

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
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**
texisdefined texmodes texsystemmodes thirddata
token tokens tracers trackers typesetters
updaters url userdata **utf8** utilities
visualizers **xcomplex** **xdecimal** **xmath** xml **xzip**
zip **zlib**

ConT_EXt LMTX

global (alias: _G)

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

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

| | | | |
|--------------------|----------|--------------------|----------|
| toboolean | function | utf | table |
| todecimal | function | utf8 | table |
| token | table | utilities | table |
| tokens | table | visualizers | table |
| tonumber | function | warn | function |
| tostring | function | xcomplex | table |
| tracers | table | xdecimal | table |
| trackers | table | xmath | table |
| type | function | xml | table |
| typesetters | table | xpcall | function |
| unpack | function | xzip | table |
| updaters | table | zip | table |
| url | table | zlib | table |
| userdata | 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 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 register | |

| | |
|--------------------------|-----------------|
| D registered | F handler |
| B supported | B hasorder |
| F toattribute | D listwise |
| B triggering | F register |
| F value | D registered |
| D values | F resolve_begin |
| unsetvalue | F resolve_end |
| values | F resolve_reset |
| viewerlayers | F resolve_step |
| N attribute | D scopes |
| F cleanup | F setfeatures |
| D data | F start |
| F define | F stop |
| F definedlayoutcomponent | B supported |
| F enable | D values |
| F forcesupport | |

backends (context)

closeout function

codeinjections table

F registerboxresource

F restoreboxresource

current string

defaults table

T codeinjections

F prerollreference

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 fieldsurrounding

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 mergeviewerlayers

F newimage

F png

F prerollreference

F presetsymbol

F presetsymbollist

F processrendering

F registerdocumentcloseaction

F registerdocumentopenaction

F registeredsymbol

F registerpagecloseaction

F registerpageopenaction
 F registerpattern
 F registersymbol
 F ruleactionbox
 F ruleactiondraw
 F ruleactionfill
 F ruleactionmp
 F ruleactionstroke
 F saveboxresource
 F scanimage
 F setattachmentsupport
 F setencryption
 F setfieldcalculationset
 F setfigurealternative
 F setfigurecolorspace
 F setfiguremask
 F setformat
 F setformsmethod
 F setpagetransition
 F settaggingsupport
 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 | F define | |
| assign | function | F hassomecontent | |
| collectcontent | function | F next | |
| empty | function | F place | |
| erase | function | F reset | |
| exists | function | F save | |
| get | function | prepend | function |
| getcontent | function | raw | function |
| getlines | function | run | function |
| gettexbuffer | function | samplefile | function |
| loadcontent | function | undent | function |
| parallel | table | | |

builders (context)

checkparcontext function

checksidefloat function

kernel table

F collapsing

F hyphenating

F kerning

F ligaturing

F mlisttohlist

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 distance

F fixedprofile

F get

F list

F pagehandler

F profilebox

F set

vspacing table

D categories

F checkstrutdepth

F collapsevbox

T data

D map

D skip

D snapmethods

F definesnapmethod

B fixed

F 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 | savedata | function |
| getfirstreadablefile | function | setfirstwritablefile | function |
| getreadablepaths | function | setluanames | function |
| getwritablepath | function | treehash | function |
| hashed | function | usedpaths | function |
| is_writable | function | | |

callback (basic tex)

find function
known function
list function

register overloaded function
usage function

callbacks (context)

freeze function

functions table

F start_page_number

F stop_page_number

known function

list data table

pop function

push function

register function

report function

supported table

B 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_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 paragraph_context

B post_linebreak_filter

B pre_dump

B pre_linebreak_filter

B pre_output_filter

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 anudatta | |
| bidirectional | data table | T before_half | |
| blockrange | function | T before_main | |
| blocks | data table | T before_postscript | |
| casemap | table | T before_subscript | |
| categories | data table | T below_mark | |
| category | function | T consonant | |
| categorytags | data table | T dependent_vowel | |
| classifiers | table | T halant | |
| collapsed | data table | T independent_vowel | |
| combined | data table | T nukta | |
| contextname | function | T post_mark | |
| csletters | data table | T pre_mark | |
| data | data table | T ra | |
| decomposed | data table | T stress_tone_mark | |
| description | function | T twopart_mark | |
| descriptions | data table | T vowel_modifier | |
| detailtags | data table | initialize | function |
| directions | table | is_character | data table |
| emoji | table | is_command | data table |
| F compact | | is_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 | | private | table |
| T after_half | | ranges | data table |
| T after_main | | registerentities | function |
| T after_postscript | | remap_hangul_syllable | function |
| T after_subscript | | 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)

cleanname function
content function
define function
is_usable function

is_valid function
read function
usecache boolean
write function

converters (context)

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

uchexnumbers

upper

verbose

D data

function

function

table

F translate

weekday

word

words

function

function

function

coroutine (basic lua)

| | |
|--------------------|----------|
| close | function |
| create | function |
| isyieldable | function |
| resume | function |

| | |
|----------------|----------|
| running | function |
| status | function |
| wrap | function |
| yield | function |

ctxrunner (context)

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

debug (basic lua)

getinfo function

sethook function

traceback function

dir (context)

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

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

directives (context)

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

| | |
|-----------------|----------|
| register | function |
| report | function |
| reset | function |
| show | function |
| value | function |
| 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 scan | |
| badname | function | F serialize | |
| bases | data table | T sizes | |
| bitmapimage | function | B art | |
| boxnumber | number | B bleed | |
| cachepaths | data table | B crop | |
| check | function | B media | |
| checkers | 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 |
| F resetstore | | resources | data table |

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

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

fonts (context)

| | | |
|-------------------|-------|-------------------------|
| analyzers | table | |
| D features | | F currentfonthasfeature |
| D initializers | | D designsizes |
| D methods | | F enhanceparameters |
| F setstate | | T enhancers |
| D states | | T afm |
| B useunicodemarks | | F apply |
| | | F patch |
| | | T patches |
| | | F register |
| | | F report |
| | | F register |
| | | F report |
| | | T otf |
| | | F addfeature |
| | | F apply |
| | | F enhance |
| | | F patch |
| | | T patches |
| | | F register |
| | | F report |
| | | F register |
| | | F report |
| | | T tfm |
| | | F apply |
| | | F patch |
| | | T patches |
| | | F register |
| | | F report |
| | | F register |
| | | F report |
| | | N factor |
| | | T features |
| | | D afm |
| | | D otf |
| | | D tfm |
| | | F finalize |
| | | F getfeatureaction |
| | | F getmathparameter |
| | | F getprivate |
| | | T handlers |
| | | T afm |

| | |
|----------------------------|---|
| B autoprefixed | 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 |
| S defaultnodealternate | F pluginprocessor |
| D features | T plugins |
| F featuresinitializer | T text |
| F featuresprocessor | D pngcache |
| F getactualtext | B pngenabled |

| | |
|-------------------|--------------------------|
| T readers | F reversechainedcontexts |
| F addunicodetable | F single |
| F avar | F gvar |
| F cbdt | F head |
| F cblc | T helpers |
| F cff | F axistofactors |
| F cff2 | F cleanname |
| F cffcheck | 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 context | F open |
| F extension | F read2dot14 |
| F ligature | F readbyte |
| F multiple | F readbytes |

| | |
|---------------------|---------------------|
| 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 |
| F writecardinal3 | N kern |
| F writecardinal3le | N mark |
| F writecardinal4 | N mkmk |
| F writecardinal4le | 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
- T tfm
- D cache
- D features
- N maxnestingdepth
- N maxnestingsize
- T readers
- F loadpk
- F loadtfm
- F loadtfmfvf
- 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
- N version
- D whatever
- F hashfeatures
- F hashinstance
- T hashmethods
- F normal
- F virtual

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

| current | function |
|------------------|----------|
| currentid | function |
| definers | table |

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

| | | | |
|------------------------|------------|-------------------------|-------|
| F resolve | | F type3 | |
| T resolvers | | T multiple | |
| F file | | F opentype | |
| F name | | T substitution | |
| F spec | | F opentype | |
| definetypface | function | goodies | table |
| dropins | table | D colorschemes | |
| F clone | | T data | |
| F getshape | | T dejavu-math | |
| F getshapes | | S author | |
| F nextid | | S comment | |
| F provide | | S copyright | |
| F registerglyph | | B initialized | |
| F registerglyphs | | T mathematics | |
| F swap | | T alternates | |
| F swapone | | T dotless | |
| encodings | table | S comment | |
| T agl | | S feature | |
| D ctxcodes | | N value | |
| D extras | | T bigslots | |
| D names | | T parameters | |
| D synonyms | | N AccentBaseDepth | |
| D unicodes | | N FractionRuleThickness | |
| D cache | | N NoLimitSubFactor | |
| F is_known | | N NoLimitSupFactor | |
| D known | | T tweaks | |
| F load | | T aftercopying | |
| F make_unicode_vector | | S name | |
| D math | | S version | |
| N version | | D designsizes | |
| enhanceid | function | D filenames | |
| expansions | data table | F getcompositions | |
| formats | data table | T list | |
| getalternate | function | F load | |
| getindices | function | F prepare_features | |
| getkern | function | F register | |
| getmultiple | function | F registerpostprocessor | |
| getsubstitution | function | F report | |
| getters | table | T suffixes | |
| T alternate | | handlers | table |
| F opentype | | hashes | table |
| T kern | | D characters | |
| F opentype | | D classes | |
| F type1 | | 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
F fontpatternhassize
F getcoloredglyphs

