

attributes backends **bit32** 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 functions global
graphics **gzip** **img** interactions
interfaces **io** job **lang** languages layouts
lfs libraries lmx logs lpdf **lpeg** **ltn12**
lua luatex lxml **math** mathematics mbox
md5 metapost **mime** moduledata modules
mplib noads **node** nodes number **os** **package**
pagebuilders parametersets **pdf**
pdfscanner physics **profiler** publications
regimes resolvers scripts set **socket**
sorters statistics **status** storage
streams **string** structures **table** **tex**
texconfig **texio** thirddata **token** tokens
tracers trackers typesetters **unicode** url
userdata utilities vf visualizers xml
zip **zlib**

ConT_FEXt MkIV

global (alias: _G)

| | | | |
|-----------------------|----------|------------------------|----------|
| _LUAVERSION | number | floats | table |
| _MAJORVERSION | number | font | table |
| _MINORVERSION | number | fontloader | table |
| arg | table | fonts | table |
| assert | function | format_n | function |
| attributes | table | frozen | boolean |
| backends | table | functions | table |
| beginpage | function | getmetatable | function |
| bit32 | table | getreadfilename | function |
| blobs | table | global | table |
| boolean | table | graphics | table |
| buffers | table | gzip | table |
| builders | table | img | table |
| caches | table | inspect | function |
| callback | table | interactions | table |
| callbacks | table | interfaces | table |
| catcodes | table | io | table |
| characters | table | ipairs | function |
| chemistry | table | job | table |
| collectgarbage | function | lang | table |
| commands | table | languages | table |
| containers | table | layouts | table |
| context | function | lfs | table |
| converters | table | libraries | table |
| coroutine | table | lmx | table |
| ctxrunner | table | lmxconvert | function |
| debug | table | lmxnew | function |
| delta | number | load | function |
| dimen | function | loadfile | function |
| dir | table | loadstring | function |
| directives | table | logs | table |
| document | table | lp_fastpos_n | userdata |
| documentdata | table | lp_fastpos_p | userdata |
| dofile | function | lpdf | table |
| endpage | function | lpeg | table |
| environment | table | ltn12 | table |
| epdf | table | lua | table |
| error | function | luatex | table |
| experiments | table | lxml | table |
| figures | table | math | table |
| file | table | mathematics | table |

| | | | |
|--------------------------|----------|-------------------------|----------|
| mbox | table | setmetatable | function |
| md5 | table | socket | table |
| metapost | table | sorters | table |
| mime | table | statistics | table |
| module | function | status | table |
| moduledata | table | storage | table |
| modules | table | streams | table |
| mplib | table | string | table |
| newline | function | stripmath | function |
| next | function | structures | table |
| noads | table | swiglib | function |
| node | table | table | table |
| nodes | table | tex | table |
| number | table | texconfig | table |
| optionalrequire | function | texio | table |
| os | table | thirddata | table |
| outputpagestree | function | toboollean | function |
| package | table | token | table |
| pagebuilders | table | tokens | table |
| pairs | function | tonumber | function |
| parametersets | table | tostring | function |
| pattern | userdata | trace_characters | boolean |
| pcall | function | traceback | function |
| pdf | table | tracers | table |
| pdfscanner | table | trackers | table |
| physics | table | type | function |
| print | function | typesetters | table |
| profiler | table | unicode | table |
| protect | function | unpack | function |
| publications | table | url | table |
| rawequal | function | userdata | table |
| rawget | function | utf | table |
| rawlen | function | utilities | table |
| rawset | function | vf | table |
| regimes | table | visualizers | table |
| report_characters | function | xml | table |
| require | function | xmlconvert | function |
| resolve_fences | function | xpcall | function |
| resolvers | table | zip | table |
| scripts | table | zlib | table |
| select | function | | |
| set | table | | |
| setcharacteralign | function | | |
| setinspector | function | | |

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 hsvtorgay
- F hsvtorgb
- F iccprofile
- F isblack
- N main
- S model
- D models
- F mpcolor
- F mpnamedcolor

- F mpoptions
- U none
- F popset
- F processcolorcomponents
- 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 | | F resolve_begin |
| D data | | F resolve_end |
| F enable | | F resolve_step |
| F handler | | D scopes |
| F register | | F setfeatures |
| D registered | | F start |
| numbers | data table | F stop |
| ofnode | function | B supported |
| private | function | D values |
| showcurrent | function | |
| states | table | |
| F disabletriggering | | |
| F enabletriggering | | |
| F finalize | | |
| F initialize | | |
| F process | | |
| F selective | | |
| F stacked | | |
| F stacker | | |
| transparencies | table | |
| N attribute | | |
| D data | | |
| F enable | | |
| F forcesupport | | |
| F handler | | |
| U none | | |
| F register | | |
| D registered | | |
| B supported | | |
| B triggering | | |
| F value | | |
| D values | | |
| unsetvalue | number | |
| viewerlayers | table | |
| N attribute | | |
| D data | | |
| F define | | |
| F enable | | |
| F forcesupport | | |
| F handler | | |
| B hasorder | | |
| D listwise | | |
| F register | | |
| 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 rgbcolor
- F spotcolor
- F startlayer
- F startstackedlayer
- F stoplayer
- F stopstackedlayer
- F transparency
- F typesetfield
- T registrations
 - F cmykindexcolor
 - F cmykspotcolor
 - F getspotcolorreference
 - F grayindexcolor
 - F grayspotcolor
 - F rgbindexcolor
 - F rgbspotcolor
 - F spotcolorname
 - F transparency
- T tables
 - D vfspecials

registrations table

tables table

bit32 (basic lua)

| | |
|----------------|----------|
| arshift | function |
| band | function |
| bnot | function |
| bor | function |
| btest | function |
| bxor | function |
| extract | function |
| lrotate | function |
| lshift | function |
| replace | function |
| rrotate | function |
| rshift | function |

blobs (context)

| | |
|--------------------|----------|
| append | function |
| dimensions | function |
| dispose | function |
| new | function |
| pack | function |
| strdp | function |
| strhd | function |
| strht | function |
| strwd | function |
| tohpack | function |
| tohpackfast | function |
| tonodes | function |
| tovpack | function |
| tovpackfast | function |
| write | function |

boolean (context)

tocontext function

tonumber function

buffers (context)

