widgets | |
| F stripcontent | |
| F unload | |
| F verboseobject | |
| escaped | function |
| finalizeddocument | function |
| finalizefonts | function |
| finalizepage | function |
| finishtransparencycode | function |
| flags | table |
| T annotations | |
| N AutoView | |
| N Hidden | |
| N Invisible | |

| | | | |
|------------------------------|----------|----------------------------|------------|
| N Locked | | fonts | table |
| N LockedContents | | F color_direct | |
| 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 | | getnofpages | function |
| N DoNotScroll | | getpageproperties | function |
| N DoNotSpellCheck | | getpagereference | function |
| N Edit | | getpagetags | function |
| N FileSelect | | getpos | function |
| N MultiLine | | gettrailerid | function |
| N NoExport | | getversion | function |
| N NoToggleToOff | | getxformname | function |
| N Password | | graycode | function |
| N PopUp | | hasmatrix | function |
| N PushButton | | immediateobject | function |
| N Radio | | includeimage | function |
| N RadiosInUnison | | initialize | 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 |

| | | | |
|----------------------------------|----------|---------------------------|-------|
| number | function | usedcharacters | table |
| object | function | usedfontnames | table |
| objectcompresslevel | function | N dejavusansmonoboldttf-1 | |
| pagereference | function | usedfontobjects | table |
| patternstream | function | N dejavusansmonoboldttf-1 | |
| pdfcolor | function | usedfontstreams | table |
| pdftimestamp | function | T dejavusansmonoboldttf-1 | |
| print | function | T characters | |
| procset | function | T descriptions | |
| protectresources | boolean | T fonts | |
| rectangle | function | T goodies | |
| reference | function | S original | |
| registerannotation | function | T parameters | |
| registerdestination | function | N ascender | |
| registerdocumentfinalizer | function | N descender | |
| registerfont | function | N designsize | |
| registerinitializer | function | T expansion | |
| registerpagefinalizer | function | N shrink | |
| registerpattern | function | N step | |
| reserveobject | function | N stretch | |
| rgbcode | function | N extendfactor | |
| rotationcm | function | N extrafactor | |
| setcompression | function | N extraspace | |
| setencryption | function | N factor | |
| setincludecidset | function | N hfactor | |
| setpageorder | function | N mathsize | |
| setpagestate | function | N maxsize | |
| setpagetag | function | N minsize | |
| setversion | function | N mode | |
| sharedobject | function | N quad | |
| shareobject | function | N scaledpoints | |
| shareobjectreference | function | N size | |
| spotcode | function | N slant | |
| stream | function | N slantfactor | |
| string | function | N space | |
| toeight | function | N spaceshrink | |
| topdfdoc | function | N spacestretch | |
| tosixteen | function | N squeezefactor | |
| transparency | function | N textsize | |
| transparencycode | function | N units | |
| transparencygroups | table | N vfactor | |
| B none | | N width | |
| transparencyvalue | function | N xheight | |
| unicode | function | T properties | |

| | |
|---------------|--------------------|
| S filename | T arab |
| B finalized | B dflt |
| S fontname | T gsub |
| S format | T anum |
| S fullname | T arab |
| S hash | B dflt |
| B hasmath | B urd |
| N id | T camelcasing |
| S language | T * |
| S mode | B * |
| S name | T char-ligatures |
| S psname | T * |
| S script | B * |
| S sharedwith | T compat-ligatures |
| N subfont | T * |
| N textcontrol | B * |
| S writingmode | T dlig |
| T resources | T latn |
| T alreadydone | B dflt |
| T classes | B ism |
| T duplicates | B ksm |
| T features | B lsm |
| T gpos | B mol |
| T mark | B nsm |
| T arab | B rom |
| B dflt | B sks |
| T cyrl | B ssm |
| B dflt | T locl |
| B srb | T cyrl |
| T grek | B srb |
| B dflt | T latn |
| T lao | B ism |
| B dflt | B ksm |
| T latn | B lsm |
| B dflt | B nsm |
| B ism | B sks |
| B ksm | B ssm |
| B lsm | T lowercasing |
| B mol | T * |
| B nsm | B * |
| B rom | T primes |
| B sks | T * |
| B ssm | B * |
| T mkmk | T tlig |

| | |
|-----------------|----------------|
| T * | N Ccircumflex |
| B * | N Cdotaccent |
| T tquo | N Chi |
| T * | N Circumflex |
| B * | N D |
| T trep | N Dcaron |
| T * | N Dcroat |
| B * | N Delta |
| T uppercasing | N Dieresis |
| T * | N E |
| B * | N Eacute |
| S filename | N Ebreve |
| S foundfilename | N Ecaron |
| T foundtables | N Ecircumflex |
| T markclasses | N Edieresis |
| T marks | N Edotaccent |
| T marksets | N Egrave |
| N private | N Emacron |
| T sequences | N Eng |
| T sublookups | N Eng.alt |
| T unicodes | N Eogonek |
| N .null | N Epsilon |
| N A | N Epsilontonos |
| N AE | N Eta |
| N AEacute | N Etatonos |
| N Aacute | N Eth |
| N Abreve | N Euro |
| N Acircumflex | N F |
| N Acute | N G |
| N Adieresis | N Gamma |
| N Agrave | N Gbreve |
| N Alpha | N Gcaron |
| N Alphanotos | N Gcircumflex |
| N Amacron | N Gcommaaccent |
| N Aogonek | N Gdotaccent |
| N Aring | N Grave |
| N Atilde | N H |
| N B | N Hbar |
| N Beta | N Hcircumflex |
| N C | N I |
| N Cacute | N IJ |
| N Caron | N Iacute |
| N Ccaron | N Ibreve |
| N Ccedilla | N Icircumflex |

| | |
|-----------------|-------------------|
| N Idieresis | N Oslashacute |
| N Idotaccent | N Otilde |
| N Igrave | N P |
| N Imacron | N Phi |
| N Iogonek | N Pi |
| N Iota | N Psi |
| N Iotadieresis | N Q |
| N Iotatonos | N R |
| N Itilde | N Racute |
| N J | N Rcaron |
| N Jcircumflex | N Rcommaaccent |
| N K | N Rho |
| N Kappa | N S |
| N Kcommaaccent | N Sacute |
| N L | N Scaron |
| N Lacute | N Scedilla |
| N Lambda | N Scircumflex |
| N Lcaron | N Scommaaccent |
| N Lcommaaccent | N Sigma |
| N Ldot | N T |
| N Lslash | N Tau |
| N M | N Tbar |
| N Mu | N Tcaron |
| N N | N Tcommaaccent |
| N Nacute | N Theta |
| N Ncaron | N Thorn |
| N Ncommaaccent | N Tilde |
| N Ntilde | N U |
| N Nu | N Ugrave |
| N O | N Uhorn |
| N OE | N Uhungarumlaut |
| N Oacute | N Umacron |
| N Obreve | N Uogonek |
| N Ocircumflex | N Upsilon |
| N Odieresis | N Upsilon1 |
| N Ograve | N Upsilondieresis |
| N Ohorn | N Upsilontonos |
| N Ohungarumlaut | N Uring |
| N Omacron | N Utilde |
| N Omega | N V |
| N Omegatonos | N W |
| N Omicron | N Wacute |
| N Omicrontonos | N Wcircumflex |
| N Oslash | N Wdieresis |

| | |
|--------------------|------------------|
| N Wgrave | N arrowdblleft |
| N X | N arrowdblright |
| N Xi | N arrowdblup |
| N Y | N arrowdown |
| N Yacute | N arrowleft |
| N Ycircumflex | N arrowright |
| N Ydieresis | N arrowup |
| N Ygrave | N arrowupdn |
| N Z | N arrowupdnbse |
| N Zacute | N asciicircum |
| N Zcaron | N asciitilde |
| N Zdotaccent | N asterisk |
| N Zeta | N asteriskmath |
| N a | N at |
| N aacute | N atilde |
| N abreve | N b |
| N acircumflex | N backslash |
| N acute | N bar |
| N acutecomb | N beta |
| N adieresis | N block |
| N ae | N braceleft |
| N aeacute | N braceright |
| N agrave | N bracketleft |
| N alpha | N bracketright |
| N alphanos | N breve |
| N amacron | N brokenbar |
| N ampersand | N bullet |
| N angle | N c |
| N anoteleia | N cacute |
| N aogonek | N caron |
| N approxequal | N carriagereturn |
| N arabic_2dots | N ccaron |
| N arabic_2dots_a | N ccedilla |
| N arabic_3dots | N ccircumflex |
| N arabic_3dots_a | N cdotaccent |
| N arabic_4dots | N cedilla |
| N arabic_dot | N cent |
| N arabic_gaf_bar | N chi |
| N arabic_gaf_bar_a | N circle |
| N arabic_ring | N circlemultiply |
| N aring | N circleplus |
| N arrowboth | N circumflex |
| N arrowdblboth | N club |
| N arrowdbldown | N colon |

| | |
|---------------------|------------------|
| N colonmonetary | N epsilon |
| N comma | N epsilonontonos |
| N congruent | N equal |
| N copyright | N equivalence |
| N currency | N estimated |
| N d | N eta |
| N dagger | N etatonos |
| N daggerdbl | N eth |
| N dcaron | N exclam |
| N dcroat | N exclamdbl |
| N degree | N exclamdown |
| N delta | N existential |
| N diaeresis.symbols | N f |
| N diamond | N female |
| N dieresis | N fi |
| N dieresistonos | N figuredash |
| N divide | N filledbox |
| N dkshade | N filledrect |
| N dLlTcaron | N five |
| N dnblock | N fiveeighths |
| N dollar | N fl |
| N dong | N florin |
| N dotaccent | N four |
| N dotbelowcomb | N fractionslash |
| N dotlessi | N franc |
| N dotlessj | N g |
| N dotmath | N gamma |
| N e | N gbreve |
| N eacute | N gcaron |
| N ebreve | N gcircumflex |
| N ecaron | N gcommaaccent |
| N ecircumflex | N gdotaccent |
| N edieresis | N germandbls |
| N edotaccent | N gradient |
| N egrave | N grave |
| N eight | N gravecomb |
| N element | N greater |
| N ellipsis | N greaterequal |
| N emacron | N guillemotleft |
| N emdash | N guillemotright |
| N emptyset | N guilsinglleft |
| N endash | N guilsinglright |
| N eng | N h |
| N eogonek | N hbar |

| | |
|----------------------|--------------------|
| N hcircumflex | N lira |
| N heart | N logicaland |
| N hookabovecomb | N logicalnot |
| N house | N logicalor |
| N hungarumlaut | N longs |
| N hyphen | N lozenge |
| N i | N lslash |
| N iacute | N ltshade |
| N ibreve | N m |
| N icircumflex | N macron |
| N idieresis | N male |
| N igrave | N minus |
| N ij | N minute |
| N imacron | N mu |
| N infinity | N multiply |
| N integral | N musicalnote |
| N integralbt | N musicalnotedbl |
| N integraltp | N n |
| N intersection | N nacute |
| N invbullet | N napostrophe |
| N invcircle | N ncaron |
| N invsmileface | N ncommaaccent |
| N iogonek | N nine |
| N iota | N nonbreakingspace |
| N iotadieresis | N nonmarkingreturn |
| N iotadieresis-tonos | N notdef |
| N iotatonos | N notelement |
| N itilde | N notequal |
| N j | N notsubset |
| N jcircumflex | N ntilde |
| N jot | N nu |
| N k | N numbersign |
| N kappa | N o |
| N kcommaaccent | N oacute |
| N kgreenlandic | N obreve |
| N l | N ocircumflex |
| N lacute | N odieresis |
| N lambda | N oe |
| N lcaron | N ogonek |
| N lcommaaccent | N ograve |
| N ldot | N ohorn |
| N less | N ohungarumlaut |
| N lessequal | N omacron |
| N lfblock | N omega |

