

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

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

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

aes (extra lua)

decode function
encode function

random function

attributes (context)

alternates table

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

applyoverloads function

checkvalues function

colorintents table

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

colors table

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

- F formatcolor
- F formatgray
- F formatluminance
- F formatluminanceratio
- F getpagecolormodel
- F gray
- F graytohsv
- F handler
- T helpers
 - F complement
 - F inbetween
 - F justone
- F hsvtogray
- F hsvtorgb
- F hwbtorgb
- F iccprofile
- F isblack
- F labtorgb
- F labtoxyz
- N main
- S model
- D models
- F mpcolor
- F mpnamedcolor
- F mpoptions
- F namedcolorattributes
- N none
- F popset
- F processcolorcomponents
- F pushset
- F register
- D registered
- F registerspotcolor
- F rgb
- F rgbtocmyk
- F rgbtogray
- F rgbtohsv
- F rgbtoxyz
- N selector
- F setlist
- F setmodel

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

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

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

backends (context)

| | | |
|-------------------------|----------|-------------------------|
| closeout | function | F analyze normalsymbol |
| codeinjections | table | F analyzesymbol |
| F registerboxresource | | F attachmentid |
| F registerfont | | F bitmap |
| F restoreboxresource | | F clonefield |
| current | string | F copyimage |
| defaults | table | F defaultprofile |
| T codeinjections | | F definefield |
| F prerollreference | | F definefieldset |
| F setautoprefix | | F defineviewerlayer |
| F vfstartcolor | | F embedfile |
| F vfstopcolor | | F embedimage |
| T nodeinjections | | F enabletags |
| F cmykcolor | | F exportformdata |
| F destination | | F fieldsurrounding |
| F graycolor | | F flushmergelayer |
| F injectknockout | | F getbookmarks |
| F injectoverprint | | F getboxresourcebox |
| F reference | | F getdefaultfieldvalue |
| F rgbcolor | | F getfieldcategory |
| F spotcolor | | F getfieldset |
| F transparency | | F getformatoption |
| T registrations | | F getinfo |
| F transparency | | F getpreviewfigure |
| D tables | | F getrefobj |
| getcallbackstate | function | F insertrenderingwindow |
| included | table | F jp2 |
| B context | | F jpg |
| B date | | F maptag |
| B id | | F mergebookmarks |
| B metadata | | F mergecomments |
| B pdf | | F mergefields |
| initialize | function | F mergereferences |
| latelua | function | F mergerenditions |
| nodeinjections | table | F mergeviewerlayers |
| nothing | function | F newimage |
| openout | function | F png |
| registered | table | F prerollreference |
| T pdf | | F presetsymbol |
| T codeinjections | | F presetsymbollist |
| F addbookmarks | | F processrendering |

F reducetags
 F registercompactor
 F registerdocumentcloseaction
 F registerdocumentopenaction
 F registeredsymbol
 F registerfiguremask
 F registerfigurerange
 F registerpagecloseaction
 F registerpageopenaction
 F registerpattern
 F registersymbol
 F ruleactionbox
 F ruleactiondraw
 F ruleactionfill
 F ruleactionmp
 F ruleactionstroke
 F saveboxresource
 F scanimage
 F setattachmentsupport
 F setautoprefix
 F setencryption
 F setfieldcalculationset
 F setfigurealternative
 F setfigurecolorspace
 F setfiguremask
 F setformat
 F setformsmethod
 F setpagetransition
 F settaggingsupport
 F setupviewerlayer
 F setxmpfile
 F startlayer
 F startunicodetoactualtext
 F startunicodetoactualtextdirect
 F stoplayer
 F stopunicodetoactualtext
 F stopunicodetoactualtextdirect
 F supportedformats
 F unicodetoactualtext
 F useviewerlayer
 F validcompactor
 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
setencryption
tables

table
function
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 (context)

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

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

blobs (context)

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

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

boolean (context)

tocontext function

tonumber function

buffers (context)

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

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

builders (context)

| | | | |
|-------------------------|----------|---------------------------------|----------|
| checkparcontext | function | F split | |
| checksidefloat | function | F start | |
| hpack | table | F stop | |
| F qualityactions | | F tag | |
| F report | | profiling | table |
| F show | | F add | |
| kernel | table | F adddrivers | |
| F collapsing | | F boxlinehandler | |
| F hyphenating | | F distance | |
| F kerning | | F fixedprofile | |
| F ligaturing | | F get | |
| F mlisttohtml | | F getrivers | |
| local_box_filter | function | F list | |
| paragraphs | table | F pagehandler | |
| T constructors | | F pagelinehandler | |
| N attribute | | F profilebox | |
| F define | | F profilelines | |
| F disable | | F set | |
| F enable | | F setlines | |
| F handler | | registerpasspasscallback | function |
| T methods | | vpack | table |
| F basic | | F qualityactions | |
| F default | | F report | |
| F hpack | | vspacing | table |
| F oneline | | D categories | |
| D names | | F checkstrutdepth | |
| D numbers | | F collapsevbox | |
| F set | | T data | |
| F start | | D map | |
| F stop | | D skip | |
| T expansion | | D snapmethods | |
| F trace | | F definesnapmethod | |
| F keptogether | | B fixed | |
| F registertogether | | F flushcontributions | |
| T solutions | | F forcepageflush | |
| T splitters | | F forcestrutdepth | |
| F define | | F getnofpreviouslines | |
| F optimize | | F inject | |
| T registered | | F injectdisable | |
| F reset | | F injectpenalty | |
| F set | | 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 buildpage_filter

B define_font

B find_format_file

B find_log_file

B get_attribute

B get_math_dictionary

B get_noad_class

B glyph_run

B handle_overload

B handle_uleader

B hpack_filter

B hpack_quality

B hyphenate

B insert_distance

B insert_par

B intercept_lua_error

B intercept_tex_error

B italic_correction

B kerning

B ligaturing

B linebreak_filter

B linebreak_quality

B local_box_filter

B make_extensible

B math_rule

B missing_character

B mlist_to_hlist

B open_data_file

B packed_vbox_filter

B paragraph_context

B paragraph_pass

B post_linebreak_filter

B pre_dump

B pre_linebreak_filter

B pre_output_filter

B process_character

B process_jobname

B quality_font

B register_extensible

B show_break

B show_build

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)

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

| | | | |
|--------------------------|------------|---------------------|------------|
| scripthash | table | tex | 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 |

chemistry (context)

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

containers (context)

cleannname function
content function
define function
is_usable function

is_valid function
read function
usecache boolean
write function

converters (context)

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

uchexnumber
uchexnumbers
upper
verbose

D data

function
function
function
table

F translate

weekday
word
words

function
function
function

coroutine (basic lua)

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

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

ctxrunner (context)

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

debug (basic lua)

getinfo function

sethook function

traceback function

dir (context)

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

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

directives (context)

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

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

document (context)

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

documentdata (context)

variable function

drivers (context)

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

| | | |
|-------------------|-----------------------|----------|
| S name | F cleanup | |
| T mpo | F convert | |
| T actions | F finalize | |
| F finalize | F initialize | |
| F initialize | F outputfilename | |
| T flushers | F prepare | |
| F character | F wrapup | |
| F popleaderlevel | T flushers | |
| F pushleaderlevel | F character | |
| F rule | F fontchar | |
| F simplerule | F group | |
| F specialrule | F image | |
| T Whatsit | F literal | |
| S name | F popleaderlevel | |
| T mps | F poporientation | |
| T actions | F pushleaderlevel | |
| F cleanup | F pushorientation | |
| F convert | F restore | |
| F finalize | F rule | |
| F initialize | F save | |
| F outputfilename | F setmatrix | |
| F prepare | F setstate | |
| F wrapup | F simplerule | |
| T flushers | F space | |
| 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 |
| T actions | | |

environment (context)

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

experiments (context)

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

figures (context)

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

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

file (basic lua)

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

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

fio (extra lua)

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

| | |
|-------------------------|----------|
| readinteger1le | function |
| readinteger2 | function |
| readinteger2le | function |
| readinteger3 | function |
| readinteger3le | function |
| readinteger4 | function |
| readinteger4le | function |
| readintegertable | function |
| setposition | function |
| skipposition | function |
| writecardinal1 | function |
| writecardinal1le | function |
| writecardinal2 | function |
| writecardinal2le | function |
| writecardinal3 | function |
| writecardinal3le | function |
| writecardinal4 | function |
| writecardinal4le | function |

floats (context)

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

font (basic tex)

| | |
|----------------------|----------|
| addcharacters | function |
| addquality | function |
| current | function |
| define | function |
| getfont | function |
| getfontdimen | function |
| getfontspec | function |
| getmathindex | function |

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

fonts (context)

| | | |
|---------------------------|-------|--------------------------|
| analyzers | table | F beforepassingfonttotex |
| D features | | D cache |
| D initializers | | F calculatescale |
| D methods | | F checkedfeatures |
| F setstate | | F checkedfilename |
| D states | | F collectprocessors |
| B useunicodemarks | | F currentfonthasfeature |
| callbacks | table | D designsizes |
| F callback | | F enhanceparameters |
| F devirtualize | | T enhancers |
| checkers | table | T afm |
| F getmissing | | F apply |
| D mapping | | F patch |
| F missing | | T patches |
| F placeholder | | F register |
| cid | table | F report |
| F getmap | | F register |
| F loadfile | | F report |
| collections | table | T otf |
| F checkenabled | | F addfeature |
| F clonevector | | F apply |
| F define | | F enhance |
| T definitions | | F patch |
| F direct | | T patches |
| F found | | F register |
| F prepare | | F report |
| F process | | F register |
| F register | | F report |
| F registermain | | T tfm |
| F report | | F apply |
| F reset | | F patch |
| T rscales | | T patches |
| T vectors | | F register |
| constructors | table | F report |
| F addcharacters | | F register |
| F addcoreunicodes | | F report |
| F aftercopyingcharacters | | N factor |
| F applyfinalizers | | T features |
| F applymanipulators | | D afm |
| F assignmathparameters | | D otf |
| F beforecopyingcharacters | | D tfm |

