

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

ConT_EXt LMTX

global (alias: _G)

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

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

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|--------------------|----------|-----------------|-----------------|
| typesetters | table | warn | function |
| unpack | function | xcomplex | table |
| updaters | table | xdecimal | table |
| url | table | xmath | table |
| userdata | table | xml | table |
| utf | table | xpcall | function |
| utf8 | table | xzip | table |
| utilities | table | zip | table |
| visualizers | table | zlib | table |

attributes (context)

alternates table

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

applyoverloads function

colorintents table

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

colors table

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

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

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

viewerlayers table

N attribute

F cleanup

D data

F define

F definedlayoutcomponent

F enable

F forcesupport

F handler

B hasorder

D listwise

F register

D registered

F resolve_begin

F resolve_end

F resolve_reset

F resolve_step

D scopes

F setfeatures

F start

F stop

B supported

D values

backends (context)

closeout function

codeinjections table

F boxresourcedimensions

F registerboxresource

F restoreboxresource

current string

defaults table

T codeinjections

T nodeinjections

T registrations

D tables

getcallbackstate function

included table

B context

B date

B id

B metadata

B pdf

install function

latelua function

nodeinjections table

nothing function

openout function

pdf table

T codeinjections

F addbookmarks

F analyzenormalsymbol

F analyzesymbol

F attachmentid

F bitmap

F clonefield

F copyimage

F definefield

F definefieldset

F defineviewerlayer

F embedfile

F embedimage

F enabletags

F exportformdata

F fieldsurrounding

F flushmergelayer

F getbookmarks

F getdefaultfieldvalue

F getfieldcategory

F getfieldset

F getformatoption

F getidentityvariable

F getinfo

F getpreviewfigure

F insertrenderingwindow

F jp2

F jpg

F maptag

F mergebookmarks

F mergecomments

F mergefields

F mergereferences

F mergeviewerlayers

F newimage

F png

F prerollreference

F presetsymbol

F presetsymbollist

F processrendering

F registerdocumentcloseaction

F registerdocumentopenaction

F registeredsymbol

F registerpagecloseaction

F registerpageopenaction

F registerpattern

F registersymbol

F scanimage

F setattachmentsupport

F setfieldcalculationset

F setfigurealternative

F setfigurecolorspace

F setfiguremask

F setformat

F setformsmethod

F setpagetransition

F settaggingsupport

F setupidentity

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

basexx (extra lua)

decode16 function

decode64 function

decode85 function

decodeLZW function

decodeRL function

encode16 function

encode64 function

encode85 function

encodeLZW function

encodeRL function

bit32 (basic lua)

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

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

blobs (context)

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

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

boolean (context)

tocontext function

tonumber function

buffers (context)

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

cache (context)

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

callback (basic tex)

find function
known function
list function

register overloaded function
usage function

callbacks (context)

freeze function

functions table

F start_page_number

F stop_page_number

known function

list data table

pop function

push function

register function

report function

supported table

B append_to_vlist_filter

B begin_paragraph

B build_page_insert

B buildpage_filter

B contribute_filter

B define_font

B find_format_file

B find_log_file

B get_attribute

B glyph_run

B handle_overload

B hpack_filter

B hpack_quality

B hyphenate

B insert_par

B intercept_lua_error

B intercept_tex_error

B kerning

B ligaturing

B linebreak_filter

B make_extensible

B missing_character

B mlist_to_hlist

B open_data_file

B paragraph_context

B post_linebreak_filter

B pre_dump

B pre_linebreak_filter

B pre_output_filter

B process_jobname

B show_error_message

B show_lua_call

B show_warning_message

B show_whatsit

B start_file

B start_run

B stop_file

B stop_run

B trace_memory

B vpack_filter

B vpack_quality

B wrapup_run

catcodes (context)

names data table

numbers data table

register function

characters (context)

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

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

chemistry (context)

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

containers (context)

cleanname function
content function
define function
is_usable function

is_valid function
read function
usecache boolean
write function

converters (context)

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

uchexnumbers

function

F translate

upper

function

weekday

function

verbose

table

word

function

words

function

D data

coroutine (basic lua)

close function
create function
isyieldable function
resume function

running function
status function
wrap function
yield function

ctxrunner (context)

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

data (context)

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

debug (basic lua)

getinfo function

sethook function

traceback function

dir (context)

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

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

directives (context)

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

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

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

| | |
|-----------------------|----------|
| outputfilename | function |
| report | function |

environment (context)

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

experiments (context)

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

figures (context)

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

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

file (basic lua)

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

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

fio (extra lua)

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

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

floats (context)

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

font (basic tex)

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

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

fonts (context)

analyzers table

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

checkers table

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

cid table

- F getmap
- F loadfile

collections table

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

constructors table

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

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

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

F addunicodetable
 F avar
 F cbdt
 F cblc
 F cff
 F cff2
 F cffcheck
 T cffencoder
 F checkhash
 F cmap
 F colr
 F compact
 F cpal
 F ebdt
 F eblc
 F ebsc
 F expand
 F extend
 F fvar
 F gdef
 F getcomponents
 F getinfo
 F glyf
 F gpos
 T gposhandlers
 F chainedcontext
 F context
 F cursive
 F extension
 F marktobase
 F marktoligature
 F marktomark
 F pair
 F single
 F gsub
 T gsubhandlers
 F alternate
 F chainedcontext
 F context
 F extension
 F ligature
 F multiple
 F reversechainedcontextsingle
 F single

F gvar
 F head
 T helpers
 F axistofactors
 F cleanname
 F getaxisscale
 F getfactors
 F getscales
 F gotodatatable
 F normalizedaxis
 T normalizedaxishash
 F readvariationdata
 F reportskippedtable
 F setvariabldata
 F hhea
 F hmtx
 F hvar
 F kern
 F loadfont
 F loadshapes
 F loca
 F math
 F maxp
 F mvar
 F name
 F os/2
 F pack
 F parsecharstrings
 F post
 F registerextender
 F rehash
 F sbix
 F stat
 T streamreader
 F close
 F getposition
 F getsizes
 F look
 F open
 F read2dot14
 F readbyte
 F readbytes
 F readbytetable
 F readcardinal

