

1 attributes backends bibtex blobs
boolean buffers builders caches **callback**
callbacks catcodes characters chemistry
commands containers context converters
coroutine ctxrunner **debug** dir directives
document documentdata environment **epdf**
experiments figures **file** floats **font**
fontloader fonts global graphics **gzip**
img interactions interfaces **io** job **lang**
languages layouts **lfs** libraries lmx logs
lpdf **lpeg** **ltn12** **lua** luatex lxml **math**
mathematics **md5** metapost **mime** moduledata
modules **mplib** noads **node** nodes number **os**
package pagebuilders parametersets **pdf**
physics **profiler** regimes resolvers
scripts set **socket** sorters statistics
status storage streams **string** structures
table **tex** **texconfig** **texio** **token** tokens
tracers trackers typesetters **unicode** url
utilities visualizers xml **zip** **zlib**

ConT_EXt MkIV

global (alias: _G)

| | | | |
|-----------------------|----------|------------------------|----------|
| 1 | table | fonts | table |
| arg | table | gcinfo | function |
| assert | function | getfenv | function |
| attributes | table | getmetatable | function |
| backends | table | getreadfilename | function |
| beginpage | function | global | table |
| bibtex | table | graphics | table |
| blobs | table | gzip | table |
| boolean | table | img | table |
| buffers | table | inspect | function |
| builders | table | interactions | table |
| caches | table | interfaces | table |
| callback | table | io | table |
| callbacks | table | ipairs | function |
| catcodes | table | job | table |
| characters | table | lang | table |
| chemistry | table | languages | table |
| collectgarbage | function | layouts | table |
| commands | table | lfs | table |
| containers | table | libraries | table |
| context | function | lmx | table |
| converters | table | lmxconvert | function |
| coroutine | table | lmxnew | function |
| ctxrunner | table | load | function |
| debug | table | loadfile | function |
| dimen | function | loadstring | function |
| dir | table | logs | table |
| directives | table | lp_fastpos_n | userdata |
| document | table | lp_fastpos_p | userdata |
| documentdata | table | lpdf | table |
| dofile | function | lpeg | table |
| endpage | function | ltn12 | table |
| environment | table | lua | table |
| epdf | table | luatex | table |
| error | function | lxml | table |
| experiments | table | math | table |
| figures | table | mathematics | table |
| file | table | md5 | table |
| floats | table | metapost | table |
| font | table | mime | table |
| fontloader | table | module | function |

| | | | |
|--------------------------|----------|-------------------------|----------|
| moduledata | table | sorters | table |
| modules | table | statistics | table |
| mplib | table | status | table |
| newline | function | storage | table |
| newproxy | function | streams | table |
| next | function | string | table |
| noads | table | stripmath | function |
| node | table | structures | table |
| nodes | table | table | table |
| number | table | tex | table |
| os | table | texconfig | table |
| outputpagestree | function | texio | table |
| package | table | toboolean | function |
| pagebuilders | table | token | table |
| pairs | function | tokens | table |
| parametersets | table | tonumber | function |
| pcall | function | tostring | function |
| pdf | table | trace_characters | boolean |
| physics | table | traceback | function |
| print | function | tracers | table |
| profiler | table | trackers | table |
| protect | function | type | function |
| rawequal | function | typesetters | table |
| rawget | function | unicode | table |
| rawset | function | unpack | function |
| regimes | table | url | table |
| report_characters | function | utf | table |
| require | function | utilities | table |
| resolvers | table | visualizers | table |
| scripts | table | xml | table |
| select | function | xmlconvert | function |
| set | table | xpcall | function |
| setfenv | function | zip | table |
| setmetatable | function | zlib | table |
| socket | table | | |

attributes (context)

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
- B couple
- D data
- N default
- F defineintermediatecolor
- F definemixcolor
- F definemultitonecolor
- F defineprocesscolor
- F definesimplegray
- F definespotcolor
- F definetransparency
- F enable
- F filter
- F forcedmodel
- F forcesupport
- F formatcolor
- F formatgray
- F gray
- F graytohsv
- F handler
- F hsvtorgb
- F iccprofile
- F isblack
- N main
- S model
- D models
- F mpcolor
- F mpoptions

- U none
- F popset
- F pushset
- F register
- D registered
- F registerspotcolor
- F rgb
- F rgbtocmyk
- F rgbtorgay
- F rgbtohsv
- N selector
- F setlist
- F setmodel
- D sets
- F spec
- F spot
- F spotcolorname
- F spotcolorparent
- F spotcolorvalue
- B supported
- F transparencycomponents
- B triggering
- F usecolors
- F value
- D values
- B weightgray

define function

effects table

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

handlers table

list data table

names data table

negatives table

- N attribute
- D data

| | | | |
|-----------------------|------------|---------------------|--------|
| F enable | | B supported | |
| F handler | | B triggering | |
| F register | | F value | |
| D registered | | D values | |
| numbers | data table | unsetvalue | number |
| ofnode | function | viewerlayers | table |
| private | function | N attribute | |
| showcurrent | function | D data | |
| states | table | F define | |
| F disabletriggering | | F enable | |
| F enabletriggering | | F forcesupport | |
| F finalize | | F handler | |
| F initialize | | B hasorder | |
| F process | | D listwise | |
| F selective | | F register | |
| F stacked | | D registered | |
| F stacker | | F resolve_begin | |
| transparencies | table | F resolve_end | |
| N attribute | | F resolve_step | |
| D data | | D scopes | |
| F enable | | F setfeatures | |
| F forcesupport | | F start | |
| F handler | | F stop | |
| U none | | B supported | |
| F register | | D values | |
| D registered | | | |

backends (context)

codeinjections table

F synchronizecolormodel

current string

defaults table

T codeinjections

T nodeinjections

T registrations

D tables

install function

nodeinjections table

F restore

F save

F transform

nothing function

pdf table

T codeinjections

F addbookmarks

F attachmentid

F clonefield

F definefield

F definefieldset

F defineviewerlayer

F embedfile

F enabletags

F exportformdata

F finalizepage

F finishreference

F getdefaultfieldvalue

F getfieldcategory

F getfieldset

F getformatoption

F getoutputfilename

F getpreviewfigure

F insertrenderingwindow

F mergereferences

F mergeviewerlayers

F prerollreference

F presetsymbol

F presetsymbollist

F processrendering

F registerdocumentcloseaction

F registerdocumentopenaction

F registeredsymbol

F registerpagecloseaction

F registerpageopenaction

F registersymbol

F setfieldcalculationset

F setfigurealternative

F setfigurecolorspace

F setfiguremask

F setformat

F setformsmethod

F setpagetransition

F setupcanvas

F setupidentity

F setxmpfile

F startlayer

F stoplayer

F supportedformats

F useviewerlayer

F validfield

F validfieldcategory

F validfieldset

S comment

T nodeinjections

F addtags

F attachfile

F changestackedlayer

F cmykcolor

F comment

F destination

F effect

F graycolor

F injectbitmap

F insertmovie

F insertsound

F insertswf

F insertu3d

F knockout

F negative

F overprint

F positive

| | |
|---------------------|----------------------------|
| F reference | F getspotcolorreference |
| F rgbcolor | F grayindexcolor |
| F spotcolor | F grayspotcolor |
| F startlayer | F rgbindexcolor |
| F startstackedlayer | F rgbspotcolor |
| F stoplayer | F spotcolorname |
| F stopstackedlayer | F transparency |
| F transparency | T tables |
| F typesetfield | D vfspecials |
| T registrations | registrations table |
| F cmykindexcolor | tables table |
| F cmykspotcolor | |

bibtex (context)

| | | | |
|-----------------------|----------|-------------------------|----------|
| authorref | function | F flush | |
| authors | table | F nofregistered | |
| F concat | | F process | |
| F inverted | | F register | |
| F invertedshort | | F registerplaced | |
| F normal | | F reset | |
| F normalshort | | F resolve | |
| F setsettings | | load | function |
| F short | | new | function |
| authoryearref | function | singularorplural | function |
| authoryearsref | function | statistics | table |
| convert | function | N nofbytes | |
| hacks | table | N nofdefinitions | |
| F add | | N nofshortcuts | |
| F doifalreadypaced | | toxml | function |
| F filterall | | | |

blobs (context)

append function
dimensions function
dispose function

new function
pack 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 |
| getcontent | function | F | save |
| getlines | function | raw | function |
| parallel | table | | |

builders (context)

kernel table

- F hyphenation
- F kerning
- F ligaturing
- F mlist_to_hlist

paragraphs table

- T constructors
 - N attribute
 - F define
 - F disable
 - F enable
 - F handler
- T methods
 - F default
 - F oneline
- D names
- D numbers
- F set
- F start
- F stop
- F keeptogether
- F registertogether
- T solutions
 - T splitters
 - F define

- F optimize
- T registered
- F reset
- F set
- F split
- F start
- F stop

F tag

vspacing table

- F analyze
- D categories
- F collapsevbox
- T data
- D map
- D skip
- D snapmethods
- F definesnapmethod
- B fixed
- F pagehandler
- F setmap
- F setskip
- F snapbox
- F tocategories
- F tocategory
- F vboxhandler

caches (context)

| | | | |
|-----------------------------|----------|-----------------------------|----------|
| ask | boolean | is_writable | function |
| base | string | loadcontent | function |
| collapsecontent | function | loaddata | function |
| configfiles | function | more | string |
| contentstate | function | relocate | boolean |
| defaults | table | savecontent | function |
| define | function | savedata | function |
| direct | boolean | setfirstwritablefile | function |
| force | boolean | setluanames | function |
| getfirstreadablefile | function | tree | string |
| getreadablepaths | function | treehash | function |
| getwritablepath | function | usedpaths | function |
| hashed | function | | |

callback (basic tex)

find function
list function

register overloaded function

callbacks (context)

| | | | |
|---------------|------------|-----------------|----------|
| freeze | function | push | function |
| known | function | register | function |
| list | data table | report | function |
| pop | function | | |

catcodes (context)

names data table

numbers data table

register function

characters (context)

| | | | |
|----------------------|------------|------------------------------|------------|
| activeoffset | number | lccode | function |
| adobename | function | lccodes | data table |
| bidirectional | data table | lettered | function |
| blocks | data table | lower | function |
| casemap | table | makeactive | function |
| categories | data table | math | table |
| category | function | mathpairs | data table |
| categorytags | data table | ranges | data table |
| combined | data table | registerentities | function |
| contextname | function | remap_hangul_syllable | function |
| data | data table | remapentity | function |
| decomposed | data table | safechar | function |
| define | function | setcodes | function |
| description | function | shape | function |
| descriptions | data table | shaped | function |
| directions | table | shchars | data table |
| encodes | data table | shcodes | data table |
| entities | data table | specialchars | data table |
| fallbacks | data table | specials | data table |
| filters | data table | subscripts | table |
| fromnumber | function | superscripts | table |
| fschars | data table | synonyms | data table |
| fscodes | data table | tex | table |
| getrange | function | D accentmapping | |
| graphemes | data table | F defineaccents | |
| hangul | data table | F toutf | |
| initialize | function | tonumber | function |
| is_character | data table | ucchars | data table |
| is_command | data table | uccode | function |
| is_letter | data table | uccodes | data table |
| is_mark | data table | unicodechar | function |
| is_spacing | data table | upper | function |
| lcchars | data table | | |

chemistry (context)