| | |
|------------------|------------------|
| N omega1 | N quotedblright |
| N omegatonos | N quoteleft |
| N omicron | N quotereversed |
| N omicrontonos | N quoteright |
| N one | N quotesinglbase |
| N oneeighth | N quotesingle |
| N onehalf | N r |
| N onequarter | N racute |
| N onesuperior | N radical |
| N onethird | N rcaron |
| N openbullet | N rcommaaccent |
| N ordfeminine | N reflexsubset |
| N ordmasculine | N reflexsuperset |
| N orthogonal | N registered |
| N oslash | N revlogicalnot |
| N oslashacute | N rho |
| N otilde | N ring |
| N p | N rtblock |
| N paragraph | N s |
| N parenleft | N sacute |
| N parenright | N scaron |
| N partialdiff | N scedilla |
| N percent | N scircumflex |
| N period | N scommaaccent |
| N periodcentered | N second |
| N perpendicular | N section |
| N perthousand | N semicolon |
| N peseta | N seven |
| N phi | N seveneighths |
| N phil | N sfthyphen |
| N pi | N shade |
| N plus | N sigma |
| N plusminus | N sigma1 |
| N product | N similar |
| N propersubset | N six |
| N propersuperset | N slash |
| N proportional | N smileface |
| N psi | N space |
| N q | N spade |
| N question | N sterling |
| N questiondown | N suchthat |
| N quotedbl | N summation |
| N quotedblbase | N sun |
| N quotedblleft | N t |

| | |
|------------------------|-----------------|
| N tau | N v |
| N tbar | N w |
| N tcaron | N wacute |
| N tcommaaccent | N wcircumflex |
| N therefore | N wdieresis |
| N theta | N wgrave |
| N theta1 | N x |
| N thinquestion | N xi |
| N thorn | N y |
| N three | N yacute |
| N threeeighths | N ycircumflex |
| N threequarters | N ydieresis |
| N threesuperior | N yen |
| N tilde | N ygrave |
| N tildecomb | N z |
| N tonos | N zacute |
| N trademark | N zcaron |
| N triagdn | N zdotaccent |
| N triaglf | N zero |
| N triagrt | N zeta |
| N triagup | S version |
| N two | T shared |
| N twosuperior | T dynamics |
| N twothirds | T features |
| N u | B analyze |
| N ugrave | B checkmarks |
| N uhorn | B devanagari |
| N uhungarumlaut | B dummies |
| N umacron | B extensions |
| N underbar | B extrafeatures |
| N underbar.small | B extraprivates |
| N underbar.wide | B features |
| N underscore | S indic |
| N underscoredbl | B mathrules |
| N union | S mode |
| N universal | N number |
| N uogonek | B spacekern |
| N upblock | B visualspace |
| N upsilon | T processes |
| N upsilondieresis | T rawdata |
| N upsilondieresistonos | S cache_uuid |
| N upsilontonos | N cache_version |
| N uring | B compacted |
| N utilde | B condensed |

| | |
|------------------------|------------------------|
| S creator | N maxextent |
| T descriptions | N minbottomsidebearing |
| B expanded | N mintopsidebearing |
| S format | N version |
| T goodies | S weight |
| T lookuphash | S width |
| T metadata | N nofglyphs |
| N ascender | N private |
| N averagewidth | T properties |
| T boundingbox | B hascolor |
| N defaultvheight | B hasitalics |
| N descender | B hasspacekerns |
| S family | N size |
| S familyname | N tableversion |
| S fontname | N time |
| N fstyle | T specification |
| S fullname | S cs |
| T horizontalmetrics | S detail |
| N ascender | S fallbacks |
| N descender | T features |
| N linegap | T normal |
| N maxadvanceheight | B features |
| N maxadvancewidth | S mode |
| N maxextent | N number |
| N minbottomsidebearing | S filename |
| N mintopsidebearing | S forced |
| N version | S forcedname |
| N italicangle | B global |
| B monospaced | S goodies |
| S panoseweight | S hash |
| S panosewidth | N id |
| N pfmweight | S lookup |
| N pfmwidth | N mathsize |
| S subfamily | S method |
| S subfamilyname | S name |
| N subfontindex | S resolved |
| N units | N scalemode |
| S version | N size |
| T verticalmetrics | S source |
| N ascender | S specification |
| N descender | N textsize |
| N linegap | N textcontrol |
| N maxadvanceheight | T unscaled |
| N maxadvancewidth | N cache_version |

| | | |
|------------------|---------------------------|----------|
| T changed | N xheight | |
| T characters | T properties | |
| T descriptions | S filename | |
| T mathparameters | S fontname | |
| T parameters | S format | |
| N ascender | S fullname | |
| N charwidth | B hasmath | |
| N descender | N id | |
| N designsize | S mode | |
| N extraspace | B monospaced | |
| N italicangle | S name | |
| N maxsize | N private | |
| N minsize | S psname | |
| N quad | B setitalics | |
| N slant | S space | |
| N space | N subfont | |
| N spaceshrink | S writingmode | |
| N spacestretch | usedindices | table |
| N units | T dejavusansmonoboldttf-1 | |
| N vheight | 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 | lastbytecode | number |
| bytedata | data table | macros | table |
| bytedone | table | B enabled | |
| callbytecode | function | F loaded | |
| delay | function | F required | |
| finalizeinitex | function | F reset | |
| firstbytecode | number | F resolvestring | |
| flush | function | F resolving | |
| flushdelayed | function | F showdefinitions | |
| get_functions_table | function | messages | data table |
| getbytecode | function | newindex | function |
| getcurrenttime | function | newtable | function |
| getdebuginfo | function | numbers | data table |
| getexitcode | function | registercode | function |
| getfunctionstable | overloaded function | registeredcodes | function |
| getpreciseseconds | function | registerinitexfinalizer | function |
| getpreciseticks | function | registername | function |
| getruntime | function | setbytecode | function |
| getstacktop | function | setexitcode | function |
| getstartupfile | function | startupfile | string |
| getversion | function | version | string |

luac (context)

inspect function
print function

luatex (context)

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

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 | ifatt | function |
| concat | function | ifattempty | function |
| concatrange | function | include | function |
| content | function | inclusion | function |
| context | function | inclusions | function |
| convert | function | index | function |
| count | function | inlineverbatimim | function |
| delete | function | installsetup | function |
| depth | function | last | function |
| direct | function | lastatt | function |
| directives | table | lastmatch | function |
| F after | | lastpar | function |
| F before | | load | function |
| F handle | | loadbuffer | function |
| F load | | loaddata | function |
| F setup | | loaded | table |
| displayverbatimim | function | main | function |
| doif | function | match | function |
| doifelse | function | name | function |
| doifelseempty | function | namespace | function |
| doifelsetext | function | nonspace | function |
| doifempty | function | par | function |
| doifnot | function | param | function |
| doifnotempty | function | parameter | function |
| doifnottext | function | path | function |
| doiftext | function | popmatch | function |
| element | function | pos | function |
| elements | function | position | function |
| entities | data table | pure | function |
| filter | function | pushmatch | function |
| filterlist | function | raw | function |

| | |
|-------------------------|----------|
| rawroot | 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 | makefont | function |
| addvariant | function | mapremap | data table |
| alphabets | data table | overloadparameters | function |
| alternatives | data table | preset | function |
| beforepassingfonttotex | function | presets | table |
| big | function | T less | |
| boldmap | data table | T more | |
| categories | table | T zero | |
| D functions | | privatebase | number |
| charactersets | data table | registersimplematrix | function |
| checkaftercopyingfont | function | remapalphabets | function |
| classes | data table | renderings | table |
| classnames | data table | D mappings | |
| codes | data table | D numbers | |
| collected | function | D sets | |
| define | function | renderset | function |
| dictionaries | table | resetattributes | function |
| D data | | scaleparameters | function |
| D defaults | | sets | data table |
| D groups | | setsnapping | function |
| F groupset | | setvariant | function |
| F groupsetgroup | | startcollecting | function |
| D names | | stopcollecting | function |
| F registercharacter | | styles | data table |
| F registergroup | | syncboth | function |
| F registergroupset | | syncname | function |
| D sets | | syncstyle | function |
| D variants | | toengineclass | function |
| dimensions | function | toname | function |
| extensiblecode | function | tostyle | function |
| extensibles | data table | tweakaftercopyingfont | function |
| extrabase | number | tweakbeforecopyingfont | function |
| fallbacks | table | tweaks | table |
| F apply | | F accentdimensions | |
| F install | | F action | |
| fallbackstyleattr | function | F addactuarian | |
| gaps | data table | F addarrows | |
| getboth | function | F addbars | |
| getstyle | function | F addequals | |
| horizontalcode | function | F addfourier | |
| initializeparameters | function | F addmirrors | |

| | | |
|--------------------|------------------------|------------|
| F addparts | F radicaldegreeanchors | |
| F addprimed | F replace | |
| F addprivates | F replacealphabets | |
| F addrules | F replacerules | |
| F addscripts | F setoptions | |
| F bigslots | F setovershoots | |
| F checkspacing | F showinfo | |
| F copyaccents | F simplifykerns | |
| T datasets | F sortvariants | |
| T accentdimensions | F staircase | |
| T accent | T subsets | |
| T over | T acenorsuvxz | |
| T under | T bhklt | |
| T addarrows | T d | |
| T addscripts | T dotless | |
| T checkspacing | T f | |
| T copyaccents | T gjqy | |
| T fixprimes | T horizontalfences | |
| T fixslashes | T i | |
| T wipецues | T integrals | |
| F dimensions | T mw | |
| F extendaccents | T p | |
| F fallbacks | F substitute | |
| F fixaccents | F topanchors | |
| F fixellipses | F tweaks | |
| F fixintegrals | F version | |
| F fixoldschool | F wipeanchors | |
| F fixprimes | F wipецues | |
| F fixradicals | F wipeitalics | |
| F fixslashes | F wipevariants | |
| F flattenaccents | utfmathaccent | function |
| F inspect | utfmathclass | function |
| F kernpairs | utfmathcommand | function |
| F kerns | utfmathfiller | function |
| F margins | utfmathstretch | function |
| F message | variantcode | function |
| F moveitalics | variantcount | function |
| F movelimits | virtualize | function |
| F parameters | virtualized | data table |

md5 (extra lua)

| | |
|------------|----------|
| HEX | function |
| dec | function |
| hex | function |

| | |
|----------------|----------|
| sum | function |
| sumHEXA | function |
| sumhexa | function |

metapost (context)

| | | |
|---------------------------|----------|-------------------|
| checkformat | function | N nullary |
| checktracingonline | function | N numeric |
| cm | function | N of |
| codes | table | N ofbinary |
| N addto | | N onlyset |
| N ampersand | | N parametertype |
| N and | | N pathjoin |
| N assignment | | N plusorminus |
| N atleast | | N primarybinary |
| N begingroup | | N primarydef |
| N btex | | N property |
| N capsule | | N protection |
| N colon | | N relax |
| N comma | | N repeatloop |
| N controls | | N rightbrace |
| N curl | | N rightbracket |
| N cycle | | N rightdelimiter |
| N definedmacro | | N runscript |
| N delimiters | | N save |
| N endgroup | | N scantokens |
| N equals | | N secondarybinary |
| N etex | | N secondarydef |
| N everyjob | | N semicolon |
| N exittest | | N setbounds |
| N expandafter | | N shipout |
| N fiorelse | | N show |
| N if | | N slash |
| N input | | N step |
| N interim | | N stop |
| N internal | | N str |
| N iteration | | N string |
| N leftbrace | | N tag |
| N leftbracket | | N tension |
| N leftdelimiter | | N tertiarybinary |
| N let | | N tertiarydef |
| N macrodef | | N thingstoadd |
| N macrospecial | | N to |
| N maketext | | N typename |
| N message | | N unary |
| N mode | | N undefinedcs |
| N newinternal | | N until |