| | |
|---------------------|---------------------|
| F readcardinal1 | F writeinteger3 |
| F readcardinal1le | F writeinteger3le |
| F readcardinal2 | F writeinteger4 |
| F readcardinal2le | F writeinteger4le |
| F readcardinal3 | F writestring |
| F readcardinal3le | F stripredundant |
| F readcardinal4 | F svg |
| F readcardinal4le | N tableversion |
| F readcardinaltable | F unifymissing |
| F readchar | F unpack |
| F readfixed2 | F vhea |
| F readfixed4 | F vmtx |
| F readinteger | F vorg |
| F readinteger1 | F vvar |
| F readinteger1le | F woff2otf |
| F readinteger2 | F registerpalette |
| F readinteger2le | F registerplugin |
| F readinteger3 | F reorderlookups |
| F readinteger3le | F scriptandlanguage |
| F readinteger4 | F setdynamics |
| F readinteger4le | F setfeatures |
| F readintegertable | T statistics |
| F readsignedbyte | D usedfeatures |
| F readstring | D svgcache |
| F readtag | B svgenabled |
| F setposition | T tables |
| F size | D baselines |
| F skip | D features |
| F skiplong | D featuretypes |
| F skipposition | D languages |
| F skipshort | D scripts |
| F writebyte | F texthandler |
| F writecardinal1 | N version |
| F writecardinal1le | T pfb |
| F writecardinal2 | F loadvector |
| F writecardinal2le | T tfm |
| F writecardinal3 | D cache |
| F writecardinal3le | D features |
| F writecardinal4 | N maxnestingdepth |
| F writecardinal4le | N maxnestingsize |
| F writeinteger1 | T readers |
| F writeinteger1le | F loadpk |
| F writeinteger2 | F loadtfm |
| F writeinteger2le | F loadtfmvf |

- F loadvf
- F pktopdf
- F showpk
- F reencode
- F setfeatures
- N version
- T vf
 - T combinations
 - F combine
 - T combiner
 - D commands
 - D helpers
 - D math
 - N version
 - D whatever
- F hashfeatures
- F hashinstance
- T hashmethods
 - F normal
 - F virtual
- F initializefeatures
- D loadedfonts
- N noffontsloaded
- N nofsharedfonts
- N nofsharedhashes
- N nofsharedvectors
- N privateoffset
- D privateslots
- F readanddefine
- F registerfeature
- F resetfeature
- B resolvevirtualtoo
- F scale
- F scaled
- F setfactor
- F setfeature
- F setmathparameter
- F setname
- B sharefonts
- F trytosharefont
- N version

current function
currentid function
definers table

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

definetypface function
dropins table

- F clone
- F getshape
- F getshapes
- F nextid
- F provide
- F registerglyph
- F registerglyphs
- F swap
- F swapone

encodings table

- T agl
 - D ctxcodes
 - D extras
 - D names
 - D synonyms
 - D unicodes
- D cache

| | | | |
|------------------------|------------|-------------------------|-------|
| F is_known | | D designsizes | |
| D known | | D filenames | |
| F load | | F getcompositions | |
| F make_unicode_vector | | T list | |
| D math | | F load | |
| N version | | F prepare_features | |
| enhanceid | function | F register | |
| expansions | data table | F registerpostprocessor | |
| formats | data table | F report | |
| getalternate | function | T suffixes | |
| getindices | function | handlers | table |
| getkern | function | hashes | table |
| getmultiple | function | D characters | |
| getsubstitution | function | D classes | |
| getters | table | D csnames | |
| T alternate | | D descriptions | |
| F opentype | | D dynamics | |
| T kern | | D emwidths | |
| F opentype | | D exheights | |
| F type1 | | D extensibles | |
| F type3 | | D features | |
| T multiple | | D identifiers | |
| F opentype | | D italics | |
| T substitution | | D lastmathids | |
| F opentype | | D marks | |
| goodies | table | D mathparameters | |
| D colorschemes | | D modes | |
| T data | | D originals | |
| T dejavu-math | | D parameters | |
| S author | | T processes | |
| S comment | | D properties | |
| S copyright | | D quads | |
| B initialized | | D resources | |
| T mathematics | | T setdynamics | |
| T alternates | | T shapes | |
| T dotless | | D spaces | |
| S comment | | D spacings | |
| S feature | | T streams | |
| N value | | D unicodes | |
| T kerns | | D variants | |
| T *:0x1D449 | | D xheights | |
| T bottomright | | helpers | table |
| S name | | F addextraprivate | |
| S version | | F addprivate | |

- F appendcommands
- F appendcommandtable
- F checkflags
- F checkmerge
- F checksteps
- F collectanchors
- F combineglyphs
- D commands
- F composecharacters
- F descriptiontoslot
- F dimenfactor
- F expandglyph
- T extraprivates
- F fontpatternhassize
- F getcoloredglyphs
- F getdigitwidth
- F getinstancespec
- F getparameters
- F getprivatecharornode
- F getprivatenode
- F getprivates
- F getprivateslot
- F hasprivate
- F indextoslot
- F mathscriptslots
- F name
- F nametoslot
- F newprivateslot
- F prependcommands
- F prependcommandtable
- F privateslot
- F registerglyphbox
- F scalecommands
- F setboxglyph
- F setboxglyphs
- F setdigitwidth
- F setmetaglyph
- F setmetaglyphs
- F splitfontpattern
- F tochar
- T vfinjectors
 - F pdf
 - F startcolor
 - F stopcolor

- T vfspecials
- T backgrounds
- T outlines
- infofont** function
- iterators** table
 - F characters
 - F descriptions
 - F glyphs
- loggers** table
 - F format
 - F onetimemessage
 - F register
 - F reportdefinedfonts
 - F reportusedfeatures
- mappings** table
 - F addtounicode
 - F fromunicode16
 - F getentry
 - F loadfile
 - F loadline
 - F makenameparser
 - D overloads
 - F reset
 - F tounicode
 - F tounicode16
 - F tounicode16sequence
- metapost** table
 - F boundingbox
 - F boxtomp
 - F draw
 - F fill
 - F glyph
 - F maxbounds
 - F paths
 - F widthline
 - F zeroline
- names** data table
- nulldata** data table
- privateoffsets** table
 - B keepnames
 - N mathbase
 - N mathextrabase
 - N textbase
 - N textextrabase

| | |
|--------------------|------------|
| protrusions | data table |
| readers | table |
| F afm | |
| F check_lua | |
| F check_tfm | |
| F lua | |
| F ofm | |
| F opentype | |
| F otf | |
| F pfb | |
| D sequence | |
| F tfm | |
| F ttc | |
| F ttf | |
| F woff | |