| | | | |
|------------------|----------|-----------------------|----------|
| component | function | moleculeparser | userdata |
| define | function | start | function |
| format | string | stop | function |
| instance | string | structures | number |
| molecule | function | undefine | function |

commands (context)

| | | | |
|--------------------------------|----------|----------------------------------|----------|
| Alphabetic | function | autofinishstructurelevels | function |
| Character | function | autonextspace | function |
| Characters | function | autonextstructurelevel | function |
| MPc | function | autosetups | function |
| MPd | function | autostarttext | function |
| MPh | function | autostoptext | function |
| MPLl | function | bcolumn | function |
| MPlr | function | boolcase | function |
| MPls | function | character | function |
| MPn | function | characters | function |
| MPp | function | checkcharactersinfont | function |
| MPpardata | function | checkcountersetup | function |
| MPplus | function | checkedconversion | function |
| MPpos | function | checkedpagefloat | function |
| MPposset | function | checktwopassdata | function |
| MPr | function | chemicalcomponent | function |
| MPrest | function | chineseallnumerals | function |
| MPrs | function | chinesecapnumerals | function |
| MPul | function | chinesenumerals | function |
| MPur | function | cleanfontname | function |
| MPw | function | cleanupplayers | function |
| MPx | function | clonefield | function |
| MPxy | function | collectfloat | function |
| MPxywhd | function | collecthelp | function |
| MPy | function | colorcomponents | function |
| Romannumerals | function | concatcommalist | function |
| abjadnodotnumerals | function | consultfloat | function |
| abjadnumerals | function | copyfileto log | function |
| addcounter | function | copyposition | function |
| addff | function | countervalue | function |
| addfs | function | counttwopassdata | function |
| addlinklistelement | function | currentcomponent | function |
| addtojavascriptpreamble | function | currentdate | function |
| addtolist | function | currentenvironment | function |
| allinputpaths | function | currentproduct | function |
| alphabetic | function | currentproject | function |
| analysefloatmethod | function | currentreferenceorder | function |
| analyzelist | function | currentregime | function |
| applytochars | function | datasetvariable | function |
| applytowords | function | dayname | function |
| assignbuffer | function | defineattribute | function |

| | | | |
|--------------------------------|----------|--------------------------------------|----------|
| definebibtexsession | function | doifblackelse | function |
| definebreakpoint | function | doifcommonelse | function |
| definebreakpoints | function | doifcounter | function |
| definecharacterspacing | function | doifdimenstringelse | function |
| definechemical | function | doifdrawingblackelse | function |
| defineconversion | function | doifelse | function |
| definecounter | function | doifelsebuffer | function |
| definedviewerlayer | function | doifelsecounter | function |
| definefield | function | doifelsecurrentfonthasfeature | function |
| definefieldset | function | doifelseintwopassdata | function |
| definefileallback | function | doifelsemarking | function |
| definefilesynonym | function | doifelsemessage | function |
| definefont_one | function | doifelsemultipar | function |
| definefont_two | function | doifelseparallel | function |
| definefontfeature | function | doifelsepositionsused | function |
| definefontsolution | function | doifelserangeonpage | function |
| defineinsertion | function | doifelserreference | function |
| defineintermediatecolor | function | doifelsesavedfloat | function |
| definelabels | function | doifelsespaces | function |
| definelanguage | function | doifelseutfmathaccent | function |
| definelinkedlist | function | doifelsevisualizer | function |
| definemarking | function | doiffielddcategoryelse | function |
| definemultitonecolor | function | doiffielddelse | function |
| definernote | function | doiffielddsetelse | function |
| defineparallel | function | doiffiledefinedelse | function |
| defineparbuilder | function | doiffileexistelse | function |
| defineprocesscolor | function | doiffirstcharelse | function |
| defineprogram | function | doifinputfileelse | function |
| definereference | function | doifinsetelse | function |
| definesectionlevels | function | doifleapyearelse | function |
| definespotcolor | function | doiflisthasentry | function |
| definestructureblock | function | doiflisthasnumberelse | function |
| definestructureset | function | doiflisthaspageelse | function |
| definetransparency | function | doiflisthastitleelse | function |
| definewtwopasslist | function | doiflocfileelse | function |
| defineviewerlayer | function | doifnot | function |
| defrostrandomseed | function | doifnotcounter | function |
| digits | function | doifnotecontent | function |
| disableparbuilder | function | doifnoteonsamepageasprevious | function |
| disableregime | function | doifobjectreferencefoundelse | function |
| disablesPELLchecking | function | doifolderversionelse | function |
| discardfromlist | function | doifoverlappingelse | function |
| doanalyzeframedbox | function | doifparentfileelse | function |
| doif | function | doifposition | function |

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|------------------------------------|----------|------------------------------------|----------|
| doifpositionelse | function | fontchar | function |
| doifpositiononpage | function | fontcollectionclone | function |
| doifpositionsonsamepageelse | function | fontcollectiondefine | function |
| doifpositionsonthispageelse | function | fontcollectionprepare | function |
| doifurldefinedelse | function | fontcollectionregister | function |
| doprocесstypescriptfile | function | fontcollectionreport | function |
| doreshapeframedbox | function | fontcollectionreset | function |
| dostarttextfile | function | fontlookupgetkey | function |
| dostoptextfile | function | fontlookupgetkeyofindex | function |
| ecolumn | function | fontlookupinitialize | function |
| elapsedtime | function | fontlookupnoffound | function |
| enablecolor | function | forceendjob | function |
| enablecolorintents | function | forcequitjob | function |
| enablefontcolor schemes | function | format | function |
| enableparbuilder | function | formatcolor | function |
| enableregime | function | formatgray | function |
| enablespellchecking | function | freezerandomseed | function |
| enabletransparency | function | from | function |
| enhancelinkedlist | function | getbuffer | function |
| enhancelist | function | getbufferctxlua | function |
| enhancereference | function | getbuffermkvi | function |
| erasebuffer | function | getcommandline | function |
| expandcurrentreference | function | getctxfile | function |
| exportformdata | function | getcurrentprefixspec | function |
| exportreferences | function | getcurrentreferencemetadata | function |
| featureattribute | function | getdefaultfieldvalue | function |
| featurelist | function | getfieldcategory | function |
| feedback | function | getfirstcharacter | function |
| fetchallmarks | function | getfirsttwopassdata | function |
| fetchmultipar | function | getfloatvariable | function |
| fetchmultishape | function | getinternalreference | function |
| fetchonemark | function | getlasttwopassdata | function |
| fetchposboxes | function | getmarking | function |
| fetchtwomarks | function | getmessage | function |
| filterdefaultreference | function | getnotestate | function |
| filterreference | function | getprivateattribute | function |
| finalizebox | function | getprivatechar | function |
| findtwopassdata | function | getprogram | function |
| firstcountervalue | function | getrandomcounta | function |
| firstinset | function | getrandomcountb | function |
| flushfloat | function | getrandomseed | function |
| flushnotes | function | getreadfilename | function |
| flushpostponedblocks | function | getsubstring | function |
| flushpostponednotes | function | gettexbuffer | function |

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|-------------------------------|----------|-----------------------------------|----------|
| gettwopassdata | function | loadfontgoodies | function |
| gettwopassdatalist | function | loadspellchecklist | function |
| geturl | function | loadtypescriptfile | function |
| grabbuffer | function | loadvisualizer | function |
| helpaction | function | locatefilepath | function |
| helpreference | function | locfilename | function |
| hexstringtonumber | function | looptions | function |
| hour | function | markregionbox | function |
| hyphenatedlist | function | mathrenderset | function |
| hyphenatedurl | function | maxitemwidth | function |
| D characters | | minute | function |
| N lefthyphenmin | | mixcleanup | function |
| D mapping | | mixfinalize | function |
| N righthyphenmin | | mixflushlist | function |
| F setcharacters | | mixflushrest | function |
| incrementedcounter | function | mixgetsplit | function |
| initializetextrackers | function | mixsetsplit | function |
| injectcurrentreference | function | mixstate | function |
| injectreference | function | molecule | function |
| inlinechemical | function | month | function |
| insertattachment | function | monthmnem | function |
| insertcomment | function | monthname | function |
| insertfield | function | mpcolor | function |
| insertionnumber | function | mpoptions | function |
| insertrenderingwindow | function | namedstructureuservariable | function |
| insertsoundclip | function | namedstructurevariable | function |
| installedlanguages | function | nbfs | function |
| installtextracker | function | nextcountervalue | function |
| languageumber | function | nextparallel | function |
| lastcountervalue | function | nofdays | function |
| lchexnumber | function | nofitems | function |
| lchexnumbers | function | nofstackedfloats | function |
| leapyear | function | notedeltapage | function |
| linenumbersstageone | function | notelistindex | function |
| linenumbersstagetwo | function | notenumberpage | function |
| listlabel | function | noteprefixednumber | function |
| listlocation | function | notesymbolpage | function |
| listprefixednumber | function | notetitle | function |
| listprefixedpage | function | ntimes | function |
| listrealpage | function | number | function |
| listsize | function | numbers | function |
| listtitle | function | objectnumber | function |
| listuserdata | function | objectpage | function |
| loadexamodes | function | octnumber | function |

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|-----------------------------|----------|-----------------------------------|----------|
| octstringtonumber | function | registerattachment | function |
| ordinal | function | registerbibtexentry | function |
| overloadbookmark | function | registerbibtexfile | function |
| pagestaterealpage | function | registerbookmark | function |
| parpos | function | registerbuttons | function |
| pdfrotation | function | registercolor | function |
| percentageof | function | registercolorintent | function |
| pgfxcolorspec | function | registeredviewerlayer | function |
| placeparallel | function | registerhelp | function |
| popfloat | function | registeritemgroup | function |
| popitaliccorrection | function | registerlinenumbering | function |
| poplist | function | registermaintextcolor | function |
| popregime | function | registernamespace | function |
| popsectionblock | function | registerpostponedblock | function |
| pos | function | registerrendering | function |
| posplus | function | registersoundclip | function |
| posstrut | function | registerstructureprocessor | function |
| postponenotes | function | registertransparency | function |
| poswhd | function | registerunit | function |
| posxy | function | relatemarking | function |
| prepareMPvariable | function | removemissingcharacters | function |
| preparebibtexsession | function | renderingvar | function |
| preparedfile | function | replacemissingcharacters | function |
| presetsymbollist | function | replacepospxywhd | function |
| presettabulate | function | resavefloat | function |
| prevcountervalue | function | resetcounter | function |
| processbuffer | function | resetfontfeature | function |
| processedfile | function | resetfontsolution | function |
| processedfiles | function | resetmarking | function |
| processfile | function | resetmathitalics | function |
| processfilemany | function | resetnullfont | function |
| processfilenone | function | resetparallel | function |
| processfileonce | function | resetreference | function |
| processlist | function | resetstructureprocessor | function |
| pushfloat | function | resettimer | function |
| pushitaliccorrection | function | restartcounter | function |
| pushlist | function | restorecounter | function |
| pushregime | function | restorecurrentattributes | function |
| pushsectionblock | function | restorenote | function |
| rawcharacter | function | romannumerals | function |
| rawcountervalue | function | runbuffer | function |
| rawdate | function | safechar | function |
| referencepagestate | function | savebuffer | function |
| referencerealpage | function | savecounter | function |