F getdigitwidth
F getinstancespec
F getparameters
F getprivatecharornode
F getprivatenode
F getprivates
F getprivateslot
F hasprivate
F indextoslot
F mathscriptslots
F name
F nametoslot
F newprivateslot
F prependcommands
F prependcommandtable
F privateslot
F registerglyphbox
F scalecommands
F setboxdirectly
F setboxglyph
F setboxglyphs
F setdigitwidth
F setmetaglyph
F setmetaglyphs
F splitfontpattern
F tochar
T vfinjectors

F startcolor
F stopcolor
T vfspecials
T backgrounds
T outlines

infofont function

iterators table

F characters
F descriptions
F glyphs

loggers table

F format
F onetimemessage
F register
F reportdefinedfonts
F reportusedfeatures

mappings table

- F addtounicode
- F fromunicode16
- F getentry
- F loadfile
- F loadline
- F makenameparser
- D overloads
- F reset
- F tounicode
- F tounicode16
- F tounicode16sequence

metapost table

- F boundingbox
- F boxtomp
- F draw
- F fill
- F glyph
- F maxbounds
- F paths
- F widthline
- F zeroline

names data table

nulldata data table

privateoffsets table

- B keepnames
- N mathbase
- N mathextrabase
- N textbase
- N textextrabase

protrusions data table

readers table

- F afm
- F check_lua
- F check_tfm
- F lua
- F ofm
- F opentype
- F otf
- F pfb
- D sequence
- F tfm
- F ttc
- F ttf
- F woff

registersanitizer function

reserveid function

select table

- D alternatives
- F bodyfont
- D data
- F default
- D defaults
- F definefallbackfamily
- F definefontfamily
- F definefontfamilypreset
- D extras
- F fallback
- D fallbacks
- F features
- F filefallback
- F fontdata
- F fontfallback
- F fontsynonym
- F goodies
- F mathfallback
- D methods
- D presets
- F registerfallback
- F registerfiles
- F registerfontalternative
- F registerfontfamily
- F textfallback
- F typeface
- F typescript
- F userdata

specifiers table

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

| | | | |
|----------------|-------|-------------------|-------|
| D variants | | treatments | table |
| symbols | table | F applyfixes | |
| T emoji | | D data | |
| F checked | | S filename | |
| F resolved | | F ignoredfile | |
| F uselibrary | | F report | |
| tables | table | F trace | |
| tracers | table | typefaces | table |

functions (context)

dummy function

graphics (context)

backgrounds table

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

bitmaps table

- F flush
- F new
- F placeholder
- F tocontext

identifiers table

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

identify function

synchronizers table

- F collapse
- F collect
- F extend
- F getbottom
- F getd
- F geth
- F getkind
- F getsizes
- F gettask
- F gettop
- F getw
- F getx
- F gety
- F prune

gzip (extra lua)

compress function
compressed function
decompress function

load function
save function
suffix function

images (context)

| | | | | |
|-----------------------|----------|--|------------------|----------|
| 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 |
| B bleed | | | | |

interactions (context)

attachments data table

fields table

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

general table

- F getidentity
- F getidentityvariable

help table

- F collect
- F reference
- F register

javascripts table

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

D functions

D preambles

F setpreamble

F storecode

F storepreamble

F usepreamblenow

F usescripts

linkedLists data table

pages table

F setpagetransition

F setupcanvas

references table

F setcloseddocumentaction

F setclosepageaction

F setopendocumentaction

F setopenpageaction

renderings data table

interfaces (context)

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

io (basic lua)

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

job (context)

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

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

language (basic tex)

| | |
|-------------------------|----------|
| clean | function |
| 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
getpagedimensions function
setupcanvas function

status table
 F isleftpage
 F lefttorrightpageaction

lfs (extra lua)

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

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

libraries (context)

basiclua data table

basictex data table

builtin data table

extralua data table

extratex data table

functions data table

globals data table

lmx (context)

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

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

logs (context)

| | | | |
|-----------------------------|----------|----------------------------|----------|
| application | function | 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 | delayedobject | function |
| adddocumentcolorspace | function | destinationspecification | function |
| adddocumenttextgstate | function | dictionary | function |
| adddocumentpattern | function | docstring | function |
| adddocumentshade | function | epdf | table |
| addtocatalog | function | F analyzefonts | |
| addtoinfo | function | F contenttotext | |
| addtonames | function | F expanded | |
| addtopageattributes | function | F getpagecontent | |
| addtopageresources | function | F getstructure | |
| addtopagesattributes | function | T image | |
| addxmpinfo | function | F close | |
| annotationspecification | function | F copy | |
| array | function | F new | |
| attachmentsymbols | function | F open | |
| boolean | function | F query | |
| border | function | F load | |
| checkedkey | function | F objecttype | |
| checkedvalue | function | F parsecontent | |
| circularshade | function | F plugin | |
| cmykcode | function | T resolvers | |
| collectedresources | function | F destinations | |
| color | function | F embeddedfiles | |
| colorspace | function | F javascripts | |
| colorspaceconstants | data table | F layers | |
| colorspec | function | F pages | |
| colorvalue | function | F structure | |
| colorvalues | function | F widgets | |
| commentsymbols | function | F stripcontent | |
| compresslevel | function | F unload | |
| constant | function | F verboseobject | |
| copyarray | function | escaped | function |
| copyboolean | function | finalizeddocument | function |
| copyconstant | function | finalizefonts | function |
| copydictionary | function | finalizepage | function |
| copyfloat | function | finishtransparencycode | function |
| copyinteger | function | flags | table |
| copynumber | function | T annotations | |
| copystring | function | N AutoView | |
| copyunicode | function | N Hidden | |
| deferredobject | function | 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 | usedfontnames | table |
| object | function | N dejavusansmonoboldttf-1 | |
| objectcompresslevel | function | usedfontobjects | table |
| pagereference | function | N dejavusansmonoboldttf-1 | |
| patternstream | function | usedfontstreams | table |
| pdfcolor | function | T dejavusansmonoboldttf-1 | |
| pdftimestamp | function | T characters | |
| print | function | T descriptions | |
| procset | function | T fonts | |
| protectresources | boolean | T goodies | |
| rectangle | function | S original | |
| reference | function | T parameters | |
| registerannotation | function | N ascender | |
| registerdestination | function | N descender | |
| registerdocumentfinalizer | function | N designsize | |
| registerfont | function | T expansion | |
| registerinitializer | function | N shrink | |
| registerpagefinalizer | function | N step | |
| registerpattern | function | N stretch | |
| reserveobject | function | N extendfactor | |
| rgbcode | function | N extrafactor | |
| rotationcm | function | N extraspace | |
| setcompression | function | N factor | |
| setencryption | function | N forcedsize | |
| setincludecidset | function | N hfactor | |
| setpageorder | function | N mathsize | |
| setpagetag | function | N maxsize | |
| setversion | function | N minsize | |
| sharedobject | function | N mode | |
| shareobject | function | N quad | |
| shareobjectreference | function | N scaledpoints | |
| spotcode | function | N size | |
| stream | function | N slant | |
| string | function | N slantfactor | |
| toeight | function | N space | |
| topdfdoc | function | N spaceshrink | |
| tosixteen | function | N spacestretch | |
| transparency | function | N squeezefactor | |
| transparencycode | function | N textsize | |
| transparencygroups | table | N units | |
| B none | | N vfactor | |
| transparencyvalue | function | N width | |
| unicode | function | N xheight | |
| usedcharacters | table | T properties | |

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

| | |
|-----------------|----------------|
| B * | N Cdotaccent |
| T tlig | 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 Alphanos | 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 Ccircumflex | N Idieresis |

| | |
|-----------------|-------------------|
| 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 Oslashacute | N Wgrave |

| | |
|--------------------|------------------|
| 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 arrowdblleft | N colonmonetary |

| | |
|---------------------|------------------|
| N comma | N epsilon |
| N congruent | N equal |
| N copyright | N equivalence |
| N currency | N estimated |
| N d | N eta |
| N dagger | N etatons |
| 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 epsilon | N hcircumflex |

| | |
|----------------------|--------------------|
| N heart | N logicaland |
| N hookabovetwo | 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 lira | N omega1 |

| | |
|------------------|------------------|
| 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 quotedblright | N tau |

N tbar
N tcaron
N tcommaaccent
N therefore
N theta
N theta1
N thinquestion
N thorn
N three
N threeeighths
N threequarters
N threesuperior
N tilde
N tildecomb
N tonos
N trademark
N triagdn
N triaglf
N triagrt
N triagup
N two
N twosuperior
N twothirds
N u
N ugrave
N uhorn
N uhungarumlaut
N umacron
N underbar
N underbar.small
N underbar.wide
N underscore
N underscoredbl
N union
N universal
N uogonek
N upblock
N upsilon
N upsilondieresis
N upsilondieresis-tonos
N upsilontonos
N uring
N utilde
N v