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

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 basic
 - F default
 - F oneline
- D names
- D numbers
- F set
- F start
- F stop
- T expansion
 - F trace
- F keptogether
- F registertogether
- T solutions
 - T splitters
 - F define
 - F optimize
 - T registered
 - F reset
 - F set
 - F split
 - F start
 - F stop
- F tag

vspacing table

- F analyze
- D categories
- F collapsevbox
- T data

- D map
- D skip
- D snapmethods
- F definesnapmethod
- B fixed
- F pagehandler
- F resetprevdepth
- F setmap
- F setskip
- F snapbox
- F tocategories
- F tocategory
- F vboxhandler

caches (context)

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

callback (basic tex)

find function
list function
register overloaded function

callbacks (context)

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

catcodes (context)

names data table

numbers data table

register function

characters (context)

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

chemistry (context)

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

commands (context)

| | | | |
|--------------------------------|----------|-----------------------------------|----------|
| Alphabetic | function | assignbuffer | function |
| Character | function | autofinishstructurelevels | function |
| Characters | function | autonextspace | function |
| MPc | function | autonextstructurelevel | function |
| MPd | function | autosetups | function |
| MPh | function | autostarttext | function |
| MPLl | function | autostoptext | function |
| MPLr | function | averagecharwidth | function |
| MPLs | function | bcolumn | function |
| MPn | function | boolcase | function |
| MPp | function | boxtostring | function |
| MPpardata | function | btxauthor | function |
| MPplus | function | btxcitevariant | function |
| MPpos | function | btxcollectlistentries | function |
| MPposset | function | btxdestination | function |
| MPr | function | btxdetail | function |
| MPrest | function | btxdoif | function |
| MPrs | function | btxdoifelse | function |
| MPul | function | btxdoifelselistentryplaced | function |
| MPur | function | btxdoifnot | function |
| MPw | function | btxfetchlistentries | function |
| MPx | function | btxfield | function |
| MPxy | function | btxflush | function |
| MPxywhd | function | btxflushlistentries | function |
| MPy | function | btxhandlecite | function |
| Romannumerals | function | btxhandlenocite | function |
| abjadnodotnumerals | function | btxlistvariant | function |
| abjadnumerals | function | btxreference | function |
| addbtxentry | function | btxregisterlistentry | function |
| addcounter | function | btxresolvelistreference | function |
| addlinklistelement | function | btxsetlistmethod | function |
| addreplacements | function | btxsingularorplural | function |
| addtojavascriptpreamble | function | buildtextaccent | function |
| addtolist | function | character | function |
| allinputpaths | function | characters | function |
| alphabetic | function | chardescription | function |
| analysefloatmethod | function | checkcharactersinfont | function |
| analyzelist | function | checkcountersetup | function |
| applytochars | function | checkedconversion | function |
| applytofirstcharacter | function | checkedpagefloat | function |
| applytowords | function | checktwopassdata | function |

| | | | |
|--------------------------------|-----------------|--------------------------------|-----------------|
| chemicalcomponent | function | definefont_two | function |
| chineseallnumerals | function | definefontfamily | function |
| chinesecapnumerals | function | definefontfeature | function |
| chinesenumerals | function | definefontsolution | function |
| cleanfontname | function | defineinsertion | function |
| cleanupbox | function | defineintermediatecolor | function |
| cleanuplayers | function | definelabels | function |
| clonefield | function | definelanguage | function |
| collectfloat | function | definelinkedlist | function |
| collecthelp | function | definemarking | function |
| colorcomponents | function | definemetafont | function |
| concatcommalist | function | definemultitonecolor | function |
| consultfloat | function | definernote | function |
| convertbtxdatasettoxml | function | defineparallel | function |
| copyposition | function | defineparbuilder | function |
| cos | function | defineprocesscolor | function |
| cosd | function | defineprogram | function |
| countvalue | function | definereference | function |
| counttwopassdata | function | definesectionlevels | function |
| currentcomponent | function | defineselectfont | function |
| currentdate | function | definespotcolor | function |
| currentenvironment | function | definestructureblock | function |
| currentproduct | function | definestructureset | function |
| currentproject | function | definetransparency | function |
| currentreferencedefault | function | definewopasslist | function |
| currentreferenceorder | function | defineviewerlayer | function |
| currentregime | function | defrostrandomseed | function |
| currentsectiontolist | function | digits | function |
| datasetvariable | function | disableautofontscript | function |
| dayname | function | disableparbuilder | function |
| defineattribute | function | disableregime | function |
| definebreakpoint | function | disablespellchecking | function |
| definebreakpoints | function | discardfromlist | function |
| definecharacterspacing | function | doanalyzeframedbox | function |
| definechemical | function | doif | function |
| defineconversion | function | doifblackelse | function |
| definecounter | function | doifcommonelse | function |
| definedviewerlayer | function | doifcounter | function |
| definefallbackfamily | function | doifdimenstringelse | function |
| definefield | function | doifdrawingblackelse | function |
| definefieldset | function | doifelse | function |
| definefilefallback | function | doifelsebuffer | function |
| definefilesynonym | function | doifelsecontinewithfile | function |
| definefont_one | function | doifelsecounter | function |