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|--------------------------------|----------|---------------------------------|----------|
| savecurrentattributes | function | setlanguagesynonym | function |
| savelistnumber | function | setlayer | function |
| savelistprefixednumber | function | setmarking | function |
| savelisttitle | function | setmathalphabet | function |
| savefloat | function | setmathalternate | function |
| savenote | function | setmathattribute | function |
| saveobject | function | setmathitalics | function |
| saveparallel | function | setmathstyle | function |
| savestructureblock | function | setnextinternalreference | function |
| savetaggedtwopassdata | function | setnotestate | function |
| savetwopassdata | function | setnotesymbolpage | function |
| second | function | setobject | function |
| selectstructureblock | function | setopendocumentaction | function |
| setbreakpoints | function | setopenpageaction | function |
| setcharactercasing | function | setowncounter | function |
| setcharactercleaning | function | setpagestate | function |
| setcharacterkerning | function | setpagestaterealpageno | function |
| setcharacterspacing | function | setpagetransition | function |
| setcharacterstripping | function | setparbuilder | function |
| setcloseddocumentaction | function | setpos | function |
| setclosepageaction | function | setrandomseed | function |
| setcolormodel | function | setrealign | function |
| setcounter | function | setreferencearguments | function |
| setdataset | function | setreferenceattribute | function |
| setdigitsmanipulation | function | setreferenceoperation | function |
| setdirection | function | setsectionblock | function |
| setdocumentenvironments | function | setstructureblockstate | function |
| setdocumentfilenames | function | settagcombination | function |
| setdocumentmodes | function | settagdescription | function |
| setdocumentmodules | function | settagdescriptionsymbol | function |
| setfigurelookuporder | function | settagfigure | function |
| setfontfeature | function | settaghighlight | function |
| setfontofid | function | settagitemgroup | function |
| setfontsolution | function | settagproperty | function |
| setformat | function | settagsorting | function |
| setformsmethod | function | settagsynonym | function |
| setinsertionlocation | function | settagtablecell | function |
| setinterfaceconstant | function | settagtabulatecell | function |
| setinterfaceelement | function | setupbookmarks | function |
| setinterfacemessage | function | setupcanvas | function |
| setinterfacemessages | function | setupcharacterspacing | function |
| setinterfacevariable | function | setupexport | function |
| setinternalreference | function | setupfontexpansion | function |
| setlanguageexceptions | function | setupfontprotrusion | function |

| | | | |
|------------------------------|----------|----------------------------------|----------|
| setupidentity | function | storejavascriptcode | function |
| setupinsertion | function | storejavascriptpreamble | function |
| setupitaliccorrection | function | storenote | function |
| setuplinenumbering | function | structureautocatcodedget | function |
| setvisual | function | structurecatcodedget | function |
| setxmpfile | function | structuregivencatcodedget | function |
| showassignerror | function | structurenumber | function |
| showattributes | function | structuretitle | function |
| showcallbacks | function | structureuservariable | function |
| showchardata | function | structurevariable | function |
| showcounter | function | subcountervalues | function |
| showfontparameters | function | subff | function |
| showhyphenatedinlist | function | subfs | function |
| showmessage | function | synchronizecolormodel | function |
| splitfilename | function | synchronizemarking | function |
| spotcolorname | function | taggedmathfunction | function |
| spotcolorparent | function | testcase | function |
| spotcolorvalue | function | textime | function |
| startchemical | function | transparencycomponents | function |
| startcolorset | function | triggereffect | function |
| startcomponent | function | triggernegative | function |
| startenvironment | function | truefilename | function |
| startfontsolution | function | typebuffer | function |
| startparbuilder | function | typefile | function |
| startproduct | function | typestring | function |
| startproject | function | uchexnumber | function |
| startregime | function | uchexnumbers | function |
| startsectionlevel | function | undefinechemical | function |
| starttag | function | unicodechar | function |
| starttext | function | unit | function |
| startviewerlayer | function | unloadlanguage | function |
| stopchemical | function | useMPLibrary | function |
| stopcolorset | function | useanyfile | function |
| stopcomponent | function | usecldfilename | function |
| stopenvironment | function | usecolors | function |
| stopfontsolution | function | usecomponent | function |
| stopparbuilder | function | useenvironment | function |
| stopproduct | function | usefile | function |
| stopproject | function | usejavascriptpreamble | function |
| stopregime | function | usejavascriptscripts | function |
| stopsectionlevel | function | uselibrary | function |
| stoptag | function | useluafile | function |
| stoptext | function | usemodules | function |
| stopviewerlayer | function | usepath | function |

| | | | |
|--------------------------|----------|-----------------------------------|----------|
| useproduct | function | weekday | function |
| useproject | function | weekdayname | function |
| usesubpath | function | widthofstring | function |
| usesymbols | function | writestatus | function |
| usetexfile | function | x_table_cleanup | function |
| useurl | function | x_table_construct | function |
| usexmlfile | function | x_table_create | function |
| usezipfile | function | x_table_flush | function |
| utfchar | function | x_table_init_construct | function |
| utfmathclass | function | x_table_init_reflow_height | function |
| utfmathcommand | function | x_table_init_reflow_width | function |
| utfmathfiller | function | x_table_next_row | function |
| utfmathstretch | function | x_table_reflow_height | function |
| visual | function | x_table_reflow_width | function |
| vspacing | function | x_table_set_construct | function |
| vspacingcollapse | function | x_table_set_reflow_height | function |
| vspacingdefine | function | x_table_set_reflow_width | function |
| vspacingsetamount | function | year | function |
| vspacingsnap | function | | |

containers (context)

cleanname function
content function
define function
is_usable function

is_valid function
read function
usecache boolean
write function

converters (context)

| | | | |
|---------------------------|----------|--------------------------|------------|
| Alphabetic | function | maxchr | function |
| Character | function | minute | function |
| Characters | function | month | function |
| Romannumerals | function | nofdays | function |
| abjadnodotnumerals | function | number | function |
| abjadnumerals | function | numbers | function |
| alphabetic | function | octnumber | function |
| character | function | octstringtonumber | function |
| characters | function | ordinal | function |
| chineseallnumerals | function | rawcharacter | function |
| chinesecapnumerals | function | romannumerals | function |
| chinesenumerals | function | second | function |
| chr | function | sequences | data table |
| chrs | function | textime | function |
| convert | function | toabjad | function |
| define | function | tochinese | function |
| hexstringtonumber | function | toroman | function |
| hour | function | uchexnumber | function |
| isleapyear | function | uchexnumbers | function |
| lchexnumber | function | weekday | function |
| lchexnumbers | function | year | function |
| leapyear | function | | |

coroutine (basic lua)

coco boolean
create function
cstacksize function
resume function

running function
status function
wrap function
yield function

ctxrunner (context)

load function
prepfiler data table

resolve function

debug (basic lua)

| | |
|---------------------|----------|
| debug | function |
| getfenv | function |
| gethook | function |
| getinfo | function |
| getlocal | function |
| getmetatable | function |
| getregistry | function |

| | |
|---------------------|----------|
| getupvalue | function |
| setfenv | function |
| sethook | function |
| setlocal | function |
| setmetatable | function |
| setupvalue | function |
| traceback | function |

dir (context)

| | |
|-----------------------|----------|
| collectpattern | function |
| current | function |
| expandname | function |
| glob | function |
| globfiles | function |
| globpattern | function |

| | |
|-----------------|----------|
| ls | function |
| makedirs | function |
| makedirs | function |
| pop | function |
| push | function |

directives (context)

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

document (context)

| | | | |
|--------------------|------------|---------------------------|------------|
| arguments | data table | T ctxfile | |
| files | table | D environments | |
| getargument | function | D modes | |
| getfilename | function | D modules | |
| options | table | setargument | function |
| T cmdline | | setdefaultargument | function |
| D environments | | setfilename | function |
| D modes | | variables | data table |
| D modules | | | |

environment (context)

| | | | |
|----------------------------|------------|-------------------------------|------------|
| argument | function | luafile | function |
| arguments | data table | luafilechunk | function |
| default_texmfcnf | string | originalarguments | data table |
| engineflags | data table | outputfilename | string |
| filename | string | ownbin | string |
| files | table | ownname | string |
| filesynonyms | data table | ownpath | string |
| getargument | function | rawarguments | data table |
| homedir | string | reconstructcommandline | function |
| initex | boolean | setargument | function |
| initializearguments | function | splitarguments | function |
| initializefilenames | function | suffix | string |
| inputfilebarename | string | texfile | function |
| inputfilename | string | texmfos | string |
| inputfilesuffix | string | texos | string |
| jobfilename | string | texroot | string |
| jobfilesuffix | string | truefilename | function |
| loadluafile | function | | |

epdf (extra tex)

Array function
Dict function
Object function

PDFRectangle function
open function
type function

experiments (context)

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

figures (context)

| | | | |
|----------------------|------------|-------------------------|------------|
| applyratio | function | hash | function |
| bases | table | identifiers | data table |
| B enabled | | identify | function |
| F find | | include | function |
| T found | | includes | data table |
| T list | | initialize | function |
| F locate | | loaded | data table |
| F use | | localpaths | data table |
| T used | | magics | data table |
| bitmapimage | function | mergegoodies | function |
| boxnumber | number | nofprocessed | number |
| cachepaths | data table | paths | data table |
| check | function | patterns | data table |
| checkers | data table | pop | function |
| converters | data table | preferquality | boolean |
| current | function | programs | data table |
| defaultdepth | number | push | function |
| defaultheight | number | registerpattern | function |
| defaultsearch | boolean | registerresource | function |
| defaultwidth | number | registersuffix | function |
| done | function | resources | data table |
| dummy | function | scale | function |
| exists | data table | setlookups | function |
| exists | function | setorder | function |
| formats | data table | setpaths | function |
| found | data table | suffixes | data table |
| get | function | tprint | function |
| guess | function | used | data table |

file (basic lua)

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

| | |
|-----------------------|----------|
| nametotable | function |
| needs_updating | function |
| needsupdating | function |
| pathpart | function |
| readdata | function |
| removesuffix | function |
| replacesuffix | function |
| robustname | function |
| savechecksum | function |
| savedata | function |
| size | function |
| splitbase | function |
| splitname | function |
| splitpath | function |
| strip | function |
| suffix | function |
| suffixonly | function |
| syncmtime | 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 |

font (basic tex)

current function
define function
each function
fonts table
frozen function
getfont function

id function
max function
nextid function
read_tfm function
read_vf function
setfont function

fontloader (extra tex)

| | | | |
|--------------------------|----------|-----------------|----------|
| apply_afmfile | function | info | function |
| apply_featurefile | function | open | function |
| close | function | to_table | function |
| fields | function | totable | function |
| fullinfo | function | | |

fonts (context)

| | | | |
|---------------------------|-------|--|--------------------------|
| analyzers | table | | F normal |
| D initializers | | | F virtual |
| D methods | | | F initializefeatures |
| F setstate | | | T keys |
| B useunicodemarks | | | T character |
| checkers | table | | S depth |
| F missing | | | S height |
| cid | table | | S italic |
| F getmap | | | S width |
| F loadfile | | | T description |
| collections | table | | T boundingbox |
| F clonevector | | | S depth |
| F define | | | S height |
| T definitions | | | S width |
| F prepare | | | T parameters |
| F process | | | S ascender |
| F registermain | | | S descender |
| F report | | | S designsize |
| F reset | | | T expansion |
| T vectors | | | S auto |
| constructors | table | | S shrink |
| F aftercopyingcharacters | | | S step |
| F applymanipulators | | | S stretch |
| F assignmathparameters | | | S extendfactor |
| B autocleanup | | | S factor |
| F beforecopyingcharacters | | | S hfactor |
| D cache | | | S mathsize |
| F calculatyscale | | | T protrusion |
| F checkedfeatures | | | S auto |
| F checkedfilename | | | S quad |
| F cleanupable | | | S scaledpoints |
| F collectprocessors | | | S scriptpercentage |
| D designsizes | | | S scriptscriptpercentage |
| D dontembed | | | S size |
| F enhanceparameters | | | S slantfactor |
| N factor | | | S slantperpoint |
| F finalize | | | T spacing |
| F getfeatureaction | | | S extra |
| F hashfeatures | | | S shrink |
| F hashinstance | | | S stretch |
| T hashmethods | | | S width |