N w
N wacute
N wcircumflex
N wdieresis
N wgrave
N x
N xi
N y
N yacute
N ycircumflex
N ydieresis
N yen
N ygrave
N z
N zacute
N zcaron
N zdotaccent
N zero
N zeta
S version
T shared
T dynamics
T features
B analyze
B checkmarks
B devanagari
B dummies
B extensions
B extrafeatures
B extraprivates
B features
S indic
B mathrules
S mode
N number
B spacekern
B visuals-space
T processes
T rawdata
S cache_uuid
N cache_version
B compacted
B condensed
S creator

| | |
|------------------------|------------------------|
| 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 | T unscaled |
| N maxadvanceheight | N cache_version |
| N maxadvancewidth | T changed |
| N maxextent | T characters |

T descriptions
 T mathparameters
 T parameters
 N ascender
 N charwidth
 N descender
 N designsizes
 N extraspace
 N italicangle
 N maxsize
 N minsize
 N quad
 N slant
 N space
 N spaceshrink
 N spacestretch
 N units
 N vheight
 N xheight

T properties
 S filename
 S fontname
 S format
 S fullname
 B hasmath
 N id
 S mode
 B monospaced
 S name
 N private
 S psname
 B setitalics
 S space
 N subfont

S writingmode

usedindices

T dejavusansmonoboldttf-1

verbose

table

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

lxml (context)

| | | | |
|--------------------------|------------|-------------------------|----------|
| addindex | function | first | function |
| all | function | flush | function |
| applyfunction | function | flushlinewise | function |
| applyselectors | function | flushsetups | function |
| att | function | flushspacewise | function |
| attribute | function | get_id | function |
| badinclusions | function | getid | function |
| chainattribute | function | getindex | function |
| checkindex | function | id | function |
| collected | function | idsplitter | userdata |
| command | function | 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

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

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 | T less | |
| addvariant | function | T more | |
| alphabets | data table | T zero | |
| alternatives | data table | | privatebase number |
| big | function | | registerdomain function |
| boldmap | data table | | registerfallbackid function |
| categories | table | | registersimplematrix function |
| D functions | | | remapalphabets function |
| charactersets | data table | | renderings table |
| checkaccentbaseheight | function | D mappings | |
| checkprivateparameters | function | D numbers | |
| classes | data table | D sets | |
| classnames | data table | | renderset function |
| codes | data table | | resetattributes function |
| collected | function | | resetitalics function |
| define | function | | resolvefallbacks function |
| dimensions | function | | scaleparameters function |
| domains | table | | setdomain function |
| extensiblecode | function | | setitalics function |
| extensibles | data table | | sets data table |
| extrabase | number | | setvariant function |
| extras | table | | startcollecting function |
| F add | | | stopcollecting function |
| F copy | | | styles data table |
| fallbacks | table | | syncboth function |
| F apply | | | syncname function |
| F install | | | syncstyle function |
| fallbackstyleattr | function | | toengineclass function |
| finishfallbacks | function | | toname function |
| gaps | data table | | tostyle function |
| getboth | function | | tweakaftercopyingfont function |
| getdomain | function | | tweakbeforecopyingfont function |
| getitalics | function | | tweaks table |
| getstyle | function | F accentdimensions | |
| horizontalcode | function | F action | |
| initializeparameters | function | F addrules | |
| makefont | function | F addscripts | |
| mapremap | data table | F checkspacing | |
| overloadparameters | function | F dimensions | |
| preset | function | F fixanchors | |
| presets | table | F fixprimes | |

| | | | |
|----------------------|----------|-----------------------|------------|
| F fixradicals | | utfmathclass | function |
| F replace | | utfmathcommand | function |
| F replacements | | utfmathfiller | function |
| F substitute | | utfmathstretch | function |
| F substitutes | | virtualize | function |
| F variant | | virtualized | data table |
| F variants | | | |
| F version | | | |
| utfmathaccent | function | | |

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

| | | | |
|-------------------------|----------|----------------------|----------|
| reportsvgfonts | function | svgsplitcolor | function |
| reset | function | svgtomp | function |
| resetlastlog | function | svgtopdf | function |
| resetplugins | function | sxsy | function |
| run | function | tex | table |
| runinternal | function | F get | |
| runscript | function | F reset | |
| scanparameters | function | F set | |
| scripterror | function | F setfrombuffer | |
| scriptindex | function | texerrors | boolean |
| setbendtolerance | function | texexp | function |
| setbuffer | function | theclippath | function |
| setextensions | function | tographic | function |
| setlogging | function | totable | function |
| setoutercolor | function | types | table |
| setparameterset | function | N boolean | |
| setrecord | function | N cmykcolor | |
| settext | function | N color | |
| setvariable | function | N dependent | |
| showlog | boolean | N independent | |
| showsvgpage | function | N known | |
| 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 unknownpath | |
| N ex | | N unknownpen | |
| N in | | N unknownpicture | |
| N mm | | N unknownstring | |
| N pc | | N unsuffixedmacro | |
| N pt | | N vacuum | |
| N px | | typesvgpage | function |
| svgglyphomp | function | unload | function |
| svgshapestomp | function | untagvariable | function |
| svgshapestopdf | function | variables | table |

mime (extra lua)

b64 function

decode function

decodet table

F base64

F quoted-printable

dot function

encode function

encodet table

F base64

F quoted-printable

eol function

normalize function

qp function

qpwrp function

report function

stuff function

unb64 function

unqp function

wrap function

wrapt table

F base64

F default

F quoted-printable

F text

wrp function

mp (context)

| | | | |
|-------------------|----------|--------------------------------------|----------|
| autoinject | function | 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 |

| | | | |
|---------------------------------------|----------|--------------------------------|----------|
| <code>lmt_contours_nofvalues</code> | function | <code>n</code> | function |
| <code>lmt_contours_nx</code> | function | <code>number</code> | function |
| <code>lmt_contours_ny</code> | function | <code>numeric</code> | function |
| <code>lmt_contours_range</code> | function | <code>pair</code> | function |
| <code>lmt_contours_shade_paths</code> | function | <code>pairpoints</code> | function |
| <code>lmt_contours_shade_set</code> | function | <code>path</code> | function |
| <code>lmt_contours_shape_paths</code> | function | <code>pathpoints</code> | function |
| <code>lmt_contours_start</code> | function | <code>points</code> | function |
| <code>lmt_contours_stop</code> | function | <code>print</code> | function |
| <code>lmt_contours_value</code> | function | <code>F boolean</code> | |
| <code>lmt_contours_xrange</code> | function | <code>F color</code> | |
| <code>lmt_contours_yrange</code> | function | <code>F direct</code> | |
| <code>lmt_function_x</code> | function | <code>F draw</code> | |
| <code>lmt_mesh_set</code> | function | <code>F fill</code> | |
| <code>lmt_mesh_update</code> | function | <code>F flush</code> | |
| <code>lmt_poisson_generate</code> | function | <code>F fprint</code> | |
| <code>lmt_surface_do</code> | function | <code>F integer</code> | |
| <code>lmt_svg_include</code> | function | <code>F number</code> | |
| <code>mf_blob_add</code> | function | <code>F numeric</code> | |
| <code>mf_blob_dimensions</code> | function | <code>F pair</code> | |
| <code>mf_blob_index</code> | function | <code>F pairpoints</code> | |
| <code>mf_blob_new</code> | function | <code>F path</code> | |
| <code>mf_blob_raw_content</code> | function | <code>F pathpoints</code> | |
| <code>mf_blob_raw_dimensions</code> | function | <code>F points</code> | |
| <code>mf_blob_raw_reset</code> | function | <code>F print</code> | |
| <code>mf_blob_raw_toutf</code> | function | <code>F quadruple</code> | |
| <code>mf_blob_raw_wipe</code> | function | <code>F quadruplepoints</code> | |
| <code>mf_blob_size</code> | function | <code>F quoted</code> | |
| <code>mf_blob_width</code> | function | <code>F size</code> | |
| <code>mf_external_figure</code> | function | <code>F string</code> | |
| <code>mf_finish_saving_data</code> | function | <code>F transform</code> | |
| <code>mf_formatted_text</code> | function | <code>F triplet</code> | |
| <code>mf_get_outline_text</code> | function | <code>F tripletpoints</code> | |
| <code>mf_graphic_text</code> | function | <code>F vprint</code> | |
| <code>mf_inject_blob</code> | function | <code>processingmode</code> | function |
| <code>mf_map_move</code> | function | <code>quadruple</code> | function |
| <code>mf_map_text</code> | function | <code>quadruplepoints</code> | function |
| <code>mf_named_color</code> | function | <code>quoted</code> | function |
| <code>mf_outline_text</code> | function | <code>report</code> | function |
| <code>mf_save_data</code> | function | <code>scan</code> | table |
| <code>mf_script_index</code> | function | <code>F boolean</code> | |
| <code>mf_start_saving_data</code> | function | <code>F cmykcolor</code> | |
| <code>mf_stop_saving_data</code> | function | <code>F color</code> | |
| <code>mode</code> | function | <code>F expression</code> | |

| | | |
|-----------------|----------------------|----------|
| F integer | T typescanners | |
| F next | F whatever | |
| F number | set | table |
| F numeric | size | function |
| F pair | skip | table |
| F path | F token | |
| F pen | solve | function |
| F property | string | function |
| F string | systemmode | function |
| F symbol | transform | function |
| F token | triplet | function |
| T tokenscanners | tripletpoints | function |
| F transform | vprint | function |