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

| | | | |
|-------------------------|----------|-----------------------|----------|
| remaptext | function | svgglyphtomp | function |
| reporterror | function | svgshapestomp | function |
| reportsvgfonts | function | svgshapestopdf | function |
| reset | function | svgsplitcolor | function |
| resetlastlog | function | svgtomp | function |
| resetplugins | function | svgtopdf | function |
| run | function | sxsy | function |
| runinternal | function | tex | table |
| runscript | function | F get | |
| scanparameters | function | F reset | |
| scripterror | function | F set | |
| scriptindex | function | F setfrombuffer | |
| setbendtolerance | function | texerrors | boolean |
| setbuffer | function | texexp | function |
| setextensions | function | theclippath | function |
| setlogging | function | tographic | function |
| setmovetolerance | function | totable | function |
| setoutercolor | function | types | table |
| setparameterset | function | N boolean | |
| setrecord | function | N cmykcolor | |
| settext | function | N color | |
| settolerance | function | N dependent | |
| setvariable | function | N independent | |
| showlog | boolean | N known | |
| showsvgpage | function | N nep | |
| simple | function | N numeric | |
| splitprescript | function | N pair | |
| startgraphic | function | N path | |
| startsvghashing | function | N pen | |
| stopgraphic | function | N picture | |
| stopsvghashing | function | N protodependent | |
| svformat | function | N string | |
| svgcolorremapper | function | N structured | |
| svgfactors | table | N suffixedmacro | |
| N % | | N tokenlist | |
| N bp | | N transform | |
| N cm | | N unknownboolean | |
| N em | | N unknownnep | |
| N ex | | N unknownpath | |
| N in | | N unknownpen | |
| N mm | | N unknownpicture | |
| N pc | | N unknownstring | |
| N pt | | N unsuffixedmacro | |
| N px | | N vacuum | |

| | | | |
|----------------------|----------|------------------|-------|
| typesvgpage | function | variables | table |
| unload | function | | |
| untagvariable | function | | |

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 | fprint | function |
| aux | function | get | table |
| F boolean | | F hashentry | |
| F color | | graphformat | function |
| F direct | | inject | function |
| F draw | | F boolean | |
| F fill | | F cmykcolor | |
| F flush | | F color | |
| F fprint | | F integer | |
| F integer | | F number | |
| F number | | F numeric | |
| F pair | | F pair | |
| F pairpoints | | F path | |
| F path | | F pt | |
| F pathpoints | | F quadruplet | |
| F points | | F string | |
| F print | | F transform | |
| F quadruple | | F triplet | |
| F quadruplepoints | | F whatever | |
| F quoted | | F whd | |
| F size | | F xy | |
| F string | | integer | function |
| F transform | | lmt_color_functions | table |
| F triplet | | F shade | |
| F tripletpoints | | F step | |
| F vprint | | lmt_contours_bitmap_get | function |
| boolean | function | lmt_contours_bitmap_set | function |
| cleaned | function | lmt_contours_cleanup | function |
| color | function | lmt_contours_color | function |
| dataset | function | lmt_contours_edge_get_band | function |
| datasets | function | lmt_contours_edge_get_cell | function |
| F load | | lmt_contours_edge_paths | function |
| direct | function | lmt_contours_edge_set | function |
| draw | function | lmt_contours_edge_set_by_band | function |
| expandtex | function | lmt_contours_edge_set_by_cell | function |
| fill | function | lmt_contours_format | function |
| flatten | function | lmt_contours_function | function |
| flush | function | lmt_contours_maxmean | function |
| format | function | lmt_contours_maxz | function |
| formatted | function | lmt_contours_minmean | function |
| | | lmt_contours_minz | function |

| | | | |
|-----------------------------------|----------|-----------------------------|----------|
| lmt_contours_nofvalues | function | mf_formatted_text | function |
| lmt_contours_nx | function | mf_get_outline_text | function |
| lmt_contours_ny | function | mf_graphic_text | function |
| lmt_contours_range | function | mf_inject_blob | function |
| lmt_contours_shade_paths | function | mf_map_move | function |
| lmt_contours_shade_set | function | mf_map_text | function |
| lmt_contours_shape_paths | function | mf_named_color | function |
| lmt_contours_start | function | mf_outline_text | function |
| lmt_contours_stop | function | mf_save_data | function |
| lmt_contours_value | function | mf_script_index | function |
| lmt_contours_xrange | function | mf_start_saving_data | function |
| lmt_contours_yrange | function | mf_stop_saving_data | function |
| lmt_function_x | function | mode | function |
| lmt_glyphshape_accent | function | n | function |
| lmt_glyphshape_baseline | function | number | function |
| lmt_glyphshape_boundingbox | function | numeric | function |
| lmt_glyphshape_depth | function | pair | function |
| lmt_glyphshape_height | function | pairpoints | function |
| lmt_glyphshape_italic | function | path | function |
| lmt_glyphshape_n | function | pathpoints | function |
| lmt_glyphshape_path | function | points | function |
| lmt_glyphshape_start | function | print | function |
| lmt_glyphshape_stop | function | F boolean | |
| lmt_glyphshape_usedbox | function | F color | |
| lmt_glyphshape_usedline | function | F direct | |
| lmt_glyphshape_width | function | F draw | |
| lmt_mesh_set | function | F fill | |
| lmt_mesh_update | function | F flush | |
| lmt_poisson_generate | function | F fprint | |
| lmt_surface_do | function | F integer | |
| lmt_svg_include | function | F number | |
| mf_blob_add | function | F numeric | |
| mf_blob_dimensions | function | F pair | |
| mf_blob_index | function | F pairpoints | |
| mf_blob_new | function | F path | |
| mf_blob_raw_content | function | F pathpoints | |
| mf_blob_raw_dimensions | function | F points | |
| mf_blob_raw_reset | function | F print | |
| mf_blob_raw_toutf | function | F quadruple | |
| mf_blob_raw_wipe | function | F quadruplepoints | |
| mf_blob_size | function | F quoted | |
| mf_blob_width | function | F size | |
| mf_external_figure | function | F string | |
| mf_finish_saving_data | function | F transform | |

| | | | |
|------------------------|----------|----------------------|----------|
| F triplet | | F property | |
| F tripletpoints | | F string | |
| F vprint | | F symbol | |
| processingmode | function | F token | |
| quadruple | function | T tokenscanners | |
| quadruplepoints | function | F transform | |
| quoted | function | T typescanners | |
| report | function | F whatever | |
| scan | table | set | table |
| F boolean | | size | function |
| F cmykcolor | | skip | table |
| F color | | F token | |
| F expression | | solve | function |
| F integer | | string | function |
| F next | | systemmode | function |
| F number | | transform | function |
| F numeric | | triplet | function |
| F pair | | tripletpoints | function |
| F path | | vprint | function |
| F pen | | | |

mplib (extra tex)

| | | | |
|-------------------------|----------|------------------------|---------------------|
| execute | function | injectstring | function |
| expandtex | function | injecttransform | function |
| finder | function | injectwhatever | function |
| finders | table | new | overloaded function |
| F file | | peninfo | function |
| F mpstemplate | | propertycodes | table |
| finish | function | realtimelogging | boolean |
| getcallbackstate | function | scanboolean | function |
| getcodes | function | scanbmykcolor | function |
| getcolormodels | function | scanbcolor | function |
| getfields | function | scanexpression | function |
| gethashentries | function | scaninteger | function |
| gethashentry | function | scannext | function |
| getobjecttypes | function | scannumber | function |
| getstates | function | scannumeric | function |
| getstatistics | function | scanpair | function |
| getstatus | function | scanpath | function |
| gettolerance | function | scanpen | function |
| gettype | function | scanproperty | function |
| gettypes | function | scanstring | function |
| injectboolean | function | scansymbol | function |
| injectbmykcolor | function | scantoken | function |
| injectbcolor | function | scantransform | function |
| injectinteger | function | settolerance | function |
| injectnumber | function | showcontext | function |
| injectnumeric | function | skiptoken | function |
| injectpair | function | solvepath | function |
| injectpath | function | version | function |

noads (context)

| | | | |
|-----------------|-------|----------------------|--------------|
| handlers | table | | F showtree |
| F alternates | | | F snap |
| F autofences | | | F spacing |
| F classes | | | F suspicious |
| F collapse | | | F tags |
| F dictionaries | | | F unscript |
| F export | | | F unstack |
| F families | | | F variants |
| F fencing | | process | function |
| F fixscripts | | processnested | function |
| F kernpairs | | processors | table |
| F makeup | | T dictionaries | |
| F normalize | | F mlisttohtml | |
| F numbers | | T suspicious | |
| F relocate | | T unscript | |
| F render | | T unstack | |
| F resize | | processouter | function |

node (basic tex)

| | | |
|-----------------------------|----------|----------------------|
| checkdiscretionaries | function | F getbottom |
| checkdiscretionary | function | F getbox |
| copy | function | F getcachestate |
| copylist | function | F getchar |
| count | function | F getchardict |
| currentattributes | function | F getcharspec |
| dimensions | function | F getchoice |
| direct | table | F getclass |
| F addmargins | | F getdata |
| F addxoffset | | F getdegree |
| F addxymargins | | F getdelimiter |
| F addyoffset | | F getdenominator |
| F appendaftertail | | F getdepth |
| F checkdiscretionaries | | F getdirection |
| F checkdiscretionary | | F getdisc |
| F collapsing | | F getdiscpart |
| F copy | | F getexpansion |
| F copylist | | F getfam |
| F copyonly | | F getfield |
| F count | | F getfont |
| F currentattributes | | F getgeometry |
| F dimensions | | F getglue |
| F effectiveglue | | F getglyphdata |
| F endofmath | | F getglyphdimensions |
| F exchange | | F getheight |
| F fields | | F getid |
| F findattribute | | F getindex |
| F findattributerange | | F getinputfields |
| F findnode | | F getkern |
| F firstglyph | | F getkerndimension |
| F flattendiscretionaries | | F getlanguage |
| F flattenleaders | | F getleader |
| F flushlist | | F getleftdelimiter |
| F flushnode | | F getlist |
| F free | | F getlistdimensions |
| F freeze | | F getnext |
| F getanchors | | F getnodes |
| F getattribute | | F getnormalizedline |
| F getattributelist | | F getnucleus |
| F getattributes | | F getnumerator |
| F getboth | | F getoffsets |

| | |
|---------------------|----------------------|
| F getoptions | F insertafter |
| F getorientation | F insertbefore |
| F getparstate | F isboth |
| F getpenalty | F ischar |
| F getpost | F isdirect |
| F getpre | F isglyph |
| F getprev | F isnext |
| F getprime | F isnextchar |
| F getpropertystable | F isnextglyph |
| F getproperty | F isnode |
| F getreplace | F isprev |
| F getrightdelimiter | F isprevchar |
| F getruledimensions | F isprevglyph |
| F getscale | F isspeciallist |
| F getscales | F isvalid |
| F getscrip | F iszeroglue |
| F getshift | F kerning |
| F getspeciallist | F lastnode |
| F getstate | F length |
| F getsub | F ligaturing |
| F getsubpre | F makeextensible |
| F getsubtype | F migrate |
| F getsup | F mlisttohtml |
| F getsuppre | F naturalhsize |
| F gettop | F naturalwidth |
| F gettotal | F new |
| F getusedattributes | F newmathglyph |
| F getwhd | F newtextglyph |
| F getwidth | F patchattributes |
| F getwordrange | F prependbeforehead |
| F getxscale | F protectglyph |
| F getxyscales | F protectglyphs |
| F getyscale | F protectglyphsnone |
| F gluetostring | F protrusionskipable |
| F hasattribute | F rangedimensions |
| F hasdimensions | F remove |
| F hasfield | F removefromlist |
| F hasgeometry | F repack |
| F hasglyph | F reverse |
| F hasglyphoption | F serialized |
| F hpack | F setanchors |
| F hyphenating | F setattribute |
| F id | F setattributelist |
| F ignoremathskip | F setattributes |

| | |
|--------------------|---------------------|
| F setboth | F setrightdelimiter |
| F setbottom | F setscales |
| F setbox | F setscript |
| F setchar | F setshift |
| F setchardict | F setspeciallist |
| F setchoice | F setsplit |
| F setclass | F setstate |
| F setdata | F setsub |
| F setdegree | F setsubpre |
| F setdelimiter | F setsubtype |
| F setdenominator | F setsup |
| F setdepth | F setsuppre |
| F setdirection | F settop |
| F setdisc | F settotal |
| F setdiscpart | F setwhd |
| F setexpansion | F setwidth |
| F setfam | F show |
| F setfield | F slide |
| F setfont | F softenhyphens |
| F setgeometry | F startofpar |
| F setglue | F subtypes |
| F setglyphdata | F tail |
| F setheight | F todirect |
| F setindex | F tonode |
| F setinputfields | F tostring |
| F setkern | F tovaliddirect |
| F setlanguage | F traverse |
| F setleader | F traversechar |
| F setleftdelimiter | F traversecontent |
| F setlink | F traverseglyph |
| F setlist | F traverseid |
| F setnext | F traverseleader |
| F setnucleus | F traverselist |
| F setnumerator | F type |
| F setoffsets | F types |
| F setoptions | F unprotectglyph |
| F setorientation | F unprotectglyphs |
| F setpenalty | F unsetattribute |
| F setpost | F unsetattributes |
| F setpre | F usedlist |
| F setprev | F usesfont |
| F setprime | F verticalbreak |
| F setproperty | F vpack |
| F setreplace | F write |