| | | | |
|--------------------------------------|----------|-------------------------------|----------|
| doifelsecurrentfonthasfeature | function | doreshapeframedbox | function |
| doifelseintwopassdata | function | dostarttextfile | function |
| doifelsemarking | function | dostoptextfile | function |
| doifelsemessage | function | ecolumn | function |
| doifelsemultipar | function | elapsedtime | function |
| doifelseparallel | function | enableautofontscript | function |
| doifelsepositionsused | function | enablecolor | function |
| doifelserangeonpage | function | enablecolorintents | function |
| doifelserreference | function | enablefontcolorschemes | function |
| doifelsesavedfloat | function | enableparbuilder | function |
| doifelsespaces | function | enableregime | function |
| doifelseutfmathabove | function | enablespellchecking | function |
| doifelseutfmathaccent | function | enabletransparency | function |
| doifelseutfmathbelow | function | enhancelinkedlist | function |
| doifelsevisualizer | function | enhancelist | function |
| doiffielddcategoryelse | function | enhancereference | function |
| doiffielddelse | function | erasebuffer | function |
| doiffielddsetelse | function | expandcurrentreference | function |
| doiffiledefinedelse | function | exportformdata | function |
| doiffileexistelse | function | exportreferences | function |
| doiffirstcharelse | function | extensiblecode | function |
| doifinputfileelse | function | feature | function |
| doifinsetelse | function | featureattribute | function |
| doifleapyearelse | function | featurelist | function |
| doiflisthasentry | function | feedback | function |
| doiflisthasnumberelse | function | fetchallmarks | function |
| doiflisthaspageelse | function | fetchmultipar | function |
| doiflisthastitleelse | function | fetchmultishape | function |
| doiflocfileelse | function | fetchonemark | function |
| doifnot | function | fetchposboxes | function |
| doifnotcounter | function | fetchtwomarks | function |
| doifnotecontent | function | figurefilename | function |
| doifnoteonsamepageasprevious | function | figurefilepath | function |
| doifobjectreferencefoundelse | function | figurefiletype | function |
| doifolderversionelse | function | figurerequest | function |
| doifoverlappingelse | function | figurestatus | function |
| doifparentfileelse | function | figureused | function |
| doifposition | function | figurevariable | function |
| doifpositionelse | function | filterdefaultreference | function |
| doifpositiononpage | function | filterreference | function |
| doifpositionsonsamepageelse | function | finalizebox | function |
| doifpositionsonthispageelse | function | findtwopassdata | function |
| doifurldefinedelse | function | firstcountervalue | function |
| doprocstypescriptfile | function | firstinset | function |

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|------------------------------------|----------|--------------------------------|----------|
| flushfloat | function | getprogram | function |
| flushnotes | function | getrandomcounta | function |
| flushpostponedblocks | function | getrandomcountb | function |
| flushpostponednotes | function | getrandomseed | function |
| fontchar | function | getreadfilename | function |
| fontcollectionclone | function | getsubstring | function |
| fontcollectiondefine | function | gettexbuffer | function |
| fontcollectionprepare | function | gettwopassdata | function |
| fontcollectionregister | function | gettwopassdatalist | function |
| fontcollectionreport | function | geturl | function |
| fontcollectionreset | function | grabbuffer | function |
| fontlookupgetkey | function | hboxtovbox | function |
| fontlookupgetkeyofindex | function | helpaction | function |
| fontlookupinitialize | function | helpreference | function |
| fontlookupnofound | function | hexstringtonumber | function |
| forceendjob | function | horizontalcode | function |
| forcequitjob | function | hour | function |
| format | function | hyphenatedlist | function |
| formatcolor | function | hyphenatedurl | function |
| formatgray | function | D characters | |
| freezerandomseed | function | N lefthyphenmin | |
| from | function | D mapping | |
| getbidimode | function | N righthyphenmin | |
| getbuffer | function | F setcharacters | |
| getbufferctxlua | function | incrementedcounter | function |
| getbuffermkvi | function | initializetexdirectives | function |
| getcommandline | function | initializetextrackers | function |
| getctxfile | function | injectcurrentreference | function |
| getcurrentprefixspec | function | injectreference | function |
| getcurrentreferencemetadata | function | inlinechemical | function |
| getdefaultfieldvalue | function | insertattachment | function |
| getfieldcategory | function | insertcomment | function |
| getfirstcharacter | function | insertfield | function |
| getfirsttwopassdata | function | insertionnumber | function |
| getfloatvariable | function | insertrenderingwindow | function |
| getinternalreference | function | insertsoundclip | function |
| getlasttwopassdata | function | installedlanguages | function |
| getmarking | function | installtexdirective | function |
| getmessage | function | installtextracker | function |
| getmpextensions | function | languagenumber | function |
| getnotestate | function | lastcountervalue | function |
| getplaceholderchar | function | lchexnumber | function |
| getprivateattribute | function | lchexnumbers | function |
| getprivatechar | function | leapyear | function |

| | | | |
|-----------------------------------|----------|-------------------------------------|----------|
| linenumbersstageone | function | nextcountervalue | function |
| linenumbersstagetwo | function | nextparallel | function |
| listgroupindex | function | nofdays | function |
| listlabel | function | nofitems | function |
| listlocation | function | nofstackedfloats | function |
| listprefixednumber | function | notedeltapage | function |
| listprefixedpage | function | notelistindex | function |
| listrealpage | function | notenumberpage | function |
| listsize | function | noteprefixednumber | function |
| listtitle | function | notesymbolpage | function |
| listuserdata | function | notetitle | function |
| loadbtxdefinitionfile | function | ntimes | function |
| loadexamodes | function | number | function |
| loadfontgoodies | function | numbers | function |
| loadspellchecklist | function | objectnumber | function |
| loadtypescriptfile | function | objectpage | function |
| loadvisualizer | function | octnumber | function |
| locatefilepath | function | octstringtonumber | function |
| locfilename | function | ordinal | function |
| lower | function | overloadbookmark | function |
| makeactive | function | page_injections_flush_after | function |
| markfonts | function | page_injections_flush_before | function |
| markregionbox | function | page_injections_save | function |
| math_frac | function | pagestaterealpage | function |
| mathrenderset | function | parpos | function |
| maxitemwidth | function | pdfrotation | function |
| minute | function | pdfstartmatrix | function |
| mixcleanup | function | pdfstartmirroring | function |
| mixfinalize | function | pdfstartrotation | function |
| mixflushlist | function | pdfstartscaling | function |
| mixflushrest | function | pdfstopmatrix | function |
| mixgetsplitted | function | pdfstopmirroring | function |
| mixsetsplitted | function | pdfstoprotation | function |
| mixstate | function | pdfstopscaling | function |
| molecule | function | percentageof | function |
| month | function | pgfxcolorspec | function |
| monthmnm | function | placeparallel | function |
| monthname | function | popfloat | function |
| mpcolor | function | popitaliccorrection | function |
| mpoptions | function | poplist | function |
| mprunvar | function | popreferenceprefix | function |
| namedstructureuservariable | function | popregime | function |
| namedstructurevariable | function | popsectionblock | function |
| nbfs | function | pos | function |