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

node (basic tex)

| | | |
|-----------------------------|----------|----------------------|
| checkdiscretionaries | function | F flushlist |
| checkdiscretionary | function | F flushnode |
| copy | function | F free |
| copy_list | function | F get_attribute |
| copylist | function | F get_attributes |
| count | function | F getanchors |
| current_attributes | function | F getattribute |
| currentattributes | function | F getattributelist |
| dimensions | function | F getattributes |
| direct | table | F getboth |
| F addmargins | | F getbox |
| F addxoffset | | F getcachestate |
| F addxymargins | | F getchar |
| F addyoffset | | F getcharspec |
| F appendaftertail | | F getdata |
| F checkdiscretionaries | | F getdepth |
| F checkdiscretionary | | F getdirection |
| F collapsing | | F getdisc |
| F copy | | F getdiscpart |
| F copy_list | | F getexpansion |
| F copylist | | F getfam |
| F copyonly | | F getfield |
| F count | | F getfont |
| F current_attributes | | F getgeometry |
| F currentattributes | | F getglue |
| F dimensions | | F getglyphdata |
| F effective_glue | | F getglyphdimensions |
| F effectiveglue | | F getheight |
| F end_of_math | | F getid |
| F endofmath | | F getindex |
| F exchange | | F getkern |
| F fields | | F getkerndimension |
| F find_node | | F getlanguage |
| F findattribute | | F getleader |
| F findattributerange | | F getlist |
| F findnode | | F getnext |
| F first_glyph | | F getnormalizedline |
| F firstglyph | | F getnucleus |
| F flattendiscretionaries | | F getoffsets |
| F flush_list | | F getoptions |
| F flush_node | | F getorientation |

| | |
|---------------------|----------------------|
| F getparstate | F insertbefore |
| F getpenalty | F is_char |
| F getpost | F is_glyph |
| F getpre | F is_node |
| F getprev | F is_valid |
| F getpropertystable | F is_zero_glue |
| F getproperty | F ischar |
| F getreplace | F isglyph |
| F getscale | F isnextchar |
| F getscales | F isnextglyph |
| F getscrip | F isnode |
| F getshift | F isprevchar |
| F getspeciallist | F isprevglyph |
| F getstate | F isspeciallist |
| F getsub | F isvalid |
| F getsubpre | F iszeroglue |
| F getsubtype | F kerning |
| F getsup | F length |
| F getsuppre | F ligaturing |
| F getsynctexfields | F makeextensible |
| F gettotal | F migrate |
| F getusedattributes | F mlist_to_hlist |
| F getwhd | F mlisttohlist |
| F getwidth | F naturalhsize |
| F getwordrange | F naturalwidth |
| F getxscale | F new |
| F getxyscales | F newmathglyph |
| F getyscale | F newtextglyph |
| F has_attribute | F patchattributes |
| F has__field | F prependbeforehead |
| F has_glyph | F protect_glyph |
| F hasattribute | F protect_glyphs |
| F hasdimensions | F protectglyph |
| F hasfield | F protectglyphs |
| F hasgeometry | F protrusionskipable |
| F hasglyph | F rangedimensions |
| F hasglyphoption | F remove |
| F hpack | F reverse |
| F hyphenating | F serialized |
| F id | F set_attribute |
| F ignoremathskip | F set_attributes |
| F insert_after | F setanchors |
| F insert_before | F setattribute |
| F insertafter | F setattributelist |

| | |
|------------------|--------------------|
| F setattributes | F setsuppre |
| F setboth | F setsyntexfields |
| F setbox | F setttotal |
| F setchar | F setwhd |
| F setdata | F setwidth |
| F setdepth | F show |
| F setdirection | F slide |
| F setdisc | F softenhyphens |
| F setdiscpart | F start_of_par |
| F setexpansion | F startofpar |
| F setfam | F subtypes |
| F setfield | F tail |
| F setfont | F todirect |
| F setgeometry | F tonode |
| F setglue | F toString |
| F setglyphdata | F tovaliddirect |
| F setheight | F traverse |
| F setindex | F traverse_char |
| F setkern | F traverse_content |
| F setlanguage | F traverse_glyph |
| F setleader | F traverse_id |
| F setlink | F traverse_list |
| F setlist | F traversechar |
| F setnext | F traversecontent |
| F setnucleus | F traverseglyph |
| F setoffsets | F traverseid |
| F setoptions | F traverselist |
| F setorientation | F type |
| F setpenalty | F types |
| F setpost | F unprotect_glyph |
| F setpre | F unprotect_glyphs |
| F setprev | F unprotectglyph |
| F setproperty | F unprotectglyphs |
| F setreplace | F unset_attribute |
| F setscales | F unset_attributes |
| F setscript | F unsetattribute |
| F setshift | F unsetattributes |
| F setspeciallist | F usedlist |
| F setsplit | F uses_font |
| F setstate | F usesfont |
| F setsub | F values |
| F setsubpre | F verticalbreak |
| F setsubtype | F vpack |
| F setup | F write |

F xscaled
 F yscaled
effective_glue function
effectiveglue function
end_of_math function
endofmath function
family_font function
fields function
findattribute function
first_glyph function
firstglyph function
flattendiscretionaries function
flush_list function
flush_node function
flushlist function
flushnode function
free function
get_attribute function
getattribute function
getcachestate function
getfield function
getglue function
getpropertyestable function
getproperty function
has_attribute function
has_field function
has_glyph function
hasattribute function
hasfield function
hasglyph function
hpack function
hyphenating function
id function
insert_after function
insert_before function
insertafter function
insertbefore function
instock function
inuse function
is_node function
is_zero_glue function
isnode function
iszeroglue function

kerneling function
last_node function
lastnode function
length function
ligaturing function
makeextensible function
mlist_to_hlist function
mlisttohlist function
new function
protect_glyph function
protect_glyphs function
protectglyph function
protectglyphs function
protrusionskipppable function
rangedimensions function
remove function
serialized function
set_attribute function
setattribute function
setfield function
setglue function
setProperty function
show function
slide function
subtypes function
tail function
tostring function
traverse function
traverse_id function
traverseid function
type function
types function
unprotect_glyph function
unprotect_glyphs function
unprotectglyph function
unprotectglyphs function
unset_attribute function
unsetattribute function
usedlist function
usesfont function
values function
vpack function
write function

nodes (context)

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

| | | | |
|------------------------|----------|--------------------------------|------------|
| F cleanupbox | | insertafter | function |
| F cleanuppge | | insertbefore | function |
| F export | | insertlistafter | function |
| F finalizebox | | installattributehandler | function |
| F finalizelist | | is_display_math | function |
| F flatten | | is_node | function |
| F flattenline | | isnode | function |
| F migrate | | kerncodes | data table |
| F protectglyphs | | leftmarginwidth | function |
| F recolor | | linefillers | table |
| F show | | F filler | |
| F showhyphenation | | F handler | |
| F stripping | | F set | |
| F textbackgrounds | | lines | table |
| F unprotectglyphs | | T boxed | |
| F visualizehyphenation | | F addlinenumbers | |
| F wipe | | F register | |
| has_attribute | function | F setup | |
| has_field | function | D data | |
| hasattribute | function | F finalize | |
| hasfield | function | F number | |
| hpack | function | link | function |
| idsandsubtypes | function | linked | function |
| idstostring | function | list | function |
| injections | table | listcodes | data table |
| F copy | | listtoutf | function |
| F getligaindex | | literalvalues | data table |
| F getthreshold | | locate | function |
| F handler | | markcodes | data table |
| F installgetspaceboth | | markers | table |
| F installnewkern | | F get | |
| 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 |
| F setmove | | noadoptions | table |
| F setposition | | N axis | |
| F setspacekerns | | N exact | |
| insert_after | function | N left | |
| insert_before | function | N middle | |

| | | |
|------------------------|-------------------|--------------------------|
| N no_axis | | F dirdimensions |
| N right | | F effective_glue |
| N set | | F effectiveglue |
| N unused_1 | | F end_of_math |
| N unused_2 | | F endofmath |
| nodecodes | data table | F exchange |
| nopts | function | F find_attribute |
| nuts | table | F findattribute |
| F addmargins | | F findnode |
| F addxoffset | | F first_glyph |
| F addxymargins | | F firstcharacter |
| F addyoffset | | F firstcharinbox |
| F append | | F firstglyph |
| F appendaftertail | | F flattendiscretionaries |
| F apply | | F flush |
| F applyvisuals | | F flush_list |
| F checkdiscretionaries | | F flush_node |
| F checkslide | | F flushlist |
| F collapsing | | F flushnode |
| T colors | | F free |
| F set | | F fullhpack |
| T components | | F get_attribute |
| F copynocomponents | | F get_synctex_fields |
| F copyonlyglyphs | | F getanchors |
| F count | | F getattr |
| F flush | | F getattribute |
| F get | | F getattributelist |
| F set | | F getattributes |
| F concat | | F getattrlist |
| F copy | | F getattrs |
| F copy_list | | F getboth |
| F copy_node | | F getbox |
| F copy_only | | F getboxglue |
| F copy_properties | | F getchar |
| F copyleft | | F getcharspec |
| F copynode | | F getcomponents |
| F copyonly | | F getdata |
| F copyvisual | | F getdepth |
| F count | | F getdirection |
| F countall | | F getdisc |
| F current_attr | | F getdiscpart |
| F currentattributes | | F getdiscretionary |
| F delete | | F getexpansion |
| F dimensions | | F getfam |