| | |
|--------------------------|----------|
| reserveid | function |
| select | table |
| D alternatives | |
| F bodyfont | |
| D data | |
| F default | |
| D defaults | |
| F definefallbackfamily | |
| F definefontfamily | |
| F definefontfamilypreset | |
| D extras | |
| F fallback | |
| D fallbacks | |
| F features | |
| F filefallback | |
| F fontdata | |
| F fontfallback | |
| F fontsynonym | |
| F goodies | |
| F mathfallback | |
| D methods | |
| D presets | |

| | |
|---------------------------|--|
| F registerfallback | |
| F registerfiles | |
| F registerfontalternative | |
| F registerfontfamily | |
| F textfallback | |
| F typeface | |
| F typescript | |
| F userdata | |

| | |
|-------------------|-------|
| specifiers | table |
| D contextmerged | |
| F contextnumber | |
| D contextnumbers | |
| D contextsetups | |
| F contexttostring | |
| F definecontext | |
| F mergecontext | |
| F presetcontext | |
| F registercontext | |
| F showcontext | |
| F splitcontext | |
| D synonyms | |
| D variants | |

| | |
|----------------|-------|
| symbols | table |
| T emoji | |
| F checked | |
| F resolved | |
| F uselibrary | |

| | |
|-------------------|-------|
| tables | table |
| 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

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

bitmaps table

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

identifiers table

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

identify function

synchronizers table

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

gzip (extra lua)

compress function
compressed function
decompress function

load function
save function
suffix function

images (context)

| | | | | |
|-----------------------|----------|--|------------------|----------|
| check | function | | B crop | |
| checksize | function | | B media | |
| copy | function | | B none | |
| create | function | | B trim | |
| embed | function | | storedata | function |
| embedfromstore | function | | totable | function |
| fetchdata | function | | types | table |
| keys | table | | N jbig2 | |
| print | function | | N jp2 | |
| resetdata | function | | N jpg | |
| resetstore | function | | N none | |
| scan | function | | N pdf | |
| serialize | function | | N png | |
| sizes | table | | N stream | |
| B art | | | wrap | function |
| B bleed | | | | |

interactions (context)

attachments data table

fields table

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

general table

- F getidentity
- F setupidentity

help table

- F collect
- F reference
- F register

javascripts table

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

D functions

D preambles

F setpreamble

F storecode

F storepreamble

F usepreamblenow

F usescripts

linkedslists data table

pages table

- F setpagetransition
- F setupcanvas

references table

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

renderings data table

soundclips data table

interfaces (context)

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

io (basic lua)

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

job (context)

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

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

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

register
save
structure

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

variables

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

version

function
function
table

table

number

language (basic tex)

| | |
|-------------------------|----------|
| clean | function |
| 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 | | nofflattened | 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 define | |
| F injectthyphens | | F handler | |

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

layouts (context)

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

lfs (extra lua)

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

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

libraries (context)

basiclua data table

basictex data table

builtin data table

extralua data table

extratex data table

functions data table

globals data table

lmx (context)

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

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

logs (context)

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

lpdf (context)

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

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

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

lpeg (basic lua)

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

lua (basic tex)

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

luatex (context)

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

lxml (context)

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

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

sorters

| |
|-----------|
| F add |
| F compare |
| F flush |
| F reset |
| F show |
| F sort |

| | |
|-------------------------|------------|
| splitid | function |
| startraw | function |
| startunesescaped | function |
| stopraw | function |
| stopunesescaped | function |
| store | function |
| strip | function |
| stripped | function |
| tag | function |
| text | function |
| tobuffer | function |
| tofile | function |
| toparameters | function |
| toverbatim | function |
| verbatim | function |
| withindex | function |
| xmltexhandler | data table |

table

math (basic lua)

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

mathematics (context)

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

md5 (extra lua)

HEX function
dec function
hex function

sum function
sumHEXA function
sumhexa function

metapost (context)

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

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

| | |
|-------------------------|----------|
| resetplugins | function |
| run | function |
| runscript | function |
| scanparameters | function |
| scripterror | function |
| scriptindex | function |
| setbendtolerance | function |
| setextensions | function |
| setoutercolor | function |
| setparameterset | function |
| settext | function |
| setvariable | function |
| showlog | boolean |
| showsvgpage | function |
| simple | function |
| splitprescript | function |
| startgraphic | function |
| startsvghashing | function |
| stopgraphic | function |
| stopsvghashing | function |
| svformat | function |
| svgcolorremapper | function |
| svgfactors | table |
| N % | |
| 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 numeric | |
| N pair | |
| N path | |
| N pen | |
| N picture | |
| N protodependent | |
| N string | |
| N structured | |
| N suffixedmacro | |
| N tokenlist | |
| N transform | |
| N unknownboolean | |
| N unknownpath | |
| N unknownpen | |
| N unknownpicture | |
| N unknownstring | |
| N unsuffixedmacro | |
| N vacuous | |
| typesvgpage | function |
| unload | function |
| untagvariable | function |
| variables | table |

mime (extra lua)

b64 function

decode function

decodet table

F base64

F quoted-printable

dot function

encode function

encodet table

F base64

F quoted-printable

eol function

normalize function

qp function

qpwrp function

report function

stuff function

unb64 function

unqp function

wrap function

wrapt table

F base64

F default

F quoted-printable

F text

wrp function

mp (context)

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

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

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

mplib (extra tex)

| | | | |
|-------------------------|----------|-------------------------|---------------------|
| execute | function | injecttransform | function |
| expandtex | function | injectwhatever | function |
| finder | function | new | overloaded function |
| finders | table | peninfo | function |
| F file | | propertycodes | table |
| F mpstemplate | | realtime logging | boolean |
| finish | function | scanboolean | function |
| getcallbackstate | function | scancmykcolor | function |
| getcodes | function | scan color | function |
| getfields | function | scanexpression | function |
| gethashentries | function | scaninteger | function |
| gethashentry | function | scannext | function |
| getstates | function | scan number | function |
| getstatistics | function | scan numeric | function |
| getstatus | function | scanpair | function |
| gettolerance | function | scanpath | function |
| gettype | function | scanpen | function |
| gettypes | function | scanproperty | function |
| injectboolean | function | scanstring | function |
| injectcmykcolor | function | scansymbol | function |
| injectcolor | function | scantoken | function |
| injectinteger | function | scantransform | function |
| injectnumber | function | settolerance | function |
| injectnumeric | function | showcontext | function |
| injectpair | function | skiptoken | function |
| injectpath | function | solvepath | function |
| injectstring | function | version | function |

noads (context)