| | | |
|---------------------|-----------------------|------------|
| T synonyms | F scaled | |
| S em | F setfactor | |
| S ex | F setname | |
| S extra_space | N version | |
| S extraspace | current | function |
| S slant | currentid | function |
| S space | definers | table |
| S space_shrink | F addlookup | |
| S space_stretch | F analyze | |
| S spaceshrink | F applypostprocessors | |
| S spacestretch | F checkedmode | |
| S x_height | F checkedscript | |
| S units | F current | |
| S vfactor | S defaultlookup | |
| S xheight | F define | |
| T properties | F getspecification | |
| S autoitalicamount | F loadfont | |
| T cidinfo | F makespecification | |
| S embedding | T methods | |
| S encodingbytes | F install | |
| S filename | D variants | |
| S finalized | F read | |
| S fontname | F register | |
| S format | F registered | |
| S fullname | F registersplit | |
| S hasitalics | F resetnullfont | |
| S hasmath | F resolve | |
| S mathitalics | T resolvers | |
| S mode | F file | |
| S name | F name | |
| S noglyphnames | F spec | |
| S nostackmath | definetypeface | function |
| S psname | encodings | table |
| S textitalics | T agl | |
| S virtualized | D cache | |
| D loadedfonts | F is_known | |
| S namemode | D known | |
| F newfeatures | F load | |
| F newhandler | F make_unicode_vector | |
| N privateoffset | D math | |
| F readanddefine | N version | |
| F registerfeature | expansions | data table |
| B resolvevirtualtoo | formats | data table |
| F scale | goodies | table |

| | |
|-------------------------|----------------------------|
| D colorschemes | F dataset |
| D data | S defaultbasealternate |
| D designsizes | S defaultnodealternate |
| F getcompositions | D enhancers |
| T list | D features |
| F compositions | F getalternate |
| F designsizes | T glists |
| F expansions | T handlers |
| F featureset | F contextchain |
| F files | F gpos_context |
| F mathematics | F gpos_contextchain |
| F protrusions | F gpos_cursive |
| F solutions | F gpos_mark2base |
| F typefaces | F gpos_mark2ligature |
| F load | F gpos_mark2mark |
| F prepare_features | F gpos_pair |
| F register | F gpos_single |
| F registerpostprocessor | F gsub_alternate |
| F report | F gsub_context |
| handlers | F gsub_contextchain |
| table | F gsub_ligature |
| T afm | F gsub_multiple |
| B addkerns | F gsub_reversecontextchain |
| B addligatures | F gsub_single |
| B addtexligatures | F load |
| B autoprefixed | F scriptandlanguage |
| D cache | F setcontextchain |
| D features | F setfeatures |
| T helpdata | T statistics |
| D bothkerned | D usedfeatures |
| D leftkerned | T tables |
| D ligatures | D baselines |
| D rightkerned | D features |
| D texligatures | D languages |
| F load | D scripts |
| F setfeatures | N version |
| B syncspace | T pfb |
| N version | T tfm |
| T otf | D features |
| F addfeature | F setfeatures |
| D cache | T vf |
| T chainhandlers | T combinations |
| F normal | F combine |
| F verbose | T combiner |
| F collectlookups | |

| | | | |
|---------------------------|--------------|-----------------------|-------------------|
| D commands | | S lu | |
| F find | | S mc | |
| D helpers | | S me | |
| D math | | S mn | |
| D predefined | | S nd | |
| D whatever | | S nl | |
| hashes | table | S no | |
| D characters | | S pc | |
| D csnames | | S pd | |
| D descriptions | | S pe | |
| D emwidths | | S pf | |
| D exheights | | S pi | |
| D identifiers | | S po | |
| D italics | | S ps | |
| D lastmathids | | S sc | |
| D marks | | S sk | |
| D parameters | | S sm | |
| T processes | | S so | |
| D properties | | F format | |
| D quads | | F onetimemessage | |
| D resources | | F register | |
| T setdynamics | | F reportdefinedfonts | |
| D xheights | | F reportusedfeatures | |
| helpers | table | mappings | table |
| F addprivate | | F addtounicode | |
| F dimenfactor | | F fromunicode16 | |
| F fontpatternhassize | | F loadfile | |
| F getdigitwidth | | F loadline | |
| F getparameters | | F loadlumtable | |
| F getprivatenode | | F makenameparser | |
| F hasprivate | | F reset | |
| F nametoslot | | F tounicode16 | |
| F setdigitwidth | | F tounicode16sequence | |
| F splitfontpattern | | names | data table |
| iterators | table | protrusions | data table |
| F characters | | readers | table |
| F descriptions | | F afm | |
| F glyphs | | F check_lua | |
| loggers | table | F check_tfm | |
| T category_to_placeholder | | F dfont | |
| S ll | | F lua | |
| S lm | | F opentype | |
| S lo | | F otf | |
| S lt | | F pfb | |

```
F presetcontext
```

```
F registercontext
```

F showcontext

```
F splitcontext
```

D synonyms

D variants

| | |
|----------------|--------------|
| symbols | table |
|----------------|--------------|

F useLibrary

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

| | |
|---------|-------|
| tracers | table |
|---------|-------|

| | |
|------------------|------------|
| typefaces | data table |
|------------------|------------|

graphics (context)

backgrounds table

- F calculatemultipar
- F fetchmultipar

- F pair
- F path
- F point

gzip (extra lua)

close function

lines function

open function

img (basic tex)

| | | | |
|----------------------|----------|------------------|----------|
| boxes | function | ofindex | function |
| checksize | function | package | function |
| clone | function | print | function |
| copy | function | scan | function |
| immediatwrite | function | serialize | function |
| keys | function | totable | function |
| new | function | types | function |
| node | function | write | function |

interactions (context)

attachments table

F insert
F register

fields table

F clone
F define
F defineset
F insert

general table

F getidentity
F setupidentity

help table

F collect
F reference
F register

javascripts table

F addtopreamble
F code
D codes
F flushpreambles
D functions
D preambles

F setpreamble
F storecode
F storepreamble
F usepreamblenow
F usescripts

linkedlists table

pages table

F setpagetransition
F setupcanvas

references table

F setclosedocument
F setclosepage
F setopendocument
F setopenpage

renderings table

F register
F rendering
F var

soundclips table

F insert
F register

interfaces (context)

| | |
|-----------------------------|------------|
| addvalidkeys | function |
| cachedsetups | data table |
| cachesetup | function |
| complete | data table |
| constants | data table |
| corenamespaces | data table |
| definecommand | function |
| doifelsemessage | function |
| elements | data table |
| formats | data table |
| getcheckedparameters | function |
| getmessage | function |
| hashedsetups | data table |
| interfacedcommand | function |
| interfaces | table |
| invalidkey | function |
| is_command | function |
| namespaces | table |

F define

F list

| | |
|--------------------------|------------|
| registernamespace | function |
| setconstant | function |
| setelement | function |
| setformat | function |
| setmessage | function |
| setmessages | function |
| settranslation | function |
| setuserinterface | function |
| setvalidkeys | function |
| setvariable | function |
| showmessage | function |
| syntax | data table |
| tolist | function |
| translations | data table |
| variables | data table |

io (basic lua)

| | |
|----------------------|----------|
| ask | function |
| bytes | function |
| characters | function |
| close | function |
| exists | function |
| fileseparator | string |
| flush | function |
| i_limiter | function |
| i_limiters | table |
| T paranoid | |
| input | function |
| limiter | function |
| lines | function |
| loadchunk | function |
| loaddata | function |
| loadlines | function |
| noflines | function |
| o_limiter | function |

| | |
|----------------------|---------------------|
| o_limiters | table |
| T paranoid | |
| open | overloaded function |
| open_ro | function |
| output | function |
| pathseparator | string |
| popen | overloaded function |
| read | function |
| readnumber | function |
| readstring | function |
| savadata | function |
| size | function |
| stderr | userdata |
| stdin | userdata |
| stdout | userdata |
| tmpfile | function |
| type | function |
| write | function |

job (context)

comment function

datasets table

D collected

F extend

F getdata

F setdata

D tobesaved

disablesave function

files table

D collected

F context

B forcerun

F run

D tobesaved

initialize function

load function

loadother function

objects table

D collected

F get

F number

F page

F save

F set

D tobesaved

pack boolean

pagestates table

D collected

F extend

F realpage

F setstate

D tobesaved

passes table

F check

D collected

F count

F define

F find

F first

F get

F getcollected

F getdata

F getfield

F gettobesaved

F inlist

F last

F list

F save

F savetagged

D tobesaved

positions table

F b_col

F b_region

F c

D collected

F column

F copy

F depth

F e_col

F e_region

F enhance

F extra

F get

F getreserved

F hangafter

F hangindent

F height

F hsize

F leftskip

F lowerleft

F lowerright

F markregionbox

F n

F onsamepage

F overlapping

F p

F page

F paragraph

F parindent

F position

F r

F region

F replace
F rightskip
F set
F setall
F setdim
D tobesaved
F upperleft
F upperright
F width
F x
F xy
F y
register function
save function

structure table
D collected
T components
T tobesaved
T branches
S name
S type
variables table
D checksums
D collected
F save
D tobesaved
version number

lang (basic tex)

| | |
|--------------------------|----------|
| clean | function |
| clear_hyphenation | function |
| clear_patterns | function |
| exceptions | function |
| hyphenate | function |
| hyphenation | function |
| id | function |

| | |
|-------------------------|----------|
| new | function |
| patterns | function |
| postexhyphenchar | function |
| posthyphenchar | function |
| preexhyphenchar | function |
| prehyphenchar | function |

languages (context)

| | |
|----------------------|------------|
| associate | function |
| associated | data table |
| association | function |
| counters | data table |
| current | function |
| data | data table |
| define | function |
| getnumber | function |
| hyphenate | function |
| installed | function |
| labels | table |
| F define | |
| F split | |
| lefthyphenmin | function |
| loadable | function |
| loadwords | function |
| logger | table |
| F report | |
| numbers | data table |

| | |
|-----------------------|------------|
| posthyphenchar | function |
| prehyphenchar | function |
| registered | data table |
| righthyphenmin | function |
| setexceptions | function |
| setsynonym | function |
| unload | function |
| version | number |
| words | table |
| F check | |
| T data | |
| F disable | |
| F enable | |
| T enablers | |
| B enables | |
| F found | |
| F load | |
| T methods | |
| N threshold | |

layouts (context)

| | | |
|---------------|--------------|------------------------|
| status | table | F leftorrightpagection |
| | F isleftpage | |

lfs (extra lua)

| | | | |
|-------------------|---------------------|--------------------------|----------|
| attributes | function | mkdir | function |
| chdir | function | readlink | function |
| currentdir | function | rmdir | function |
| dir | function | setmode | function |
| isdir | overloaded function | shortname | function |
| isfile | function | symlinkattributes | function |
| lock | function | touch | function |
| lock_dir | function | unlock | function |