F getfield
F getfont
F getgeometry
F getglue
F getglyphdata
F getglyphdimensions
F getheight
F getid
F getindex
F getkern
F getkerndimension
F getlang
F getlanguage
F getleader
F getlist
F getnext
F getnormalizedline
F getnucleus
F getoffsets
F getoptions
F getorientation
F getparstate
F getpenalty
F getpost
F getpre
F getprev
F getprop
F getreplace
F getruledata
F getscale
F getscales
F getscript
F getshift
F getspeciallist
F getstate
F getsub
F getsubpre
F getsubtype
F getsup
F getsuppre
F getsurround
F getsyntexfields
F gettotal
F getusedattributes

F getvalue
F getwhd
F getwidth
F getwordrange
F getxscale
F getxyscales
F getsyscale
F has_attribute
F has_dimensions
F has_field
F has_glyph
F hasattribute
F hasdimensions
F hasfield
F hasgeometry
F hasglyph
F hasglyphoption
F hpack
F hyphenating
F ignoremathskip
F insert_after
F insert_before
F insertafter
F insertbefore
F insertlistafter
F is_display_math
F is_node
F is_zero_glue
F ischar
F isdone
F isglyph
F isnextchar
F isnextglyph
F isnode
F isprevchar
F isprevglyph
F iszeroglue
F kerning
F length
F ligaturing
F link
F linked
F locate
F migrate

| | |
|---------------------|----------------------|
| F mlist_to_hlist | F outlinerule |
| F mlisttohlist | F pageliteral |
| F naturalhsize | F penalty |
| F naturalwidth | F radical |
| F nestedtracedslide | F rawliteral |
| F new | F register |
| F newmathglyph | 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 sublist |
| F fontkern | F temp |
| F fraction | F usage |
| F glue | F userdefined |
| F gluespec | T userids |
| F glyph | F usernode |
| F hlist | F userrule |
| F imagerule | F vlist |
| F indentskip | F wordboundary |
| F italickern | F prepend |
| F kern | F prependbeforehead |
| F latelua | F processranges |
| F leader | F processwords |
| F lefthangskip | F protect_glyph |
| F leftmarginkern | F protect_glyphs |
| F leftskip | F protectglyph |
| F lineskip | F protectglyphs |
| F literal | F protrusionskipable |
| F mathchar | F rangedimensions |
| F mathtextchar | F rawprop |
| F negatedglue | F reference |
| F noad | F rehpack |
| F originliteral | F remove |

| | |
|--------------------|--------------------|
| F repackhlist | F setlist |
| F replace | F setnext |
| F reverse | F setnucleus |
| T rules | F setoffsets |
| T ruleactions | F setoptions |
| F box | F setorientation |
| F draw | F setparproperty |
| F fill | F setpenalty |
| F mp | F setpost |
| F stroke | F setpre |
| F userrule | F setprev |
| F serialized | F setprop |
| F set_attribute | F setreplace |
| F setanchors | F setruledata |
| F setattr | F setscale |
| F setattribute | F setscales |
| F setattributelist | F setscript |
| F setattributes | F setshift |
| F setattrlist | F setspeciallist |
| F setattrs | F setsplit |
| F setboth | F setstate |
| F setbox | F setsub |
| F setboxglue | F setsubpre |
| F setchar | F setsubtype |
| F setcomponents | F setsup |
| F setdata | F setsuppre |
| F setdepth | F setsurround |
| F setdirection | F setsynctexfields |
| F setdisc | F setvalue |
| F setdiscpart | F setvisual |
| F setdiscretionary | F setvisuals |
| F setexpansion | F setwhd |
| F setfam | F setwidth |
| F setfield | F show |
| F setfont | F slide |
| F setgeometry | F softenhyphens |
| F setglue | F somepenalty |
| F setglyphdata | F somespace |
| F setheight | F splitbox |
| F setkern | F start_of_par |
| F setlang | F startofpar |
| F setlanguage | F striprange |
| F setleader | F tail |
| F setlink | F takeattr |

| | | |
|-------------------|---------------------|------------|
| F takebox | F tohpack | |
| F takelist | F tonodes | |
| F theprop | F toinbox | |
| F tonode | F tovpack | |
| F tonodes | F unprotect_glyph | |
| F tonut | F unprotect_glyphs | |
| F tosequence | F unprotectglyph | |
| F tostring | F unprotectglyphs | |
| F tracedslide | F unset_attribute | |
| F traverse | F unsetattribute | |
| F traverse_char | F unsetattributes | |
| F traverse_glyph | F untracedslide | |
| F traverse_id | F usedlist | |
| F traverse_list | F uses_font | |
| F traversechar | F usesfont | |
| F traversecontent | F verticalbreak | |
| F traverseglyph | F vianodes | |
| F traverseid | 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 list | T namespace | |
| F mark | N attribute | |
| F next | D data | |
| F node | F enable | |
| F unset | F handler | |
| F vlist | F register | |
| F whatsit | D registered | |
| T treversers | D values | |
| F char | F processor | |
| F content | points | function |
| F glyph | pool | table |
| F list | F baselineskip | |
| F node | F cleanup | |
| T typesetters | F directliteral | |
| F tohbox | F glyph | |

| | | | |
|-------------------------|------------|----------------------------|------------|
| F hlist | | F set | |
| F latelua | | F userrule | |
| F leader | | serialize | function |
| F lineskip | | serializebox | function |
| F literal | | serialized | function |
| F originliteral | | set_attribute | function |
| F register | | setattr | function |
| F restore | | setattribute | function |
| F save | | setboth | function |
| F savepos | | setbox | function |
| F setmatrix | | setboxtonaturalwd | function |
| F stock | | setchar | function |
| F usage | | setfield | function |
| F usernode | | setfont | function |
| F vlist | | setleader | function |
| prepend | function | setlink | function |
| print | function | setlist | function |
| processors | table | setnext | function |
| F alignment_filter | | setprev | function |
| F append_line_filter | | setproperty | function |
| F glyph_run | | shifts | table |
| F post_linebreak_filter | | F handler | |
| F pre_linebreak_filter | | F set | |
| F trace_glyph_run_a | | showboxes | function |
| F trace_glyph_run_b | | showlist | function |
| properties | table | showsimplelist | function |
| T data | | skipcodes | data table |
| pts | function | snapshots | table |
| radicalcodes | data table | F getsamples | |
| references | table | F resetsamples | |
| N attribute | | F takesample | |
| T done | | somepenalty | function |
| F handler | | somespace | function |
| T stack | | specialskipcodes | table |
| reheapack | function | splitbox | function |
| remove | function | startofpar | function |
| repackhlist | function | stripdiscctionaries | function |
| replace | function | stripping | table |
| report | function | T glyphs | |
| rightmarginwidth | function | F set | |
| rulecodes | data table | subtypes | data table |
| rules | table | tail | function |
| F handler | | takeattr | function |
| F process | | takebox | function |

| | | | |
|-----------------------|--------------|------------------------|----------|
| 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 | |
| to didots | function | F reset | |
| to dimen | function | F start | |
| to inches | function | F stop | |
| to millimeters | 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 | traverse_id | function |
| tosequence | function | traverseid | function |
| tostring | function | typesetters | table |
| totable | function | F hbox | |
| totree | function | F hpack | |
| toutf | function | F tohbox | |
| tracers | table | F tohpack | |
| T colors | | F tonodes | |
| F reset | | F tovbox | |
| F set | | F tovpack | |
| F setlist | | F vpack | |
| F directions | | unset_attribute | function |
| F fontchar | | unsetattribute | function |
| T frequencies | | usedlist | function |
| F register | | vianodes | function |

vianuts

visualizebox

visualizers

F attribute

T attributes

F box

F handler

F markfonts

T modes

N depth

N dir

N discretionary

N expansion

N fontkern

N glue

N glyph

N hbox

N insert

N italic

N kern

N line

N marginkern

N mark

N math

function

function

table

N mathglue

N mathkern

N origin

N par

N penalty

N simple

N simplehbox

N simplevbox

N simplevtop

N space

N strut

N user

N vbox

N vtop

N whatsit

F register

F setfont

F setlayer

F setruledglyph

F setvisual

vpack

whatsitcodes

write

function

data table

function

number (context)

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

objects (context)

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

optional (context)

curl table

F escape
F fetch
F getversion
F initialize
F unescape

foreign table

F abivalues
F 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)