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

node (basic tex)

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

| | |
|---------------------|----------------------|
| F getpre | F isglyph |
| F getprev | F isnextchar |
| F getpropertystable | F isnextglyph |
| F getproperty | F isnode |
| F getreplace | F isprevchar |
| F getscale | F isprevglyph |
| F getscales | F isvalid |
| F getscrip | F iszeroglue |
| F getshift | F kerning |
| F getstate | F length |
| F getsub | F ligaturing |
| F getsubpre | F makeextensible |
| F getsubtype | F migrate |
| F getsup | F mlist_to_hlist |
| F getsuppre | F mlistttohlist |
| F getsynctexfields | F naturalhsize |
| F gettotal | F naturalwidth |
| F getwhd | F new |
| F getwidth | F prependbeforehead |
| F getxscale | F protect_glyph |
| F getxyscales | F protect_glyphs |
| F getyscale | F protectglyph |
| F has_attribute | F protectglyphs |
| F has_field | F protrusionskipable |
| F has_glyph | F rangedimensions |
| F hasattribute | F remove |
| F hasdimensions | F reverse |
| F hasfield | F set_attribute |
| F hasglyph | F set_attributes |
| F hasglyphoption | F setattribute |
| F hpack | F setattributelist |
| F hyphenating | F setattributes |
| F id | F setboth |
| F ignoremathskip | F setbox |
| F insert_after | F setchar |
| F insert_before | F setdata |
| F insertafter | F setdepth |
| F insertbefore | F setdirection |
| F is_char | F setdisc |
| F is_glyph | F setdiscpart |
| F is_node | F setexpansion |
| F is_valid | F setfam |
| F is_zero_glue | F setfield |
| F ischar | F setfont |

| | | |
|-------------------|-------------------------------|-----------------|
| F setglue | F traverse | |
| F setglyphdata | F traverse_char | |
| F setheight | F traverse_content | |
| F setindex | F traverse_glyph | |
| F setkern | F traverse_id | |
| F setlanguage | F traverse_list | |
| F setleader | F traversechar | |
| F setlink | F traversecontent | |
| F setlist | F traverseglyph | |
| F setnext | F traverseid | |
| F setnucleus | F traverselist | |
| F setoffsets | F type | |
| F setoptions | F types | |
| F setorientation | F unprotect_glyph | |
| F setpenalty | F unprotect_glyphs | |
| F setpost | F unprotectglyph | |
| F setpre | F unprotectglyphs | |
| F setprev | F unset_attribute | |
| F setproperty | F unset_attributes | |
| F setreplace | F unsetattribute | |
| F setscales | F unsetattributes | |
| F setscript | F usedlist | |
| F setshift | F uses_font | |
| F setsplit | F usesfont | |
| F setstate | F values | |
| F setsub | F verticalbreak | |
| F setsubpre | F vpack | |
| F setsubtype | F write | |
| F setup | F xscaled | |
| F setsuppre | F yscaled | |
| F setsyncexfields | effective_glue | function |
| F settotal | effectiveglue | function |
| F setwhd | end_of_math | function |
| F setwidth | endofmath | function |
| F show | family_font | function |
| F slide | fields | function |
| F start_of_par | findattribute | function |
| F startofpar | first_glyph | function |
| F subtypes | firstglyph | function |
| F tail | flattendiscretionaries | function |
| F todirect | flush_list | function |
| F tonode | flush_node | function |
| F toString | flushlist | function |
| F tovaliddirect | flushnode | function |

| | | | |
|--------------------------|----------|-----------------------------|----------|
| free | function | new | function |
| get_attribute | function | protect_glyph | function |
| getattribute | function | protect_glyphs | function |
| getfield | function | protectglyph | function |
| getglue | function | protectglyphs | function |
| getpropertystable | function | protrusionskipppable | function |
| getproperty | function | rangedimensions | function |
| has_attribute | function | remove | function |
| has_field | function | set_attribute | function |
| has_glyph | function | setattribute | function |
| hasattribute | function | setfield | function |
| hasfield | function | setglue | function |
| hasglyph | function | setproperty | function |
| hpack | function | show | function |
| hyphenating | function | slide | function |
| id | function | subtypes | function |
| insert_after | function | tail | function |
| insert_before | function | tostring | function |
| insertafter | function | traverse | function |
| insertbefore | function | traverse_id | function |
| instock | function | traverseid | function |
| inuse | function | type | function |
| is_node | function | types | function |
| is_zero_glue | function | unprotect_glyph | function |
| isnode | function | unprotect_glyphs | function |
| iszeroglue | function | unprotectglyph | function |
| kerning | function | unprotectglyphs | function |
| last_node | function | unset_attribute | function |
| lastnode | function | unsetattribute | function |
| length | function | usedlist | function |
| ligaturing | function | usesfont | function |
| makeextensible | function | values | function |
| mlist_to_hlist | function | vpack | function |
| mlisttohlist | function | write | function |

nodes (context)

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

F migrate
 F protectglyphs
 F show
 F showwhyphenation
 F stripping
 F textbackgrounds
 F unprotectglyphs
 F visualizehyphenation
 F wipe

has_attribute function
has_field function
hasattribute function
hasfield function
hpack function
idsandsubtypes function
idstostring function
injections table

F copy
 F getligaindex
 F getthreshold
 F handler
 F installgetspaceboth
 F installnewkern
 F isspace
 F keepcounts
 F reset
 F resetcounts
 F setcursive
 F setkern
 F setligaindex
 F setmark
 F setmove
 F setposition
 F setspacekerns

insert_after function
insert_before function
insertafter function
insertbefore function
insertlistafter function
installattributehandler function
is_display_math function
is_node function
isnode function
kerncodes data table

leftmarginwidth
linefillers

D data
 F define
 F enable
 F filler
 F handler

lines

T boxed
 F addlinenumbers
 F register
 F setup
 D data
 F finalize
 F number

link function

linked function

list function

listcodes data table

listtoutf function

literalvalues data table

locate function

markers table

F get

mathcodes data table

mathvalues data table

maxboxwidth function

migrations table

F setinserts

F setmarks

new function

noadcodes data table

noadoptoptions table

N axis

N exact

N left

N middle

N no_axis

N right

N set

N unused_1

N unused_2

nodecodes data table

nopts function

F findnode
 F first_glyph
 F firstcharacter
 F firstcharinbox
 F firstglyph
 F flattendiscretionaries
 F flush
 F flush_list
 F flush_node
 F flushlist
 F flushnode
 F free
 F fullhpack
 F get_attribute
 F get_synctex_fields
 F getattr
 F getattribute
 F getattributelist
 F getattributes
 F getattrlist
 F getattrstrs
 F getboth
 F getbox
 F getboxglue
 F getchar
 F getcharspec
 F getcomponents
 F getdata
 F getdepth
 F getdirection
 F getdisc
 F getdiscpart
 F getdiscretionary
 F getexpansion
 F getfam
 F getfield
 F getfont
 F getglue
 F getglyphdata
 F getglyphdimensions
 F getheight
 F getid
 F getindex
 F getkern