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

| | |
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| F plugininitializer | F alternate |
| F pluginprocessor | F chainedcontext |
| T plugins | F context |
| T text | F extension |
| D pngcache | F ligature |
| B pngenabled | F multiple |
| T readers | F reversechainedcontextsingl |
| F addunicodetable | F single |
| F avar | F gvar |
| F cbdt | F head |
| F cblc | T helpers |
| F cff | F axistofactors |
| F cff2 | F cleannam |
| T cffencoder | F getaxisscale |
| F checkhash | F getfactors |
| F cmap | F getscales |
| F colr | F gotodatatable |
| F compact | F normalizedaxis |
| F condense | T normalizedaxishash |
| F cpal | F readvariationdata |
| F dsig | 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 potracetocff |
| F marktoligature | F registerextender |
| F marktomark | F rehash |
| F pair | F sbix |
| F single | F stat |
| F gsub | T streamreader |
| T gsubhandlers | F close |

| | |
|---------------------|---------------------|
| F getposition | F writecardinal1le |
| F getsize | F writecardinal2 |
| F look | F writecardinal2le |
| F open | F writecardinal3 |
| F read2dot14 | F writecardinal3le |
| F readbyte | F writecardinal4 |
| F readbytes | F writecardinal4le |
| F readbytetable | F writeinteger1 |
| F readcardinal | F writeinteger1le |
| F readcardinal1 | F writeinteger2 |
| F readcardinal1le | F writeinteger2le |
| F readcardinal2 | F writeinteger3 |
| F readcardinal2le | F writeinteger3le |
| F readcardinal3 | F writeinteger4 |
| F readcardinal3le | F writeinteger4le |
| F readcardinal4 | F writestring |
| F readcardinal4le | F stripredundant |
| F readcardinaltable | F svg |
| F readchar | N tableversion |
| F readcline | F unifymissing |
| F readcstring | F unpack |
| F readfixed2 | F vhea |
| F readfixed4 | F vmtx |
| F readinteger | F vorg |
| F readinteger1 | F vvar |
| F readinteger1le | F woff2otf |
| F readinteger2 | F registerpalette |
| F readinteger2le | F registerplugin |
| F readinteger3 | F reorderlookups |
| F readinteger3le | F scriptandlanguage |
| F readinteger4 | F setdynamics |
| F readinteger4le | F setfeatures |
| F readintegertable | T statistics |
| F readsignedbyte | D usedfeatures |
| F readstring | D svgcache |
| F readtag | B svgenabled |
| F setposition | T tables |
| F size | D baselines |
| F skip | D features |
| F skiplong | D featuretypes |
| F skipposition | D languages |
| F skipshort | D scripts |
| F writebyte | F texthandler |
| F writecardinal1 | T vectors |

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|-------------------|-----------------------|----------|
| T arab | T combiner | |
| T gpos | D commands | |
| N curs | D helpers | |
| N kern | D math | |
| N mark | D predefined | |
| N mkmk | N version | |
| T gsub | D whatever | |
| N calt | F hashfeatures | |
| N ccmp | F hashinstance | |
| N cswh | T hashmethods | |
| N dlig | F normal | |
| N fina | F virtual | |
| N init | F initializefeatures | |
| N isol | D loadedfonts | |
| N liga | N noffontsloaded | |
| N medi | N nofsharedfonts | |
| N mset | N nofsharedhashes | |
| N rclt | N nofsharedvectors | |
| N rlig | N privateoffset | |
| N version | D privateslots | |
| T pfb | F readanddefine | |
| F filterencoding | F registerfeature | |
| F filtermetadata | F resetfeature | |
| F loadvector | B resolvevirtualtoo | |
| N version | F scale | |
| T tfm | F scaled | |
| D cache | F setfactor | |
| D features | F setfeature | |
| N maxnestingdepth | F setmathparameter | |
| N maxnestingsize | F setname | |
| T readers | B sharefonts | |
| F loadpk | F trytosharefont | |
| F loadtfm | N version | |
| F loadtfmvf | current | function |
| F loadvf | currentid | function |
| F pktopdf | definers | table |
| F potracetopdf | F addlookup | |
| F showpk | F analyze | |
| F reencode | F applypostprocessors | |
| F setfeatures | F checkedmode | |
| N version | F checkedscript | |
| T vf | S defaultlookup | |
| T combinations | F define | |
| F combine | F getspecification | |

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| F internal | | expansions | data table |
| F loadfont | | formats | data table |
| F makespecification | | getalternate | function |
| T methods | | getindices | function |
| F install | | getkern | function |
| D variants | | getmultiple | function |
| F read | | getsubstitution | function |
| F register | | getters | table |
| F registered | | T alternate | |
| F registerfallbackfont | | F opentype | |
| F registersplit | | T kern | |
| F resetnullfont | | F opentype | |
| F resolve | | F type1 | |
| T resolvers | | F type3 | |
| F file | | T multiple | |
| F name | | F opentype | |
| F spec | | T substitution | |
| definetypesface | function | F opentype | |
| dropins | table | goodies | table |
| F clone | | D colorschemes | |
| F getshape | | T data | |
| F getshapes | | T common-math.lfg | |
| F nextid | | S author | |
| F provide | | S comment | |
| F registerglyph | | S copyright | |
| F registerglyphs | | B initialized | |
| F swap | | T mathematics | |
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| effects | table | T presets | |
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| T agl | | F braille | |
| D ctxcodes | | F eulertocalligraphic | |
| D extras | | F fallbacks | |
| D names | | F moderntocalligraphic | |
| D synonyms | | F moveintegrals | |
| D unicodes | | F moveitalics | |
| D cache | | F pagellaradical | |
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| D known | | F rsfsuprighttoscript | |
| F load | | F scripttocalligraphic | |
| F make_unicode_vector | | F smallldigits | |
| D math | | F wipeanchors | |
| N version | | F wipeitalics | |
| enhanceid | function | F xitsarabic | |

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- S version
- T dejavu-math
 - S author
 - S comment
 - S copyright
 - B initialized
 - T mathematics
 - T alternates
 - T dotless
 - S comment
 - S feature
 - N value
 - T bigslots
 - T parameters
 - N AccentBaseDepth
 - N AccentTopShiftUp
 - N DelimiterDisplayPercent
 - N DelimiterDisplayShortfall
 - N DelimiterPercent
 - N DelimiterShortfall
 - N DisplayOperatorMinHeight
 - N FlattenedAccentTopShiftUp
 - N FractionRuleThickness
 - S PrimeBaselineDropMax
 - S PrimeShiftUp
 - S PrimeShiftUpCramped
 - N SubscriptShiftDown
 - S SubscriptShiftDownWithSuperscript
 - N SuperscriptShiftUp
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 - T aftercopying
- S name
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 - S comment
 - S copyright
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| hashes | table |

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

functions (context)

dummy function

graphics (context)

| | | | |
|-----------------------------|----------|------------------------|----------|
| backgrounds | table | registerpdffont | function |
| F fetchmultipar | | synchronizers | table |
| F pair | | F collapse | |
| F path | | F collect | |
| F point | | F extend | |
| bitmaps | table | F getbottom | |
| F flush | | F getd | |
| F new | | F geth | |
| F placeholder | | F getkind | |
| F tocontext | | F getsizes | |
| identifiers | table | F gettask | |
| F bitmap | | F gettop | |
| F jp2 | | F getw | |
| F jpg | | F getx | |
| F png | | F gety | |
| identify | function | F prune | |
| registerpdfcompactor | function | | |

gzip (context)

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 | open | overloaded function |
| bytes | function | output | overloaded function |
| characters | function | pathseparator | string |
| close | function | popen | overloaded function |
| copydata | function | read | function |
| exists | function | readall | function |
| fileseparator | string | readnumber | function |
| flush | function | readstring | function |
| gobble | 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 |

job (context)

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

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

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

language (basic tex)

| | |
|-------------------------|----------|
| clean | function |
| clearhyphenation | function |
| clearpatterns | function |
| current | function |
| gethjcode | function |
| has_language | function |
| hyphenate | function |
| hyphenation | function |
| hyphenationmin | function |

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

languages (context)

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

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

layouts (context)

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

lfs (extra lua)

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

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

libraries (context)

basiclua data table

basictex data table

builtin data table

extralua data table

extratex data table

functions data table

globals data table

optional 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 | system | function |
| reporter | function | texerrormessage | function |
| resetlogfile | function | writer | function |

lpdf (context)

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

| | |
|---------------------------------|----------|
| deferredobject | function |
| delayedobject | function |
| destinationspecification | function |
| dictionary | function |
| docstring | function |
| epdf | table |

| |
|-------------------|
| F allcontent |
| F analyzefonts |
| F contentplugin |
| F contenttostring |
| F contenttotext |
| D encryptioncodes |
| F expanded |
| F expandwidths |
| F fontplugin |
| F getpagecontent |
| F getstructure |
| T helpers |
| F tounicodetable |
| T image |
| F close |
| F copy |
| F new |
| F open |
| F query |
| F load |
| F mergewidths |
| D objectcodes |
| F objectrange |
| F objecttype |
| F pageplugin |
| F parsecontent |
| F producer |
| T resolvers |
| F destinations |
| F embeddedfiles |
| F javascripts |
| F layers |
| F pages |
| F structure |
| F widgets |

| | | | |
|-------------------------------|----------|------------------------------|------------|
| F stripcontent | | N file | |
| F unload | | N fixed | |
| F verboseobject | | N nocheck | |
| escaped | function | N protected | |
| finalizeddocument | function | N readonly | |
| finalizepage | function | N required | |
| finalizesignature | function | N sorted | |
| finishtransparencycode | function | N unavailable | |
| flags | table | flushfonts | function |
| T annotations | | flushgroup | function |
| N AutoView | | flushobject | function |
| N Hidden | | flushstreamfileobject | function |
| N Invisible | | flushstreamobject | function |
| 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 | | h_hex_2 | table |
| N PushButton | | S | |
| N Radio | | S | |
| N RadiosInUnison | | S | |
| N ReadOnly | | S | |
| N Required | | S | |
| N RichText | | S (| |
| N Sort | | S) | |

| | | | |
|---------------------------|----------|-------------------------------|------------|
| S \ | | registerinitializer | function |
| h_hex_4 | table | registerpagefinalizer | function |
| hasmatrix | function | registerpattern | function |
| immediateobject | function | registersignature | function |
| includeimage | function | replacexmpinfo | function |
| initialize | function | reserveobject | function |
| injectors | table | rgbcode | function |
| F bitmap | | rotationcm | function |
| F jp2 | | setcompression | function |
| F jpg | | setencryption | function |
| F png | | setincludecidset | function |
| injectxmpinfo | function | setpageorder | function |
| insertxmpinfo | function | setpagestate | function |
| lastreferredpage | function | setpagetag | function |
| layerreference | function | setversion | function |
| limited | function | sharedobject | function |
| linearshade | function | shareobject | function |
| literal | function | shareobjectreference | function |
| majorversion | function | spotcode | function |
| makenametree | function | stream | function |
| minorversion | function | string | function |
| nofpages | function | tocidset | function |
| null | function | toeight | function |
| number | function | topdfdoc | function |
| object | function | tosixteen | function |
| objectcompresslevel | function | transparency | function |
| pagereference | function | transparencycode | function |
| patternstream | function | transparencygroups | table |
| pdfcolor | function | B none | |
| pdftimestamp | function | transparencyvalue | function |
| prepresignature | function | unicode | function |
| print | function | usedcharacters | table |
| procset | function | usedfontnames | table |
| protectresources | boolean | N dejavusansmonoboldttf-1-0-0 | |
| rectangle | function | usedfontobjects | table |
| reference | function | N dejavusansmonoboldttf-1-0-0 | |
| registerannotation | function | usedfontstreams | data table |
| registerdestination | function | usedindices | table |
| registerdocumentfinalizer | function | T dejavusansmonoboldttf-1-0-0 | |
| registerfontmethod | function | verbose | function |

lpeg (basic lua)