| | |
|-------------------------------|----------|
| F xscaled | |
| F yscaled | |
| effectiveglue | function |
| endofmath | function |
| family_font | function |
| fields | function |
| findattribute | function |
| firstglyph | function |
| flattendiscretionaries | function |
| flushlist | function |
| flushnode | function |
| free | function |
| getattribute | function |
| getcachestate | function |
| getfield | function |
| getglue | function |
| getpropertystable | function |
| getproperty | function |
| gluetostring | function |
| hasattribute | function |
| hasfield | function |
| hasglyph | function |
| hpack | function |
| hyphenating | function |
| id | function |
| insertafter | function |
| insertbefore | function |
| instock | function |
| inuse | function |
| isnode | function |
| iszeroglue | function |
| kerning | function |
| lastnode | function |

| | |
|---------------------------|----------|
| length | function |
| ligaturing | function |
| makeextensible | function |
| mlisttohtml | function |
| new | function |
| protectglyph | function |
| protectglyphs | function |
| protrusionskipable | function |
| rangedimensions | function |
| remove | function |
| serialized | function |
| setattribute | function |
| setfield | function |
| setglue | function |
| setproperty | function |
| show | function |
| slide | function |
| subtypes | function |
| tail | function |
| todirect | function |
| tonode | function |
| tostring | function |
| traverse | function |
| traverseid | function |
| type | function |
| types | function |
| unprotectglyph | function |
| unprotectglyphs | function |
| unsetattribute | function |
| usedlist | function |
| usesfont | function |
| vpack | function |
| write | function |

nodes (context)

| | | | |
|--------------------------|------------|---------------------------|------------|
| accentcodes | data table | dircodes | data table |
| adaptive | table | directioncodes | data table |
| F handlehorizontal | | directionvalues | data table |
| F handlevertical | | dirvalues | data table |
| F set | | disccodes | data table |
| aligned | function | discretionarycodes | data table |
| append | function | fencecodes | data table |
| apply | function | fields | function |
| applyvisuals | function | fieldtypes | table |
| astable | function | fillcodes | data table |
| attributecodes | data table | fillvalues | data table |
| basepoints | function | firstcharacter | function |
| boundarycodes | data table | firstcharinbox | function |
| boxes | table | firstdirinbox | function |
| F count | | flush | function |
| F dimensions | | flushlist | function |
| F direct | | flushnode | function |
| F dispose | | fullhpack | function |
| F found | | getattr | function |
| F prune | | getattribute | function |
| F reset | | getboth | function |
| F restore | | getbox | function |
| F save | | getchar | function |
| F savenode | | getfield | function |
| builders | table | getfont | function |
| F buildpage_filter | | getid | function |
| F vbox_filter | | getleader | function |
| F vpack_filter | | getlist | function |
| choicecodes | data table | getnext | function |
| concat | function | getprev | function |
| copy | function | getproperty | function |
| copy_node | function | getsubtype | function |
| copylist | function | gluecodes | data table |
| countall | function | glyphcodes | data table |
| currentattributes | function | handlers | table |
| delete | function | F accessibility | |
| destinations | table | F adjusters | |
| N attribute | | F aligncharacter | |
| T done | | F backgrounds | |
| F handler | | F backgroundspage | |
| T stack | | F backgroundsvbox | |

| | | | |
|------------------------|----------|--------------------------------|------------|
| F characters | | F setmove | |
| F checkglyphs | | F setposition | |
| F checkparcounter | | F setspacekerns | |
| F cleanupbox | | insertafter | function |
| F cleanuppage | | insertbefore | function |
| F export | | insertlistafter | function |
| F finalizebox | | installattributehandler | function |
| F finalizelist | | is_display_math | function |
| F fixmathalign | | isdirect | function |
| F flatten | | isnode | function |
| F flattenline | | isnut | function |
| F mathmatrixornaments | | kerncodes | data table |
| F mathmatrixrules | | leftmarginwidth | function |
| F migrate | | linefillers | table |
| F protectglyphs | | F filler | |
| F recolor | | F handler | |
| F show | | F set | |
| F showhyphenation | | lines | table |
| F showpreamble | | T boxed | |
| F stripping | | F addlinenumbers | |
| F textbackgrounds | | F register | |
| F unprotectglyphs | | F setup | |
| F visualizehyphenation | | D data | |
| F wipe | | F finalize | |
| hasattribute | function | F number | |
| hasfield | function | link | function |
| hpack | function | linked | function |
| idsandsubtypes | function | list | function |
| idstosting | function | listcodes | data table |
| injections | table | listtoutf | function |
| F copy | | literalvalues | data table |
| F getligaindex | | locate | function |
| F getthreshold | | markcodes | data table |
| F handler | | markers | table |
| F installgetspaceboth | | F get | |
| F installnewkern | | F set | |
| F isspace | | mathcodes | data table |
| F keepcounts | | mathvalues | data table |
| F reset | | maxboxwidth | function |
| F resetcounts | | migrations | table |
| F setcursive | | F setinserts | |
| F setkern | | F setmarks | |
| F setligaindex | | new | function |
| F setmark | | noadcodes | data table |

nodecodes**nopts****nuts**

F addmargins
 F addxoffset
 F addxymargins
 F addyoffset
 F append
 F appendaftertail
 F apply
 F applyvisuals
 F checkdiscretionaries
 F checkslide
 F collapsing
 T colors
 F set
 T components
 F copynocomponents
 F copyonlyglyphs
 F count
 F flush
 F get
 F set
 F concat
 F copy
 F copy_properties
 F copyleft
 F copynode
 F copyonly
 F copyvisual
 F count
 F countall
 F currentattributes
 F delete
 F dimensions
 F dirdimensions
 F effectiveglue
 F endofmath
 F exchange
 F findattribute
 F findnode
 F firstcharacter
 F firstcharinbox
 F firstglyph

data table**function****table**

F flattendiscretionaries
 F flattenleaders
 F flush
 F flushlist
 F flushnode
 F free
 F freeze
 F fullhpack
 F getanchors
 F getattr
 F getattribute
 F getattributelist
 F getattributes
 F getattrlist
 F getattrs
 F getboth
 F getbottom
 F getbox
 F getboxglue
 F getchar
 F getchardict
 F getcharspec
 F getchoice
 F getclass
 F getcomponents
 F getdata
 F getdegree
 F getdelimiter
 F getdenominator
 F getdepth
 F getdirection
 F getdisc
 F getdiscpart
 F getdiscretionary
 F getexpansion
 F getfam
 F getfield
 F getfont
 F getgeometry
 F getglue
 F getglyphdata
 F getglyphdimensions
 F getheight
 F getid

| | |
|----------------------|---------------------|
| F getindex | F getusedattributes |
| F getinputfields | F getvalue |
| F getkern | F getwhd |
| F getkerndimension | F getwidth |
| F getlang | F getwordrange |
| F getlanguage | F getxscale |
| F getleader | F getxyscales |
| F getleftdelimiter | F getyscale |
| F getlist | F gluetostring |
| F getlistdimensions | F hasattribute |
| F getmiddle | F hasdimensions |
| F getmiddledelimiter | F hasfield |
| F getnext | F hasgeometry |
| F getnormalizedline | F hasglyph |
| F getnucleus | F hasglyphoption |
| F getnumerator | F hpack |
| F getoffsets | F hyphenating |
| F getoptions | F ignoremathskip |
| F getorientation | F insertafter |
| F getparstate | F insertbefore |
| F getpenalty | F insertlistafter |
| F getpost | F is_display_math |
| F getpre | F isboth |
| F getprev | F ischar |
| F getprime | F isdirect |
| F getprop | F isdone |
| F getreplace | F isglyph |
| F getrightdelimiter | F isnext |
| F getruledata | F isnextchar |
| F getruledimensions | F isnextglyph |
| F getscale | F isnode |
| F getscales | F isnut |
| F getscrip | F isprev |
| F getshift | F isprevchar |
| F getspeciallist | F isprevglyph |
| F getstate | F iszeroglue |
| F getsub | F kerning |
| F getsubpre | F lastnode |
| F getsubtype | F length |
| F getsup | F ligaturing |
| F getsuppre | F link |
| F getsurround | F linked |
| F gettop | F locate |
| F gettotal | F migrate |

| | |
|---------------------|------------------------|
| F migratebox | F originliteral |
| F mlisttohlist | F outlinerule |
| F naturalhsize | F pageliteral |
| F naturalwidth | F penalty |
| F nestedtracedslide | F radical |
| F new | F rawliteral |
| F newmathglyph | F register |
| F openup | F restore |
| F patchattributes | F righthangskip |
| T pool | F rightmarginkern |
| F accent | F rightskip |
| F baselineskip | F rule |
| F boundary | F save |
| F boxrule | F savepos |
| F choice | F setmatrix |
| F cleanup | F setstate |
| F delim | F shrink |
| F delimiter | F startrotation |
| F direction | F stock |
| F directliteral | F stretch |
| F disc | F strutrue |
| F emptyrule | F subbox |
| F fence | F submlist |
| F fontkern | F temp |
| F fraction | F usage |
| F glue | F userdefined |
| F gluespec | T usersids |
| F glyph | F usernode |
| F hlist | F userrule |
| F imagerule | F virtualrule |
| F indentskip | F vlist |
| F italicckern | F wordboundary |
| F kern | F prepend |
| F latelua | F prependbeforehead |
| F leader | F processranges |
| F lefthangskip | F processwords |
| F leftmarginkern | F protectglyph |
| F leftskip | F protectglyphs |
| F lineskip | F protectglyphsnone |
| F literal | F protrusionskipppable |
| F mathchar | F rangedimensions |
| F mathtextchar | F rawprop |
| F negatedglue | F reference |
| F noad | F rehpac |

| | |
|--------------------|----------------------|
| F remove | F setgeometry |
| F removefromlist | F setglue |
| F repack | F setglyphdata |
| F repackhlist | F setheight |
| F replace | F setinputfields |
| F reverse | F setkern |
| T rules | F setlang |
| T ruleactions | F setlanguage |
| F box | F setleader |
| F draw | F setleftdelimiter |
| F fill | F setlink |
| F mp | F setlist |
| F stroke | F setmiddledelimiter |
| F userrule | F setnext |
| F serialized | F setnucleus |
| F setanchors | F setnumerator |
| F setattr | F setoffsets |
| F setattribute | F setoptions |
| F setattributelist | F setorientation |
| F setattributes | F setparproperty |
| F setattrlist | F setpenalty |
| F setattrs | F setpost |
| F setboth | F setpre |
| F setbottom | F setprev |
| F setbox | F setprime |
| F setboxglue | F setprop |
| F setchar | F setreplace |
| F setchardict | F setrightdelimiter |
| F setchoice | F setruledata |
| F setclass | F setscale |
| F setcomponents | F setscales |
| F setdata | F setscript |
| F setdegree | F setshift |
| F setdelimiter | F setspeciallist |
| F setdenominator | F setsplit |
| F setdepth | F setstate |
| F setdirection | F setsub |
| F setdisc | F setsubpre |
| F setdiscpart | F setsubtype |
| F setdiscretionary | F setup |
| F setexpansion | F setsuppre |
| F setfam | F setsurround |
| F setfield | F settop |
| F setfont | F setvalue |

| | | |
|-------------------|---------------------|------------|
| F setvisual | F node | |
| F setvisuals | F penalty | |
| F setwhd | F rule | |
| F setwidth | F unset | |
| F show | F vlist | |
| F slide | F whatsit | |
| F softenhyphens | T traversers | |
| F somepenalty | F char | |
| F somespace | F content | |
| F splitbox | F glyph | |
| F startofpar | F leader | |
| F striprange | F list | |
| F tail | F node | |
| F takeattr | T typesetters | |
| F takebox | F tohbox | |
| F takelist | F tohpack | |
| F theprop | F tonodes | |
| F tonode | F to vbox | |
| F tonodes | F tovpack | |
| F tonut | F unprotectglyph | |
| F tosequence | F unprotectglyphs | |
| F toString | F unsetattribute | |
| F tracedslide | F unsetattributes | |
| F traverse | F untracedslide | |
| F traversechar | F usedlist | |
| F traversecontent | F usesfont | |
| F traverseglyph | F verticalbreak | |
| F traverseid | F vianodes | |
| F traverseleader | F vianuts | |
| F traverselist | F vpack | |
| T traversers | F write | |
| F alignrecord | F xscaled | |
| F boundary | F yscaled | |
| F char | packlist | function |
| F content | parcodes | data table |
| F dir | penaltycodes | data table |
| F disc | plugindata | table |
| F glue | F finalizer | |
| F glyph | F initializer | |
| F hlist | S name | |
| F leader | T namespace | |
| F list | N attribute | |
| F mark | D data | |
| F next | F enable | |