| | | | |
|---------------------------------|----------|-----------------------------------|----------|
| posplus | function | registerrendering | function |
| posstrut | function | registersoundclip | function |
| postponenotes | function | registerstructureprocessor | function |
| poswhd | function | registertransparency | function |
| posxy | function | registerunit | function |
| prepareMPvariable | function | relatemarking | function |
| preparedfile | function | remapentity | function |
| presetsymbollist | function | removemissingcharacters | function |
| presettabulate | function | renderingvar | function |
| prevcountervalue | function | replacemissingcharacters | function |
| processbuffer | function | replacepospxywhd | function |
| processcolorcomponents | function | resavefloat | function |
| processedfile | function | resetcharacteralign | function |
| processedfiles | function | resetcounter | function |
| processfile | function | resetfontfeature | function |
| processfilemany | function | resetfontsolution | function |
| processfilenone | function | resetmarking | function |
| processfileonce | function | resetmathattributes | function |
| processlist | function | resetmathitalics | function |
| processsplit | function | resetnullfont | function |
| pushfloat | function | resetparallel | function |
| pushitaliccorrection | function | resetprevdepth | function |
| pushlist | function | resetreference | function |
| pushreferenceprefix | function | resetstructureprocessor | function |
| pushregime | function | resettimer | function |
| pushsectionblock | function | restartcounter | function |
| rawcharacter | function | restorecounter | function |
| rawcountervalue | function | restorecurrentattributes | function |
| rawdate | function | restorenote | function |
| referencepagestate | function | romannumerals | function |
| referencerealpage | function | runbuffer | function |
| registerattachment | function | safechar | function |
| registerbookmark | function | savebuffer | function |
| registerbuttons | function | savecounter | function |
| registercolor | function | savecurrentattributes | function |
| registercolorintent | function | savedlistnumber | function |
| registeredviewerlayer | function | savedlistprefixednumber | function |
| registerhelp | function | savedlisttitle | function |
| registeritemgroup | function | savefloat | function |
| registerlanguagefeatures | function | savenote | function |
| registerlinenumbering | function | saveobject | function |
| registermaintextcolor | function | saveparallel | function |
| registernamespace | function | savestructureblock | function |
| registerpostponedblock | function | savetaggedtwopassdata | function |

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

| | | | |
|-----------------------------|----------|----------------------------------|----------|
| setuplinenumbering | function | stopviewerlayer | function |
| setvisual | function | storejavascriptcode | function |
| setxmpfile | function | storejavascriptpreamble | function |
| showassignerror | function | storenote | function |
| showattributes | function | strdp | function |
| showbtxdatasetfields | function | strhd | function |
| showcallbacks | function | strht | function |
| showchardata | function | structureautocatcodedget | function |
| showcounter | function | structurecatcodedget | function |
| showfontparameters | function | structuregivencatcodedget | function |
| showhyphenatedinlist | function | structurenumber | function |
| showjustification | function | structuretitle | function |
| showmessage | function | structureuservariable | function |
| sin | function | structurevariable | function |
| sind | function | strwd | function |
| splitfilename | function | subcountervalues | function |
| spotcolorname | function | synchronizecolormodel | function |
| spotcolorparent | function | synchronizemarking | function |
| spotcolorvalue | function | taggedmathfunction | function |
| startchemical | function | tan | function |
| startcolorset | function | tand | function |
| startcomponent | function | testcase | function |
| startenvironment | function | textime | function |
| startfontsolution | function | thefirstcharacter | function |
| startparbuilder | function | theremainingcharacters | function |
| startproduct | function | thetexdefinition | function |
| startproject | function | transparencycomponents | function |
| startregime | function | triggereffect | function |
| startsectionlevel | function | triggernegative | function |
| starttag | function | truefilename | function |
| starttext | function | typebuffer | function |
| startviewerlayer | function | typefile | function |
| stopchemical | function | typestring | function |
| stopcolorset | function | uchexnumber | function |
| stopcomponent | function | uchexnumbers | function |
| stopenvironment | function | undefinechemical | function |
| stopfontsolution | function | unicodechar | function |
| stopparbuilder | function | unit | function |
| stopproduct | function | unloadlanguage | function |
| stopproject | function | upper | function |
| stopregime | function | useMPLibrary | function |
| stopsectionlevel | function | useanyfile | function |
| stoptag | function | usebtxdataset | function |
| stoptext | function | usecldfilename | function |