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

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

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

injections table

- F flushafter
- F flushbefore
- F save

mixedcolumns table

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

pdf (basic tex)

`immediateobj` function

pdfe (extra tex)

| | | | |
|--------------------------|------------|------------------------|------------|
| arraytotable | function | 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 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 | | specifications | table |
| listvariants | table | T default | |
| F default | | S author | |
| F index | | S comment | |
| F num | | S copyright | |
| F short | | S name | |
| F tag | | S version | |
| load | function | D virtual | |
| loadbibdata | function | splitauthor | function |
| loaddefinitionfile | function | splitoneauthor | function |
| loaders | table | statistics | table |
| F bbl | | N nofbytes | |
| F bib | | N nofdatasets | |
| F buffer | | N nofdefinitions | |
| F endnote | | N nofshortcuts | |

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D privates
D sets
D specials
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F showdatasetauthors
F showdatasetcompleteness
F showdatasetfields
F showentry

F showfields

F showhashedauthors

F showtables

F showvariants

typesetters

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F author

F string

usedataset

function

usedentries

function

writers

table

F author

F keyword

F pagenumber

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 currentcomponent | |
| expandedpathlistfromvariable | function | F currentenvironment | |
| expandpath | function | F currentproduct | |
| expandpathfromvariable | function | F currentproject | |
| expansion | function | F justacomponent | |
| extendtexmfvariable | function | D processors | |
| filtered_from_content | function | F productcomponent | |
| find_file | function | F usefile | |
| find_files | function | joinpath | function |
| findbinfile | function | knownvariables | function |
| findctxfile | function | libraries | table |
| finders | data table | F optionalloaded | |
| findfile | function | F validoptional | |

| | | | |
|--------------------------|------------|-------------------------------|------------|
| 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 | | |
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| F convertfile | | F none | |
| F decodecomment | | F strip | |
| F enablecomment | | F cleanname | |
| F encodecomment | | F fetchstring | |
| F preprocessed | | F fetchtable | |
| F processmk | | F install | |
| F processmklx | | setdynamic | function |
| F processmkvi | | setenv | function |
| F version | | showpath | function |
| maxreadlevel | number | simplescanfiles | function |
| methodhandler | function | splitconfigurationpath | function |
| openbinfile | function | splitexpansions | function |
| openers | data table | splitmethod | function |
| openfile | function | splitpath | function |
| opentexfile | function | stackpath | function |
| ownpath | string | starttiming | function |
| popextrapath | function | stoptiming | function |
| popinputname | function | suffixes | data table |
| poppath | function | suffixmap | data table |
| prefixes | data table | suffixofformat | function |
| prependhash | function | texdatablob | function |
| pushextrapath | function | toppath | function |
| pushinputname | function | tracers | data table |
| pushpath | function | unexpandedpath | function |
| registerextrapath | function | unexpandedpathlist | function |
| registerfile | function | unresolve | function |
| registerfilehash | function | updaterelations | function |
| registerintrees | function | updatescript | function |
| registermethod | function | uselibrary | function |
| registerzipfile | function | usertypes | data table |
| relations | data table | usezipfile | function |

| | | | |
|-------------------------|----------|---------------------------------|----------|
| validatedpath | function | variableofformatorsuffix | function |
| variable | function | wildcardpattern | function |
| variableofformat | 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 |
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| settrace | function |
| validfilename | function |

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F disable
F enable
F handler

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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

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F nobreakspace_after

F nobreakspace_before

F space_after

F space_before

F zerowidthspace_after

F zerowidthspace_before

installdataset function

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numbertodataset data table

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reset function

set function

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set (context)

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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 |
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| readcardinal4le | function |
| readcardinaltable | function |
| readcline | function |
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| readfixed2 | function |
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| readinteger1 | function |

| | |
|-------------------------|----------|
| readinteger1le | function |
| readinteger2 | function |
| readinteger2le | function |
| readinteger3 | function |
| readinteger3le | function |
| readinteger4 | function |
| readinteger4le | function |
| readintegertable | function |
| tocardinal1 | function |
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| tocardinal2 | function |
| tocardinal2le | function |
| tocardinal3 | function |
| tocardinal3le | function |
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| 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
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 S upgrade
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 S warning
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sorters (context)

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| comparers | table | | B uc |
| F basic | | | B zc |
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| S defaultlanguage | | firstofsplit | function |
| S defaultmethod | | packch | function |
| N digitmaximum | | packuc | function |
| N digitoffset | | replacementlist | function |
| N ignoredoffset | | setlanguage | function |
| N replacementoffset | | sort | function |
| T validmethods | | splitters | table |
| B ch | | F utf | |
| B mc | | strip | function |
| B mm | | tracers | data table |
| B pc | | 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 | nspaces | table |
| autosingle | function | optionalquoted | function |
| booleanstring | function | pack | function |
| byte | function | packrowscolumns | function |
| bytepairs | function | packsize | function |
| bytes | function | quote | function |
| bytetable | function | quoted | function |
| char | function | rep | function |
| characterpairs | function | replacenewlines | function |
| characters | function | reverse | function |
| checkedsplit | function | split | function |
| collapsespaces | function | splitlines | function |
| containsws | function | splitup | function |
| count | function | strip | function |
| dawson | function | sub | function |
| dump | function | texnewlines | function |
| erf | function | tformat | function |
| erfc | function | toHEX | function |
| erfcx | function | toboollean | function |
| erfi | function | tobytes | function |
| escapedpattern | function | tocontext | function |
| escapedquotes | function | todec | function |
| explode | function | todimen | function |
| f6 | function | tohex | function |
| find | function | tonodes | function |
| format | function | topattern | function |
| formatter | function | totable | function |
| formatters | function | tounicode16 | function |
| fullstrip | function | toutf | function |
| gmatch | function | toutf32 | function |
| gsub | 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 |
| nspaces | function | utfcharactertable | function |

| | | | |
|-------------------|----------|----------------------|----------|
| utflength | function | utfvaluetable | function |
| utfpadd | function | valid | function |
| utfpadding | function | voigt | function |
| utfvalue | function | voigt_hwhm | function |
| utfvalues | 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 |
| lists | table |
| F addto | |
| F analyze | |
| B autoreorder | |
| D cached | |
| D collected | |
| F discard | |
| F enhance | |
| T enhancers | |
| F filter | |
| F formulainumber | |
| F getresult | |
| F groupindex | |
| F hasnumberdata | |
| F haspagedata | |
| F hastitledata | |
| 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 realpage | |
| F reordered | |
| T result | |
| F savedlistnumber | |
| F savedlistprefixednumber | |
| F savedlisttitle | |
| D sectionblocks | |
| F sectionnumber | |
| F size | |
| F title | |
| D tobesaved | |
| 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

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

table

F getinternalcachedlistreference
 F getinternallistreference
 F getinternalreference
 F getoutermethod
 D handlers
 F identify
 F import
 F inject
 F injectcurrentset
 S innermethod
 D internals
 F load
 F loadpresets
 F mark
 S outermethod
 D pages
 U prefixsplitter
 D productdata
 T programs
 T data
 F define
 F get
 F realpageofpage
 U referencesplitter
 D referred
 F referredpage
 F registerfinalizer
 F registerinitializer
 F registerpage
 F reset
 D runners
 F set
 F setandgetattribute
 F setcomponent
 F setinternalreference
 F setlinkmethod
 F setnextinternal
 F setnextorder
 F setreferencerealpage
 D specials
 F splitcomponent
 F splitprefix
 F splitreference
 F synchronizepage

- T testrunners
 - F inner
 - F special
 - F special operation
 - F special operation with arguments

- T testspecials

- F deltapage
- F i
- F internal
- F page
- F realpage
- F section
- F userpage

- D tobereferred

- D tobesaved

- D tracedpages

- T urls

- T data
- F define
- F found
- F get
- F untex

- D usedinternals

- D usedviews

- F valid

registers

table

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

- F unique

- F userdata

sections

table

- F autodepth
- F cct
- D collected
- F current
- F currentblock
- F currentid
- F currentlevel
- F currentsectionindex
- F depthnumber
- F finddata
- F findnumber
- F fullnumber
- F getcurrentlevel
- F getlevel
- F getnumber
- F internalreference
- D levelmap
- D levels
- F matchingtilldepth
- F numberatdepth
- F numbers
- F popblock
- F prefixedconverted
- F pushblock
- F register
- D registered
- F reportstructure
- F save
- T sectionblockdata
 - T bodypart
 - S bookmark
- F set
- F setblock
- F setchecker
- F setentry
- F setinitialblock
- F setlevel
- F setnumber
- F showstructure
- F structuredata
- F title