| | | | |
|-------------------------|------------|--------------------------|------------|
| F handler | | T stack | |
| F register | | reheap | function |
| D registered | | remove | function |
| D values | | repackhlist | function |
| F processor | | replace | function |
| points | function | report | function |
| pool | table | rightmarginwidth | function |
| F baselineskip | | rulecodes | data table |
| F cleanup | | rules | table |
| F directliteral | | F handler | |
| F glyph | | F process | |
| F hlist | | F set | |
| F latelua | | F userrule | |
| F leader | | serialize | function |
| F lineskip | | serializebox | function |
| F literal | | serialized | function |
| F originliteral | | setattr | function |
| F register | | setattribute | function |
| F restore | | setboth | function |
| F save | | setbox | function |
| F savepos | | setboxtonaturalwd | function |
| F setmatrix | | setchar | function |
| F stock | | setfield | function |
| F usage | | setfont | function |
| F usernode | | setleader | function |
| F vlist | | setlink | function |
| prepend | function | setlist | function |
| print | function | setnext | function |
| processors | table | setprev | function |
| F alignment_filter | | setProperty | function |
| F append_line_filter | | shifts | table |
| F glyph_run | | F handler | |
| F post_linebreak_filter | | F set | |
| F pre_linebreak_filter | | showboxes | function |
| F trace_glyph_run_a | | showlist | function |
| F trace_glyph_run_b | | showsimplelist | function |
| properties | table | skipcodes | data table |
| T data | | snapshots | table |
| pts | function | F getsamples | |
| radicalcodes | data table | F resetsamples | |
| references | table | F takesample | |
| N attribute | | somepenalty | function |
| T done | | somespace | function |
| F handler | | specialskipcodes | table |

| | | | |
|-----------------------------|------------|--------------------|----------|
| splitbox | function | toutf | function |
| startofpar | function | tracers | table |
| stripdiscretionaries | function | T colors | |
| stripping | table | F reset | |
| T glyphs | | F set | |
| F set | | F setlist | |
| subtypes | data table | F directions | |
| tail | function | F fontchar | |
| takeattr | function | T frequencies | |
| takebox | function | F register | |
| tasks | table | T pool | |
| F actions | | T nodes | |
| F appendaction | | F rule | |
| F disableaction | | T nuts | |
| F disablegroup | | F rule | |
| F enableaction | | F resetproperties | |
| F enablegroup | | F rule | |
| F freeze | | F setlist | |
| F freezegroup | | F setproperties | |
| F new | | F start | |
| F prependaction | | T steppers | |
| F removeaction | | F check | |
| F replaceaction | | F codes | |
| F restart | | F features | |
| F setaction | | F font | |
| F showactions | | F glyphs | |
| F table | | F message | |
| tobasepoints | function | F messages | |
| tocentimeters | function | F nofsteps | |
| toxiceros | function | F register | |
| todidots | function | F reset | |
| todimen | function | F start | |
| toinches | function | F stop | |
| tomillimeters | function | F stop | |
| tonode | function | T transparencies | |
| tonodes | function | F reset | |
| tonut | function | F set | |
| topicas | function | F setlist | |
| topoints | function | traverse | function |
| toscaledpoints | function | traverseid | function |
| tosequence | function | typesetters | table |
| tostring | function | F hbox | |
| totable | function | F hpack | |
| totree | function | F tohbox | |

| | | | |
|-----------------------|----------|---------------------|------------|
| F tohpack | | N kern | |
| F tonodes | | N line | |
| F toinbox | | N marginkern | |
| F tovpack | | N mark | |
| F vpack | | N math | |
| unsetattribute | function | N mathglue | |
| usedlist | function | N mathkern | |
| vianodes | function | N origin | |
| vianuts | function | N par | |
| visualizebox | function | N penalty | |
| visualizers | table | N simple | |
| F attribute | | N simplehbox | |
| T attributes | | N simplevbox | |
| F box | | N simplevtop | |
| F enable | | N space | |
| F handler | | N strut | |
| F markfonts | | N user | |
| T modes | | N vbox | |
| N boundary | | N vtop | |
| N depth | | N whatsit | |
| N dir | | F register | |
| N discretionary | | F setfont | |
| N expansion | | F setlayer | |
| N fontkern | | F setruledglyph | |
| N glue | | F setvisual | |
| N glyph | | vpack | function |
| N hbox | | whatsitcodes | data table |
| N insert | | write | function |
| N italic | | | |

number (context)

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

objects (context)

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

optional (context)

curl table

F escape
F fetch
F getversion
F initialize
F unescape

foreign table

F abivalues
F getbuffer
F initialize
F load
F newbuffer
F totable
F types

ghostscript table

F execute
F initialize

graphicsmagick table

F execute
F initialize

hb table

F getshapers
F getversion
F initialize
F loadfont
F shapestring

imagemagick 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

library table

F load

loaded table

lz4 table

F compress
F decompresssize
F framecompress
F framedecompress
F initialize

lzma table

F compress
F decompress
F initialize

lzo table

F compress
F decompresssize
F initialize

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

postgres table

F close
F execute
F getmessage
F initialize
F open

sqlite table

F close

| | | |
|--------------|--------------|-------|
| F execute | F initialize | |
| F getmessage | zstd | table |
| F initialize | F compress | |
| F open | F decompress | |
| zint | F initialize | |
| F execute | | |

os (basic lua)

| | | | |
|---------------------|---------------------|----------------------|---------------------|
| __getenv__ | function | remove | overloaded function |
| __setenv__ | function | rename | overloaded function |
| binsuffix | string | resultof | function |
| binsuffixes | table | runtime | function |
| bits | number | selfarg | table |
| clock | function | selfbin | string |
| converttime | function | selfcore | string |
| date | overloaded function | selfdir | string |
| difftime | function | selflink | string |
| enableansi | function | selfname | string |
| env | data table | selfpath | string |
| execute | overloaded function | setenv | overloaded function |
| exit | overloaded function | setexitcode | function |
| fulltime | function | setlocale | overloaded function |
| getcodepage | function | sleep | function |
| getenv | overloaded function | time | function |
| gettimeofday | function | timezone | function |
| isleapyear | function | tmpname | function |
| launch | function | today | function |
| libsuffix | string | type | string |
| localtime | function | uname | function |
| name | string | uuid | function |
| newline | string | validdatetime | function |
| nofdays | function | weekday | function |
| now | function | where | function |
| pipeto | function | which | function |
| platform | string | | |

package (basic lua)

| | | | |
|----------------------|----------|--------------------|----------|
| config | string | 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

paintreaders (context)

| | | | |
|-----------|----------|-----------|----------|
| 1 | function | 17 | function |
| 2 | function | 18 | function |
| 3 | function | 19 | function |
| 4 | function | 20 | function |
| 5 | function | 21 | function |
| 6 | function | 22 | function |
| 7 | function | 23 | function |
| 8 | function | 24 | function |
| 9 | function | 25 | function |
| 10 | function | 26 | function |
| 11 | function | 27 | function |
| 12 | function | 28 | function |
| 13 | function | 29 | function |
| 14 | function | 30 | function |
| 15 | function | 31 | function |
| 16 | function | 32 | function |

pdf (basic tex)

`immediateobj` function

pdf (extra tex)

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

physics (context)

units table

F registershortcut

F registerunit

D tables

pngdecode (extra tex)

applyfilter function
expand function
interlace function

splitmask function
tocmyk function
tomask function

publications (context)

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

| | | |
|----------------|------------------------|------------|
| T required | S page | |
| 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 | |

| | | | |
|---------------------------|----------|----------------------------|----------|
| F load | | F json | |
| 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 authortitle | |
| F reference | | T sequence | |
| F short | | T authoryear | |
| F used | | T sequence | |
| F uservariable | | T dataset | |
| listvariants | table | T sequence | |
| F default | | T key | |
| F index | | T sequence | |
| F num | | specifications | table |
| F short | | T default | |
| F tag | | S author | |
| load | function | S comment | |
| loadbibdata | function | S copyright | |
| loaddefinitionfile | function | S name | |
| loaders | table | S version | |
| F bbl | | D virtual | |
| F bib | | splitauthor | function |
| F buffer | | splitoneauthor | function |
| F endnote | | statistics | table |

| | | | |
|---------------------------|----------|---------------------|----------|
| N nofbytes | | F showdatasetfields | |
| N nofdatasets | | F showentry | |
| N nofdefinitions | | F showfields | |
| N nofshortcuts | | F showhashedauthors | |
| tables | table | F showtables | |
| D implicits | | F showvariants | |
| D origins | | typesetters | table |
| D privates | | F author | |
| D sets | | F string | |
| D specials | | usedataset | function |
| D types | | usedentries | function |
| D virtuals | | writers | table |
| tags | function | F author | |
| tracers | table | F keyword | |
| F showdatasetauthors | | F pagenumber | |
| F showdatasetcompleteness | | F range | |

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 | findfiles | function |
| appendhash | function | findgivenfile | function |
| automount | function | findgivenfiles | function |
| booleanvariable | function | findlib | function |
| cacheversion | string | findpath | function |
| checkedvariable | function | findtexfile | function |
| cleanedpathlist | function | findwildcardfile | function |
| cleaners | data table | findwildcardfiles | function |
| cleanpath | function | formatofsuffix | function |
| cleanpathlist | function | formatofvariable | function |
| cleanupbinfile | function | formats | data table |
| concatinators | data table | foundintree | function |
| configbanner | string | foundintrees | function |
| configurationfiles | function | generators | data table |
| dangerous | data table | get_from_content | function |
| datastate | function | getenv | function |
| decompressors | table | getextrapaths | function |
| F register | | getfilehashes | function |
| F unregister | | 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 collectstructure | |
| expandedpathlistfromvariable | function | F currentcomponent | |
| expandpath | function | F currentenvironment | |
| expandpathfromvariable | function | F currentproduct | |
| expansion | function | F currentproject | |
| extendtexmfvariable | function | F currentstructure | |
| filtered_from_content | function | F justacomponent | |
| find_file | function | F namelist | |
| find_files | function | D processors | |
| findbinfile | function | F productcomponent | |
| findctxfile | function | F usefile | |
| finders | data table | joinpath | function |
| findfile | function | knownvariables | function |

| | | | |
|--------------------------|------------|-------------------------------|------------|
| libraries | table | registermethod | function |
| F optionalloaded | | registerzipfile | function |
| F validoptional | | relations | data table |
| load | function | renew | function |
| loadbinfile | function | renewcache | function |
| loaders | data table | repath | function |
| loadlualib | function | reset | function |
| loadtexfile | function | resetextrapaths | 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 | T cleaners | |
| macros | table | 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 | suffices | data table |
| poppath | function | suffixmap | data table |
| prefixes | data table | suffixofformat | function |
| prependhash | function | texdatablob | function |
| pushextrapath | function | toppath | function |
| pushinputname | function | tracers | data table |
| pushpath | function | unexpandedpath | function |
| registerextrapath | function | unexpandedpathlist | function |
| registerfile | function | unresolve | function |
| registerfilehash | function | updaterelations | function |
| registerintrees | function | updatescript | function |

| | | | |
|----------------------|------------|---------------------------------|----------|
| uselibrary | function | variable | function |
| usertypes | data table | variableofformat | function |
| usezipfile | function | variableofformatorsuffix | function |
| validatedpath | function | wildcardpattern | function |

sandbox (context)