| | | | |
|-------------------------------------|----------|---|----------|
| <code>usecolors</code> | function | <code>x_table_init_reflow_height</code> | function |
| <code>usecomponent</code> | function | <code>x_table_init_reflow_width</code> | function |
| <code>useenvironment</code> | function | <code>x_table_next_row</code> | function |
| <code>usefile</code> | function | <code>x_table_r</code> | function |
| <code>usejavascriptpreamble</code> | function | <code>x_table_reflow_height</code> | function |
| <code>usejavascriptscripts</code> | function | <code>x_table_reflow_width</code> | function |
| <code>uselibrary</code> | function | <code>x_table_set_construct</code> | function |
| <code>useluafile</code> | function | <code>x_table_set_reflow_height</code> | function |
| <code>useluamodule</code> | function | <code>x_table_set_reflow_width</code> | function |
| <code>usemodules</code> | function | <code>year</code> | function |
| <code>usepath</code> | function | | |
| <code>useproduct</code> | function | | |
| <code>useproject</code> | function | | |
| <code>usesubpath</code> | function | | |
| <code>usesymbols</code> | function | | |
| <code>usetexfile</code> | function | | |
| <code>useurl</code> | function | | |
| <code>usexmlfile</code> | function | | |
| <code>usezipfile</code> | function | | |
| <code>utfchar</code> | function | | |
| <code>utfmathclass</code> | function | | |
| <code>utfmathcommand</code> | function | | |
| <code>utfmathcommandabove</code> | function | | |
| <code>utfmathcommandbelow</code> | function | | |
| <code>utfmathfiller</code> | function | | |
| <code>utfmathstretch</code> | function | | |
| <code>vboxlisttohbox</code> | function | | |
| <code>verbose</code> | function | | |
| <code>visual</code> | function | | |
| <code>vspacing</code> | function | | |
| <code>vspacingcollapse</code> | function | | |
| <code>vspacingdefine</code> | function | | |
| <code>vspacingsetamount</code> | function | | |
| <code>vspacingsnap</code> | function | | |
| <code>way</code> | function | | |
| <code>weekday</code> | function | | |
| <code>weekdayname</code> | function | | |
| <code>writestatus</code> | function | | |
| <code>x_table_c</code> | function | | |
| <code>x_table_cleanup</code> | function | | |
| <code>x_table_construct</code> | function | | |
| <code>x_table_create</code> | function | | |
| <code>x_table_flush</code> | function | | |
| <code>x_table_init_construct</code> | function | | |

containers (context)

| | |
|-------------------|----------|
| cleannname | function |
| content | function |
| define | function |
| is_usable | function |
| is_valid | function |
| read | function |
| usecache | boolean |
| write | function |

converters (context)

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

coroutine (basic lua)

| | |
|----------------|----------|
| create | function |
| resume | function |
| running | function |
| status | function |
| wrap | function |
| yield | function |

ctxrunner (context)

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

debug (basic lua)

| | |
|---------------------|----------|
| debug | function |
| gethook | function |
| getinfo | function |
| getlocal | function |
| getmetatable | function |
| getregistry | function |
| getupvalue | function |
| getuservalue | function |
| sethook | function |
| setlocal | function |
| setmetatable | function |
| setupvalue | function |
| setuservalue | function |
| traceback | function |
| upvalueid | function |
| upvaluejoin | function |

dir (context)

| | |
|-----------------------|----------|
| collectpattern | function |
| current | function |
| expandname | function |
| found | function |
| glob | function |
| globfiles | function |
| globpattern | function |
| ls | function |
| makedirs | function |
| mkdirs | function |
| pop | function |
| push | function |

directives (context)

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

document (context)

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

environment (context)

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

epdf (extra tex)

| | |
|---------------------|----------|
| Array | function |
| Dict | function |
| Object | function |
| PDFRectangle | function |
| open | function |
| type | function |

experiments (context)

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

figures (context)

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

file (basic lua)

| | |
|--------------------------|----------|
| addsuffix | function |
| basename | function |
| checksum | function |
| collapsepath | function |
| copy | function |
| dirname | function |
| expandname | function |
| extname | function |
| is_qualified_path | function |
| is_readable | function |
| is_rootbased_path | function |
| is_writable | function |
| isreadable | function |
| iswritable | function |
| join | function |
| joinpath | function |
| loadchecksum | function |
| nameonly | function |
| nametotable | function |
| needs Updating | function |
| needsupdating | function |
| pathpart | function |
| readdata | function |
| removesuffix | function |
| replacesuffix | function |
| reslash | function |
| robustname | function |
| savechecksum | function |
| savedata | function |
| size | function |
| splitbase | function |
| splitname | function |
| splitpath | function |
| strip | function |
| suffix | function |
| suffixes | function |
| suffixesonly | function |
| suffixonly | function |
| syncmtimes | function |

floats (context)

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

font (basic tex)

| | |
|-----------------|---------------------|
| current | function |
| define | function |
| each | function |
| fonts | table |
| frozen | function |
| getfont | overloaded function |
| id | function |
| max | function |
| nextid | function |
| read_tfm | function |
| read_vf | function |
| setfont | function |

fontloader (extra tex)

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

fonts (context)

| | | | |
|--------------------|-------|---------------------------|-----------|
| analyzers | table | | F report |
| T features | | | F reset |
| N blwf | | | T vectors |
| N fina | | constructors | table |
| N half | | F aftercopyingcharacters | |
| N init | | F applymanipulators | |
| N isol | | F assignmathparameters | |
| N medi | | B autocleanup | |
| N pref | | F beforecopyingcharacters | |
| N pstf | | D cache | |
| N rphf | | F calculatyscale | |
| D initializers | | F checkedfeatures | |
| D methods | | F checkedfilename | |
| F setstate | | F checkvirtualids | |
| T states | | F cleanupable | |
| N blwf | | F collectprocessors | |
| N fina | | D designsizes | |
| N half | | D dontembed | |
| N init | | F enhanceparameters | |
| N isol | | N factor | |
| N mark | | F finalize | |
| N medi | | F getfeatureaction | |
| N pref | | F hashfeatures | |
| N pstf | | F hashinstance | |
| N rest | | T hashmethods | |
| N rphf | | F normal | |
| B useunicodemarks | | F virtual | |
| checkers | table | F initializefeatures | |
| F getmissing | | T keys | |
| F missing | | T character | |
| cid | table | S depth | |
| F getmap | | S height | |
| F loadfile | | S italic | |
| collections | table | S width | |
| F checkenabled | | T description | |
| F clonevector | | T boundingbox | |
| F define | | S depth | |
| T definitions | | S height | |
| F prepare | | S width | |
| F process | | T parameters | |
| F registermain | | S ascender | |