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

lua (basic tex)

| | | | |
|----------------------------|---------------------|--------------------------------|------------|
| bytecode | table | getruntime | function |
| bytedata | data table | getstacktop | function |
| bytdone | table | getstartupfile | function |
| callbytecode | function | getversion | function |
| delay | function | lastbytecode | number |
| finalizeinitex | function | messages | data table |
| firstbytecode | number | newindex | function |
| flush | function | newtable | function |
| flushdelayed | function | numbers | data table |
| get_functions_table | function | registercode | function |
| getbytecode | function | registeredcodes | function |
| getcurrenttime | function | registerinitexfinalizer | function |
| getdebuginfo | function | registername | function |
| getexitcode | function | setbytecode | function |
| getfunctionstable | overloaded function | setexitcode | function |
| getpreciseseconds | function | startupfile | string |
| getpreciseticks | function | version | string |

luac (extra lua)

```
inspect function  
print    function
```

luatex (context)

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

lxml (context)

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

| | |
|-------------------------|----------|
| pushmatch | function |
| raw | function |
| rawroot | function |
| rawtex | function |
| refatt | function |
| register | function |
| registerentity | function |
| removesetup | function |
| replace | function |
| resetcdata | function |
| resetsetups | function |
| resolvedentity | function |
| root | function |
| save | function |
| serialize | function |
| setaction | function |
| setatt | function |
| setattribute | function |
| setcdata | function |
| setcommandtonone | function |
| setcommandtotext | function |
| setpar | function |
| setparam | function |
| setparameter | function |
| setsetup | function |
| snippet | function |

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

math (basic lua)

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

mathematics (context)

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

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

md5 (extra lua)

HEX function
dec function
hex function

sum function
sumHEXA function
sumhexa function

metapost (context)

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

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

| | |
|-------------------------|----------|
| remaptext | function |
| reporterror | function |
| reportsvgfonts | function |
| reset | function |
| resetlastlog | function |
| resetplugins | function |
| run | function |
| runinternal | function |
| runscript | function |
| scanparameters | function |
| scripterror | function |
| scriptindex | function |
| setbendtolerance | function |
| setbuffer | function |
| setextensions | function |
| setlogging | function |
| setmovetolerance | function |
| setoutercolor | function |
| setparameter | function |
| setparameterset | function |
| setrecord | function |
| settext | function |
| settolerance | function |
| setvariable | function |
| showlog | boolean |
| showsvgpage | function |
| simple | function |
| splitprescript | function |
| startgraphic | function |
| startsvghashing | function |
| stopgraphic | function |
| stopsvghashing | function |
| svformat | function |
| svgcolorremapper | function |
| svgfactors | table |
| N % | |
| N bp | |
| N cm | |
| N em | |
| N ex | |
| N in | |
| N mm | |
| N pc | |
| N pt | |

| | |
|-----------------------|----------|
| N px | |
| svgglyphtomp | function |
| svgshapestomp | function |
| svgshapestopdf | function |
| svgsplitcolor | function |
| svgtomp | function |
| svgtopdf | function |
| sxsy | function |
| tex | table |
| F get | |
| F reset | |
| F set | |
| F setfrombuffer | |
| texerrors | boolean |
| texexp | function |
| theclippath | function |
| tographic | function |
| totable | function |
| types | table |
| N boolean | |
| N cmykcolor | |
| N color | |
| N dependent | |
| N independent | |
| N known | |
| N nep | |
| N numeric | |
| N pair | |
| N path | |
| N pen | |
| N picture | |
| N protodependent | |
| N string | |
| N structured | |
| N suffixedmacro | |
| N tokenlist | |
| N transform | |
| N unknownboolean | |
| N unknownnep | |
| N unknownpath | |
| N unknownpen | |
| N unknownpicture | |
| N unknownstring | |
| N unsuffixedmacro | |

N vacuous

typesvgpage
unload

function
function

untagvariable
variables

function
table

mime (context)

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

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

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

mplib (extra tex)

| | | | |
|-------------------------|----------|------------------------|---------------------|
| execute | function | injectstring | function |
| expandtex | function | injecttransform | function |
| finder | function | injectwhatever | function |
| finders | table | new | overloaded function |
| F file | | peninfo | function |
| F mpstemplate | | propertycodes | table |
| finish | function | realtimelogging | boolean |
| getcallbackstate | function | scanboolean | function |
| getcodes | function | scancmykcolor | function |
| getcolormodels | function | scancolor | 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 |
| injectcmykcolor | function | scantoken | function |
| injectcolor | 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 snap |
| F alternates | | | F spacing |
| F autofences | | | F suspicious |
| F classes | | | F tags |
| F collapse | | | F unscript |
| F dictionaries | | | F unstack |
| F export | | | F variants |
| F families | | process | function |
| F fencing | | processnested | function |
| F kernpairs | | processors | table |
| F makeup | | T dictionaries | |
| F normalize | | F mlisttohtml | |
| F numbers | | T suspicious | |
| F relocate | | T unscript | |
| F render | | T unstack | |
| F resize | | processouter | function |
| F showtree | | | |

node (basic tex)

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

| | |
|---------------------|-----------------------|
| F getnodes | F hasdiscoption |
| F getnormalizedline | F hasfield |
| F getnucleus | F hasgeometry |
| F getnumerator | F hasglyph |
| F getoffsets | F hasglyphoption |
| F getoptions | F hpack |
| F getorientation | F hyphenating |
| F getparstate | F id |
| F getpenalty | F ignoremathskip |
| F getpost | F insertafter |
| F getpre | F insertbefore |
| F getprev | F isboth |
| F getprime | F ischar |
| F getpropertystable | F isdirect |
| F getproperty | F isglyph |
| F getreplace | F isitalicglyph |
| F getrightdelimiter | F isnext |
| F getruledimensions | F isnextchar |
| F getscale | F isnextglyph |
| F getscales | F isnode |
| F getscrip | F isprev |
| F getshift | F isprevchar |
| F getslant | F isprevglyph |
| F getspeciallist | F issimilarglyph |
| F getstate | F isspeciallist |
| F getsub | F isvalid |
| F getsubpre | F iszeroglue |
| F getsubtype | F kerning |
| F getsup | F lastnode |
| F getsuppre | F length |
| F gettop | F ligaturing |
| F gettopdelimiter | F makeextensible |
| F gettotal | F migrate |
| F getusedattributes | F mlisttohtml |
| F getweight | F naturalhsize |
| F getwhd | F naturalwidth |
| F getwidth | F new |
| F getwordrange | F newcontinuationatom |
| F getxscale | F newmathglyph |
| F getxyscales | F newtextglyph |
| F getyscale | F patchattributes |
| F gluetostring | F prependbeforehead |
| F hasattribute | F protectglyph |
| F hasdimensions | F protectglyphs |

F protectglyphsnone
F protrusionskipable
F rangedimensions
F remove
F removefromlist
F repack
F reverse
F serialized
F setanchors
F setattribute
F setattributelist
F setattributes
F setboth
F setbottom
F setbox
F setchar
F setchardict
F setchoice
F setclass
F setdata
F setdegree
F setdelimiter
F setdenominator
F setdepth
F setdirection
F setdisc
F setdispart
F setexpansion
F setfam
F setfield
F setfont
F setgeometry
F setglue
F setglyphdata
F setheight
F setindex
F setinputfields
F setkern
F setlanguage
F setleader
F setleftdelimiter
F setlink
F setlist
F setnext

F setnucleus
F setnumerator
F setoffsets
F setoptions
F setorientation
F setpenalty
F setpost
F setpre
F setprev
F setprime
F setproperty
F setreplace
F setrightdelimiter
F setruledimensions
F setscales
F setscript
F setshift
F setslant
F setspeciallist
F setsplit
F setstate
F setsub
F setsubpre
F setsubtype
F setsup
F setsuppre
F settop
F settotal
F setweight
F setwhd
F setwidth
F show
F slide
F softenhyphens
F startofpar
F subtypes
F tail
F todirect
F tonode
F toString
F tovaliddirect
F traverse
F traversechar
F traversecontent

| | | | |
|-------------------------------|----------|---------------------------|----------|
| F traverseglyph | | insertbefore | function |
| F traverseid | | instock | function |
| F traverseitalic | | inuse | function |
| F traverseleader | | isnode | function |
| F traverselist | | iszeroglue | function |
| F type | | kerning | function |
| F types | | lastnode | function |
| F unprotectglyph | | length | function |
| F unprotectglyphs | | ligaturing | function |
| F unsetattribute | | makeextensible | function |
| F unsetattributes | | mlisttohtml | function |
| F usedlist | | new | function |
| F usesfont | | protectglyph | function |
| F verticalbreak | | protectglyphs | function |
| F vpack | | protrusionskipable | function |
| F write | | rangedimensions | function |
| F xscaled | | remove | function |
| F yscaled | | serialized | function |
| effectiveglue | function | setattribute | function |
| endofmath | function | setfield | function |
| family_font | function | setglue | function |
| fields | function | setProperty | function |
| findattribute | function | show | function |
| flattendiscretionaries | function | slide | function |
| flushlist | function | subtypes | function |
| flushnode | function | tail | function |
| free | function | todirect | function |
| getattribute | function | tonode | function |
| getcachestate | function | tostring | function |
| getfield | function | traverse | function |
| getglue | function | traverseid | function |
| getpropertystable | function | type | function |
| getproperty | function | types | function |
| gluetostring | function | unprotectglyph | function |
| hasattribute | function | unprotectglyphs | function |
| hasfield | function | unsetattribute | function |
| hasglyph | function | usedlist | function |
| hpack | function | usesfont | function |
| hyphenating | function | vpack | function |
| id | function | write | function |
| insertafter | function | | |

nodes (context)