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

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

scripts (context)

autofontfeature table

F disable
F enable
F handler

colors data table

decomposehangul function

defaults table

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

getdata function

getinjector function

getsplitter function

getstatus function

handlers data table

helpers data 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 |
| readcline | function |
| readcstring | function |
| readfixed2 | function |
| readfixed4 | function |
| readinteger1 | function |

| | |
|-------------------------|----------|
| readinteger1le | function |
| readinteger2 | function |
| readinteger2le | function |
| readinteger3 | function |
| readinteger3le | function |
| readinteger4 | function |
| readinteger4le | function |
| readintegertable | function |
| tocardinal1 | function |
| tocardinal1le | function |
| tocardinal2 | function |
| tocardinal2le | function |
| tocardinal3 | function |
| tocardinal3le | function |
| tocardinal4 | function |
| tocardinal4le | 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

sparse (context)

| | |
|---------------|----------|
| concat | function |
| get | function |
| max | function |
| min | function |
| new | function |

| | |
|-----------------|----------|
| range | function |
| restore | function |
| set | function |
| traverse | function |
| wipe | function |

statistics (context)

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

status (basic tex)

| | | | |
|------------------------------|----------|--------------------------|----------|
| getbufferstate | function | getmarkstate | 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 |
| getinsertstate | function | iocodes | table |
| getlanguagestate | function | list | function |
| getlookupstate | function | resetmessages | function |
| getluastate | 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 | nospaces | function |
| autosingle | function | nspace | table |
| booleanstring | function | optionalquoted | function |
| byte | function | pack | function |
| bytepairs | function | packrowscolumns | function |
| bytes | function | packsize | function |
| bytetable | function | quote | function |
| char | function | quoted | function |
| characterpairs | function | rep | function |
| characters | function | replacenewlines | function |
| checkedsplit | function | reverse | function |
| collapsespaces | function | split | function |
| containsws | function | splitlines | function |
| count | function | splitup | function |
| dawson | function | strip | function |
| dump | function | sub | function |
| erf | function | texnewlines | function |
| erfc | function | tformat | function |
| erfcx | function | toHEX | function |
| erfi | function | toboollean | function |
| escapedpattern | function | tobytes | function |
| escapedquotes | function | tocontext | function |
| explode | function | todec | function |
| f6 | function | todimen | function |
| find | function | tohex | function |
| format | function | tonodes | function |
| formatter | function | topattern | function |
| formatters | function | totable | function |
| fullstrip | function | tounicode16 | function |
| gmatch | function | toutf | function |
| gsub | function | toutf32 | function |
| hextocharacters | function | toutf8 | function |
| is_boolean | function | tracedchar | function |
| is_empty | function | tracedchars | table |
| itself | function | unescapedquotes | function |
| len | function | unpack | function |
| limit | function | unquote | function |
| linetable | function | unquoted | function |
| longtostring | function | upper | function |
| lower | function | utfcharacter | function |
| match | function | utfcharacters | function |

| | | |
|---------------------|--------------|----------|
| utfcharacter | table | function |
| utflength | | function |
| utfpadd | | function |
| utfpadding | | function |
| utfvalue | | function |
| utfvalues | | function |

| | | |
|---------------------|--------------|----------|
| utfvalue | table | function |
| valid | | function |
| voigt | | function |
| voigt_hwhm | | function |
| wordsplitter | | function |

structures (context)

| | | |
|-------------------|----------|--------------------------------------|
| atlocation | function | F last |
| blocks | table | F next |
| D collected | | F prev |
| F define | | F previous |
| F empty | | 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 title | |
| F touserdata | |
| inserts | table |
| D data | |
| F define | |
| F getdata | |
| F getlocation | |
| F getname | |
| F getnumber | |
| F setlocation | |
| F setup | |
| D stored | |
| itemgroups | table |
| D collected | |
| D tobesaved | |
| lists | table |
| F addto | |
| F analyze | |
| B autoreorder | |
| D cached | |
| D collected | |
| F discard | |
| F enhance | |
| T enhancers | |
| F external | |
| F filter | |
| F formulainumber | |
| F getresult | |
| F groupindex | |
| F hasnumberdata | |
| F haspagedata | |
| F hastitledata | |
| F integrate | |
| F iscached | |
| D kinds | |
| F label | |
| F location | |
| D names | |
| F number | |
| D ordered | |
| F page | |
| F popnesting | |
| F prefix | |
| F prefixednumber | |

| | |
|----------------------------|--------------|
| F prefixedpage | |
| F process | |
| D pushed | |
| F pushnesting | |
| F rawnumber | |
| F realpage | |
| F reordered | |
| T result | |
| F savedlistnumber | |
| F savedlistprefixednumber | |
| F savedlisttitle | |
| D sectionblocks | |
| F sectionnumber | |
| F size | |
| F title | |
| D tobesaved | |
| F use | |
| F userdata | |
| F uservalue | |
| marks | table |
| F number | |
| F title | |
| notes | table |
| F check_spacing | |
| F checkpagechange | |
| F define | |
| F doifonsamepageasprevious | |
| F get | |
| F getdeltapage | |
| F getinternal | |
| F getn | |
| F getstate | |
| F hascontent | |
| F internal | |
| 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 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 checked | |
| 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 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 |
| F integrate |
| D internals |
| F load |
| F loadpresets |
| F mark |
| S outermethod |
| F pagefromhash |
| 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 setinternalreference |
| F setlinkmethod |

- F setnextinternal
- F setnextorder
- F setreferencerealpage
- F setstructure
- 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 untext

D usedinternals

D usedviews

F valid

registers

- F analyze
- D collected
- F compare
- F define
- F enhance
- F extend
- F filter
- F filtercollected
- F finalize

table

- F findinternal
- F flush
- F get
- F integrate
- F prepare
- F process
- F setmethod
- F sort
- F store
- D tobesaved
- F tweak
- F unique
- F use
- F userdata

sections

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

table

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

- F reset
- F resetall
- F resetlist
- 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 | U splitter |
| F subsentencesymbol | D properties |
| F synonym | F registerextradata |
| F tablecell | F registermetadata |
| F tabulate | F restart |
| F tabulatecell | F setaspect |
| T finalizers | F setattributehash |
| F descriptions | F setcombination |
| T fixes | F setconstruct |
| F linenumber | F setfigure |
| T listdata | F setfloat |
| T referencehash | F setformulacontent |
| F setattribute | F sethighlight |
| T usedimages | F setitem |
| T image | F setitemgroup |
| T usedstyles | F setlist |
| T construct | F setnotation |
| T highlight | F setnotationsymbol |
| F current | F setparagraph |
| F elementtag | F setproperty |
| F enabled | F setpublication |
| F exportbox | 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 localexport | F strip |
| F locatedtag | D taglist |
| T patterns | T usewithcare |

table (basic lua)

| | | | |
|------------------------|----------|-----------------------------|----------|
| allkeys | function | orderedhash | function |
| append | function | pack | function |
| are_equal | function | prepend | function |
| collapsed | function | print | function |
| collapsedhash | function | remove | function |
| combine | 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 |

tex (basic tex)

| | | | |
|---------------------------|------------|-----------------------------------|------------|
| amcode | table | fontname | function |
| attribute | table | forcehmode | function |
| automigrationcodes | data table | forceinputstatefile | function |
| badness | function | forceinputstateline | function |
| boundaries | table | fprint | function |
| D names | | frozenparcodes | data table |
| D numbers | | get | function |
| F system | | getalignmentcontextvalues | function |
| box | table | getamcode | function |
| boxresources | table | getappendlinecontextvalues | function |
| F getbox | | getattribute | function |
| F getdimensions | | getautomigrationvalues | function |
| F save | | getbox | function |
| F use | | getboxdir | function |
| catcode | table | getboxresourcebox | function |
| chardef | function | getboxresourcedimensions | function |
| classoptioncodes | data table | getcatcode | function |
| codes | table | getcharactertagvalues | function |
| conditionals | data table | getcount | function |
| constants | data table | getdelcode | function |
| count | table | getdelcodes | function |
| cprint | function | getdimen | function |
| ctdcatcodes | number | getdimensionvalue | function |
| ctxcatcodes | number | getdirectionvalues | function |
| definefont | function | getdiscoptionvalues | function |
| delcode | table | getdiscstatevalues | function |
| dimen | table | geterrorvalues | function |
| dimensiondef | function | getfillvalues | function |
| directioncodes | data table | getflagvalues | function |
| directives | data table | getfontoffamily | function |
| discoptioncodes | data table | getfrozenparvalues | function |
| dontcomplain | function | getglue | function |
| enableprimitives | function | getglyphdata | function |
| error | function | getglyphoptionvalues | function |
| expandasvalue | function | getglyphscales | function |
| experiments | data table | getglyphscript | function |
| extraprimitives | function | getglyphstate | function |
| fatalerror | function | getgroupvalues | function |
| fillcodes | data table | gethccode | function |
| flagcodes | data table | gethelptext | function |
| fontidentifier | function | gethmode | function |

| | | | |
|---------------------------------|----------|----------------------------------|------------|
| gethyphenationvalues | function | getpacktypevalues | function |
| getinputstatefile | function | getpagecontextvalues | function |
| getinputstateline | function | getpagestate | function |
| getinputstatemode | function | getparbeginvalues | function |
| getinsertcontent | function | getparcontextvalues | function |
| getinsertdepth | function | getpardir | function |
| getinsertdistance | function | getparmodevalues | function |
| getinsertheight | function | getparstate | function |
| getinsertlimit | function | getprimitiveorigins | function |
| getinsertmultiplier | function | getregisterindex | function |
| getinsertwidth | function | getrunstatevalues | function |
| getintegervalue | function | getsfcode | function |
| getinteraction | function | getshapingpenaltiesvalues | function |
| getiovalues | function | getskip | function |
| getkerneloptionvalues | function | getspecialmathclassvalues | function |
| getlargestusedmark | function | gettextcontrolvalues | function |
| getlccode | function | gettextdir | function |
| getlinedir | function | gettoks | function |
| getlist | function | getuccode | function |
| getlistanchorvalues | function | glue | table |
| getlistgeometryvalues | function | glyphoptioncodes | data table |
| getlistsignvalues | function | groupcodes | data table |
| getlocalbox | function | hashtokens | function |
| getlocallevel | function | hccode | table |
| getmark | function | hmcode | table |
| getmath | function | hyphenationcodes | data table |
| getmathclassoptionvalues | function | ifs | data table |
| getmathcode | function | inimatcodes | number |
| getmathcodes | function | integerdef | function |
| getmathcontrolvalues | function | isattribute | function |
| getmathdir | function | isbox | function |
| getmathparametervalues | function | iscount | function |
| getmathstylenamevalues | function | isdefined | function |
| getmathstylevalues | function | isdimen | function |
| getmathvariantvalues | function | isglue | function |
| getmode | function | ismuglue | function |
| getmodevalues | function | ismuskip | function |
| getmuglue | function | isprintable | function |
| getmuskip | function | isskip | function |
| getnest | function | istoks | function |
| getnoadoptoptionvalues | function | lastnodetype | function |
| getnormalizelinevalues | function | lccode | table |
| getnormalizeparvalues | function | linebreak | function |
| getoutputactive | function | listanchorcodes | data table |

lists

listsigncodes

luacatcodes

magicconstants

N assumedmathcontrol
N awfulbad
N decentcriterium
N defaultcatcodetable
N defaultdeadcycles
N defaulteqnogapstep
N defaultthangafter
N defaultoutputbox
N defaultpredisplaygap
N defaultrule
N defaultspacefactor
N defaulttolerance
N deplorable
N ejectpenalty
N ignoredepth
N infinitebad
N infinitepenalty
N infinity
N largewidthexcess
N loosecriterium
N mathbeginclass
N mathendclass
N maxattributeregisterindex
N maxboxregisterindex
N maxbytecodeindex
N maxcardinal
N maxcategorycode
N maxcharactercode
N maxcharcode
N maxdatavalue
N maxdimen
N maxdimenregisterindex
N maxfunctionreference
N maxglueregisterindex
N maxhalfvalue
N maxhalfword
N maxinteger
N maxintregisterindex
N maxlimitedscale
N maxmarkindex