| | | |
|--------------------------|-----------------------|----------|
| S descender | S encodingbytes | |
| S designsize | S filename | |
| T expansion | S finalized | |
| S auto | S fontname | |
| S shrink | S format | |
| S step | S fullname | |
| S stretch | S hasitalics | |
| S extendfactor | S hasmath | |
| S factor | S mathitalics | |
| S hfactor | S mode | |
| S mathsize | S name | |
| T protrusion | S noglyphnames | |
| S auto | S nostackmath | |
| S quad | S psname | |
| S scaledpoints | S textitalics | |
| S scriptpercentage | S virtualized | |
| S scriptscriptpercentage | D loadedfonts | |
| S size | S namemode | |
| S slantfactor | F newfeatures | |
| S slantperpoint | F newhandler | |
| T spacing | N noffontsloaded | |
| S extra | N nofsharedfonts | |
| S shrink | N nofsharedhashes | |
| S stretch | N nofsharedvectors | |
| S width | N privateoffset | |
| T synonyms | F readanddefine | |
| S em | F registerfeature | |
| S ex | B resolvevirtualtoo | |
| S extra_space | F scale | |
| S extraspace | F scaled | |
| S slant | F setfactor | |
| S space | F setname | |
| S space_shrink | B sharefonts | |
| S space_stretch | F trytosharefont | |
| S spaceshrink | N version | |
| S spacestretch | current | function |
| S x_height | currentid | function |
| S units | definers | table |
| S vfactor | F addlookup | |
| S xheight | F analyze | |
| T properties | F applypostprocessors | |
| S autoitalicamount | F checkedmode | |
| T cidinfo | F checkedscript | |
| S embedding | F current | |

| | | | |
|-----------------------|------------|-------------------------|--------------|
| S defaultlookup | | F mathematics | |
| F define | | F protrusions | |
| F getspecification | | F solutions | |
| F internal | | F treatments | |
| F loadfont | | F typefaces | |
| F makespecification | | F load | |
| T methods | | F prepare_features | |
| F install | | F register | |
| D variants | | F registerpostprocessor | |
| F read | | F report | |
| F register | | handlers | table |
| F registered | | T afm | |
| F registersplit | | B addkerns | |
| F resetnullfont | | B addligatures | |
| F resolve | | B addtexligatures | |
| T resolvers | | B autoprefixed | |
| F file | | D cache | |
| F name | | D features | |
| F spec | | T helpdata | |
| definetypeface | function | D bothkerned | |
| encodings | table | D leftkerned | |
| T agl | | D ligatures | |
| D cache | | D rightkerned | |
| F is_known | | D texligatures | |
| D known | | F load | |
| F load | | F setfeatures | |
| F make_unicode_vector | | B syncspace | |
| D math | | N version | |
| N version | | T otf | |
| expansions | data table | F addfeature | |
| formats | data table | D cache | |
| goodies | table | T chainhandlers | |
| D colorschemes | | F normal | |
| D data | | F verbose | |
| D designsizes | | F collectlookups | |
| D filenames | | F dataset | |
| F getcompositions | | S defaultbasealternate | |
| T list | | S defaultnodealternate | |
| F compositions | | D enhancers | |
| F designsizes | | D features | |
| F expansions | | F fileformat | |
| F featureset | | F getalternate | |
| F filenames | | T glists | |
| F files | | T handlers | |

| | | |
|---|----------------------|--------------|
| F contextchain | D math | |
| F devanagari_remove_joiners | D predefined | |
| F devanagari_reorder_matras | D whatever | |
| F devanagari_reorder_pre_base_reordering_consonants | hashes | table |
| F devanagari_reorder_reph | D characters | |
| F gpos_context | D csnames | |
| F gpos_contextchain | D descriptions | |
| F gpos_cursive | D dynamics | |
| F gpos_mark2base | D emwidths | |
| F gpos_mark2ligature | D exheights | |
| F gpos_mark2mark | D extensibles | |
| F gpos_pair | D features | |
| F gpos_single | D identifiers | |
| F gsub_alternate | D italics | |
| F gsub_context | D lastmathids | |
| F gsub_contextchain | D marks | |
| F gsub_ligature | D parameters | |
| F gsub_multiple | T processes | |
| F gsub_reversecontextchain | D properties | |
| F gsub_single | D quads | |
| F load | D resources | |
| F scriptandlanguage | T setdynamics | |
| F setcontextchain | D spaces | |
| F setdynamics | D spacings | |
| F setfeatures | D unicodes | |
| T statistics | D xheights | |
| D usedfeatures | helpers | table |
| T tables | F addprivate | |
| D baselines | F dimenfactor | |
| D features | F expandglyph | |
| D languages | F fontpatternhassize | |
| D scripts | F getdigitwidth | |
| N version | F getparameters | |
| T pfb | F getprivatenode | |
| T tfm | F hasprivate | |
| D features | F name | |
| F setfeatures | F nametoslot | |
| T vf | F setdigitwidth | |
| T combinations | F splitfontpattern | |
| F combine | iterators | table |
| T combiner | F characters | |
| D commands | F descriptions | |
| F find | F glyphs | |
| D helpers | loggers | table |