F addmargins
 F addxoffset
 F addxymargins
 F addyoffset
 F append
 F appendaftertail
 F apply
 F applyvisuals
 F checkdiscretionaries
 F collapsing
 T colors
 F set
 T components
 F copynocomponents
 F copyonlyglyphs
 F count
 F flush
 F get
 F set
 F concat
 F copy
 F copy_list
 F copy_node
 F copy_only
 F copy_properties
 F copyleft
 F copynode
 F copyonly
 F copyvisual
 F count
 F countall
 F current_attr
 F currentattributes
 F delete
 F dimensions
 F dirdimensions
 F effective_glue
 F effectiveglue
 F end_of_math
 F endofmath
 F exchange
 F find_attribute
 F findattribute

F getkerndimension
F getlang
F getlanguage
F getleader
F getlist
F getnext
F getnormalizedline
F getnucleus
F getoffsets
F getoptions
F getorientation
F getpenalty
F getpost
F getpre
F getprev
F getprop
F getreplace
F getruledata
F getscale
F getscales
F getscrip
F getshift
F getstate
F getsub
F getsubpre
F getsubtype
F getsup
F getsuppre
F getsurround
F getsyntexfields
F gettotal
F getvalue
F getwhd
F getwidth
F getxscale
F getxyscales
F getyscale
F has_attribute
F has_dimensions
F has_field
F has_glyph
F hasattribute
F hasdimensions
F hasfield

F hasglyph
F hasglyphoption
F hpack
F hyphenating
F ignoremathskip
F insert_after
F insert_before
F insertafter
F insertbefore
F insertlistafter
F is_display_math
F is_node
F is_zero_glue
F ischar
F isdone
F isglyph
F isnextchar
F isnextglyph
F isnode
F isprevchar
F isprevglyph
F iszeroglue
F kerning
F length
F ligaturing
F link
F linked
F locate
F migrate
F mlist_to_hlist
F mlisttohlist
F naturalhsize
F naturalwidth
F nestedtracedslide
F new
T pool
F accent
F baselineskip
F boundary
F choice
F cleanup
F delim
F delimiter
F direction

| | |
|-------------------|----------------------|
| F directliteral | F subbox |
| F disc | F sublist |
| F emptyrule | F temp |
| F fence | F usage |
| F fontkern | F userdefined |
| F fraction | T userids |
| F glue | F usernode |
| F gluespec | F userrule |
| F glyph | F vlist |
| F hlist | F wordboundary |
| F indentskip | F prepend |
| F italicckern | F prependbeforehead |
| F kern | F processranges |
| F latelua | F processwords |
| F leader | F protect_glyph |
| F lefthangskip | F protect_glyphs |
| F leftmarginkern | F protectglyph |
| F leftskip | F protectglyphs |
| F lineskip | F protrusionskipable |
| F literal | F rangedimensions |
| F mathchar | F rawprop |
| F mathtextchar | F reference |
| F negatedglue | F rehpac |
| F noad | F remove |
| F originliteral | F repackhlist |
| F outlinerule | F replace |
| F pageliteral | F reverse |
| F penalty | T rules |
| F radical | T ruleactions |
| F rawliteral | F box |
| F register | F draw |
| F restore | F fill |
| F righthangskip | F mp |
| F rightmarginkern | F stroke |
| F rightskip | F userrule |
| F rule | F set_attribute |
| F save | F setattr |
| F savepos | F setattribute |
| F setmatrix | F setattributelist |
| F setstate | F setattrrlist |
| F shrink | F setattrrs |
| F startrotation | F setboth |
| F stock | F setbox |
| F stretch | F setboxglue |

| | |
|--------------------|---------------------|
| F setchar | F setsuppre |
| F setcomponents | F setsurround |
| F setdata | F setsyntexfields |
| F setdepth | F setvalue |
| F setdirection | F setvisual |
| F setdisc | F setvisuals |
| F setdiscpart | F setwhd |
| F setdiscretionary | F setwidth |
| F setexpansion | F show |
| F setfam | F slide |
| F setfield | F somepenalty |
| F setfont | F somespace |
| F setglue | F splitbox |
| F setglyphdata | F start_of_par |
| F setheight | F startofpar |
| F setkern | F striprange |
| F setlang | F tail |
| F setlanguage | F takeattr |
| F setleader | F takebox |
| F setlink | F takelist |
| F setlist | F theprop |
| F setnext | F tonode |
| F setnucleus | F tonodes |
| F setoffsets | F tonut |
| F setoptions | F tosequence |
| F setorientation | F toString |
| F setparproperty | F tracedslide |
| F setpenalty | F traverse |
| F setpost | F traverse_char |
| F setpre | F traverse_glyph |
| F setprev | F traverse_id |
| F setprop | F traverse_list |
| F setreplace | F traversesechar |
| F setruledata | F traversesecontent |
| F setscale | F traverseseglyph |
| F setscales | F traverseid |
| F setscript | F traverselist |
| F setshift | T traversers |
| 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 glyph | | D registered | |
| F hlist | | D values | |
| F list | | F processor | |
| F next | | points | function |
| F node | | pool | table |
| F vlist | | F baselineskip | |
| F whatsit | | F cleanup | |
| T typesetters | | F directliteral | |
| F tohbox | | F glyph | |
| F tohpack | | F hlist | |
| F tonodes | | F latelua | |
| F tovbox | | F lineskip | |
| F tovpack | | F literal | |
| F unprotect_glyph | | F originliteral | |
| F unprotect_glyphs | | F register | |
| F unprotectglyph | | F restore | |
| F unprotectglyphs | | F rule | |
| F unset_attribute | | F save | |
| F unsetattribute | | F savepos | |
| F unsetattributes | | F setmatrix | |
| F untracedslide | | F stock | |
| F usedlist | | F usage | |
| F uses_font | | F usernode | |
| F usesfont | | F vlist | |
| F verticalbreak | | prepend | function |
| F vianodes | | print | function |
| F vianuts | | processors | table |
| F vpack | | F contribute_filter | |
| F write | | F glyph_run | |
| F xscaled | | F post_linebreak_filter | |
| F yscaled | | F pre_linebreak_filter | |
| packlist | function | F trace_glyph_run_a | |
| parcodes | data table | F trace_glyph_run_b | |
| penaltycodes | data table | properties | table |
| plugindata | table | T data | |
| F finalizer | | pts | function |
| F initializer | | radicalcodes | data table |
| S name | | references | table |
| T namespace | | N attribute | |
| N attribute | | T done | |
| D data | | F handler | |
| F enable | | T stack | |
| F handler | | rehpack | function |
| F register | | remove | function |