table

data table

number

table

N maxmathclasscode
N maxmathfamilyindex
N maxmuglueregisterindex
N maxnewlinecharacter
N maxnofbytecodes
N maxnofcatcodetables
N maxnoffonts
N maxnoflanguages
N maxnofmarks
N maxnofmathfamilies
N maxquarterword
N maxsizeofword
N maxspacefactor
N maxtoksregisterindex
N mincardinal
N mindatavalue
N mindimen
N minhalfword
N mininfinity
N mininteger
N minquarterword
N minspacefactor
N nocatcodetable
N null
N nullflag
N nullfont
N onebp
N presetrulethickness
N runningrule
N smallstretchability
N texeqtbsize
N texhashprime
N texhashsize
N two
N undefinedmathparameter
N unity
N unusedattributevalue
N unusedmathfamily
N unusedmathstyle
N unusedscriptvalue
N unusedstatevalue
N zeroglu

mathchardef
mathcode

function
table

| | | | |
|---------------------------|------------|----------------------------|---------------------|
| mathcontrolcodes | data table | setcatcode | function |
| mathparametercodes | data table | setcount | function |
| modelevels | table | setdelcode | function |
| N horizontal | | setdimen | function |
| N math | | setdimensionvalue | function |
| N unset | | setglue | function |
| N vertical | | setglyphdata | function |
| modes | data table | setglyphscript | function |
| mprint | function | setglyphstate | function |
| muglue | table | sethccode | function |
| muskip | table | sethmcodes | function |
| nest | table | setinputstatefile | function |
| nilcatcodes | number | setinputstateline | function |
| noadoptioncodes | data table | setinputstatemode | function |
| normalizelinecodes | data table | setinsertcontent | function |
| normalizeparcodes | data table | setinsertdistance | function |
| notcatcodes | number | setinsertlimit | function |
| number | function | setinsertmultiplier | function |
| parcontextcodes | data table | setintegervalue | function |
| poplocal | function | setinteraction | function |
| popsavelevel | function | setlccode | function |
| preparelinebreak | function | setlinedir | function |
| primitives | function | setlist | function |
| print | function | setlocalbox | function |
| prtcategories | number | setmath | function |
| pushlocal | function | setmathcode | function |
| pushsavelevel | function | setmathdir | function |
| quitlocal | function | setmuglue | function |
| quittoks | function | setmuskip | function |
| resetparagraph | function | setnest | function |
| rlncatcodes | number | setpardir | function |
| romannumeral | function | setrunstate | overloaded function |
| round | function | setsfcode | function |
| runlocal | function | setskip | function |
| runstring | function | settetxtdir | function |
| runtoks | function | settoks | function |
| saveboxresource | function | setuccode | function |
| scale | function | sfcode | table |
| scantoks | function | shiftparshape | function |
| set | function | shipout | function |
| setamcode | function | showcontext | function |
| setattribute | function | skip | table |
| setbox | function | snapshotpar | function |
| setboxdir | function | sp | function |

| | | | |
|------------------------------|------------|-------------------------|------------|
| specialmathclasscodes | data table | tpbcatcodes | number |
| splitbox | function | tprint | function |
| sprint | function | trackers | data table |
| stringtocodesbitmap | function | triggerbuildpage | function |
| systemmodes | data table | txtcatcodes | number |
| takebox | function | type | function |
| texcatcodes | number | uccode | table |
| textcontrolcodes | data table | uprint | function |
| toks | table | useboxresource | function |
| tonumber | function | vrbcacodes | number |
| toscaled | function | write | function |
| tpacacodes | number | | |

texconfig (basic tex)

| | | | |
|--|---------------------|---|--------|
| buffer size | table | language size | table |
| N size | | N size | |
| N step | | N step | |
| error line size | table | mark size | table |
| N size | | N size | |
| expand size | table | N step | |
| N size | | nest size | table |
| file size | table | N size | |
| N size | | N step | |
| N step | | node size | table |
| first line | string | N size | |
| font size | table | N step | |
| N size | | param eter size | table |
| N step | | N size | |
| format name | string | N step | |
| function size | number | pool size | table |
| half error line size | table | N size | |
| N size | | N step | |
| hash size | table | prop erti ess ize | number |
| N size | | save size | table |
| N step | | N size | |
| init | overloaded function | N step | |
| input size | table | shell_ escape | string |
| N size | | string size | table |
| N step | | N size | |
| insert size | table | N step | |
| N size | | token size | table |
| N step | | N size | |
| kpse_ init | boolean | N step | |

texio (basic tex)

| | |
|--------------------------|----------|
| closeinput | function |
| forceendoffile | function |
| getinputindex | function |
| getsourcefilename | function |
| setlogfile | function |
| terminal | function |

| | |
|------------------------|----------|
| write | function |
| write_nl | function |
| writeln | function |
| writeselector | function |
| writeselectorlf | function |
| writeselectornl | function |

token (basic tex)

| | | | |
|-------------------------|----------|---------------------------|----------|
| create | function | getdimension | function |
| expand | function | getexpandable | function |
| expand_macro | function | getexpansion | function |
| expandmacro | function | getfields | function |
| future_expand | function | getflags | function |
| futureexpand | function | getfrozen | function |
| get_active | function | getfunctionvalues | function |
| get_cmdchrscs | function | getid | function |
| get_cmdname | function | getimmutable | function |
| get_command | function | getindex | function |
| get_csname | function | getinstance | function |
| get_cstoken | function | getinteger | function |
| get_dimension | function | getmacro | function |
| get_expandable | function | getmeaning | function |
| get_fields | function | getnoaligned | function |
| get_flags | function | getparameters | function |
| get_frozen | function | getpermanent | function |
| get_id | function | getprimitive | function |
| get_immutable | function | getprimitives | function |
| get_index | function | getprotected | function |
| get_instance | function | getrange | function |
| get_integer | function | gettok | function |
| get_macro | function | gettolerant | function |
| get_meaning | function | gobble | function |
| get_noaligned | function | gobble_dimen | function |
| get_parameters | function | gobble_integer | function |
| get_permanent | function | gobbledimen | function |
| get_primitive | function | gobbleinteger | function |
| get_protected | function | grab | function |
| get_range | function | is_defined | function |
| get_tok | function | is_next_char | function |
| get_tolerant | function | is_token | function |
| getactive | function | isdefined | function |
| getcmdchrscs | function | isnextchar | function |
| getcmdname | function | istoken | function |
| getcommand | function | new | function |
| getcommandid | function | peek_next | function |
| getcommandvalues | function | peek_next_char | function |
| getconstant | function | peek_next_expanded | function |
| getcscname | function | peeknext | function |
| getcstoken | function | peeknextchar | function |

| | | | |
|------------------------------|----------|----------------------------|----------|
| peeknextexpanded | function | scan_value | function |
| pop_macro | function | scan_word | function |
| popmacro | function | scanargument | function |
| push_macro | function | scanbox | function |
| pushmacro | function | scancardinal | function |
| put_back | function | scanchar | function |
| put_next | function | scancmdchr | function |
| putback | function | scancmdchrexploded | function |
| putnext | function | scancode | function |
| save_lua | function | scancsname | function |
| savelua | function | scandelimited | function |
| scan_argument | function | scandimen | function |
| scan_box | function | scandimenargument | function |
| scan_cardinal | function | scanfloat | function |
| scan_char | function | scan glue | function |
| scan_cmdchr | function | scaninteger | function |
| scan_cmdchr_expanded | function | scanintegerargument | function |
| scan_code | function | scankey | function |
| scan_csname | function | scankeyword | function |
| scan_delimited | function | scankeywordcs | function |
| scan_dimen | function | scanletters | function |
| scan_dimen_argument | function | scanluacardinal | function |
| scan_float | function | scanluainteger | function |
| scan_glue | function | scanluanumber | function |
| scan_integer | function | scannext | function |
| scan_integer_argument | function | scannextchar | function |
| scan_key | function | scannextexpanded | function |
| scan_keyword | function | scanreal | function |
| scan_keyword_cs | function | scanscale | function |
| scan_letters | function | scanskip | function |
| scan_luacardinal | function | scanstring | function |
| scan_luainteger | function | scantoken | function |
| scan_luanumber | function | scantokencode | function |
| scan_next | function | scantokenlist | function |
| scan_next_char | function | scantoks | function |
| scan_next_expanded | function | scanvalue | function |
| scan_real | function | scanword | function |
| scan_scale | function | serialize | function |
| scan_skip | function | set_char | function |
| scan_string | function | set_dimension | function |
| scan_token | function | set_integer | function |
| scan_token_code | function | set_lua | function |
| scan_tokenlist | function | set_macro | function |
| scan_toks | function | setchar | function |

| | | | |
|---------------------------|----------|-------------------------|----------|
| setdimension | function | skipnext | function |
| setinteger | function | skipnextexpanded | function |
| setlua | function | type | function |
| setmacro | function | undefine_macro | function |
| skip_next | function | undefinemacro | function |
| skip_next_expanded | function | | |

tokens (context)

accessors table

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

astable function

bits table

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

cache table

- U NC
- U NR
- U bf
- U buff_finish
- U c_font_compact

- U color
- U colordefalc
- U colordefflc
- U colordefflt
- U colordefrlt
- U dofinishreference
- U dostarttext
- U finishjob
- U firstofoneargument
- U firstoftwoarguments
- U gobbleoneargument
- U goto
- U iftrue
- U input
- U loadfoundtypescriptfile
- U resetctxscanner
- U rlap
- U secondoftwoarguments
- U setfalsevalue
- U setsectionblock
- U setupsystem
- U startcolumns
- U starttabulate
- U starttitle
- U startxtitle
- U stopcolumns
- U stoptabulate
- U stoptitle
- U stopxtitle
- U texsetup
- U xmlw

commands data table

compile function

constant function

converters table

- S toboolean
- S todimen
- S toglue
- S tonumber
- S tostring

create function

defined function

flags function

getinteger function

getters table

 F box

 F count

 F ctoken

 F dimen

 F glue

 F macro

 F meaning

 F skip

 F token

gobble function

isdefined function

istoken function

new function

pickup function

popmacro function

presets table

 T 1 argument

 T 1 integer

 T 1 optional

 T 1 string

 T 2 arguments

 T 2 integers

 T 2 optionals

 T 2 strings

 T 3 arguments

 T 3 integers

 T 3 optionals

 T 3 strings

 T 4 arguments

 T 4 integers

 T 4 optionals

 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 csnameunchecked

 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 lxmld

 F next

 F nextchar

 F nextexploded

 F number

 F optional

 F peek

 F peekchar

 F peekexploded

| | |
|----------------------------|-----------------------|
| F real | N other |
| F scanclose | N parameter |
| F scanopen | N space |
| F skip | N subscript |
| F skipexpanded | N superscript |
| F string | N whitespace |
| F table | N close |
| F token | F inspect |
| F tokencode | N open |
| F tokenlist | F report |
| F tokens | F scanargument |
| F toks | F scanargumentasis |
| F value | F scanarray |
| F vbox | F scanboolean |
| F verbatim | F scanbox |
| F vtop | F scanbracketed |
| F whd | F scanbracketedasis |
| F word | F scancardinal |
| setinteger function | F scanclose |
| setters table | F scancode |
| F box | F scanconditional |
| F char | F scancsname |
| F count | F scancsnameunchecked |
| F dimen | F scandelimited |
| F glue | F scandimen |
| F lua | F scandimenargument |
| F macro | F scandimension |
| F skip | F scanglue |
| shortcuts table | F scangluespec |
| T bits | F scangluevalues |
| N active | F scanhash |
| N alignment | F scanhbox |
| N begingroup | F scaninteger |
| N character | F scanintegerargument |
| N close | F scankeyword |
| N comment | F scankeywordcs |
| N endgroup | F scanletters |
| N endofline | F scanlist |
| N escape | T scanners |
| N ignore | F argument |
| N invalid | F argumentasis |
| N letter | F array |
| N mathshift | F boolean |
| N open | F box |

| | |
|-------------------|-----------------|
| F bracketed | F skip |
| F bracketedasis | F skipexpanded |
| F cardinal | F string |
| F char | F table |
| F cmdchr | F token |
| F cmdchrexplained | F tokencode |
| F code | F tokenlist |
| F conditional | F tokens |
| F count | F toks |
| F csname | F value |
| F csnameunchecked | F vbox |
| F delimited | F verbatim |
| F dimen | F vtop |
| F dimenargument | F whd |
| F dimension | F word |
| F float | F scannumber |
| F glue | F scanopen |
| F gluespec | F scanoptional |
| F gluevalues | F scanstring |
| F hash | F scantable |
| F hbox | F scantokenlist |
| F integer | F scantoks |
| F integerargument | F scanvbox |
| F ischar | F scanverbatim |
| F key | F scanvtop |
| F keyword | F scanword |
| F keywordcs | F toboolean |
| F letters | F todimen |
| F list | T tokens |
| F luacardinal | T accessors |
| F luainteger | F active |
| F luanumber | F cmd |
| F lxmliid | F cmdchrsc |
| F next | F cmdname |
| F nextchar | F command |
| F nextexpanded | F csname |
| F number | F expandable |
| F optional | F frozen |
| F peek | F index |
| F peekchar | F name |
| F peekexpanded | F protected |
| F real | F range |
| F scancluse | F astable |
| F scanopen | T cache |