| | | | |
|--------------------------|------------|---------------------------|------------|
| accentcodes | data table | dircodes | data table |
| adaptive | table | directioncodes | data table |
| F handlehorizontal | | directionvalues | data table |
| F handlevertical | | dirvalues | data table |
| F set | | disccodes | data table |
| aligned | function | discretionarycodes | data table |
| append | function | fencecodes | data table |
| apply | function | fields | function |
| applyvisuals | function | fieldtypes | table |
| astable | function | fillcodes | data table |
| attributeCodes | data table | fillvalues | data table |
| basepoints | function | firstdirinbox | function |
| boundarycodes | data table | flush | function |
| boxes | table | flushlist | function |
| F count | | flushnode | function |
| F dimensions | | fullhpack | function |
| F direct | | getattr | function |
| F dispose | | getattribute | function |
| F found | | getboth | function |
| F prune | | getbox | function |
| F reset | | getchar | function |
| F restore | | getfield | function |
| F save | | getfont | function |
| F savenode | | getid | function |
| builders | table | getleader | function |
| F buildpage_filter | | getlist | function |
| F vbox_filter | | getnext | function |
| F vpack_filter | | getprev | function |
| choicecodes | data table | getproperty | function |
| concat | function | getsubtype | function |
| copy | function | gluecodes | data table |
| copy_node | function | glyphcodes | data table |
| copylist | function | handlers | table |
| countall | function | F adjusters | |
| currentattributes | function | F aligncharacter | |
| delete | function | F backgrounds | |
| destinations | table | F backgroundspage | |
| N attribute | | F backgroundsvbox | |
| T done | | F characters | |
| F handler | | F checkglyphs | |
| T stack | | 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 | | isdirect | function |
| F flattenline | | isnode | function |
| F mathalignrelocate | | isnut | function |
| F mathmatrixornaments | | kerncodes | data table |
| F mathmatrixrules | | leftmarginwidth | function |
| F migrate | | linefillers | table |
| F protectglyphs | | F filler | |
| F recolor | | F handler | |
| F show | | F set | |
| F showhyphenation | | lines | table |
| F showpreamble | | T boxed | |
| F stripping | | F addlinenumbers | |
| F textbackgrounds | | F register | |
| F unprotectglyphs | | F setup | |
| F visualizehyphenation | | D data | |
| F wipe | | F finalize | |
| hasattribute | function | F number | |
| hasfield | function | link | function |
| hpack | function | linked | function |
| idsandsubtypes | function | list | function |
| idstosting | function | listcodes | data table |
| injections | table | listtoutf | function |
| F copy | | literalvalues | data table |
| F getligaindex | | locate | function |
| F getthreshold | | markcodes | data table |
| F handler | | markers | table |
| F installgetspaceboth | | F get | |
| F installnewkern | | F set | |
| F isspace | | mathcodes | data table |
| F keepcounts | | mathvalues | data table |
| F reset | | maxboxwidth | function |
| F resetcounts | | migrations | table |
| F setcursive | | F setinserts | |
| F setkern | | F setmarks | |
| F setligaindex | | new | function |
| F setmark | | noadcodes | data table |
| F setmove | | nodecodes | data table |
| F setposition | | nopts | function |
| F setspacekerns | | nuts | table |

| | |
|--------------------------|----------------------|
| F addmargins | F flush |
| F addxoffset | F flushlist |
| F addxymargins | F flushnode |
| F addyoffset | F free |
| F append | F freeze |
| F appendaftertail | F fullhpack |
| F apply | F getanchors |
| F applyvisuals | F getattr |
| F checkdiscretionaries | F getattribute |
| F checkslide | F getattributelist |
| F collapsing | F getattributes |
| T colors | F getattrlist |
| F set | F getattrstrs |
| T components | F getboth |
| F copynocomponents | F getbottom |
| F copyonlyglyphs | F getbottomdelimiter |
| F count | F getbox |
| F flush | F getboxglue |
| F get | F getchar |
| F set | F getchardict |
| F concat | F getcharspec |
| F copy | F getchoice |
| F copy_properties | F getclass |
| F copylist | F getcomponents |
| F copynode | F getcornerkerns |
| F copyonly | F getdata |
| F copyvisual | F getdegree |
| F count | F getdelimiter |
| F countall | F getdenominator |
| F currentattributes | F getdepth |
| F delete | F getdirection |
| F dimensions | F getdisc |
| F dirdimensions | F getdiscpart |
| F effectiveglue | F getdiscretionary |
| F endofmath | F getexpansion |
| F exchange | F getfam |
| F findattribute | F getfield |
| F findnode | F getfont |
| F firstchar | F getgeometry |
| F firstglyph | F getglue |
| F firstglyphnode | F getglyphdata |
| F firstitalicglyph | F getglyphdimensions |
| F flattendiscretionaries | F getheight |
| F flattenleaders | F getid |

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

| | |
|-----------------------|---------------------|
| F length | F leftskip |
| F ligaturing | F lineskip |
| F link | F literal |
| F linked | F mathchar |
| F locate | F mathtextchar |
| F migrate | F negatedglue |
| F migratebox | F noad |
| F mlisttohlist | F originliteral |
| F naturalhsize | F outlinerule |
| F naturalwidth | F pageliteral |
| F nestedtracedslide | F penalty |
| F new | F radical |
| F newcontinuationatom | F rawliteral |
| F newmathglyph | F register |
| F openup | F restore |
| F patchattributes | F righthangskip |
| T pool | F rightmarginkern |
| F accent | F rightskip |
| F baselineskip | F rule |
| F boundary | F save |
| F boxrule | F savepos |
| F choice | F setmatrix |
| F cleanup | F setstate |
| F delim | F shrink |
| F delimiter | F spacefontkern |
| F direction | F startrotation |
| F directliteral | F stock |
| F disc | F stretch |
| F emptyrule | F strutrule |
| F fence | F subbox |
| F fontkern | F sublist |
| F fraction | F temp |
| F glue | F usage |
| F gluespec | F userdefined |
| F glyph | T userids |
| F hlist | F usernode |
| F imagerule | F userrule |
| F indentskip | F virtualrule |
| F italicckern | F vlist |
| F kern | F wordboundary |
| F latelua | F prepend |
| F leader | F prependbeforehead |
| F lefthangskip | F processranges |
| F leftmarginkern | F processwords |

| | |
|----------------------|----------------------|
| F protectglyph | F setdirection |
| F protectglyphs | F setdisc |
| F protectglyphsnone | F setdiscpart |
| F protrusionskipable | F setdiscretionary |
| F rangedimensions | F setexpansion |
| F rawprop | F setfam |
| F reference | F setfield |
| F rehpac | F setfont |
| F remove | F setgeometry |
| F removefromlist | F setglue |
| F repack | F setglyphdata |
| F repackhlist | F setheight |
| F replace | F setinputfields |
| F reverse | F setkern |
| T rules | F setlang |
| T ruleactions | F setlanguage |
| F box | F setleader |
| F draw | F setleftdelimiter |
| F fill | F setlink |
| F mp | F setlist |
| F stroke | F setmiddledelimiter |
| F userrule | F setnext |
| F serialized | F setnucleus |
| F setanchors | F setnumerator |
| F setattr | F setoffsets |
| F setattribute | F setoptions |
| F setattributelist | F setorientation |
| F setattributes | F setparproperty |
| F setattrlist | F setpenalty |
| F setatrs | F setpost |
| F setboth | F setpre |
| F setbottom | F setprev |
| F setbox | F setprime |
| F setboxglue | F setprop |
| F setchar | F setreplace |
| F setchardict | F setrightdelimiter |
| F setchoice | F setruledata |
| F setclass | F setruledimensions |
| F setcomponents | F setscale |
| F setdata | F setscales |
| F setdegree | F setscript |
| F setdelimiter | F setshift |
| F setdenominator | F setslant |
| F setdepth | F setspeciallist |

| | |
|-------------------|-------------------|
| F setsplit | F boundary |
| F setstate | F char |
| F setsub | F content |
| F setsubpre | F dir |
| F setsubtype | F disc |
| F setup | F glue |
| F setsuppre | F glyph |
| F setsurround | F hlist |
| F settop | F leader |
| F setvalue | F list |
| F setvisual | F mark |
| F setvisuals | F next |
| F setweight | F node |
| F setwhd | F penalty |
| F setwidth | F rule |
| F show | F unset |
| F slide | F vlist |
| F softenhyphens | F whatsit |
| F somepenalty | T treversers |
| F somespace | F char |
| F splitbox | F content |
| F startofpar | F glyph |
| F striprange | F leader |
| F tail | F list |
| F takeattr | F node |
| F takebox | T typesetters |
| F takelist | F tohbox |
| F theprop | F tohpack |
| F tonode | F tonodes |
| F tonodes | F tovbox |
| F tonut | F tovpack |
| F tosequence | F unprotectglyph |
| F toString | F unprotectglyphs |
| F tracedslide | F unsetattribute |
| F traverse | F unsetattributes |
| F traversechar | F untracedslide |
| F traversecontent | F usedlist |
| F traverseglyph | F usesfont |
| F traverseid | F verticalbreak |
| F traverseitalic | F vianodes |
| F traverseleader | F vianuts |
| F traverselist | F vpack |
| T traversers | F write |
| F alignrecord | F xscaled |

| | | | |
|----------------------|------------|--------------------------|------------|
| F yscaled | | F post_linebreak_filter | |
| packlist | function | F pre_linebreak_filter | |
| parcodes | data table | F trace_glyph_run_a | |
| penaltycodes | data table | F trace_glyph_run_b | |
| plugindata | table | properties | table |
| F finalizer | | T data | |
| F initializer | | pts | function |
| S name | | radicalcodes | data table |
| T namespace | | references | table |
| N attribute | | N attribute | |
| D data | | T done | |
| F enable | | F handler | |
| F handler | | T stack | |
| F register | | reheap | function |
| D registered | | remove | function |
| D values | | repackhlist | function |
| F processor | | replace | function |
| points | function | report | function |
| pool | table | rightmarginwidth | function |
| F baselineskip | | rulecodes | data table |
| F cleanup | | rules | table |
| F directliteral | | F handler | |
| F glyph | | F process | |
| F hlist | | F set | |
| F latelua | | F userrule | |
| F leader | | serialize | function |
| F lineskip | | serializebox | function |
| F literal | | serialized | function |
| F originliteral | | setattr | function |
| F register | | setattribute | function |
| F restore | | setboth | function |
| F save | | setbox | function |
| F savepos | | setboxtonaturalwd | function |
| F setmatrix | | setchar | function |
| F stock | | setfield | function |
| F usage | | setfont | function |
| F usernode | | setleader | function |
| F vlist | | setlink | function |
| prepend | function | setlist | function |
| print | function | setnext | function |
| processors | table | setprev | function |
| F alignment_filter | | setproperty | function |
| F append_line_filter | | shifts | table |
| F glyph_run | | F handler | |

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

| | | | |
|-----------------------|----------|---------------------|------------|
| F stop | | N expansion | |
| F stop | | N fontkern | |
| T transparencies | | N glue | |
| F reset | | N glyph | |
| F set | | N hbox | |
| F setlist | | N hglue | |
| traverse | function | N hkern | |
| traverseid | function | N hpenalty | |
| typesetters | table | N insert | |
| F hbox | | N italic | |
| F hpack | | N kern | |
| F tohbox | | N line | |
| F tohpack | | N marginkern | |
| F tonodes | | N mark | |
| F tovbox | | N math | |
| F tovpack | | N mathglue | |
| F vpack | | N mathkern | |
| unsetattribute | function | N origin | |
| usedlist | function | N par | |
| vianodes | function | N penalty | |
| vianuts | function | N simple | |
| visualizebox | function | N simplehbox | |
| visualizers | table | N simplevbox | |
| F attribute | | N simplevtop | |
| T attributes | | N space | |
| F box | | N strut | |
| F enable | | N user | |
| T filters | | N vbox | |
| N hglue | | N vglue | |
| N hkern | | N vkern | |
| N hpenalty | | N vpenalty | |
| N vglue | | N vtop | |
| N vkern | | N whatsit | |
| N vpenalty | | F register | |
| F getusedfont | | F setfont | |
| F handler | | F setlayer | |
| F markfonts | | F setruledglyph | |
| T modes | | F setvisual | |
| N boundary | | vpack | function |
| N depth | | whatsitcodes | data table |
| N dir | | write | function |
| N discretionary | | | |

number (context)