| | | |
|-----------------|--------------|---------------------|
| D tobesaved | | F mrow |
| F typesetnumber | | F mtable |
| F userdata | | T destinationhash |
| B verbose | | T extras |
| sets | table | F adddestination |
| F define | | F addimplicit |
| F get | | F addinternal |
| F getall | | F addreference |
| D setlist | | F combination |
| specials | table | F delimitedsymbol |
| D collected | | F description |
| F retrieve | | F descriptionsymbol |
| F store | | F document |
| D tobesaved | | F float |
| synonyms | table | F formulacontent |
| F analyzed | | F image |
| D collected | | F item |
| F compare | | F itemgroup |
| F define | | F link |
| F filter | | F listitem |
| F finalize | | F mi |
| F flush | | F msub |
| F isshown | | F msup |
| F isused | | F paragraph |
| F meaning | | F publication |
| F prepare | | F reference |
| F process | | F registerlocation |
| F register | | F registerpages |
| F registershown | | F registerseparator |
| F registerused | | F section |
| F reset | | F sorting |
| F resetall | | F subsentencesymbol |
| F resetlist | | F synonym |
| F resetshown | | F tablecell |
| F resetused | | F tabulate |
| F sort | | F tabulatecell |
| F synonym | | T finalizers |
| D tobesaved | | F descriptions |
| tags | table | T fixes |
| T backend | | F linenumber |
| T checks | | T listdata |
| F marginanchor | | T referencehash |
| F margintext | | F setattribute |
| F math | | T usedimages |

| | |
|---------------------|---------------------------|
| T image | F setcombination |
| T usedstyles | F setconstruct |
| T construct | F setfigure |
| T highlight | F setfloat |
| F current | F setformulacontent |
| F elementtag | F sethighlight |
| F enabled | F setitem |
| F exportbox | F setitemgroup |
| F finishexport | F setlist |
| F getextradata | F setnotation |
| F getid | F setnotationsymbol |
| F getmetadata | F setparagraph |
| F gettablecell | F setproperty |
| F gettabulatecell | F setpublication |
| F handler | F setregister |
| F initializeexport | F setsorting |
| D labels | F setsynonym |
| F last | F settablecell |
| F lastinchain | F settabulatecell |
| F localexport | F settagdelimitedsymbol |
| F locatedtag | F settagsubsentencesymbol |
| T patterns | F setupexport |
| U splitter | F setuserproperties |
| D properties | D specifications |
| F registerextradata | F start |
| F registermetadata | F stop |
| F restart | F strip |
| F setaspect | D taglist |
| F setattributefield | T usewithcare |

table (basic lua)

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

tex (basic tex)

| | | | |
|-----------------------------------|------------|---------------------------------|----------|
| attribute | table | getattribute | function |
| automigrationcodes | data table | getautomigrationvalues | function |
| badness | function | getbox | function |
| box | table | getboxdir | function |
| boxresources | table | getboxresourcebox | function |
| F getbox | | getboxresourcedimensions | function |
| F getdimensions | | getcatcode | function |
| F save | | getcount | function |
| F use | | getdelcode | function |
| catcode | table | getdelcodes | function |
| chardef | function | getdelimtermodevalues | function |
| codes | table | getdimen | function |
| conditionals | data table | getdimensionvalue | function |
| constants | data table | getdiscoptionvalues | function |
| count | table | getdiscstatevalues | function |
| cprint | function | geterrorvalues | function |
| ctdcatcodes | number | getflagvalues | function |
| ctxcatcodes | number | getfontoffamily | function |
| definefont | function | getfrozenparvalues | function |
| delcode | table | getglue | function |
| dimen | table | getglyphdata | function |
| dimensiondef | function | getglyphoptionvalues | function |
| directives | data table | getglyphscales | function |
| discoptioncodes | data table | getglyphscript | function |
| dontcomplain | function | getglyphstate | function |
| enableprimitives | function | getgroupvalues | function |
| error | function | gethelptext | function |
| expandasvalue | function | gethyphenationvalues | function |
| experiments | data table | getinsertcontent | function |
| extraprimitives | function | getinsertdepth | function |
| fatalerror | function | getinsertdistance | function |
| flagcodes | data table | getinsertheight | function |
| fontidentifier | function | getinsertlimit | function |
| fontname | function | getinsertmultiplier | function |
| forcehmode | function | getinsertwidth | function |
| forcesynctexline | function | getintegervalue | function |
| forcesynctextag | function | getinteraction | function |
| fprint | function | getiovalues | function |
| frozenparcodes | data table | getlargestusedmark | function |
| get | function | getlccode | function |
| getappendlinecontextvalues | function | getlinedir | function |

| | | | |
|----------------------------------|----------|--------------------------|---------------------|
| getlist | function | gettoks | function |
| getlistanchorvalues | function | getuccode | function |
| getlistgeometryvalues | function | glue | table |
| getlistsigvalues | function | glyphoptioncodes | data table |
| getlocalbox | function | groupcodes | data table |
| getlocallevel | function | hashtokens | function |
| getmark | function | hyphenationcodes | data table |
| getmath | function | ifs | data table |
| getmathclassoptionvalues | function | inimatcodes | number |
| getmathcode | function | integerdef | function |
| getmathcodes | function | isattribute | function |
| getmathcontrolvalues | function | isbox | function |
| getmathdir | function | iscount | overloaded function |
| getmathparametervalue | function | isdefined | function |
| getmathstylenamevalues | function | isdimen | overloaded function |
| getmathstylevalues | function | isglue | function |
| getmathvariantvalues | function | ismuglue | function |
| getmode | function | ismuskip | overloaded function |
| getmodevalues | function | isprintable | function |
| getmuglue | function | isskip | overloaded function |
| getmuskip | function | istoken | function |
| getnest | function | istoks | function |
| getnoadoptoptionvalues | function | lastnodetype | function |
| getnormalizevalues | function | lccode | table |
| getoutputactive | function | linebreak | function |
| getpacktypevalues | function | listanchorcodes | data table |
| getpagecontextvalues | function | lists | table |
| getpagestate | function | listsigncodes | data table |
| getparbeginvalues | function | luacatcodes | number |
| getparcontextvalues | function | magicconstants | table |
| getpardir | function | N assumedmathcontrol | |
| getparmodevalues | function | N awfulbad | |
| getparstate | function | N decentcriterion | |
| getprimitiveorigins | function | N defaultcatcodetable | |
| getregisterindex | function | N defaultdeadcycles | |
| getrunstatevalues | function | N defaulteqnogapstep | |
| getsfcode | function | N defaulthangafter | |
| getshapingpenaltiesvalues | function | N defaultoutputbox | |
| getskip | function | N defaultpredisplayspace | |
| getsynctexline | function | N defaulttrule | |
| getsynctexmode | function | N defaultspacefactor | |
| getsynctextag | function | N defaulttolerance | |
| gettextcontrolvalues | function | N deplorable | |
| gettextdir | function | N ejectpenalty | |

| | | |
|-----------------------------|-------------------------|------------|
| N ignoreddepth | N mininteger | |
| N infinitebad | N minquarterword | |
| N infinitepenalty | N minspacefactor | |
| N infinity | N nocatcodetable | |
| N largewidthexcess | N null | |
| N loosecriterion | N nullflag | |
| N mathbeginclass | N nullfont | |
| N mathendclass | N onebp | |
| N maxattributeregisterindex | N presetrulethickness | |
| N maxboxregisterindex | N runningrule | |
| N maxbytecodeindex | N smallstretchability | |
| N maxcardinal | N texeqtbsize | |
| N maxcategorycode | N texhashprime | |
| N maxcharactercode | N texhashsize | |
| N maxcharcode | N two | |
| N maxdatavalue | N unity | |
| N maxdimen | N unusedattributevalue | |
| N maxdimenregisterindex | N unusedmathfamily | |
| N maxfunctionreference | N unusedmathstyle | |
| N maxglueregisterindex | N unusedscriptvalue | |
| N maxhalfvalue | N unusedstatevalue | |
| N maxhalfword | N zeroglue | |
| N maxinteger | mathchardef | function |
| N maxintregisterindex | mathcode | table |
| N maxmarkindex | mathcontrolcodes | data table |
| N maxmathclasscode | modelevels | table |
| N maxmathfamilyindex | N horizontal | |
| N maxmuglueregisterindex | N math | |
| N maxnewlinecharacter | N unset | |
| N maxnofbytecodes | N vertical | |
| N maxnofcatcodetables | modes | data table |
| N maxnoffonts | mprint | function |
| N maxnoflanguages | muglue | table |
| N maxnofmarks | muskip | table |
| N maxnofmathfamilies | nest | table |
| N maxquarterword | nilcatcodes | number |
| N maxsizeofword | noadoptioncodes | data table |
| N maxspacefactor | normalizecodes | data table |
| N maxtoksregisterindex | notcatcodes | number |
| N mincardinal | number | function |
| N mindatavalue | parcontextcodes | data table |
| N mindimen | poplocal | function |
| N minhalfword | popsavelevel | function |
| N mininfinity | primitives | function |

| | | | |
|----------------------------|----------|----------------------------|---------------------|
| print | function | setmuglue | function |
| prtcategories | number | setmuskip | function |
| pushlocal | function | setnest | function |
| pushsavelevel | function | setpaddir | function |
| quitlocal | function | setrunstate | overloaded function |
| quittoks | function | setsfcode | function |
| resetparagraph | function | setskip | function |
| rlncategories | number | setsynctexline | function |
| romannumerals | function | setsynctexmode | function |
| round | function | setsynctextag | function |
| runlocal | function | settextdir | function |
| runstring | function | settoks | function |
| runtoks | function | setuccode | function |
| saveboxresource | function | sfcode | table |
| scale | function | shiftparshape | function |
| scantoks | function | shipout | function |
| set | function | showcontext | function |
| setattribute | function | skip | table |
| setbox | function | snapshotpar | function |
| setboxdir | function | sp | function |
| setcatcode | function | splitbox | function |
| setcount | function | sprint | function |
| setdelcode | function | stringtocodesbitmap | function |
| setdimen | function | systemmodes | data table |
| setdimensionvalue | function | takebox | function |
| setglue | function | texcategories | number |
| setglyphdata | function | textcontrolcodes | data table |
| setglyphscript | function | toks | table |
| setglyphstate | function | tonumber | function |
| setinsertcontent | function | toscaled | function |
| setinsertdistance | function | tpacategories | number |
| setinsertlimit | function | tpbcategories | number |
| setinsertmultiplier | function | tprint | function |
| setintegervalue | function | trackers | data table |
| setinteraction | function | triggerbuildpage | function |
| setlcode | function | txtcategories | number |
| setlinedir | function | type | function |
| setlist | function | uccode | table |
| setlocalbox | function | uprint | function |
| setmath | function | useboxresource | function |
| setmathcode | function | vrbcategories | number |
| setmathdir | function | write | function |