| | | | |
|--------------------------|------------|-----------------------------|------------|
| repackhlist | function | specialskipcodes | table |
| replace | function | splitbox | function |
| report | function | startofpar | function |
| rightmarginwidth | function | stripdiscretionaries | function |
| rulecodes | data table | stripping | table |
| rules | table | T glyphs | |
| D data | | F set | |
| F define | | subtypes | data table |
| F enable | | tail | function |
| F handler | | takeattr | function |
| F process | | takebox | function |
| F userrule | | tasks | table |
| serialize | function | F actions | |
| serializebox | function | F appendaction | |
| set_attribute | function | F disableaction | |
| setattr | function | F disablegroup | |
| setattribute | function | F enableaction | |
| setboth | function | F enablegroup | |
| setbox | function | F freeze | |
| setboxtonaturalwd | function | F freezegroup | |
| setchar | function | F new | |
| setfield | function | F prependaction | |
| setfont | function | F removeaction | |
| setleader | function | F replaceaction | |
| setlink | function | F restart | |
| setlist | function | F setaction | |
| setnext | function | F showactions | |
| setprev | function | F table | |
| setproperty | function | tobasepoints | function |
| shifts | table | tocentimeters | function |
| D data | | tociceros | function |
| F define | | todidots | function |
| F enable | | todimen | function |
| F handler | | toinches | function |
| showboxes | function | tomillimeters | function |
| showlist | function | tonode | function |
| showsimplelist | function | tonodes | function |
| skipcodes | data table | tonut | function |
| snapshots | table | topicas | function |
| F getsamples | | topoints | function |
| F resetsamples | | toscaledpoints | function |
| F takesample | | tosequence | function |
| somepenalty | function | tostring | function |
| somespace | function | totable | function |

| | | | |
|-------------------|----------|------------------------|------------|
| totree | function | F reset | |
| toutf | function | F set | |
| tracers | table | F setlist | |
| T colors | | traverse | function |
| F reset | | traverse_id | function |
| F set | | traverseid | function |
| F setlist | | typesetters | table |
| F directions | | F hbox | |
| F fontchar | | F hpack | |
| T frequencies | | F tohbox | |
| F register | | F tohpack | |
| T pool | | F tonodes | |
| T nodes | | F tovbox | |
| F rule | | F tovpack | |
| T nuts | | F vpack | |
| F rule | | unset_attribute | function |
| F resetproperties | | unsetattribute | function |
| F rule | | usedlist | function |
| F setlist | | vianodes | function |
| F setproperties | | vianuts | function |
| F start | | visualizebox | function |
| T steppers | | visualizers | table |
| F check | | F attribute | |
| F codes | | T attributes | |
| F features | | F box | |
| F font | | F handler | |
| F glyphs | | F markfonts | |
| F message | | F register | |
| F messages | | F setfont | |
| F nofsteps | | F setlayer | |
| F register | | F setruledglyph | |
| F reset | | F setvisual | |
| F start | | vpack | function |
| F stop | | whatsitcodes | data table |
| F stop | | write | function |
| T transparencies | | | |

number (context)

| | |
|-----------------------|------------|
| | function |
| basepoints | function |
| bytetodecimal | function |
| compactfloat | function |
| decimaltobyte | function |
| dimenfactors | data table |
| formatted | function |
| formattedfloat | function |
| idiv | function |
| maxdimen | number |
| nopts | function |
| nubasepoints | function |
| nupoints | function |
| percent | function |
| points | function |
| pts | function |
| signed | function |
| sparseexponent | function |
| splitdimen | function |

| | |
|-----------------------|----------|
| tol6dot16 | function |
| tobasepoints | function |
| tobitstring | function |
| tocentimeters | function |
| tociceros | function |
| tocontext | function |
| todidots | function |
| todimen | function |
| toevenhex | function |
| toinches | function |
| tomillimeters | function |
| tonumberf | function |
| tonumberg | function |
| topicsas | function |
| topoints | function |
| toscaled | function |
| toscaledpoints | 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

kpse table

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

loaded table

lz4 table

F compress
F decompresssize

F framecompress
F framedecompress
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

postgress table

F close
F execute
F getmessage
F initialize
F open

sqlite table

F close
F execute
F getmessage
F initialize
F open

zint table

F execute
F initialize

zstd table

F compress

F decompress

F initialize

os (basic lua)

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

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

package (basic lua)

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

pagebuilders (context)

columnsets table

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

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

injections table

- F flushafter
- F flushbefore
- F save

mixedcolumns table

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

pdf (basic tex)

`immediateobj` function

pdfe (extra tex)

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

physics (context)

units table

F registerunit

D tables

pngdecode (extra tex)

applyfilter function

expand function

interlace function

splitmask function

tocmyk function

tomask function

publications (context)

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

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

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

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

regimes (context)

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

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

resolvers (context)

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

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

sandbox (context)

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

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

scripts (context)

autofontfeature table

F disable
F enable
F handler

colors data table

decomposehangul function

defaults table

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

getdata function

getinjector function

getsplitter function

getstatus function

handlers data table

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 |

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

socket (extra lua)

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

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

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

sorters (context)

| | | | |
|---------------------|----------|------------------------|------------|
| basicsorter | function | | 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 (context)

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

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

statistics (context)