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

objects (context)

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

optional (context)

curl table

F escape
F fetch
F getversion
F initialize
F unescape

foreign table

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

ghostscript table

F execute
F initialize

graphicsmagick table

F execute
F initialize

hb table

F getshapers
F getversion
F initialize
F loadfont
F shapestring

imagemagick table

F execute
F initialize

kpse table

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

library table

F load

loaded table

lz4 table

F compress
F decompresssize
F framecompress
F framedecompress
F initialize

lzma table

F compress
F decompress
F initialize

lzo table

F compress
F decompresssize
F initialize

mujs table

F dofile
F execute
F initialize
F reset
F setclosefile
F setconsole
F setfindfile
F setopenfile
F setreadfile
F setseekfile

mysql table

F close
F execute
F getmessage
F initialize
F open

openssl table

F getversion
F initialize
F sign
F verify

postgres table

F close
F execute

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

os (basic lua)

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

package (basic lua)

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

pagebuilders (context)

columnsets table

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

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

injections table

- F flushafter
- F flushbefore
- F save

mixedcolumns table

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

pdf (context)

immediateobj function

pdfe (extra tex)

| | |
|--------------------------|----------|
| arraytotable | function |
| close | function |
| closestream | function |
| dictionarytotable | function |
| getarray | function |
| getboolean | function |
| getbox | function |
| getcatalag | function |
| getdictionary | function |
| getfromarray | function |
| getfromdictionary | function |
| getfromobject | function |
| getfromreference | function |
| getfromstream | function |
| getinfo | function |
| getinteger | function |
| getmemoryusage | function |
| getname | function |
| getnofobjects | function |
| getnofpages | function |

| | |
|------------------------|----------|
| getnumber | function |
| getobjectrange | function |
| getpage | function |
| getpages | function |
| getsize | function |
| getstatus | function |
| getstream | function |
| getstring | function |
| gettrailer | function |
| getversion | function |
| new | function |
| open | function |
| openfile | function |
| openstream | function |
| pagestotable | function |
| readfromstream | function |
| readwholestream | function |
| type | function |
| unencrypt | function |

physics (context)

| | | |
|--------------|----------|----------------|
| units | table | F registerunit |
| F registers | shortcut | D tables |

pngdecode (extra tex)

applyfilter function
expand function
interlace function
makemask function

splitmask function
tocmyk function
tomask function

posit (extra lua)

| | | |
|--------------|----------|--------------|
| NaN | function | F bor |
| NaR | function | F bxor |
| __add | function | F ceil |
| __band | function | F conj |
| __bor | function | F copy |
| __bxor | function | F cos |
| __div | function | F exp |
| __eq | function | F exp2 |
| __index | table | F floor |
| F NaN | | F fromposit |
| F NaR | | F integer |
| F __add | | F log |
| F __band | | F log10 |
| F __bor | | F log1p |
| F __bxor | | F log2 |
| F __div | | F logb |
| F __eq | | F max |
| T __index | | F min |
| F NaN | | F modf |
| F NaR | | F new |
| F __add | | F pow |
| F __band | | F rotate |
| F __bor | | F round |
| F __bxor | | F rounded |
| F __div | | F shift |
| F __eq | | F sin |
| F __le | | F sqrt |
| F __lt | | F tan |
| F __mul | | F tonumber |
| S __name | | F toposit |
| F __pow | | F tostring |
| F __shl | | F __le |
| F __shr | | F __lt |
| F __sub | | F __mul |
| F __tostring | | S __name |
| F __unm | | F __pow |
| F abs | | F __shl |
| F acos | | F __shr |
| F asin | | F __sub |
| F atan | | F __tostring |
| F band | | F __unm |

| | | |
|---------------|-------------------|----------|
| F abs | __shl | function |
| F acos | __shr | function |
| F asin | __sub | function |
| F atan | __tostring | function |
| F band | __unm | function |
| F bor | abs | function |
| F bxor | acos | function |
| F ceil | asin | function |
| F conj | atan | function |
| F copy | band | function |
| F cos | bor | function |
| F exp | bxor | function |
| F exp2 | ceil | function |
| F floor | conj | function |
| F fromposit | copy | function |
| F integer | cos | function |
| F log | exp | function |
| F log10 | exp2 | function |
| F log1p | floor | function |
| F log2 | fromposit | function |
| F logb | integer | function |
| F max | log | function |
| F min | log10 | function |
| F modf | log1p | function |
| F new | log2 | function |
| F pow | logb | function |
| F rotate | max | function |
| F round | min | function |
| F rounded | modf | function |
| F shift | new | function |
| F sin | pow | function |
| F sqrt | rotate | function |
| F tan | round | function |
| F tonumber | rounded | function |
| F toposit | shift | function |
| F tostring | sin | function |
| __le | sqrt | function |
| __lt | tan | function |
| __mul | tonumber | function |
| __name | toposit | function |
| __pow | tostring | function |

potrace (extra tex)

| | | | |
|--------------------|----------|------------------|----------|
| checked | function | getbitmap | function |
| concat | function | new | function |
| contourplot | function | process | function |
| convert | function | setbitmap | function |
| count | function | stripped | function |
| flush | function | totable | function |
| free | function | trace | 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 | | oneorrange | function |
| F flushentry | | parenttag | function |
| F flushtag | | permitted | function |
| T methods | | prerollcmdstring | function |
| F dataset | | refman_to_btx | function |
| F force | | resolvedname | function |
| F global | | save | function |
| F local | | savers | table |
| F nofregistered | | F bib | |
| F prepareentries | | F lua | |
| F register | | F xml | |
| F sameasprevious | | search | function |
| T sorters | | setcategory | function |
| F cite | | setspecification | function |
| F dataset | | singularorplural | function |
| F default | | sortedentries | function |
| F index | | sortmethods | table |
| F list | | T authortitle | |
| F reference | | T sequence | |
| F short | | T authoryear | |
| F used | | T sequence | |
| F uservariable | | T dataset | |
| listvariants | table | T sequence | |
| F default | | T key | |
| F index | | T sequence | |
| F num | | specifications | table |
| F short | | T default | |
| F tag | | S author | |
| load | function | S comment | |
| loadbibdata | function | S copyright | |
| loaddefinitionfile | function | S name | |
| loaders | table | S version | |
| F bbl | | D virtual | |
| F bib | | splitauthor | function |
| F buffer | | splitoneauthor | function |
| F endnote | | statistics | table |

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

regimes (context)

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

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

resolvers (context)

| | | | |
|-------------------------------------|------------|--------------------------------|------------|
| allprefixes | function | findfiles | function |
| appendhash | function | findgivenfile | function |
| automount | function | findgivenfiles | function |
| booleanvariable | function | findlib | function |
| cacheversion | string | findpath | function |
| checkedvariable | function | findpk | function |
| cleanedpathlist | function | findtexfile | function |
| cleaners | data table | findwildcardfile | function |
| cleanpath | function | findwildcardfiles | function |
| cleanpathlist | function | formatofsuffix | function |
| cleanupbinfile | function | formatofvariable | function |
| concatinators | data table | formats | data table |
| configbanner | string | foundintree | function |
| configurationfiles | function | foundintrees | function |
| dangerous | data table | generators | data table |
| datastate | function | get_from_content | function |
| decompressors | table | getenv | function |
| F register | | getextrapaths | function |
| F unregister | | getfilehashes | function |
| defaultsuffixes | table | gethashes | function |
| dirstatus | function | getownpath | function |
| dowithfilesandreport | function | getreadfilename | function |
| dowithfilesintree | function | hashers | data table |
| dowithpath | function | homedir | string |
| dowithvariable | function | ignorelibrary | function |
| executers | table | initialized | function |
| expandbraces | function | installinputfilehandler | function |
| expandedpathfromlist | function | installinputlinehandler | function |
| expandedpathlist | function | jobpath | function |
| expandedpathlistfromvariable | function | jobs | table |
| expandpath | function | F collectstructure | |
| expandpathfromvariable | function | F currentcomponent | |
| expansion | function | F currentenvironment | |
| extendtexmfvariable | function | F currentproduct | |
| filtered_from_content | function | F currentproject | |
| find_file | function | F currentstructure | |
| find_files | function | F justacomponent | |
| findbinfile | function | F namelist | |
| findctxfile | function | D processors | |
| finders | data table | F productcomponent | |
| findfile | function | F usefile | |

| | | | |
|--------------------------|------------|-------------------------------|------------|
| joinpath | function | registerfilehash | function |
| knownvariables | function | registerintrees | function |
| libraries | table | registermethod | function |
| F optionalloaded | | registerzipfile | function |
| F validoptional | | relations | data table |
| load | function | renew | function |
| loadbinfile | function | renewcache | function |
| loaders | data table | repath | function |
| loadlualib | function | reset | function |
| loadtexfile | function | resetextrapaths | function |
| loadtime | function | resetresolve | function |
| locateformat | function | resolve | function |
| locators | data table | savers | data table |
| luacnffallback | string | scandata | function |
| luacnfname | string | scanfiles | function |
| luacnfspec | string | schemes | table |
| luacnfstate | string | T cleaners | |
| macros | table | F md5 | |
| F convertfile | | F none | |
| F decodecomment | | F strip | |
| F enablecomment | | F cleanname | |
| F encodecomment | | F fetchstring | |
| F preprocessed | | F fetchtable | |
| F processmk | | F install | |
| F processmklx | | setdynamic | function |
| F processmkvi | | setenv | function |
| F version | | showpath | function |
| maxreadlevel | number | simplescanfiles | function |
| methodhandler | function | splitconfigurationpath | function |
| openbinfile | function | splitexpansions | function |
| openers | data table | splitmethod | function |
| openfile | function | splitpath | function |
| opentexfile | function | stackpath | function |
| ownpath | string | starttiming | function |
| popextrapath | function | stoptiming | function |
| popinputname | function | 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 |

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

sandbox (context)

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

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

scripts (context)

autofontfeature table

F disable
F enable
F handler

colors data table

decomposehangul function

defaults table

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

getdata function

getinjector function

getsplitter function

getstatus function

handlers data table

helpers data table

injectors data table

inserters table

F nobreakspace_after

F nobreakspace_before

F space_after

F space_before

F zerowidthspace_after

F zerowidthspace_before

installdataset function

installmethod function

numbertodataset data table

numbertohandler data table

reset function

set function

setstatus function

splitters data table

set (context)

contains function

create function

tolist function

tonumber function

totable function

sha2 (extra lua)

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

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

sio (extra lua)

| | |
|--------------------------|----------|
| read2dot14 | function |
| readbytes | function |
| readbytetable | function |
| readcardinal1 | function |
| readcardinal1le | function |
| readcardinal2 | function |
| readcardinal2le | function |
| readcardinal3 | function |
| readcardinal3le | function |
| readcardinal4 | function |
| readcardinal4le | function |
| readcardinaltable | function |
| readcline | function |
| readcstring | function |
| readfixed2 | function |
| readfixed4 | function |
| readinteger1 | function |