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 | writeln | function |
| setlogfile | function | writeselector | function |
| terminal | function | writeselectorlf | function |
| write | function | writeselectornl | function |
| write_nl | function | | |

token (basic tex)

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

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

tokens (context)

accessors table

- F active
- F cmd
- F cmdchrsc
- 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 | F cmdchrexanded |
| flags | function | F code |
| getinteger | function | F conditional |
| getters | table | F count |
| F box | | F csname |
| F count | | F csnameunchecked |
| F cstoken | | F delimited |
| F dimen | | F dimen |
| F glue | | F dimenargument |
| F macro | | F dimension |
| F meaning | | F float |
| F skip | | F glue |
| F token | | F gluespec |
| gobble | function | F gluevalues |
| isdefined | function | F hash |
| istoken | function | F hbox |
| new | function | F integer |
| pickup | function | F integerargument |
| popmacro | function | F ischar |
| presets | table | F key |
| T 1 argument | | F keyword |
| T 1 string | | F keywordcs |
| T 2 arguments | | F letters |
| T 2 strings | | F list |
| T 3 arguments | | F luacardinal |
| T 3 strings | | F luainteger |
| T 4 arguments | | F luanumber |
| T 4 strings | | F lxmlid |
| T 5 strings | | F next |
| T 6 strings | | F nextchar |
| T 7 strings | | F nextexpanded |
| T 8 strings | | F number |
| pushmacro | function | F optional |
| scanners | table | F peek |
| F argument | | F peekchar |
| F argumentasis | | F peekexpanded |
| F array | | F real |
| F boolean | | F scanclose |
| F box | | F scanopen |
| F bracketed | | F skip |
| F bracketedasis | | F skipexpanded |
| F cardinal | | F string |
| F char | | F table |
| F cmdchr | | F token |

- F tokencode
- F tokenlist
- F tokens
- F toks
- F value
- F vbox
- F verbatim
- F vtop
- F whd
- F word
- setinteger** function
- setters** table

- F box
- F char
- F count
- F dimen
- F glue
- F lua
- F macro
- F skip

- shortcuts** table

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

- N open
- F report
- F scanargument
- F scanargumentasis
- F scanarray
- F scanboolean
- F scanbox
- F scanbracketed
- F scanbracketedasis
- F scancardinal
- F scanclose
- F scancode
- F scanconditional
- F scanscsname
- F scanscsnameunchecked
- F scandelimited
- F scandimen
- F scandimenargument
- F scandimension
- F scanglue
- F scangluespec
- F scangluevalues
- F scanhash
- F scanhbox
- F scaninteger
- F scanintegerargument
- F scankeyword
- F scankeywordcs
- F scanletters
- F scanlist
- T scanners
 - F argument
 - F argumentasis
 - F array
 - F boolean
 - F box
 - F bracketed
 - F bracketedasis
 - F cardinal
 - F char
 - F cmdchr
 - F cmdchrexplanded
 - F code
 - F conditional

| | |
|-------------------|------------------|
| 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 lxmlid | F cmdchrcs |
| 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 scanclose | F astable |
| F scanopen | T cache |
| F skip | U NC |
| F skipexpanded | U NR |
| F string | U bf |
| F table | U buff_finish |
| F token | U c_font_compact |
| F tokencode | U color |
| F tokenlist | U colordefalc |
| F tokens | U colordefflc |

| | |
|---------------------------|----------------------|
| U colordefflt | F cstoken |
| 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 |
| S tostring | F scanbracketedasis |
| F create | F scancardinal |
| F defined | F scanclose |
| F flags | F scancode |
| F getinteger | F scanconditional |
| T getters | F scansname |
| F box | F scansnameunchecked |
| F count | F scandalimited |

| | |
|-----------------------|--------------------------|
| F scandimen | F scanstring |
| F scandimenargument | F scantable |
| F scandimension | F scantokenlist |
| F scanglue | F scantoks |
| F scangluespec | F scanvbox |
| F scangluevalues | F scanverbatim |
| F scanhash | F scanvtop |
| F scanhbox | F scanword |
| F scaninteger | F tobboolean |
| F scanintegerargument | F todimen |
| F scankeyword | F tonumber |
| F scankeywordcs | F tostring |
| F scanletters | D values |
| F scanlist | F tonumber |
| F scannumber | F tostring |
| F scanopen | values data table |
| F scanoptional | |

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

wrappers table

F handler

xtables table

F cleanup

F construct

F create

F finish_row

F flush

F initialize_construct

F initialize_reflow_height

F initialize_reflow_width

F next_row

F reflow_height

F reflow_width

F set_construct

F set_reflow_height

F set_reflow_width

updaters (context)

apply function

register function

url (context)

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

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

utf8 (basic lua)

char function
charpattern string
codepoint function

codes function
len function
offset function

utilities (context)

debugger table

F disable
F enable
F savestats
F showstats
F showtraceback

files table

F close
F getposition
F getsize
F look
F open
F read2dot14
F readbyte
F readbytes
F readbytetable
F readcardinal
F readcardinal1
F readcardinal1le
F readcardinal2
F readcardinal2le
F readcardinal3
F readcardinal3le
F readcardinal4
F readcardinal4le
F readcardinaltable
F readchar
F 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 readcardinal1le | |
| D functions | | F readcardinal2 | |
| F localize | | F readcardinal2le | |
| F new | | F readcardinal3 | |
| F nodeprocessor | | F readcardinal3le | |
| F prependaction | | F readcardinal4 | |
| F prependgroup | | F readcardinal4le | |
| F removeaction | | F readcardinaltable | |
| F replaceaction | | F readchar | |
| F setkind | | F readcline | |
| F tostring | | F readcstring | |
| setters | table | F readfixed2 | |
| F disable | | F readfixed4 | |
| F enable | | F readinteger | |
| F initialize | | F readinteger1 | |
| F list | | F readinteger1le | |
| F new | | F readinteger2 | |
| F register | | F readinteger2le | |
| F report | | F readinteger3 | |
| F reset | | F readinteger3le | |
| F show | | F readinteger4 | |
| stacker | table | F readinteger4le | |
| 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 | 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 | 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 | isnormal | function |
| acosh | function | j0 | function |
| asin | function | j1 | function |
| asinh | function | jn | function |
| atan | function | ldexp | function |
| atan2 | function | lgamma | function |
| atanh | function | log | function |
| cbrt | function | log10 | function |
| ceil | function | log1p | function |
| copysign | function | log2 | function |
| cos | function | logb | function |
| cosh | function | modf | function |
| deg | function | nan | number |
| erf | function | nearbyint | function |
| erfc | function | nextafter | function |
| exp | function | pi | number |
| exp2 | function | pow | function |
| expm1 | function | rad | function |
| fabs | function | remainder | function |
| fdim | function | remquo | function |
| floor | function | round | function |
| fma | function | scalbn | function |
| fmax | function | sin | function |
| fmin | function | sinh | function |
| fmod | function | sqrt | function |
| frexp | function | tan | function |
| gamma | function | tanh | function |
| hypot | function | tgamma | function |
| inf | number | trunc | function |
| isfinite | function | y0 | function |
| isinf | function | y1 | function |
| isnan | function | yn | function |

xml (context)

| | | | |
|---------------------------|----------|------------------------|------------|
| addentitiesdoctype | function | F 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 |
| checkbom | 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 | expressions | table |
| content | function | F attribute | |
| convert | function | F boolean | |
| copy | function | F child | |
| count | function | F contains | |
| cprint | function | F count | |
| CSS | table | F error | |
| F applyselector | | F find | |
| F colorspecification | | F hasclass | |
| F dimension | | F idstring | |

| | | | |
|-------------------|----------|----------------------------|----------|
| F 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 |
| F text | | inheritattributes | function |

| | | | |
|------------------------------|----------|----------------------------|----------|
| 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 & | |
| privatecodes | table | S ' | |

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

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