| | | | |
|---------------------------|------------|--------------------|------------|
| F add_placeholders | | nulldata | data table |
| T category_to_placeholder | | protrusions | data table |
| S ll | | readers | table |
| S lm | | F afm | |
| S lo | | F check_lua | |
| S lt | | F check_tfm | |
| S lu | | F dfont | |
| S mc | | F lua | |
| S me | | F opentype | |
| S mn | | F otf | |
| S nd | | F pfb | |
| S nl | | D sequence | |
| S no | | F tfm | |
| S pc | | F ttc | |
| S pd | | F ttf | |
| S pe | | select | table |
| S pf | | T data | |
| S pi | | F definetypeface | |
| S po | | T fallbacks | |
| S ps | | F filterinput | |
| S sc | | T methods | |
| S sk | | F default | |
| S sm | | F features | |
| S so | | F file | |
| F format | | F goodies | |
| F onetimemessage | | F name | |
| F register | | F selectfont | |
| F reportdefinedfonts | | F simplefonts | |
| F reportusedfeatures | | F spec | |
| mappings | table | F style | |
| F addtounicode | | F registerfallback | |
| F fromunicodel6 | | F searchfiles | |
| F loadfile | | specifiers | table |
| F loadline | | D contextmerged | |
| F loadlumtable | | F contextnumber | |
| F makenameparser | | D contextnumbers | |
| F reset | | D contextsetups | |
| F tounicodel6 | | F contexttostring | |
| F tounicodel6sequence | | F definecontext | |
| mp | table | F mergecontext | |
| D cache | | F presetcontext | |
| B inline | | F registercontext | |
| N version | | F showcontext | |
| names | data table | F splitcontext | |

D synonyms
D variants
symbols table
F uselibrary
tables table
tracers table
treatments table
F applyfixes
D data
S filename
F ignoredfile
F report
F trace
typefaces data table

functions (context)

dummy function

graphics (context)

backgrounds table

F calculatemultipar

F fetchmultipar

F pair

F path

F point

gzip (extra lua)

| | |
|---------------|----------|
| close | function |
| lines | function |
| load | function |
| open | function |
| save | function |
| suffix | function |

img (basic tex)

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

interactions (context)

attachments data table

fields table

F clone

F define

F defineset

F insert

general table

F getidentity

F setupidentity

help table

F collect

F reference

F register

javascripts table

F addtopreamble

F code

D codes

F flushpreambles

D functions

D preambles

F setpreamble

F storecode

F storepreamble

F usepreamblenow

F usescripts

linkedlists data table

pages table

F setpagetransition

F setupcanvas

references table

F setcloseddocument

F setclosepage

F setopendocument

F setopenpage

renderings data table

soundclips data table

interfaces (context)

| | |
|-----------------------------|------------|
| addvalidkeys | function |
| cachedsetups | data table |
| cachesetup | function |
| checkedspecification | 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 |
| output | function |
| pathseparator | string |
| popen | overloaded function |
| read | function |
| readall | 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

packversion number

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 getchecksum
- F makechecksum
- F save
- F setchecksum
- 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 | F found |
| associated | data table | F load |
| association | function | T methods |
| counters | data table | N threshold |
| current | function | |
| data | data table | |
| define | function | |
| frequencies | table | |
| | F averagecharwidth | |
| | F getdata | |
| 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 | |
| replacements | table | |
| | F add | |
| | F handler | |
| | F set | |
| righthyphenmin | function | |
| setexceptions | function | |
| setsynonym | function | |
| unload | function | |
| version | number | |
| words | table | |
| | F check | |
| | T data | |
| | F disable | |
| | F enable | |
| | T enablers | |
| | B enables | |

layouts (context)

status table

F isleftpage

F leftorrightpagection

lfs (extra lua)

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

libraries (context)

| | |
|------------------|------------|
| basiclua | data table |
| basictex | data table |
| builtin | data table |
| extralua | data table |
| extratex | data table |
| functions | data table |
| globals | data table |

lmx (context)

color function
convert function
convertfile function
convertstring function
einject function
eprint function
escape function
finalized function
finject function
fprint function
get function
getvariables function
htmfile function
html table

F a

F td

F th

include function
inherited table

S color-background-four

S color-background-one

S color-background-three

S color-background-two

S title

initialize function
inject function
lmxfile function
loadedfile function
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 |
| categories | function |
| direct | function |
| disable | function |
| enable | function |
| exporters | table |
| extendbanner | function |
| flush | function |
| help | function |
| messenger | function |
| new | function |
| newline | function |
| poptarget | function |
| pushtarget | function |
| report | function |
| reportbanner | function |
| reporter | function |
| reporters | table |
| F banner | |
| F export | |
| F help | |
| F info | |
| F lines | |
| F version | |
| reportline | function |
| reportlines | function |
| setformats | function |
| setformatters | function |
| setlogfile | function |
| setmessenger | function |
| setprocessor | function |
| setprogram | function |
| settarget | function |
| settimedlog | function |
| settranslations | function |
| show | function |
| show_close | function |
| show_load | function |
| show_open | function |
| simple | function |
| simpleline | function |

| | |
|--------------------------|----------|
| simplelines | function |
| start_page_number | function |
| status | function |
| stop_page_number | function |
| subdirect | function |
| subreport | function |
| system | function |
| texerrormessage | function |
| writer | function |

lpdf (context)

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

lpeg (basic lua)

| | | | |
|------------------------|------------|------------------------------|----------|
| B | function | splitat | function |
| C | function | splitter | function |
| Carg | function | stripper | function |
| Cb | function | times | function |
| Cc | function | tsplitat | function |
| Cf | function | tsplitter | function |
| Cg | function | type | function |
| Cmt | function | utfchartabletopattern | function |
| Cp | function | version | function |
| Cs | function | | |
| Ct | function | | |
| P | function | | |
| R | function | | |
| S | function | | |
| UP | function | | |
| UR | function | | |
| US | function | | |
| V | function | | |
| afterprefix | function | | |
| anywhere | function | | |
| append | function | | |
| balancer | function | | |
| beforesuffix | function | | |
| checkedsplit | function | | |
| counter | function | | |
| endstripper | function | | |
| finder | function | | |
| firstofsplit | function | | |
| frontstripper | function | | |
| instringchecker | function | | |
| is_lpeg | function | | |
| keeper | function | | |
| locale | function | | |
| match | function | | |
| oneof | function | | |
| patterns | data table | | |
| print | function | | |
| replacer | function | | |
| secondofsplit | function | | |
| setmaxstack | function | | |
| split | 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 |
| bytedata | data table |
| bytdone | table |
| collectgarbage | function |
| delay | function |
| finalize | function |
| firstbytecode | number |
| flush | function |
| flushdelayed | function |
| getbytecode | function |
| getluaname | function |
| lastbytecode | number |
| messages | data table |
| name | table |
| numbers | data table |
| registercode | function |
| registeredcodes | function |
| registerfinalizer | function |
| registername | function |
| setbytecode | function |
| setluaname | function |
| startupfile | string |
| version | string |

luatex (context)