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

socket (extra lua)

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

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

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

sorters (context)

| | | | |
|---------------------|----------|------------------------|------------|
| basicsorter | function | | B pm |
| comparers | table | | B uc |
| F basic | | | B zc |
| constants | table | | B zm |
| S defaultdigits | | definitions | data table |
| 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 (extra lua)

| | |
|---------------|----------|
| 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 | longtostring | function |
| autosingle | function | lower | function |
| booleanstring | function | match | function |
| byte | function | nospaces | function |
| bytepairs | function | nspace | table |
| bytes | function | octtointeger | function |
| bytetable | function | optionalquoted | function |
| char | function | pack | function |
| characterpairs | function | packrowscolumns | function |
| characters | function | packsize | function |
| checkedsplit | function | quote | function |
| chrtointeger | function | quoted | function |
| collapsespaces | function | rep | function |
| containsws | function | replacenewlines | function |
| count | function | reverse | function |
| dawson | function | split | function |
| dectointeger | function | splitlines | function |
| dump | function | splitup | function |
| erf | function | strip | function |
| erfc | function | sub | function |
| erfcx | function | texhashed | function |
| erfi | function | texnewlines | function |
| escapedpattern | function | tformat | function |
| escapedquotes | function | toHEX | function |
| explode | function | toboolean | function |
| f6 | function | tobytes | function |
| find | function | tocontext | function |
| format | function | todec | function |
| formatter | function | todimen | function |
| formatters | function | tohex | function |
| fullstrip | function | tonodes | function |
| gmatch | function | topattern | function |
| gsub | function | totable | function |
| hextocharacters | function | tounicode16 | function |
| hextointeger | function | toutf | function |
| is_boolean | function | toutf32 | function |
| is_empty | function | toutf8 | function |
| itself | function | tracedchar | function |
| len | function | tracedchars | table |
| limit | function | unescapedquotes | function |
| linetable | function | unpack | function |

| | |
|---------------------------|----------|
| unquote | function |
| unquoted | function |
| upper | function |
| utfcharacter | function |
| utfcharacters | function |
| utfcharacter table | function |
| utf length | function |
| utfpadd | function |
| utfpadding | function |

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

structures (context)

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

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

| | |
|----------------------------|--------------|
| F prefixedpage | |
| F process | |
| D pushed | |
| F pushnesting | |
| F rawnumber | |
| F realpage | |
| F reordered | |
| T result | |
| F savedlistnumber | |
| F savedlistprefixednumber | |
| F savedlisttitle | |
| D sectionblocks | |
| F sectionnumber | |
| F size | |
| F title | |
| D tobesaved | |
| F use | |
| F userdata | |
| F uservalue | |
| marks | table |
| F number | |
| F title | |
| notes | table |
| F check_spacing | |
| F checkpagechange | |
| F define | |
| F doifonsamepageasprevious | |
| F get | |
| F getdeltapage | |
| F getinternal | |
| F getn | |
| F getstate | |
| F hascontent | |
| F internal | |
| F internalid | |
| F listindex | |
| D numbers | |
| F ordered | |
| F postpone | |
| F resetpostponed | |
| F restore | |
| F save | |
| F setstate | |
| D states | |

| | |
|--------------|--------------|
| F store | |
| pages | table |
| F allmarked | |
| F analyze | |
| D collected | |
| F fraction | |
| F in_body | |
| F is_odd | |
| F mark | |
| F marked | |
| F markedlist | |
| N nopages | |
| F number | |
| F on_right | |
| F save | |
| D tobesaved | |
| F toranges | |

| | |
|---------------------|--------------|
| references | table |
| F analyze | |
| F checked | |
| F checkedfile | |
| F checkedfileorurl | |
| F checkedprogram | |
| F checkedrealpage | |
| F checkedurl | |
| D collected | |
| U componentsplitter | |
| F currentmetadata | |
| F currentorder | |
| D currentset | |
| F define | |
| D defined | |
| D derived | |
| F enhance | |
| D executers | |
| F export | |
| T files | |
| T data | |
| F define | |
| F found | |
| F get | |
| F filter | |
| F filterdefault | |
| D filters | |

| |
|----------------------------------|
| D flaginternals |
| F from |
| D functions |
| F get |
| F getcurrentmetadata |
| F getcurrentprefixspec |
| F getinnermethod |
| F getinternalcachedlistreference |
| F getinternallistreference |
| F getinternalreference |
| F getoutermethod |
| D handlers |
| F identify |
| F import |
| F inject |
| F injectcurrentset |
| S innermethod |
| F integrate |
| D internals |
| F load |
| F loadpresets |
| F mark |
| S outermethod |
| F pagefromhash |
| D pages |
| U prefixsplitter |
| D productdata |
| T programs |
| T data |
| F define |
| F get |
| F realpageofpage |
| U referencesplitter |
| D referred |
| F referredpage |
| F registerfinalizer |
| F registerinitializer |
| F registerpage |
| F reset |
| D runners |
| F set |
| F setandgetattribute |
| F setinternalreference |
| F setlinkmethod |

- F setnextinternal
- F setnextorder
- F setreferencerealpage
- F setstructure
- D specials
- F splitcomponent
- F splitprefix
- F splitreference
- F synchronizepage
- T testrunners
 - F inner
 - F special
 - F special operation
 - F special operation with arguments
- T testspecials
 - F deltapage
 - F i
 - F internal
 - F page
 - F realpage
 - F section
 - F userpage
- D tobereferred
- D tobesaved
- D tracedpages
- T urls
 - T data
 - F define
 - F found
 - F get
 - F untext
- D usedinternals
- D usedviews
- F valid

registers

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

table

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

sections

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

table

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

sets table

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

specials table

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

synonyms table

- F analyzed
- D collected
- F compare
- F define
- F enhance
- F filter
- F finalize
- F flush
- F isshown
- F isused
- F meaning
- F pages
- F prepare
- F process
- F register
- F registershown
- F registerused

- F reset
- F resetall
- F resetlist
- F resetshown
- F resetused
- F sort
- F synonym
- D tobesaved

tags table

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

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

table (basic lua)

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

tex (basic tex)

| | | | |
|--------------------------------|------------|------------------------------------|------------|
| amcode | table | extraprimitives | function |
| attribute | table | fatalerror | function |
| automigrationcodes | data table | fillcodes | data table |
| autoparagraphcodes | data table | fitnesscodes | data table |
| badness | function | flagcodes | data table |
| boundaries | table | fontidentifier | function |
| D names | | fontname | function |
| D numbers | | forcehmode | function |
| F system | | forceinputstatefile | function |
| box | table | forceinputstateline | function |
| boxresources | table | fprint | function |
| F getbox | | frozenparcodes | data table |
| F getdimensions | | get | function |
| F save | | getalignmentcontextvalues | function |
| F use | | getamcode | function |
| breakcodes | data table | getappendlinecontextvalues | function |
| buildcodes | data table | getattribute | function |
| catcode | table | getautomigrationvalues | function |
| character>tagcodes | data table | getautoparagraphvalues | function |
| chardef | function | getbox | function |
| classoptioncodes | data table | getboxdir | function |
| codes | table | getboxresourcebox | function |
| conditionals | data table | getboxresourcedimensions | function |
| constants | data table | getbreakcontextvalues | function |
| count | table | getbuildcontextvalues | function |
| cprint | function | getcardinalvalue | function |
| ctdcatcodes | number | getcatcode | function |
| ctxcatcodes | number | getcharacter>tagvalues | function |
| definefont | function | getcount | function |
| delcode | table | getdelcode | function |
| dimen | table | getdelcodes | function |
| dimensiondef | function | getdimen | function |
| directioncodes | data table | getdimensionvalue | function |
| directives | data table | getdirectionvalues | function |
| discoptioncodes | data table | getdiscoptionvalues | function |
| dontcomplain | function | getdiscstatevalues | function |
| doublescriptoptioncodes | data table | getdoublescriptoptionvalues | function |
| enableprimitives | function | geterrorvalues | function |
| error | function | getfillvalues | function |
| expandasvalue | function | getfitnessvalues | function |
| experiments | data table | getflagvalues | function |

| | | | |
|---------------------------------|----------|------------------------------------|----------|
| getfloat | function | getmathcodes | function |
| getfontofffamily | function | getmathcontrolvalues | function |
| getfrozenparvalues | function | getmathdir | function |
| getglue | function | getmathgluevalues | function |
| getglueoptionvalues | function | getmathoptionvalues | function |
| getglyphdata | function | getmathparametervalues | function |
| getglyphoptionvalues | function | getmathscriptordervalue | function |
| getglyphscales | function | getmathscriptsmodevalues | function |
| getglyphscript | function | getmathstylenamevalues | function |
| getglyphstate | function | getmathstylevalues | function |
| getgroupvalues | function | getmathsurroundvalues | function |
| gethccode | function | getmathvariantvalues | function |
| gethelptext | function | getmode | function |
| gethmcode | function | getmodevalues | function |
| gethyphenationvalues | function | getmuglue | function |
| getiftypes | function | getmuskip | function |
| getinputstatefile | function | getnest | function |
| getinputstateline | function | getnestlevel | function |
| getinputstatemode | function | getnoadoptionvalues | function |
| getinsertcontent | function | getnormalizelinevalues | function |
| getinsertdepth | function | getnormalizeparvalues | function |
| getinsertdistance | function | getoutputactive | function |
| getinsertheight | function | getpacktypevalues | function |
| getinsertlimit | function | getpagecontextvalues | function |
| getinsertmultiplier | function | getpagestate | function |
| getinsertwidth | function | getparametermodevalues | function |
| getintegervalue | function | getparcontextvalues | function |
| getinteraction | function | getpardir | function |
| getinteractionmodes | function | getparmodevalues | function |
| getiovalues | function | getparpassclassvalues | function |
| getkerneloptionvalues | function | getparstate | function |
| getlargestusedmark | function | getpartriggervalue | function |
| getlccode | function | getpenaltyoptionvalues | function |
| getlinedir | function | getpositvalue | function |
| getlist | function | getprepoststatevalues | function |
| getlistanchorvalues | function | getprimitiveorigins | function |
| getlistgeometryvalues | function | getprotrusionboundaryvalues | function |
| getlistsignvalues | function | getregisterindex | function |
| getlocalbox | function | getrunstatevalues | function |
| getlocallevel | function | getsfcode | function |
| getmark | function | getshapingpenaltiesvalues | function |
| getmath | function | getskip | function |
| getmathclassoptionvalues | function | getspecialmathclassvalues | function |
| getmathcode | function | gettextcontrolvalues | function |