libraries (context)

basiclua data table

basictex data table

builtin data table

extralua data table

extratex data table

globals data table

lhx (context)

| | |
|--------------------------|----------|
| color | function |
| convert | function |
| convertfile | function |
| convertstring | 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 |
| lhxfile | function |
| loadedfile | function |

| | |
|---------------------------|----------|
| new | function |
| overloaderror | function |
| popupfile | function |
| print | function |
| pv | function |
| report | function |
| reset | function |
| result | function |
| set | function |
| show | function |
| showdebuginfo | 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 | setmessenger | function |
| categories | function | setprogram | function |
| direct | function | settarget | function |
| disable | function | settranslations | function |
| enable | function | show | function |
| extendbanner | function | show_close | function |
| flush | function | show_load | function |
| help | function | show_open | function |
| messenger | function | simple | function |
| new | function | simpleline | function |
| newline | function | simplelines | function |
| poptarget | function | start_page_number | function |
| pushtarget | function | status | function |
| report | function | stop_page_number | function |
| report_job_stat | function | subdirect | function |
| reportbanner | function | subreport | function |
| reporter | function | system | function |
| reportline | function | texerrormessage | function |
| reportlines | function | writer | function |
| setformats | function | | |

lpdf (context)

| | | | |
|-------------------------------|------------|----------------------------------|----------|
| action | function | id | function |
| adddocumentcolorspace | function | injectxmpinfo | function |
| adddocumenttextgstate | function | insertxmpinfo | function |
| adddocumentpattern | function | javascript | function |
| adddocumentshade | function | launch | function |
| addtocatalog | function | layerreference | function |
| addtoinfo | function | limited | function |
| addtonames | function | linearshade | function |
| addtopageattributes | function | link | function |
| addtopageresources | function | null | function |
| addtopagesattributes | function | number | function |
| addxmpinfo | function | pagedestination | function |
| array | function | pagereference | function |
| boolean | function | pdfcolor | function |
| checkedkey | function | pdftimestamp | function |
| checkedvalue | function | protectresources | boolean |
| circularshade | function | reference | function |
| cmykcode | function | registerannotation | function |
| collectedresources | function | registerdocumentfinalizer | function |
| color | function | registerpagefinalizer | function |
| colorspace | function | reserveannotation | function |
| colorspaceconstants | data table | reserveobject | function |
| colorspec | function | rgbcode | function |
| colorvalue | function | rotationcm | function |
| colorvalues | function | shareobject | function |
| constant | function | shareobjectreference | function |
| delayedobject | function | spotcode | function |
| dictionary | function | stream | function |
| epdf | table | string | function |
| F expand | | timestamp | function |
| F load | | toeight | function |
| finalizedocument | function | tosixteen | function |
| finalizepage | function | transparency | function |
| finishtransparencycode | function | transparencycode | function |
| flushobject | function | transparencygroups | table |
| flushstreamfileobject | function | B none | |
| flushstreamobject | function | transparencyvalue | function |
| formats | data table | unicode | function |
| graycode | function | verbose | function |

lpeg (basic lua)

| | | | |
|---------------------|----------|------------------------------|------------|
| C | function | endstripper | function |
| Carg | function | firstofsplit | function |
| Cb | function | frontstripper | function |
| Cc | function | instringchecker | function |
| Cf | function | is_lpeg | function |
| Cg | function | keeper | function |
| Cmt | function | locale | function |
| Cp | function | match | function |
| Cs | function | oneof | function |
| Ct | function | patterns | data table |
| P | function | print | function |
| R | function | replacer | function |
| S | function | secondofsplit | function |
| UP | function | span | function |
| UR | function | split | function |
| US | function | splitat | function |
| V | function | splitter | function |
| anywhere | function | stripper | function |
| append | function | tsplitat | function |
| balancer | function | tsplitter | function |
| checkedsplit | function | type | function |
| count | function | utfchartabletopattern | function |
| counter | function | version | function |

ltn12 (extra lua)

BLOCKSIZE number

filter table

F chain

F cycle

pump table

F all

F step

sink table

F chain

F error

F file

F null

F simplify

F table

source table

F cat

F chain

F empty

F error

F file

F rewind

F simplify

F string

lua (basic tex)

| | | | |
|-----------------------|------------|--------------------------|------------|
| bytecode | table | messages | data table |
| bytedata | data table | name | table |
| bytdone | table | numbers | data table |
| collectgarbage | function | registercode | function |
| delay | function | registeredcodes | function |
| finalize | function | registerfinalizer | function |
| firstbytecode | number | registername | function |
| flush | function | setbytecode | function |
| flushdelayed | function | setluaname | function |
| getbytecode | function | startupfile | string |
| getluaname | function | version | string |
| lastbytecode | number | | |

luatex (context)

| | | | |
|-----------------------------|----------|--------------------|----------|
| cleanuptempfiles | function | showjobstat | function |
| registerstartactions | function | showtexstat | function |
| registerstopactions | function | starttime | number |
| registertempfile | function | | |

lxml (context)

| | |
|------------------------|------------|
| addindex | function |
| all | function |
| applyfunction | function |
| att | function |
| attribute | function |
| chainattribute | function |
| checkindex | function |
| collected | function |
| command | function |
| concat | function |
| concatrange | function |
| content | function |
| context | function |
| convert | function |
| count | function |
| delete | function |
| direct | function |
| directives | table |
| F after | |
| F before | |
| F handle | |
| F load | |
| F setup | |
| displayverbatim | function |
| doif | function |
| doifelse | function |
| doifsettext | function |
| doifnot | function |
| doifnottext | function |
| doiftext | function |
| element | function |
| elements | function |
| entities | data table |
| filter | function |
| filterlist | function |
| first | function |
| flush | function |
| flushlinewise | function |
| flushsetups | function |
| flushspacewise | function |
| get_id | function |

| | |
|-------------------------|----------|
| getid | function |
| getindex | function |
| id | function |
| idsplitter | userdata |
| include | function |
| index | function |
| info | function |
| inlineverbatim | function |
| installsetup | function |
| last | function |
| load | function |
| loadbuffer | function |
| loaddata | function |
| loaded | table |
| loadregistered | function |
| main | function |
| match | function |
| name | function |
| namespace | function |
| nonspace | function |
| pos | function |
| position | function |
| raw | function |
| rawroot | function |
| register | function |
| registerentity | function |
| removesetup | function |
| resetcdata | function |
| resetsetups | function |
| resolvedentity | function |
| root | function |
| serialize | function |
| setaction | function |
| setcdata | function |
| setcommandtonone | function |
| setcommandtotext | function |
| setsetup | function |
| snippet | function |
| sorters | table |
| F add | |
| F compare | |

| | | | |
|-----------------------|----------|----------------------------|------------|
| <code>F flush</code> | | <code>stripped</code> | function |
| <code>F reset</code> | | <code>tag</code> | function |
| <code>F show</code> | | <code>text</code> | function |
| <code>F sort</code> | | <code>tofile</code> | function |
| <code>splitid</code> | function | <code>toparameters</code> | function |
| <code>startraw</code> | function | <code>toverbatim</code> | function |
| <code>stopraw</code> | function | <code>verbatim</code> | function |
| <code>store</code> | function | <code>withinindex</code> | function |
| <code>strip</code> | function | <code>xmltexhandler</code> | data table |

math (basic lua)

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

mathematics (context)

| | | | |
|-------------------------------|------------|-------------------------------|----------|
| addfallbacks | function | overloadparameters | function |
| alphabets | data table | privatebase | number |
| big | function | remapalphabets | function |
| boldmap | table | renderings | table |
| categories | table | D mappings | |
| D functions | | D numbers | |
| checkaccentbaseheight | function | D sets | |
| checkprivateparameters | function | renderset | function |
| classes | data table | resetitalics | function |
| codes | data table | scaleparameters | function |
| define | function | setalternate | function |
| dimensions | function | setitalics | function |
| extrabase | number | syncboth | function |
| extras | table | syncname | function |
| F add | | syncstyle | function |
| F copy | | toname | function |
| fallbacks | table | tostyle | function |
| F apply | | tweakaftercopyingfont | function |
| F install | | tweakbeforecopyingfont | function |
| families | data table | tweaks | table |
| gaps | table | F fixbadprime | |
| getboth | function | utfmathclass | function |
| getstyle | function | utfmathcommand | function |
| initializeparameters | function | utfmathfiller | function |
| makefont | function | utfmathstretch | function |

md5 (extra lua)

HEX function

crypt function

dec function

decrypt function

exor function

hex function

sum function

sumhexa function

metapost (context)

| | | | |
|---------------------------|----------|-----------------------|----------|
| analyzeplugins | function | makempy | table |
| checkformat | function | N nofconverted | |
| checktexts | function | F processgraphics | |
| colorinitializer | function | metafun | table |
| convert | function | F interpolate | |
| defaultformat | string | F topath | |
| directrun | function | method | number |
| edefsxsy | function | mptopdf | table |
| escaped | function | F convertmptstopdf | |
| exectime | table | N nofconverted | |
| filterclippath | function | multipass | boolean |
| finder | function | n | number |
| flush | function | optimize | boolean |
| flushers | table | parse | function |
| T pdf | | pdfliterals | function |
| F comment | | pluginactions | function |
| F flushfigure | | process | function |
| F startfigure | | processplugins | function |
| F stopfigure | | reducetogray | boolean |
| F textfigure | | reporterror | function |
| flushliteral | function | reset | function |
| flushnormalpath | function | resetlastlog | function |
| flushreset | function | resetplugins | function |
| format | function | resettexttexts | function |
| formatnumber | function | setoutercolor | function |
| getclippath | function | settext | function |
| gettext | function | showlog | boolean |
| graphic | function | tex | table |
| graphic_base_pass | function | F get | |
| graphic_extra_pass | function | F reset | |
| intermediate | table | F set | |
| T actions | | texerrors | boolean |
| F makempy | | texttextsdata | function |
| B needed | | theclippath | function |
| lastlog | string | totable | function |
| load | function | unload | function |

mime (extra lua)

b64 function

decode function

decodet table

F base64

F quoted-printable

dot function

encode function

encodet table

F base64

F quoted-printable

eol function

normalize function

qp function

qpwrp function

stuff function

unb64 function

unqp function

wrap function

wrapt table

F base64

F default

F quoted-printable

F text

wrp function

mplib (extra tex)

| | | | |
|----------------|----------|---------------------|----------|
| fields | function | pen_info | function |
| finders | table | preprocessed | function |
| F file | | version | function |
| new | function | | |

noads (context)

handlers table

- F check
- F collapse
- F families
- F italics
- F relocate
- F render
- F resize
- F respace
- F tags
- F unscript