| | |
|---------------------------|--------------------|
| U NC | S tostring |
| U NR | F create |
| U bf | F defined |
| U buff_finish | F flags |
| U c_font_compact | F getinteger |
| U color | T getters |
| U colordefalc | F box |
| U colordefflc | F count |
| U colordefflt | F ctoken |
| U colordefrlt | F dimen |
| U dofinishreference | F glue |
| U dostarttext | F macro |
| U finishjob | F meaning |
| U firstofoneargument | F skip |
| U firstoftwoarguments | F token |
| U gobbleoneargument | F gobble |
| U goto | F isdefined |
| U iftrue | F istoken |
| U input | F new |
| U loadfoundtypescriptfile | F pickup |
| U resetctxscanner | F popmacro |
| U rlap | T presets |
| U secondoftwoarguments | F pushmacro |
| U setfalsevalue | F setinteger |
| U setsectionblock | T setters |
| U setupsystem | F box |
| U startcolumns | F char |
| U starttabulate | F count |
| U starttitle | F dimen |
| U startxtitle | F glue |
| U stopcolumns | F lua |
| U stoptabulate | F macro |
| U stoptitle | F skip |
| U stopxtitle | T shortcuts |
| U texsetup | N close |
| U xmlw | F inspect |
| D commands | N open |
| F compile | F report |
| F constant | F scanargument |
| T converters | F scanargumentasis |
| S toboolean | F scanarray |
| S todimen | F scanboolean |
| S toglue | F scanbox |
| S tonumber | F scanbracketed |

F scanbracketedasis
F scancardinal
F scanclose
F scancode
F scanconditional
F scanscname
F scanscnameunchecked
F scandelimited
F scandimen
F scandimenargument
F scandimension
F scan glue
F scan glue spec
F scan glue values
F scanhash
F scanhbox
F scaninteger
F scanintegerargument
F scankeyword
F scankeywordcs
F scanletters

F scanlist
F scannumber
F scanopen
F scanoptional
F scanstring
F scantable
F scantokenlist
F scantoks
F scanvbox
F scanverbatim
F scanvtop
F scanword
F toboolean
F todimen
F tonumber
F tostring

D values

F tonumber

F tostring

values data table

tracers (context)

printerror function
printwarning function

showlines function

trackers (context)

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

typesetters (context)

alignments table

F handler
F set

breakpoints table

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

cases table

T actions
F handler
F register
F set

characteralign table

F handler
F resetcharacteralign
F setcharacteralign

characters table

F handler
T methods
F replacensp
F replacenspaces

checkers table

F handler
F reset
F set

cleaners table

F handler
F set

digits table

T actions
F handler
F set

directions table

F getfences
F getglobal
F getmethod
F handler

T handlers
F installhandler
F set
F setcolor
F tomode

firstlines table

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

fontkerns table

F handler

initials table

T actions
F default
F handler
F set

injectors table

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

italics table

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

kerns table

D factors
F handler
F keepligature
D mapping
F set

localboxes table

F handler

manipulators table

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

margins table

F finalhandler
F globalhandler
F localhandler
F save

marksuspects function

paragraphs table

F addanchortoline
F addtoline
F calculatedelta
F checkline
F moveinline

periodkerns table

D factors
F handler
D mapping
F set

processors table

F apply
F register
F reset
F split
F startapply
F stopapply

F stripped

F tostring

rubies table

F attach

F check

showsuspects function

spacings table

F define

F handler

D mapping

T numbers

 T frenchpunctuation

 T characters

 S name

 N number

F reset

F set

F setup

synchronize table

F handler

tighten table

F handler

wrappers table

xtables table

F cleanup

F construct

F create

F finish_row

F flush

F initialize_construct

F initialize_reflow_height

F initialize_reflow_width

F next_row

F reflow_height

F reflow_width

F set_construct

F set_reflow_height

F set_reflow_width

updaters (context)

apply function

register function

url (context)

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

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

utf8 (basic lua)

char function
charpattern string
codepoint function

codes function
len function
offset function

utilities (context)

debugger table

F disable
F enable
F savestats
F showstats
F showtraceback

files table

F close
F getposition
F getsize
F look
F open
F read2dot14
F readbyte
F readbytes
F readbytetable
F readcardinal
F readcardinal1
F readcardinal1le
F readcardinal2
F readcardinal2le
F readcardinal3
F readcardinal3le
F readcardinal4
F readcardinal4le
F readcardinaltable
F readchar
F readcline
F readcstring
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 unittoxml

randomizer table

- F get
- F getnumber
- F getrepeatable
- F getrepeatableseed
- F getseed
- F newrepeatable

| | | | |
|--------------------|-------|---------------------|-------|
| F popseed | | F sparse | |
| F pushseed | | streams | table |
| F repeatable | | F close | |
| F reuseseed | | F getposition | |
| F setseed | | F getsize | |
| F setseedi | | F getstring | |
| randomizers | table | F look | |
| F poisson | | F open | |
| sequencers | table | F openstring | |
| F appendaction | | F read2dot14 | |
| F appendgroup | | F readbyte | |
| F compile | | F readbytes | |
| F disableaction | | F readbytetable | |
| F disablegroup | | F readcardinal | |
| F enableaction | | F readcardinal1 | |
| F enablegroup | | F readcardinal11e | |
| D functions | | F readcardinal2 | |
| F localize | | F readcardinal21e | |
| F new | | F readcardinal3 | |
| F nodeprocessor | | F readcardinal31e | |
| F prependaction | | F readcardinal4 | |
| F prependgroup | | F readcardinal41e | |
| F removeaction | | F readcardinaltable | |
| F replaceaction | | F readchar | |
| F setkind | | F readcline | |
| F tostring | | F readcstring | |
| setters | table | F readfixed2 | |
| F disable | | F readfixed4 | |
| F enable | | F readinteger | |
| F initialize | | F readinteger1 | |
| F list | | F readinteger11e | |
| F new | | F readinteger2 | |
| F register | | F readinteger21e | |
| F report | | F readinteger3 | |
| F reset | | F readinteger31e | |
| F show | | F readinteger4 | |
| stacker | table | F readinteger41e | |
| F new | | F readintegertable | |
| storage | table | F readsignedbyte | |
| F allocate | | F readstring | |
| F checked | | F setposition | |
| F mark | | F size | |
| F marked | | F skip | |
| F setinitializer | | F skipbytes | |

| | | | |
|-----------------------|--------------|-------------------|--------------|
| F skiplong | | F removevalue | |
| F skipshort | | F replacevalue | |
| F tocardinal1 | | tar | table |
| F tocardinal1le | | T archives | |
| F tocardinal2 | | F closearchive | |
| F tocardinal2le | | T files | |
| F tocardinal3 | | F fetch | |
| F tocardinal3le | | F hash | |
| F tocardinal4 | | F list | |
| F tocardinal4le | | F pack | |
| strings | table | F unpack | |
| F collapse | | F openarchive | |
| F collapsecrlf | | T registeredfiles | |
| T formatters | | T streams | |
| F add | | F fetch | |
| F new | | F hash | |
| F newcollector | | F list | |
| F newrepeater | | F pack | |
| F nice | | F unpack | |
| T striplinepatterns | | T strings | |
| U collapse | | F fetch | |
| U prune | | F hash | |
| U prune and collapse | | F list | |
| U prune and no empty | | F pack | |
| U prune and to space | | F unpack | |
| U retain | | templates | table |
| U retain and collapse | | F load | |
| U retain and no empty | | F replace | |
| F striplines | | F replacer | |
| F striplong | | F resolve | |
| F tabtospace | | zipfiles | table |
| T tracers | | F close | |
| tables | table | F found | |
| F accesstable | | F hash | |
| F definedtable | | F list | |
| F definetable | | F open | |
| F encapsulate | | F unzip | |
| F insertaftervalue | | F unzipdir | |
| F insertbeforevalue | | F zipdir | |
| F migratetable | | | |

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

| | | | |
|-------------------|----------|-----------------|----------|
| __pow | function | i | function |
| __sub | function | imag | function |
| __tostring | function | log | function |
| __unm | function | new | function |
| abs | function | pow | function |
| acos | function | proj | function |
| acosh | function | real | function |
| arg | function | sin | function |
| asin | function | sinh | function |
| asinh | function | sqrt | function |
| atan | function | tan | function |
| atanh | function | tanh | function |
| conj | function | topair | function |
| cos | function | tostring | function |
| cosh | function | totable | function |
| exp | 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 toengstring |
| F __idiv | | F tonumber |
| T __index | | F tostring |
| F __add | | F trim |
| F __band | | F __le |
| F __bor | | F __lt |
| F __bxor | | F __mod |
| F __div | | F __mul |
| F __eq | | S __name |
| F __idiv | | F __pow |
| F __le | | F __shl |
| F __lt | | F __shr |
| F __mod | | F __sub |
| F __mul | | F __tostring |
| S __name | | F __unm |
| F __pow | | F abs |
| F __shl | | F band |
| F __shr | | F bor |
| F __sub | | F bxor |
| F __tostring | | F conj |
| F __unm | | F copy |
| F abs | | F exp |
| F band | | F getprecision |
| F bor | | F ln |
| F bxor | | F log |
| F conj | | F max |
| F copy | | F min |
| F exp | | F minus |

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

xmath (extra lua)

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

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

xml (context)

| | | | |
|---------------------------|----------|------------------------|------------|
| addentitiesdoctype | function | F family | |
| addspecialcode | function | F fontspecification | |
| after | function | F mappedstylevalue | |
| all | function | F padding | |
| applylpath | function | F size | |
| applyselector | function | F style | |
| assign | function | F stylevalue | |
| attribute | function | F todimension | |
| badinclusions | function | F variant | |
| before | function | F weight | |
| body | function | defaulthandlers | table |
| builtinentities | table | D file | |
| B amp | | D parsedxml | |
| B apos | | D string | |
| B gt | | D tex | |
| B lt | | D texline | |
| B quot | | D texspace | |
| CDATA | function | D verbose | |
| CDATATOTEXT | function | defaultprotocol | string |
| checkboxom | function | delete | function |
| checkedempty | 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 | expand | function |
| content | function | expressions | table |
| convert | function | F attribute | |
| copy | function | F boolean | |
| count | function | F child | |
| cprint | function | F contains | |
| CSS | table | F count | |
| F applyselector | | F error | |
| F colorspecification | | F find | |
| F dimension | | F hasclass | |

| | | | |
|-------------------|----------|----------------------------|----------|
| F idstring | | F text | |
| F lower | | F upper | |
| 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 |

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

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|---------------------------------|----------|----------------------------------|----------|
| <code>S '</code> | | <code>texttocdata</code> | function |
| <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>S ~</code> | | <code>traverse</code> | function |
| <code>specialhandler</code> | table | <code>unescaped</code> | function |
| <code>sprint</code> | function | <code>unescapedentitylpeg</code> | userdata |
| <code>string</code> | function | <code>unprivatized</code> | function |
| <code>strip</code> | function | <code>unspecialized</code> | function |
| <code>strip_whitespace</code> | function | <code>wipe</code> | function |
| <code>stripelement</code> | function | <code>withelement</code> | function |
| <code>stripleadingspaces</code> | function | <code>withelements</code> | function |
| <code>table</code> | function | <code>wrap</code> | function |
| <code>text</code> | function | <code>xmlns</code> | table |
| <code>textonly</code> | function | | |

xzip (extra lua)

adler32 function

compress function

compresssize function

crc32 function

decompress function

decompresssize function

zip (extra lua)

archives

table

closearchive

function

openarchive

function

registeredfiles

table

zlib (extra lua)

adler32 function
compress function
compresssize function

crc32 function
decompress function
decompresssize function