| | | |
|---------------------------|------------|------------------------------|
| gettextdir | function | N defaultthangafter |
| gettoks | function | N defaulttoutputbox |
| getuccode | function | N defaultpredisplaygap |
| getunitclassvalues | function | N defaultrule |
| glue | table | N defaultspacefactor |
| glueoptioncodes | data table | N defaulttolerance |
| glyphoptioncodes | data table | N deplorable |
| groupcodes | data table | N ejectpenalty |
| hashtokens | function | N ignoredepth |
| hccode | table | N infinitebad |
| hmcode | table | N infinitepenalty |
| hshcatcodes | number | N infinity |
| hyphenationcodes | data table | N largewidthexcess |
| ifs | data table | N loosecriterion |
| inicatcodes | number | N mathallclass |
| integerdef | function | N mathbeginclass |
| interactioncodes | data table | N mathdefaultpenalty |
| isattribute | function | N mathendclass |
| isbox | function | N mathfirstuserclass |
| iscount | function | N mathlastuserclass |
| isdefined | function | N maxattributeregisterindex |
| isdimen | function | N maxboxregisterindex |
| isfloat | function | N maxbytecodeindex |
| isglue | function | N maxcalculatedbadness |
| ismuglue | function | N maxcardinal |
| ismuskip | function | N maxcategorycode |
| isprintable | function | N maxcharactercode |
| isskip | function | N maxdatavalue |
| istoks | function | N maxdimen |
| lastnodetype | function | N maxdimenregisterindex |
| lccode | table | N maxdimension |
| linebreak | function | N maxdimensionregisterindex |
| listanchorcodes | data table | N maxendlinecharacter |
| listgeometrycodes | data table | N maxfloatregisterindex |
| lists | table | N maxfontadjustshrinkfactor |
| listsigncodes | data table | N maxfontadjuststep |
| luacatcodes | number | N maxfontadjuststretchfactor |
| magicconstants | table | N maxfunctionreference |
| N assumedmathcontrol | | N maxglueregisterindex |
| N awfulbad | | N maxhalfvalue |
| N decentcriterion | | N maxhalfword |
| N defaultcatcodetable | | N maxinteger |
| N defaultdeadcycles | | N maxintegerregisterindex |
| N defaulteqnogapstep | | N maxintregisterindex |

| | | |
|--------------------------|--------------------------------|------------|
| N maxlimitedscale | N unusedmathfamily | |
| N maxmarkindex | N unusedmathstyle | |
| N maxmathclasscode | N unusedscriptvalue | |
| N maxmathfamilyindex | N unusedstatevalue | |
| N maxmathscalingfactor | N zeroglu | |
| N maxmathstylescale | mathchardef | function |
| N maxmuglueregisterindex | mathcode | table |
| N maxnewlinecharacter | mathcontrolcodes | data table |
| N maxnofbytecodes | mathoptioncodes | data table |
| N maxnofcatcodetables | mathparametercodes | data table |
| N maxnoffonts | mathscriptordercodes | data table |
| N maxnoflanguages | mathscriptsodecodes | data table |
| N maxnofmarks | modelevels | table |
| N maxnofmathfamilies | N horizontal | |
| N maxquarterword | N math | |
| N maxscalefactor | N unset | |
| N maxsizeofword | N vertical | |
| N maxspacefactor | modes | data table |
| N maxtoksregisterindex | mprint | function |
| N mincardinal | muglue | table |
| N mindatavalue | muskip | table |
| N mindimen | nest | table |
| N mindimension | nilcatcodes | number |
| N minhalfword | noadoptioncodes | data table |
| N mininfinity | normalizelinecodes | data table |
| N mininteger | normalizeparcodes | data table |
| N minquarterword | notcatcodes | number |
| N minscalefactor | number | function |
| N minspacefactor | parcontextcodes | data table |
| N nocatcodetable | parpassclasscodes | data table |
| N null | partriggercodes | data table |
| N nullflag | penaltyoptioncodes | data table |
| N nullfont | poplocal | function |
| N onebp | popsavelevel | function |
| N presetrulethickness | posit | table |
| N runningrule | positdef | function |
| N smallstretchability | preparelinebreak | function |
| N texeqtbsize | primitives | function |
| N texhashprime | print | function |
| N texhashsize | protrusionboundarycodes | data table |
| N two | prtcacodes | number |
| N undefinedmathparameter | pushlocal | function |
| N unity | pushsavelevel | function |
| N unusedattributevalue | quitlocal | function |

| | | | |
|----------------------------|----------|------------------------------|---------------------|
| quittoks | function | setmathdir | function |
| resetparagraph | function | setmuglue | function |
| rlncatcodes | number | setmuskip | function |
| romannumeral | function | setnest | function |
| round | function | setpardir | function |
| runlocal | function | setpositvalue | function |
| runstring | function | setrunstate | overloaded function |
| runtoks | function | setsfcode | function |
| saveboxresource | function | setskip | function |
| scale | function | settextdir | function |
| scantoks | function | settoks | function |
| set | function | setuccode | function |
| setamcode | function | sfcode | table |
| setattribute | function | shapingpenaltiescodes | data table |
| setbox | function | shiftparshape | function |
| setboxdir | function | shipout | function |
| setcardinalvalue | function | showcontext | function |
| setcatcode | function | skip | table |
| setcount | function | snapshotpar | function |
| setdelcode | function | sp | function |
| setdimen | function | specialmathclasscodes | data table |
| setdimensionvalue | function | splitbox | function |
| setfloat | function | sprint | function |
| setglue | function | stringtocodesbitmap | function |
| setglyphdata | function | systemmodes | data table |
| setglyphscript | function | takebox | function |
| setglyphstate | function | texcatcodes | number |
| sethccode | function | textcontrolcodes | data table |
| sethmcode | function | toks | table |
| setinputstatefile | function | tonumber | function |
| setinputstateline | function | toscaled | function |
| setinputstatemode | function | tpacatcodes | number |
| setinsertcontent | function | tpbcacodes | number |
| setinserttdistance | function | tprint | function |
| setinsertlimit | function | trackers | data table |
| setinsertmultiplier | function | triggerbuildpage | function |
| setintegervalue | function | txtcatcodes | number |
| setinteraction | function | uccode | table |
| setlccode | function | uprint | function |
| setlinedir | function | useboxresource | function |
| setlist | function | userdiscoptioncodes | data table |
| setlocalbox | function | userglyphoptiocodes | data table |
| setmath | function | vrbcacodes | number |
| setmathcode | 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 |
| forceendoffile | function |
| getinputindex | function |
| getsourcefilename | function |
| setlogfile | function |
| terminal | function |

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

token (basic tex)

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

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

| | | | |
|----------------------------|----------|---------------------------------|----------|
| <code>set_char</code> | function | <code>setmacro</code> | function |
| <code>set_dimension</code> | function | <code>skip_next</code> | function |
| <code>set_integer</code> | function | <code>skip_next_expanded</code> | function |
| <code>set_lua</code> | function | <code>skipnext</code> | function |
| <code>set_macro</code> | function | <code>skipnextexpanded</code> | function |
| <code>setchar</code> | function | <code>type</code> | function |
| <code>setdimension</code> | function | <code>undefine_macro</code> | function |
| <code>setinteger</code> | function | <code>undefinemacro</code> | function |
| <code>setlua</code> | 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 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

cache data table

commands data table

compile function

constant function

converters table

S toboolean

S todimen

S toglue

S tonumber

S tostring

create function

defined function

flags function

getinteger function

getters table

F box

F count

F cstoken

F dimen

F glue

F macro

F meaning

F skip

F token

gobble function

isdefined function

istoken function

new function

pickup function

popmacro function

presets table

T 1 argument

T 1 integer

T 1 optional

T 1 string

T 2 arguments

T 2 integers

T 2 optionals

T 2 strings

T 3 arguments

T 3 integers

T 3 optionals

T 3 strings

T 4 arguments

T 4 integers

T 4 optionals

T 4 strings

T 5 strings
T 6 strings
T 7 strings
T 8 strings
pushmacro function
scanners table

F argument
F argumentasis
F array
F boolean
F box
F bracketed
F bracketedasis
F cardinal
F char
F cmdchr
F cmdchrexploded
F code
F conditional
F count
F csname
F csnameunchecked
F delimited
F detokened
F dimen
F dimenargument
F dimension
F float
F glue
F gluespec
F gluevalues
F hash
F hbox
F integer
F integerargument
F ischar
F key
F keyword
F keywordcs
F letters
F list
F luacardinal
F luainteger
F luanumber

F lxmlid
F next
F nextchar
F nextexpanded
F number
F optional
F peek
F peekchar
F peekexpanded
F posit
F real
F scanclase
F scanopen
F skip
F skipexpanded
F string
F table
F token
F tokencode
F tokenlist
F tokens
F tokenstring
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 | F scanhbox |
| N close | F scaninteger |
| N comment | F scanintegerargument |
| N endgroup | F scankeyword |
| N endofline | F scankeywordcs |
| N escape | F scanletters |
| N ignore | F scanlist |
| N invalid | T scanners |
| N letter | F argument |
| N mathshift | F argumentasis |
| N open | F array |
| N other | F boolean |
| N parameter | F box |
| N space | F bracketed |
| N subscript | F bracketedasis |
| N superscript | F cardinal |
| N whitespace | F char |
| N close | F cmdchr |
| F inspect | F cmdchrexpanded |
| N open | F code |
| F report | F conditional |
| F scanargument | F count |
| F scanargumentasis | F csname |
| F scanarray | F csnameunchecked |
| F scanboolean | F delimited |
| F scanbox | F detokened |
| F scanbracketed | F dimen |
| F scanbracketedasis | F dimenargument |
| F scancardinal | F dimension |
| F scanclose | F float |
| F scancode | F glue |
| F scanconditional | F gluespec |
| F scancsname | F gluevalues |
| F scancsnameunchecked | F hash |
| F scandelimited | F hbox |
| F scandetokened | F integer |
| F scandimen | F integerargument |
| F scandimenargument | F ischar |
| F scandimension | F key |
| F scanfloat | F keyword |
| F scanglue | F keywordcs |
| F scangluespec | F letters |
| F scangluevalues | F list |
| F scanhash | F luacardinal |

| | |
|-------------------|--------------|
| F luainteger | F todimen |
| F luanumber | T tokens |
| F lxmlid | T accessors |
| F next | F active |
| F nextchar | F cmd |
| F nextexpanded | F cmdchrsc |
| F number | F cmdname |
| F optional | F command |
| F peek | F csname |
| F peekchar | F expandable |
| F peekexpanded | F frozen |
| F posit | F index |
| F real | F name |
| F scanclose | F protected |
| F scanopen | F range |
| F skip | F astable |
| F skipexpanded | D cache |
| F string | D commands |
| F table | F compile |
| F token | F constant |
| F tokencode | T converters |
| F tokenlist | S toboolean |
| F tokens | S todimen |
| F tokenstring | S toglue |
| F toks | S tonumber |
| F value | S tostring |
| F vbox | F create |
| F verbatim | F defined |
| F vtop | F flags |
| F whd | F getinteger |
| F word | T getters |
| F scannumber | F box |
| F scanopen | F count |
| F scanoptional | F cstoken |
| F scanstring | F dimen |
| F scantable | F glue |
| F scantokenlist | F macro |
| F scantokenstring | F meaning |
| F scantoks | F skip |
| F scanvbox | F token |
| F scanverbatim | F gobble |
| F scanvtop | F isdefined |
| F scanword | F istoken |
| F toboolean | F new |

| | |
|--------------------------|--------------------------|
| F pickup | F scandimenargument |
| F popmacro | F scandimension |
| T presets | F scanfloat |
| F pushmacro | F scan glue |
| F setinteger | F scan glue spec |
| T setters | F scan glue values |
| F box | F scan hash |
| F char | F scan hbox |
| F count | F scan integer |
| F dimen | F scan integer argument |
| F glue | F scan keyword |
| F lua | F scan keyword cs |
| F macro | F scan letters |
| F skip | F scan list |
| T shortcuts | F scan number |
| N close | F scan open |
| F inspect | F scan optional |
| N open | F scan string |
| F report | F scan table |
| F scan argument | F scan token list |
| F scan argument as is | F scan token string |
| F scan array | F scan toks |
| F scan boolean | F scan vbox |
| F scan box | F scan verbatim |
| F scan bracketed | F scan vtop |
| F scan bracketed as is | F scan word |
| F scan cardinal | F to boolean |
| F scan close | F to dimen |
| F scan code | F to number |
| F scan conditional | F to string |
| F scan cs name | D values |
| F scan cs name unchecked | F to number |
| F scan delimited | F to string |
| F scan detokened | values data table |
| F scandimen | |

tracers (context)

printerror function
printwarning function

showlines function

trackers (context)