F variants

process function

processors table

- T collapse
- F mlist_to_hlist
- T relocate
- T render
- T resize
- T respace
- T unscript

node (basic tex)

| | | | |
|------------------------|----------|-----------------------------|----------|
| copy | function | ligaturing | function |
| copy_list | function | mlist_to_hlist | function |
| count | function | new | function |
| current_attr | function | next | function |
| dimensions | function | prev | function |
| do_ligature_n | function | protect_glyphs | function |
| family_font | function | protrusion_skippable | function |
| fields | function | remove | function |
| first_character | function | set_attribute | function |
| first_glyph | function | slide | function |
| flush_list | function | subtype | function |
| free | function | tail | function |
| has_attribute | function | traverse | function |
| has_field | function | traverse_id | function |
| hpack | function | type | function |
| id | function | types | function |
| insert_after | function | unprotect_glyphs | function |
| insert_before | function | unset_attribute | function |
| is_node | function | usedlist | function |
| kerning | function | vpack | function |
| last_node | function | whatsits | function |
| length | function | write | function |

nodes (context)

| | | | |
|-------------------------------|------------|--------------------------------|------------|
| after | function | F protectglyphs | |
| aligned | function | F stripping | |
| astable | function | F unprotectglyphs | |
| before | function | | |
| builders | table | has_attribute | function |
| F buildpage_filter | | idstosting | function |
| F vpack_filter | | ignorablefields | data table |
| codes | data table | injections | table |
| concat | function | F handler | |
| count | function | F installnewkern | |
| delete | function | F setcursive | |
| destinations | table | F setkern | |
| N attribute | | F setmark | |
| T done | | F setpair | |
| F handler | | installattributehandler | function |
| T stack | | is_display_math | function |
| dimensionfields | data table | is_mirrored | data table |
| dir_is_pop | data table | is_rotated | data table |
| dir_negation | data table | kerncodes | data table |
| fasthpack | function | leftmarginwidth | function |
| fields | function | lines | table |
| fillcodes | data table | T boxed | |
| firstcharacter | function | F register | |
| firstcharinbox | function | F setup | |
| firstglyph | function | F stage_one | |
| getattribute | function | F stage_two | |
| gluecodes | data table | F stage_zero | |
| glyphcodes | data table | D data | |
| glyphdir_is_equal | data table | F finalize | |
| glyphdir_is_opposite | data table | F number | |
| glyphdir_is_orthogonal | data table | N scratchbox | |
| handlers | table | link | function |
| F accessibility | | list | function |
| F backgrounds | | listablefields | data table |
| F characters | | listcodes | data table |
| F checkforleaks | | listtoutf | function |
| F checkglyphs | | load | function |
| F cleanuppage | | locate | function |
| F export | | mathcodes | data table |
| F finalize | | noadcodes | data table |
| F migrate | | nodecodes | data table |
| | | packlist | function |

| | | | |
|----------------------------|------------|---------------------------|----------|
| pardir_is_equal | data table | F userstring | |
| pardir_is_opposite | data table | F usertokens | |
| pardir_is_parallel | data table | F vlist | |
| partextdir_is_equal | data table | F zeroglue | |
| penaltycodes | data table | print | function |
| pool | table | processors | table |
| F baselineskip | | B enabled | |
| F cleanup | | F hpack_filter | |
| F disc | | F post_linebreak_filter | |
| F fontkern | | F pre_linebreak_filter | |
| F glue | | F tracer | |
| F gluespec | | processwords | function |
| F glyph | | reference | function |
| F hlist | | references | table |
| F kern | | N attribute | |
| F latelua | | T done | |
| F leftmarginkern | | F handler | |
| F leftskip | | T stack | |
| F lineskip | | remove | function |
| F noad | | repackhlist | function |
| F pdfannotation | | replace | function |
| F pdfdestination | | report | function |
| F pdfdirect | | rightmarginwidth | function |
| F pdfliteral | | rules | table |
| F pdfrestore | | D data | |
| F pdfsave | | F define | |
| F pdfsetmatrix | | F enable | |
| F penalty | | F handler | |
| F register | | save | function |
| F rightmarginkern | | serialize | function |
| F rightskip | | serializebox | function |
| F rule | | setattribute | function |
| F shrink | | setattributes | function |
| F special | | setunsetattributes | function |
| F stretch | | shifts | table |
| F temp | | D data | |
| F textdir | | F define | |
| F usage | | F enable | |
| T userids | | F handler | |
| N margins.inline | | show | function |
| N splitters.one | | showboxes | function |
| N splitters.two | | showcodes | function |
| F userlist | | showlist | function |
| F usernumber | | showsimplelist | function |

| | | | |
|----------------------------|------------|------------------------|------------|
| skipcodes | data table | F unicodes | |
| somepenalty | function | T colors | |
| somespace | function | F reset | |
| stripping | table | F set | |
| T glyphs | | F setlist | |
| F set | | F fontchar | |
| striprange | function | F start | |
| tasks | table | T steppers | |
| F actions | | F check | |
| F appendaction | | F codes | |
| F disableaction | | F features | |
| F disablegroup | | F glyphs | |
| F enableaction | | F message | |
| F enablegroup | | F messages | |
| F freeze | | F nofsteps | |
| F freezegroup | | F register | |
| F new | | F reset | |
| F prependaction | | F start | |
| F removeaction | | F stop | |
| F restart | | F stop | |
| F showactions | | T transparencies | |
| F table | | F reset | |
| textdir_is_equal | data table | F set | |
| textdir_is_is | data table | F setlist | |
| textdir_is_opposite | data table | unsetattribute | function |
| textdir_is_parallel | data table | unsetattributes | function |
| tonodes | function | visualizebox | function |
| tosequence | function | visualizers | table |
| totable | function | F box | |
| toutf | function | F handler | |
| tracers | table | F setfont | |
| T characters | | F setlayer | |
| F collect | | F setvisual | |
| F equal | | whatcodes | data table |
| F indices | | whatsitcodes | data table |
| F start | | writable_spec | function |
| F string | | | |

number (context)

| | | | |
|----------------------|------------|-----------------------|----------|
| | function | tociceros | function |
| basepoints | function | todidots | function |
| bit | function | todimen | function |
| bits | function | toevenhex | function |
| clearbit | function | toinches | function |
| dimenfactors | data table | tomillimeters | function |
| hasbit | function | tonewciceros | function |
| maxdimen | number | tonewdidots | function |
| nopts | function | tonumberf | function |
| percent | function | tonumberg | function |
| points | function | topics | function |
| pts | function | topoints | function |
| setbit | function | toscaled | function |
| splitdimen | function | toscaledpoints | function |
| tobasepoints | function | toset | function |
| tobitstring | function | valid | function |
| tocentimeters | function | | |

os (basic lua)

| | | | |
|---------------------------|---------------------|------------------------|---------------------|
| <code>__getenv__</code> | function | <code>remove</code> | function |
| <code>__setenv__</code> | function | <code>rename</code> | function |
| <code>binsuffix</code> | string | <code>resolvers</code> | table |
| <code>binsuffixes</code> | table | <code>resultof</code> | function |
| <code>clock</code> | function | <code>runtime</code> | function |
| <code>converttime</code> | function | <code>selfdir</code> | string |
| <code>date</code> | function | <code>setenv</code> | overloaded function |
| <code>difftime</code> | function | <code>setlocale</code> | overloaded function |
| <code>env</code> | data table | <code>sleep</code> | function |
| <code>exec</code> | overloaded function | <code>spawn</code> | overloaded function |
| <code>execute</code> | overloaded function | <code>time</code> | function |
| <code>exit</code> | function | <code>times</code> | function |
| <code>fulltime</code> | function | <code>timezone</code> | function |
| <code>getenv</code> | overloaded function | <code>tmpdir</code> | function |
| <code>gettimeofday</code> | function | <code>tmpname</code> | function |
| <code>launch</code> | function | <code>type</code> | string |
| <code>libsuffix</code> | string | <code>uname</code> | function |
| <code>localtime</code> | function | <code>uuid</code> | function |
| <code>name</code> | string | <code>where</code> | function |
| <code>platform</code> | string | <code>which</code> | function |

package (basic lua)

| | |
|----------------------|----------|
| clibpaths | function |
| config | string |
| cpath | string |
| extraclibpath | function |
| extralibpath | function |
| libpaths | function |

| | |
|----------------|----------|
| loaded | table |
| loaders | table |
| loadlib | function |
| path | string |
| preload | table |
| seeall | function |

pagebuilders (context)

mixedcolumns table

F cleanup

F finalize

F getlist

F getrest

F getsplit

F setsplit

pdf (basic tex)

| | | | |
|-----------------------|----------|------------------------|----------|
| immediateobj | function | pageresources | string |
| mapfile | function | pagesattributes | string |
| mapline | function | pdfmapfile | function |
| maxobjnum | function | pdfmapline | function |
| obj | function | print | function |
| objtype | function | refobj | function |
| pageattributes | string | registerannot | function |
| pageref | function | reserveobj | function |

physics (context)

`units` table

D tables

profiler (extra lua)

pause function
resume function

start function
stop function

regimes (context)

| | | | |
|----------------|----------|------------------|----------|
| disable | function | push | function |
| enable | function | toregime | function |
| pop | function | translate | function |
| process | function | | |

resolvers (context)

| | | | |
|-------------------------------------|------------|--------------------------------|------------|
| allprefixes | function | findfile | function |
| appendhash | function | findfiles | function |
| automount | function | findgivenfile | function |
| automounted | table | findgivenfiles | function |
| booleanvariable | function | findpath | function |
| cacheversion | string | findtexfile | function |
| checkedvariable | function | findwildcardfile | function |
| cleanpath | function | findwildcardfiles | function |
| cleanpathlist | function | formatofsuffix | function |
| concatinators | data table | formatofvariable | function |
| configbanner | string | formats | data table |
| criticalvars | data table | generators | data table |
| dangerous | data table | getenv | function |
| datastate | function | getownpath | function |
| defaultsuffixes | table | getreadfilename | function |
| dowithfilesandreport | function | hashers | data table |
| dowithfilesintree | function | homedir | string |
| dowithpath | function | inputstack | table |
| dowithvariable | function | installinputfilehandler | function |
| env | function | installinputlinehandler | function |
| executers | table | instance | table |
| F check | | D data | |
| F exec | | B diskcache | |
| F execute | | D environment | |
| F finalize | | D expansions | |
| F popen | | D fakepaths | |
| F register | | D files | |
| F spawn | | B force_suffixes | |
| expandbraces | function | D found | |
| expandedpathfromlist | function | D foundintrees | |
| expandedpathlist | function | D hashed | |
| expandedpathlistfromvariable | function | D hashes | |
| expandpath | function | D lists | |
| expandpathfromvariable | function | B loadererror | |
| expansion | function | D order | |
| extendtexmfvariable | function | B remember | |
| find_file | function | B renewcache | |
| find_files | function | B renewtree | |
| findbinfile | function | B savelists | |
| findctxfile | function | D setups | |
| finders | data table | D specification | |

| | | | |
|--------------------------|------------|-------------------------------|------------|
| D variables | | registerintrees | function |
| jobs | table | registermethod | function |
| F currentcomponent | | registerzipfile | function |
| F currentenvironment | | relations | data table |
| F currentproduct | | renew | function |
| F currentproject | | repath | function |
| F justacomponent | | reset | function |
| D processors | | resetextrapath | function |
| F productcomponent | | resetresolve | function |
| F usefile | | resolve | function |
| joinpath | function | savers | data table |
| load | function | scandata | function |
| loadbinfile | function | scanfiles | function |
| loaders | data table | schemes | table |
| loadlualib | function | T cleaners | |
| loadtexfile | function | F md5 | |
| loadtime | function | F none | |
| locateformat | function | F strip | |
| locators | data table | F cleanname | |
| luacnfname | string | F fetchstring | |
| luacnfspec | string | F fetchtable | |
| luacnfstate | string | F install | |
| macros | table | setenv | function |
| F convertfile | | setinstance | function |
| F decodecomment | | settrace | function |
| F enablecomment | | showpath | function |
| F encodecomment | | simplescanfiles | function |
| F preprocessed | | splitconfigurationpath | function |
| F processmk | | splitexpansions | function |
| F processmkvi | | splitmethod | function |
| F version | | splitpath | function |
| maxreadlevel | number | suffixes | data table |
| methodhandler | function | suffixmap | data table |
| newinstance | function | suffixofformat | function |
| openbinfile | function | texdatablob | function |
| openers | data table | toppath | function |
| openfile | function | unexpandedpath | function |
| opentexfile | function | unexpandedpathlist | function |
| ownpath | string | unresolve | function |
| prefixes | data table | updaterelations | function |
| prependhash | function | updatescript | function |
| registerextrapath | function | usezipfile | function |
| registerfile | function | validatedpath | function |
| registerfilehash | function | variable | function |

variableofformat
variableofformatorsuffix

function
function

wildcardpattern

function

scripts (context)

categorytonumber data table
colors data table
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

handlers data table
hash table
installdataset function
installmethod function
numbertocategory data table
numbertodataset data table
preprocess function
reset function
set function

set (context)

contains function

create function

tolist function

tonumber function

totable function

socket (extra lua)