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

status (basic tex)

| | | | |
|------------------------------|----------|--------------------------|----------|
| getbufferstate | function | getmarkstate | function |
| getcallbackstate | function | getneststate | function |
| getconstants | function | getnodestate | function |
| geterrorlinestate | function | getparameterstate | function |
| geterrorstate | function | getpoolstate | function |
| getexpandstate | function | getreadstate | function |
| getextrastate | function | getsavestate | function |
| getfilestate | function | getsparsestate | function |
| getfontstate | function | getstringstate | function |
| gethalferrorlinestate | function | gettexstate | function |
| gethashstate | function | gettokenstate | function |
| getinputstate | function | getwarningstate | function |
| getinsertstate | function | iocodes | table |
| getlanguagestate | function | list | function |
| getlookupstate | function | resetmessages | function |
| getluastate | function | | |

storage (context)

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

streams (context)

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

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

string (basic lua)

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

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

structures (context)

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

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

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

pages table

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

references table

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

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

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

registers

- F analyze

table

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

sections

- 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

table

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

sets table

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

specials table

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

synonyms table

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

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

tags table

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

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

table (basic lua)

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

tex (basic tex)

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

| | | | |
|--------------------------------|---------------------|------------------------|---------------------|
| getmathoptionvalues | function | isprintable | function |
| getmathparametervalue s | function | isskip | overloaded function |
| getmathstylenamevalue s | function | istoken | function |
| getmathstylevalue s | function | istoks | function |
| getmathvariantvalue s | function | lastnodetype | function |
| getmodevalue s | function | lccode | table |
| getmuglue | function | linebreak | function |
| getmuskip | function | lists | table |
| getnest | function | luacatcodes | number |
| getnormalizevalue s | function | magicconstants | table |
| getoutputactive | function | N maxdimen | |
| getpacktypevalue s | function | N running | |
| getpagestate | function | N trueinch | |
| getparbeginvalue s | function | mathchardef | function |
| getparcontextvalue s | function | mathcode | table |
| getpardir | function | mathoptioncodes | data table |
| getparmodevalue s | function | modelevels | table |
| getprimitiveorigins | function | N horizontal | |
| getregisterindex | function | N math | |
| getrunstatevalue s | function | N unset | |
| getsfcode | function | N vertical | |
| getskip | function | modes | data table |
| getsyntexline | function | mprint | function |
| getsyntexmode | function | muglue | table |
| getsyntextag | function | muskip | table |
| gettextdir | function | nest | table |
| gettoks | function | nilcatcodes | number |
| getuccode | function | normalizecodes | data table |
| glue | table | notcatcodes | number |
| glyphoptioncodes | data table | number | function |
| groupcodes | data table | poplocal | function |
| hashtokens | function | primitives | function |
| hyphenationcodes | data table | print | function |
| ifs | data table | prtcacodes | number |
| inicatcodes | number | pushlocal | function |
| integerdef | function | quitlocal | function |
| isattribute | function | quittoks | function |
| isbox | function | resetparagraph | function |
| iscount | overloaded function | rlncatcodes | number |
| isdefined | function | romannumeral | function |
| isdimen | overloaded function | round | function |
| isglue | function | runlocal | function |
| ismuglue | function | runtoks | function |
| ismuskip | overloaded function | saveboxresource | function |

| | | | |
|----------------------------|---------------------|-------------------------|------------|
| scale | function | setskip | function |
| scantoks | function | setsynctexline | function |
| set | function | setsynctexmode | function |
| setattribute | function | setsynctextag | function |
| setbox | function | settexmdir | function |
| setboxdir | function | settoks | function |
| setcatcode | function | setuccode | function |
| setcount | function | sfcode | table |
| setdelcode | function | shiftparshape | function |
| setdimen | function | shipout | function |
| setdimensionvalue | function | showcontext | function |
| setglue | function | skip | table |
| setglyphdata | function | sp | function |
| setglyphscript | function | splitbox | function |
| setglyphstate | function | sprint | function |
| setinsertcontent | function | systemmodes | data table |
| setinsertdistance | function | takebox | function |
| setinsertlimit | function | texcatcodes | number |
| setinsertmultiplier | function | toks | table |
| setintegervalue | function | tonumber | function |
| setinteraction | function | toscaled | function |
| setlccode | function | tpacatcodes | number |
| setlinedir | function | tpbcatcodes | number |
| setlist | function | tprint | function |
| setmath | function | trackers | data table |
| setmathcode | function | triggerbuildpage | function |
| setmathdir | function | txtcatcodes | number |
| setmuglue | function | type | function |
| setmuskip | function | uccode | table |
| setnest | function | uprint | function |
| setpardir | function | useboxresource | function |
| setrunstate | overloaded function | vrbcacodes | number |
| setsfcode | 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

terminal

function

write

function

write_nl

function

writeln

function

writeselector

function

writeselectorlf

function

writeselectornl

function

token (basic tex)

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

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

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

tokens (context)

accessors table

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

astable function

bits table

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

cache table

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

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

commands data table

compile function

constant function

converters table

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

create function

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

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

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

shortcuts table

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

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

| | |
|-------------------|---------------------|
| F delimited | F verbatim |
| F dimen | F vtop |
| F dimenargument | F whd |
| F dimension | F word |
| F float | F scannumber |
| F glue | F scanopen |
| F gluespec | F scanoptional |
| F gluevalues | F scanstring |
| F hash | F scantable |
| F hbox | F scantokenlist |
| F integer | F scantoks |
| F integerargument | F scanvbox |
| F ischar | F scanverbatim |
| F key | F scanvtop |
| F keyword | F scanword |
| F keywordcs | F toboolean |
| F letters | F todimen |
| F list | T tokens |
| F luacardinal | T accessors |
| F luainteger | F active |
| F luanumber | F cmd |
| F lxmlid | F cmdchrsc |
| F next | F cmdname |
| F nextchar | F command |
| F nextexpanded | F csname |
| F number | F expandable |
| F optional | F frozen |
| F peek | F index |
| F peekchar | F name |
| F peekexpanded | F protected |
| F real | F range |
| F scanclose | F astable |
| F scanopen | T cache |
| F skip | U NC |
| F skipexpanded | U NR |
| F string | U bf |
| F table | U buff_finish |
| F token | U c_font_compact |
| F tokencode | U color |
| F tokenlist | U colordefalc |
| F tokens | U colordefflc |
| F toks | U colordefflt |
| F value | U colordefrlt |
| F vbox | U dofinishreference |