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

typesetters (context)

| | | | |
|-----------------------|-------|---------------------|------------------|
| alignments | table | | F getmethod |
| breakpoints | table | | F handler |
| | | | T handlers |
| | | | F installhandler |
| | | | F set |
| | | | F setcolor |
| | | | F tomode |
| | | firstlines | table |
| | | | T actions |
| | | | F default |
| | | | F line |
| | | | F word |
| | | | F handler |
| | | | F set |
| cases | table | fontkerns | table |
| | | | F handler |
| | | initials | table |
| | | | T actions |
| | | | F default |
| | | | F handler |
| | | | F set |
| characteralign | table | injectors | table |
| | | | F check |
| | | | T list |
| | | | F mark |
| | | | F reset |
| | | | F set |
| | | | F show |
| characters | table | italics | table |
| | | | F enablemath |
| | | | F enabletext |
| | | | F handler |
| checkers | table | kerns | table |
| | | | D factors |
| | | | F handler |
| | | | F keepligature |
| | | | D mapping |
| | | | F set |
| cleaners | table | localboxes | table |
| | | | F handler |
| | | manipulators | table |
| | | | |
| corrections | table | | |
| | | | |
| | | | |
| digits | table | | |
| | | | |
| | | | |
| | | | |
| directions | table | | |
| | | | |
| | | | |

| | | | |
|----------------------|----------|----------------------------|----------|
| F apply | | F stripped | |
| F applyspecification | | F tostring | |
| T methods | | rubies | table |
| F Word | | F attach | |
| F Words | | F check | |
| F abbreviatedjournal | | showsuspects | function |
| F expandedjournal | | spacings | table |
| F lowercase | | F define | |
| F stripperperiod | | F handler | |
| F uppercase | | D mapping | |
| T patterns | | T numbers | |
| U list | | T frenchpunctuation | |
| U pair | | T characters | |
| F splitspecification | | S name | |
| margins | table | N number | |
| F finalhandler | | F reset | |
| F globalhandler | | F set | |
| F localhandler | | F setup | |
| F save | | synchronize | table |
| marksuspects | function | F handler | |
| paragraphs | table | tighten | table |
| F addanchortoline | | F handler | |
| F addtoline | | wrappers | table |
| F calculatedelta | | xtables | table |
| F checkline | | F cleanup | |
| F moveinline | | F construct | |
| periodkerns | table | F create | |
| D factors | | F finish_row | |
| F handler | | F flush | |
| D mapping | | F initialize_construct | |
| F set | | F initialize_reflow_height | |
| processors | table | F initialize_reflow_width | |
| F apply | | F next_row | |
| F register | | F reflow_height | |
| F reset | | F reflow_width | |
| F split | | F set_construct | |
| F startapply | | F set_reflow_height | |
| F stopapply | | 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 | B | auto |
| F | checkmemory | B | broad |
| F | compile | B | fit |
| F | loadedluacode | B | max |
| F | loadstring | B | min |
| F | loadstripped | T | text,hidden,paper,page,leftpage,rightpage |
| N | nofstrippedbytes | B | hidden |
| N | nofstrippedchunks | B | leftpage |
| F | registerfinalizer | B | page |
| B | stripcode | B | paper |
| T | strippedchunks | B | rightpage |
| F | strippedloadstring | B | text |
| T | suffixes | F | iterator |
| S | lmt | F | keq_to_hash |
| S | lua | F | listitem |
| S | luc | F | make_settings_to_hash_pattern |
| S | lui | F | mergehashes |
| S | luj | F | options_to_array |
| S | luv | F | options_to_hash |
| S | tma | T | patterns |
| S | tmc | U | settings_to_array |
| S | tua | U | settings_to_hash_a |
| S | tuc | U | settings_to_hash_b |
| packers | table | U | settings_to_hash_c |
| F | hashed | U | settings_to_hash_d |
| F | new | U | unittotex |
| F | pack | F | process_stripped_settings |
| F | simplehashed | F | rfc4180splitter |
| F | strip | F | runtime |
| F | unpack | F | settings_to_array |
| N | version | F | settings_to_array_obey_fences |
| parsers | table | F | settings_to_array_with_repeat |
| F | add_settings_to_array | F | settings_to_hash |
| F | arguments_to_table | F | settings_to_hash_colon_too |
| F | array_to_string | F | settings_to_hash_strict |
| F | csvsplitter | F | settings_to_hash_tolerant |
| F | getparameters | F | settings_to_numbers |
| F | groupedsplitat | F | settings_to_set |
| F | hash_to_string | F | simple_hash_to_string |
| T | hashes | F | splitmethod |
| T | settings_to_list | F | splitthousands |
| T | tablet | F | stepper |
| T | settings_to_set | F | stripped_settings_to_array |
| T | min,max,fit,broad,auto | F | totime |

- F unittotex
- F unittotxml
- randomizer** table
 - F get
 - F getnumber
 - F getrepeatable
 - F getrepeatableseed
 - F getseed
 - F newrepeatable
 - F popseed
 - F pushseed
 - F repeatable
 - F reuseseed
 - F setseed
 - F setseedi
- randomizers** table
 - F poisson
- sequencers** table
 - F appendaction
 - F appendgroup
 - F compile
 - F disableaction
 - F disablegroup
 - F enableaction
 - F enablegroup
 - D functions
 - F localize
 - F new
 - F nodeprocessor
 - F prependaction
 - F prependgroup
 - F removeaction
 - F replaceaction
 - F setkind
 - F toString
- setters** table
 - F disable
 - F enable
 - F initialize
 - F list
 - F new
 - F register
 - F report
 - F reset

- F show
- stacker** table
 - F new
- storage** table
 - F allocate
 - F checked
 - F mark
 - F marked
 - F setinitializer
 - F sparse
- streams** table
 - F close
 - F getposition
 - F getsizes
 - F getstring
 - F look
 - F open
 - F openstring
 - F read2dot14
 - F readbyte
 - F readbytes
 - F readbytetable
 - F readcardinal
 - F readcardinal1
 - F readcardinal11e
 - F readcardinal2
 - F readcardinal21e
 - F readcardinal3
 - F readcardinal31e
 - F readcardinal4
 - F readcardinal41e
 - F readcardinaltable
 - F readchar
 - F readcline
 - F readcstring
 - F readfixed2
 - F readfixed4
 - F readinteger
 - F readinteger1
 - F readinteger11e
 - F readinteger2
 - F readinteger21e
 - F readinteger3
 - F readinteger31e

F readinteger4
 F readinteger4le
 F readintegertable
 F readsignedbyte
 F readstring
 F setposition
 F size
 F skip
 F skipbytes
 F skiplong
 F skipshort
 F tocardinal1
 F tocardinal1le
 F tocardinal2
 F tocardinal2le
 F tocardinal3
 F tocardinal3le
 F tocardinal4
 F tocardinal4le
strings table
 F collapse
 F collapsecrlf
 T formatters
 F add
 F new
 F newcollector
 F newrepeater
 F nice
 T striplinepatterns
 U collapse
 U collapse all
 U prune
 U prune and collapse
 U prune and no empty
 U prune and to space
 U retain
 U retain and collapse
 U retain and no empty
 F striplines
 F striplong
 F tabtospace
 T tracers
tables table
 F accesstable

F definedtable
 F definetable
 F encapsulate
 F insertaftervalue
 F insertbeforevalue
 F migratetable
 F removevalue
 F replacevalue
tar table
 T archives
 F closearchive
 T files
 F fetch
 F hash
 F list
 F pack
 F unpack
 F openarchive
 T registeredfiles
 T streams
 F fetch
 F hash
 F list
 F pack
 F unpack
 T strings
 F fetch
 F hash
 F list
 F pack
 F unpack
templates table
 F load
 F replace
 F replacer
 F resolve
zipfiles table
 F close
 F found
 F hash
 F list
 F open
 F unzip

F unzipdir

F zipdir

visualizers (context)

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

xcomplex (extra lua)

| | | | |
|----------------|----------|---------------|----------|
| I | function | F sqrt | |
| __add | function | F tan | |
| __div | function | F tanh | |
| __eq | function | F topair | |
| __index | table | F tostring | |
| F I | | F 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 |
| checkboxom | function | delete | function |
| checkedempty | function | delete_element | function |
| checkerror | function | despecialized | function |
| checknamespace | function | each | function |
| checkns | function | each_element | function |
| cleansed | function | elements | function |
| collect | function | elementtocdata | function |
| collect_elements | function | empty | function |
| collect_tags | function | entities | data table |
| collect_texts | function | erase | function |
| collected | function | errorhandler | function |
| collecttexts | function | escaped | function |
| compactelement | function | expand | function |
| content | function | expressions | table |
| convert | function | F attribute | |
| copy | function | F boolean | |
| count | function | F child | |
| cprint | function | F contains | |
| CSS | table | F count | |
| F applyselector | | F error | |
| F colorspecification | | F find | |
| F dimension | | F hasclass | |

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

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

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

xzip (extra lua)

adler32 function

compress function

compresssize function

crc32 function

decompress function

decompresssize function

zip (context)

| | | | |
|---------------------|----------|------------------------|----------|
| archives | table | openarchive | function |
| closearchive | function | registeredfiles | table |

zlib (context)

| | |
|---------------------|----------|
| adler32 | function |
| compress | function |
| compresssize | function |

| | |
|-----------------------|----------|
| crc32 | function |
| decompress | function |
| decompresssize | function |