BLOCKSIZE number
_DEBUG boolean
bind function
choose function
connect function
dns table

F gethostname
F tohostname
F toip

ftp table

S PASSWORD
N PORT
N TIMEOUT
S USER
F command
F get
F open
F put

gettime function

http table

N PORT
N TIMEOUT
S USERAGENT
F open
F request

newtry function

protect function

select function

sink function

sinkt table

F close-when-done
F default
F http-chunked

F keep-open

skip function

sleep function

smtp table

S DOMAIN

N PORT

S SERVER

N TIMEOUT

S ZONE

F message

F open

F send

source function

sourcet table

F by-length

F default

F http-chunked

F until-closed

tcp function

tp table

N TIMEOUT

F connect

try function

udp function

url table

F absolute

F build

F build_path

F escape

F parse

F parse_path

F unescape

sorters (context)

comparers table

 F basic

constants table

 S defaultdigits

 S defaultlanguage

 S defaultmethod

 N digitmaximum

 N digitsoffset

 N ignoredoffset

 N replacementoffset

definitions data table

firstofsplit function

setlanguage function

sort function

splitters table

 F utf

strip function

tracers data table

update function

statistics (context)

| | | | |
|-----------------------|----------|----------------------|----------|
| checkfmtstatus | function | resettiming | function |
| elapsedindeed | function | runtime | function |
| elapsedseconds | function | savefmtstatus | function |
| elapsedtime | function | show | function |
| enable | boolean | showjobstat | function |
| formatruntime | function | starttiming | function |
| hastiming | function | stoptiming | function |
| memused | function | threshold | number |
| register | function | timed | function |
| reportstorage | function | | |

status (basic tex)

list function

storage (context)

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

streams (context)

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

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

string (basic lua)

| | | | |
|-----------------------|----------|----------------------|----------|
| booleanstring | function | quoted | function |
| byte | function | rep | function |
| bytepairs | function | reverse | function |
| bytes | function | split | function |
| char | function | splitlines | function |
| characterpairs | function | splitup | function |
| characters | function | strip | function |
| checkedsplit | function | sub | function |
| collapsespaces | function | tformat | function |
| count | function | toboolean | function |
| dump | function | tocontext | function |
| escapedpattern | function | todimen | function |
| explode | function | topattern | function |
| find | function | totable | function |
| format | function | toutf | function |
| gfind | function | unquote | function |
| gmatch | function | unquoted | function |
| gsub | function | upper | function |
| is_boolean | function | utfcharacters | function |
| is_empty | function | utflength | function |
| itself | function | utfsplit | function |
| len | function | utfsplitlines | function |
| limit | function | utfvalues | function |
| lower | function | valid | function |
| match | function | validutf | function |
| quote | function | | |

structures (context)

| | | | |
|-------------------|----------|-----------------------------|----------|
| atlocation | function | F setlevel | |
| blocks | table | F setoffset | |
| D collected | | F setown | |
| F define | | F setstate | |
| F print | | F setvalue | |
| F save | | T specials | |
| F select | | F userpage | |
| F setstate | | F subs | |
| D states | | D tobesaved | |
| D tobesaved | | F value | |
| bookmarks | table | currentsectionnumber | function |
| F finalize | | descriptions | table |
| F flatten | | documents | table |
| S method | | D data | |
| F overload | | F initialize | |
| F place | | F preset | |
| F register | | F reset | |
| F setup | | floats | table |
| counters | table | formulas | table |
| F add | | F current | |
| F analyze | | F simplify | |
| F check | | F store | |
| D collected | | helpers | table |
| F compact | | F analyze | |
| F converted | | F formulanumber | |
| F currentvalue | | F merged | |
| D data | | F page | |
| F define | | F prefix | |
| F first | | F prefixlastpage | |
| F get | | F prefixpage | |
| F last | | F simplify | |
| F next | | F title | |
| F prev | | F touserdata | |
| F previous | | inserts | table |
| F raw | | D data | |
| F record | | F define | |
| F reset | | F getdata | |
| F restart | | F getlocation | |
| F restore | | F getname | |
| F save | | F getnumber | |
| F set | | F setlocation | |

| | |
|-------------------|--------------|
| F setup | |
| D stored | |
| itemgroups | table |
| F maxwidth | |
| F nofitems | |
| F register | |
| lists | table |
| F addto | |
| F analyze | |
| D cached | |
| D collected | |
| F discard | |
| F enhance | |
| T enhancers | |
| F filter | |
| F filtercollected | |
| F formulainumber | |
| F hasnumberdata | |
| F haspagedata | |
| F hastitledata | |
| D internals | |
| F iscached | |
| F label | |
| F location | |
| F number | |
| D ordered | |
| F page | |
| F popnesting | |
| F prefix | |
| F prefixednumber | |
| F prefixedpage | |
| F process | |
| D pushed | |
| F pushnesting | |
| F realpage | |
| T result | |
| F sectionnumber | |
| F size | |
| F title | |
| D tobesaved | |
| F userdata | |
| F uservalue | |
| marks | table |
| D data | |

| | |
|----------------------------|--------------|
| F define | |
| F exists | |
| F fetch | |
| F fetchallmarks | |
| F fetched | |
| F fetchonemark | |
| F fetchtwomarks | |
| F get | |
| F number | |
| F relate | |
| F reset | |
| F set | |
| F show | |
| F synchronize | |
| F title | |
| T tracers | |
| F showtable | |
| notes | table |
| F checkpagechange | |
| F define | |
| F doifonsamepageasprevious | |
| F get | |
| F getdeltapage | |
| F getn | |
| F getnumberpage | |
| F getstate | |
| F getsymbolpage | |
| F hascontent | |
| F internal | |
| F internalid | |
| F listindex | |
| F ordered | |
| F postpone | |
| F resetpostponed | |
| F restore | |
| F save | |
| F setstate | |
| F setsymbolpage | |
| D states | |
| F store | |
| pages | table |
| F analyze | |
| D collected | |
| F is_odd | |

| | |
|------------------------|--------------|
| F number | |
| F save | |
| D tobesaved | |
| 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 enableinteraction | |
| F enhance | |
| D executers | |
| F expandcurrent | |
| F export | |
| T files | |
| T data | |
| F define | |
| F get | |
| F filter | |
| F filterdefault | |
| D filters | |
| F from | |
| F get | |
| F getcurrentmetadata | |
| F getcurrentprefixspec | |
| F getinnermethod | |
| F getinternalreference | |
| D handlers | |
| F identify | |
| F import | |
| F inject | |
| F injectcurrentset | |
| D internals | |
| F load | |
| F loadpresets | |

- F mark
- 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 reportproblems
- F reset
- T resolvers
 - F reference
 - F section
- D runners
- F set
- F setandgetattribute
- F setcomponent
- F setinnermethod
- F setinternalreference
- F setnextinternal
- F setnextorder
- D specials
- F splitcomponent
- F splitprefix
- F splitreference
- 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
T urls
T data
F define
F get
F valid
F whatfrom
registers table

F analyze
F analyzed
D collected
F compare
F define
F enhance
F extend
F filter
F filtercollected
F finalize
F flush
F prepare
F process
F sort
F store
D tobesaved
F unique
F userdata

sections table

F autodepth
F cct
T collected
F current
F currentblock
F currentid
F currentlevel
F depthnumber
F finddata
F findnumber
F fullnumber
F getcurrentlevel
F getlevel
F getnumber
F internalreference

D levelmap
D levels
F load
F matchingtilldepth
F numberatdepth
F numbers
F popblock
F prefixedconverted
F pushblock
F register
D registered
F reportstructure
F save
F set
F setblock
F setchecker
F setlevel
F setnumber
F somelevel
F structuredata
F title
D tobesaved
F typesetnumber
F userdata
B verbose
F way

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 meaning
- F prepare
- F process
- F register
- F registerused
- F sort
- F synonym
- D tobesaved

tags

- T data
- F detailedtag
- F getid
- F handler
- D labels
- F last
- F lastinchain
- T metadata
- D properties
- F registerdata

table

- F registermetadata
- F restart
- F setattributehash
- F setcombination
- F setdescription
- F setdescriptionsymbol
- F setfigure
- F sethighlight
- F setitemgroup
- F setproperty
- F setsorting
- F setsynonym
- F settablecell
- F settabulatecell
- F start
- F stop
- D taglist
- T userdata

table (basic lua)

| | | | |
|------------------------|----------|-----------------------------|----------|
| append | function | merged | function |
| are_equal | function | prepend | function |
| compact | function | print | function |
| concat | function | remove | function |
| contains | function | reversed | function |
| copy | function | sequenced | function |
| count | function | serialize | function |
| derive | function | setmetatablecall | function |
| deserialize | function | setmetatableindex | function |
| drop | function | setmetatablekey | function |
| fastcopy | function | setmetatablenewindex | function |
| fastserialize | function | setn | function |
| flattened | function | sort | function |
| foreach | function | sortedhash | function |
| foreachi | function | sortedhashkeys | function |
| fromhash | function | sortedkeys | function |
| getmetatablekey | function | sortedpairs | function |
| getn | function | strip | function |
| has_one_entry | function | sub | function |
| identical | function | swapped | function |
| imerge | function | tocontext | function |
| imerged | function | tofile | function |
| insert | function | tohandle | function |
| is_empty | function | tohash | function |
| keys | function | toxml | function |
| load | function | unique | function |
| loweredkeys | function | unnest | function |
| maxn | function | unpack | function |
| merge | function | | |

tex (basic tex)

| | | | |
|-------------------------|------------|----------------------|------------|
| attribute | table | lccode | table |
| badness | function | linebreak | function |
| box | table | lists | table |
| catcode | table | luacatcodes | number |
| conditionals | data table | mathcode | table |
| constants | data table | modes | data table |
| count | table | nest | table |
| ctxcatcodes | number | nilcatcodes | number |
| definefont | function | notcatcodes | number |
| delcode | table | number | function |
| dimen | table | pdffontname | function |
| enableprimitives | function | pdffontobjnum | function |
| error | function | pdffontsize | function |
| extraprimitives | function | pdfpageref | function |
| finish | function | pdfxformname | function |
| fontidentifier | function | primitives | function |
| fontname | function | print | function |
| fprint | function | printlist | function |
| get | function | prtcacodes | number |
| getattribute | function | romannumeral | function |
| getbox | function | round | function |
| getcatcode | function | run | function |
| getcount | function | scale | function |
| getdelcode | function | set | function |
| getdimen | function | setattribute | function |
| getlccode | function | setbox | function |
| getlist | function | setcatcode | function |
| getmath | function | setcount | function |
| getmathcode | function | setdelcode | function |
| getnest | function | setdimen | function |
| getsfcode | function | setfalse | function |
| getskip | function | setlccode | function |
| gettoks | function | setlist | function |
| getuccode | function | setmath | function |
| hashtokens | function | setmathcode | function |
| ifs | data table | setnest | function |
| inicatcodes | number | setsfcode | function |
| iscount | function | setskip | function |
| isdimen | function | settoks | function |
| isskip | function | settrue | function |
| istoken | function | setuccode | function |

| | | | |
|--------------------|------------|-----------------------|------------|
| sfcode | table | tprint | function |
| shipout | function | trackers | data table |
| skip | table | txtcatcodes | number |
| sp | function | type | function |
| sprint | function | uccode | table |
| systemmodes | data table | uniformdeviate | function |
| texcatcodes | number | uprint | function |
| toks | table | vrbcacodes | number |
| tpacacodes | number | write | function |
| tpbcacodes | number | | |

texconfig (basic tex)

| | | | |
|------------------------|----------|-----------------------|--------|
| error_line | number | max_print_line | number |
| expand_depth | number | max_strings | number |
| formatname | string | nest_size | number |
| half_error_line | number | param_size | number |
| hash_extra | number | save_size | number |
| init | function | shell_escape | string |
| kpse_init | boolean | stack_size | number |
| max_in_open | number | | |

texio (basic tex)