| | |
|---------------------------|---------------------|
| U dostarttext | F macro |
| U finishjob | F meaning |
| U firstofoneargument | F skip |
| U firstoftwoarguments | F token |
| U gobbleoneargument | F gobble |
| U goto | F isdefined |
| U iftrue | F istoken |
| U input | F new |
| U loadfoundtypescriptfile | F pickup |
| U resetctxscanner | F popmacro |
| U rlap | T presets |
| U secondoftwoarguments | F pushmacro |
| U setfalsevalue | F setinteger |
| U setsectionblock | T setters |
| U setupsystem | F box |
| U startcolumns | F char |
| U starttabulate | F count |
| U starttitle | F dimen |
| U startxtitle | F glue |
| U stopcolumns | F lua |
| U stoptabulate | F macro |
| U stoptitle | F skip |
| U stopxtitle | T shortcuts |
| U texsetup | N close |
| U xmlw | F inspect |
| D commands | N open |
| F compile | F report |
| F constant | F scanargument |
| T converters | F scanargumentasis |
| S toboolean | F scanarray |
| S todimen | F scanboolean |
| S toglue | F scanbox |
| S tonumber | F scanbracketed |
| S tostring | F scanbracketedasis |
| F create | F scancardinal |
| F defined | F scanclose |
| F flags | F scancode |
| F getinteger | F scanconditional |
| T getters | F scanscname |
| F box | F scandelimited |
| F count | F scandimen |
| F cstoken | F scandimenargument |
| F dimen | F scandimension |
| F glue | F scanglue |

F scangluespec
F scangluevalues
F scanhash
F scanhbox
F scaninteger
F scanintegerargument
F scankeyword
F scankeywordcs
F scanletters
F scanlist
F scannumber
F scanopen
F scanoptional
F scanstring
F scantable

F scantokenlist

F scantoks

F scanvbox

F scanverbatim

F scanvtop

F scanword

F toboolean

F todimen

F tonumber

F tostring

D values

F tonumber

F tostring

values data table

tracers (context)

printerror function
printwarning function

showlines function

trackers (context)

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

typesetters (context)

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

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

updaters (context)

apply function
register function

url (context)

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

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

utf8 (basic lua)

char function
charpattern string
codepoint function

codes function
len function
offset function

utilities (context)

debugger table

F disable
F enable
F savestats
F showstats
F showtraceback

files table

F close
F getposition
F getsize
F look
F open
F read2dot14
F readbyte
F readbytes
F readbytetable
F readcardinal
F readcardinal1
F readcardinal1le
F readcardinal2
F readcardinal2le
F readcardinal3
F readcardinal3le
F readcardinal4
F readcardinal4le
F readcardinaltable
F readchar
F readfixed2
F readfixed4
F readinteger
F readinteger1
F readinteger1le
F readinteger2
F readinteger2le
F readinteger3
F readinteger3le
F readinteger4
F readinteger4le
F readintegertable
F readsignedbyte
F readstring

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

formatters table

F formatcolumns
F list
F stripzeros

ghostscript table

F convert
F statistics

graphicmagick table

F convert
F statistics

graphicsmagick table

F convert
F statistics

lua table

B alwaysstripcode
F checkmemory

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

packers table

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

parsers table

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

- B text
- F iterator
- F keq_to_hash
- F listitem
- F make_settings_to_hash_pattern
- F mergehashes
- F options_to_array
- F options_to_hash
- T patterns
 - U settings_to_array
 - U settings_to_hash_a
 - U settings_to_hash_b
 - U settings_to_hash_c
 - U settings_to_hash_d
 - U unittotex
- F process_stripped_settings
- F rfc4180splitter
- F runtime
- F settings_to_array
- F settings_to_array_obey_fences
- F settings_to_array_with_repeat
- F settings_to_hash
- F settings_to_hash_colon_too
- F settings_to_hash_strict
- F settings_to_hash_tolerant
- F settings_to_numbers
- F settings_to_set
- F simple_hash_to_string
- F splitmethod
- F splitthousands
- F stepper
- F stripped_settings_to_array
- F totime
- F unittotex
- F unittotxml

randomizer table

- F get
- F getnumber
- F getseed
- F popseed
- F pushseed
- F reuseseed
- F setseed
- F setseedi

randomizers table

F poisson

sequencers table

F appendaction

F appendgroup

F compile

F disableaction

F disablegroup

F enableaction

F enablegroup

D functions

F localize

F new

F nodeprocessor

F prependaction

F prependgroup

F removeaction

F replaceaction

F setkind

F toString

setters table

F disable

F enable

F initialize

F list

F new

F register

F report

F reset

F show

stacker table

F new

storage table

F allocate

F checked

F mark

F marked

F setinitializer

F sparse

streams table

F close

F getposition

F getsize

F getstring

F look

F open

F openstring

F read2dot14

F readbyte

F readbytes

F readbytetable

F readcardinal

F readcardinal1

F readcardinal1le

F readcardinal2

F readcardinal2le

F readcardinal3

F readcardinal3le

F readcardinal4

F readcardinal4le

F readcardinaltable

F readchar

F readfixed2

F readfixed4

F readinteger

F readinteger1

F readinteger1le

F readinteger2

F readinteger2le

F readinteger3

F readinteger3le

F readinteger4

F readinteger4le

F readintegertable

F readsignedbyte

F readstring

F setposition

F size

F skip

F skipbytes

F skiplong

F skipshort

strings table

F collapse

F collapsecrlf

T formatters

F add

F new

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

tables table

- F accesstable
- F definedtable
- F definetable
- F encapsulate

- F insertaftervalue
- F insertbeforevalue
- F migratetable
- F removevalue
- F replacevalue

templates table

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

zipfiles table

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

visualizers (context)

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

xcomplex (extra lua)

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

| | | | |
|-------------------|----------|-----------------|----------|
| __pow | function | i | function |
| __sub | function | imag | function |
| __tostring | function | log | function |
| __unm | function | new | function |
| abs | function | pow | function |
| acos | function | proj | function |
| acosh | function | real | function |
| arg | function | sin | function |
| asin | function | sinh | function |
| asinh | function | sqrt | function |
| atan | function | tan | function |
| atanh | function | tanh | function |
| conj | function | topair | function |
| cos | function | tostring | function |
| cosh | function | totable | function |
| exp | function | | |

xdecimal (extra lua)

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

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

xmath (extra lua)

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

xml (context)

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

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

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

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

xzip (extra lua)

adler32 function

compress function

compresssize function

crc32 function

decompress function

decompresssize function

zip (extra lua)

archives

table

closearchive

function

openarchive

function

registeredfiles

table

zlib (extra lua)

adler32 function

compress function

compresssize function

crc32 function

decompress function

decompresssize function