`write` function

`write_nl` function

token (basic tex)

| | | | |
|---------------------|----------|----------------------|----------|
| command_id | function | get_next | function |
| command_name | function | is_activechar | function |
| create | function | is_expandable | function |
| csname_id | function | is_protected | function |
| csname_name | function | lookup | function |
| expand | function | | |

tokens (context)

bgroup table
collectors table
 T data
 F defaultwords
 F dowithwords
 F flush
 F handle
 F install
 F register
 T registered
 T remapper
 F convert
 T data
 F store
 F show

 T show_methods
 F a
 F b
 F c
 F showtoken
 F test
 F trace
egroup table
hbox table
letter function
letters function
other function
vbox table
vtop table

tracers (context)

| | |
|------------------|----------|
| count | function |
| cs | function |
| dimen | function |
| knownlist | function |
| lists | table |

- T context
- T internals
- T scratch

| | |
|------------------|----------|
| name | function |
| primitive | function |
| prnterror | function |
| showlines | function |
| strings | table |
| S undefined | |
| toks | function |
| type | function |

trackers (context)

| | | | |
|-----------------------|------------|-----------------|----------|
| data | data table | name | string |
| disable | function | register | function |
| dumphashtofile | function | report | function |
| enable | function | savehash | function |
| list | function | show | function |

typesetters (context)

alignments table

F handler
F set

breakpoints table

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

cases table

T actions
F handler
F register
F set

characters table

F handler

cleaners table

F handler
F set

digits table

T actions
N attribute
F handler
F set

directions table

F handler
F process
F set

fast_hpack function

hpack function

italics table

F forcevariant
F handler
F reset
F set

kerns table

D factors
F handler

B keepligature

B keeptogether

D mapping

F set

margins table

F finalhandler
F globalhandler
F ha
F localhandler
F save

paragraphs table

N attribute
T droppers
F freeze
F set
F handler
F set

processors table

F apply
F register
F reset
F split
F startapply
F stopapply
F stripped
F tostring

spacings table

N attribute
F define
F handler
D mapping
T numbers
T frenchpunctuation
T characters
S name
N number
F reset
F set
F setup

tonodes function

vpack function

xtables table

F cleanup

F construct

F create

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

unicode (extra lua)

ascii table

F byte
F char
F dump
F find
F format
F gfind
F gmatch
F gsub
F len
F lower
F match
F rep
F reverse
F sub
F upper

filetype function

grapheme table

F byte
F char
F dump
F find
F format
F gfind
F gmatch
F gsub
F len
F lower
F match
F rep
F reverse
F sub
F upper

latin1 table

F byte
F char
F dump
F find
F format
F gfind
F gmatch

F gsub
F len
F lower
F match
F rep
F reverse
F sub
F upper

ustring function

utf16_to_utf8 function

utf16_to_utf8_be function

utf16_to_utf8_le function

utf32_to_utf8 function

utf32_to_utf8_be function

utf32_to_utf8_le function

utf8 table

F byte
F char
F dump
F find
F format
F gfind
F gmatch
F gsub
F len
F length
F lower
F match
F remapper
F rep
F reverse
F split
F splitines
F string
F sub
F toentities
F totable
F upper
F valid

utf8_to_utf16 function

utf8_to_utf8 function

utfcodes
utfname

function
table

utftype
xstring

function
function

url (context)

addscheme function
barepath function
construct function
escape function
filename function

hashed function
hasscheme function
query function
split function
toquery function

utilities (context)

| | | | |
|---------------------------------|-------|-----------------------------|----------|
| debugger | table | U settings_to_hash_a | |
| F disable | | U settings_to_hash_b | |
| F enable | | U settings_to_hash_c | |
| F savestats | | F settings_to_array | |
| F showstats | | F settings_to_hash | |
| formatters | table | F settings_to_hash_strict | |
| F formatcolumns | | F settings_to_hash_tolerant | |
| F list | | F settings_to_set | |
| F stripzeros | | F simple_hash_to_string | |
| garbagecollector | table | F splitthousands | |
| F check | | report | function |
| N criterium | | sequencers | table |
| B enabled | | F appendaction | |
| lua | table | F appendgroup | |
| B alwaysstripcode | | F compile | |
| F compile | | F disableaction | |
| F loadedluacode | | F disablegroup | |
| N nofstrippedbytes | | F enableaction | |
| N nofstrippedchunks | | F enablegroup | |
| F stripbytecode | | D functions | |
| B stripcode | | F localize | |
| F strippedbytecode | | F new | |
| F strippedloadstring | | F nodeprocessor | |
| packers | table | F prependaction | |
| F hashed | | F prependgroup | |
| F new | | F removeaction | |
| F pack | | F setkind | |
| F simplehashed | | F tostring | |
| F strip | | setters | table |
| F unpack | | F disable | |
| N version | | F enable | |
| parsers | table | F initialize | |
| F add_settings_to_array | | F list | |
| F arguments_to_table | | F new | |
| F array_to_string | | F register | |
| F getparameters | | F reset | |
| F hash_to_string | | F show | |
| F listitem | | stacker | table |
| F make_settings_to_hash_pattern | | F new | |
| T patterns | | storage | table |
| U settings_to_array | | F allocate | |

F checked
F mark
F marked
F setinitializer
F sparse
strings table
F collapsecrlf
F newrepeater
F nice
F striplong
F tabtospace
tables table

F accesstable
F definetable
F encapsulate
F insertaftervalue
F insertbeforevalue
F migratetable
F removevalue
templates table
F load
F replace
F resolve

visualizers (context)

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

xml (context)

| | | | |
|---------------------------|----------|------------------------|------------|
| addentitiesdoctype | function | D tex | |
| after | function | D texline | |
| all | function | D texspace | |
| applylpath | function | D verbose | |
| assign | function | defaultprotocol | string |
| attribute | function | delete | function |
| before | function | delete_element | function |
| body | function | each | function |
| builtinentities | table | each_element | function |
| B amp | | elements | function |
| B apos | | elementtocdata | function |
| B gt | | empty | function |
| B lt | | entities | data table |
| B quot | | erase | function |
| cdata | function | errorhandler | function |
| cdatatotext | function | escaped | function |
| checkbom | function | expressions | table |
| checkerror | function | F boolean | |
| checknamespace | function | F child | |
| checkns | function | F contains | |
| cleansed | function | F count | |
| collect | function | F error | |
| collect_elements | function | F find | |
| collect_tags | function | F lower | |
| collect_texts | function | F name | |
| collected | function | F number | |
| collecttexts | function | F oneof | |
| content | function | F print | |
| convert | function | F quit | |
| copy | function | F tag | |
| count | function | F text | |
| cprint | function | F undefined | |
| css | table | F upper | |
| F colorspecification | | fillin | function |
| F dimension | | filter | function |
| F fontspecification | | finalizers | table |
| F padding | | F paragraphs | |
| defaulthandlers | table | T tex | |
| D file | | F all | |
| D parsedxml | | F attribute | |
| D string | | F bibtexconcat | |

| | | |
|------------------|------------------------------|----------|
| F bibtexshort | F position | |
| F chainattribute | F reverse | |
| F command | F table | |
| F concat | F tag | |
| F concatrange | F tags | |
| F context | F text | |
| F count | F texts | |
| F ctxtext | F upperall | |
| F default | first | function |
| F first | found | function |
| F function | functions | table |
| F index | getbuffer | function |
| F last | gethandlers | function |
| F lettered | gethandlersfunction | function |
| F lower | include | function |
| F lowerall | index | function |
| F match | inheritedconvert | function |
| F name | inject | function |
| F position | inject_element | function |
| F reverse | inject_element_after | function |
| F stripped | inject_element_before | function |
| F tag | injectafter | function |
| F tags | injectbefore | function |
| F text | insert | function |
| F upper | insert_element | function |
| F upperall | insert_element_after | function |
| T xml | insert_element_before | function |
| F all | insertafter | function |
| F att | insertbefore | function |
| F attribute | insertcomment | function |
| F attributes | inspect | function |
| F cdata | is_valid | function |
| F chainattribute | kind | function |
| F count | last | function |
| F default | load | function |
| F elements | lpath | function |
| F empty | lpathcached | function |
| F first | lpathcalls | function |
| F function | lshow | function |
| F index | makestandalone | function |
| F last | match | function |
| F lowerall | name | function |
| F match | newhandlers | function |
| F name | nodesettostring | function |

| | | | |
|----------------------------|---------------------|----------------------------|----------|
| originalload | function | save | function |
| package | function | selection | function |
| parent | function | separate | function |
| parsedentitylpeg | userdata | serialize | function |
| pihandlers | table | setcdata | function |
| placeholders | table | sethandlersfunction | function |
| F unknown_any_entity | | setproperty | function |
| F unknown_dec_entity | | settings | function |
| F unknown_hex_entity | | specialhandler | table |
| position | function | sprint | function |
| privatecodes | table | string | function |
| privatetoken | function | strip | function |
| process | function | strip_whitespace | function |
| process_attributes | function | stripelement | function |
| process_elements | function | stripleadingspaces | function |
| processattributes | function | table | function |
| profiled | table | text | function |
| raw | function | textonly | function |
| registerentity | function | texttocdata | function |
| registers | function | tocdata | function |
| remap_name | function | toelement | function |
| remap_namespace | function | tostring | function |
| remap_tag | function | toxml | function |
| remapname | function | tprint | function |
| remapnamespace | function | traverse | function |
| remaptag | function | unescaped | function |
| renamespace | function | unprivatized | function |
| replace | function | withelement | function |
| replace_element | function | withelements | function |
| resolvens | function | wrap | function |
| root | function | xmlns | table |

zip (extra lua)

archives

table

close

function

closearchive

function

open

function

openarchive

function

openfile

function

registeredfiles

table

type

function

zlib (extra lua)

adler32 function
compress function
compressobj function
crc32 function

decompress function
decompressobj function
version function