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

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 |
| doifsetext | 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 | |

| | |
|----------------------|------------|
| F flush | |
| F reset | |
| F show | |
| F sort | |
| splitid | function |
| startraw | function |
| stopraw | function |
| store | function |
| strip | function |
| stripped | function |
| tag | function |
| text | function |
| tofile | function |
| toparameters | function |
| toverbatim | function |
| verbatim | function |
| withindex | function |
| xmltexhandler | data table |

math (basic lua)

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

mathematics (context)

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

mbox (context)

| | |
|----------------------|----------|
| parse | function |
| parse_from | function |
| parse_header | function |
| parse_headers | function |
| parse_message | function |
| split_headers | function |
| split_mbox | function |
| split_message | function |

md5 (extra lua)

| | |
|----------------|----------|
| HEX | function |
| crypt | function |
| dec | function |
| decrypt | function |
| exor | function |
| hex | function |
| sum | function |
| sumhexa | function |

metapost (context)

analyzeplugins function
checkformat function
checktexts function
collapse boolean
colorinitializer function
convert function
defaultformat string
defaultinstance string
defaultmethod string
directrun function
edefsxsy function
escaped function
exectime table
extensiondata data table
filterclippath function
finder function
flush function
flushers table
 T pdf
 F comment
 F flushfigure
 F startfigure
 F stopfigure
 F textfigure
flushliteral function
flushnormalpath function
flushreset function
fonts table
 F define
 T flusher
 F flushfigure
 F startfigure
 F stopfigure
 N instances
 F process
format function
format_number function
format_string function
formatnumber function
getclippath function
getextensions function

gettext function
graphic function
graphic_base_pass function
instance function
intermediate table
 T actions
 F makempy
lastlog string
llx number
lly number
load function
makempy table
 N nofconverted
 F processgraphics
 F registerfile
metafun table
 F interpolate
 F topath
method number
mptopdf table
 F convertmptopdf
 N nofconverted
multipass boolean
n number
nvformat function
optimize boolean
parse function
pdfliterals function
pluginactions function
process function
processplugins function
processspecial function
quickanddirty function
reducetogray boolean
reporterror function
reset function
resetlastlog function
resetplugins function
resettetexts function
setextensions function
setoutercolor function

| | |
|----------------------|----------|
| settext | function |
| settetexts | function |
| showlog | boolean |
| svformat | function |
| tex | table |
| F get | |
| F reset | |
| F set | |
| texerrors | boolean |
| textextsdata | function |
| theclippath | function |
| totable | function |
| unload | function |
| untagvariable | function |
| urx | number |
| ury | number |
| variables | table |

mime (extra lua)

b64 function

decode function

decodet table

F base64

F quoted-printable

dot function

encode function

encodet table

F base64

F quoted-printable

eol function

normalize function

qp function

qpwrp function

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

noads (context)

handlers table

- F check
- F classes
- F collapse
- F families
- F italics
- F relocate
- F render
- F resize
- F showtree
- F tags
- F unscript
- F variants

process function

processors table

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

node (basic tex)

| | | | |
|------------------------|----------|------------------------|----------|
| copy | function | F set_attribute | |
| copy_list | function | F setbox | |
| count | function | F setfield | |
| current_attr | function | F slide | |
| dimensions | function | F tail | |
| direct | table | F todirect | |
| F copy | | F tonode | |
| F copy_list | | F tostring | |
| F count | | F traverse | |
| F current_attr | | F traverse_id | |
| F dimensions | | F unprotect_glyphs | |
| F do_ligature_n | | F unset_attribute | |
| F end_of_math | | F usedlist | |
| F first_glyph | | F vpack | |
| F flush_list | | F write | |
| F flush_node | | do_ligature_n | function |
| F free | | end_of_math | function |
| F getbox | | family_font | function |
| F getchar | | fields | function |
| F getfield | | first_character | function |
| F getfont | | first_glyph | function |
| F getid | | flush_list | function |
| F getleader | | flush_node | function |
| F getlist | | free | function |
| F getnext | | getchar | function |
| F getprev | | getfield | function |
| F getsubtype | | getfont | function |
| F has_attribute | | getid | function |
| F has_field | | getleader | function |
| F has_glyph | | getlist | function |
| F hpack | | getnext | function |
| F insert_after | | getprev | function |
| F insert_before | | getsubtype | function |
| F is_direct | | has_attribute | function |
| F is_node | | has_field | function |
| F last_node | | has_glyph | function |
| F length | | hpack | function |
| F new | | id | function |
| F protect_glyphs | | insert_after | function |
| F protrusion_skippable | | insert_before | function |
| F remove | | is_node | function |

| | |
|-----------------------------|----------|
| kerning | function |
| last_node | function |
| length | function |
| ligaturing | function |
| mlist_to_hlist | function |
| new | function |
| next | function |
| prev | function |
| protect_glyphs | function |
| protrusion_skippable | function |
| remove | function |
| set_attribute | function |
| setfield | function |
| slide | function |
| subtype | function |
| tail | function |
| tostring | function |
| traverse | function |
| traverse_id | function |
| type | function |
| types | function |
| unprotect_glyphs | function |
| unset_attribute | function |
| usedlist | function |
| vpack | function |
| whatsits | function |
| write | function |

nodes (context)

| | | | |
|---------------------------|------------|-------------------------------|------------|
| accentcodes | data table | getattribute | function |
| aligned | function | getbox | function |
| append | function | getchar | function |
| astable | function | getfield | function |
| basepoints | function | getfont | function |
| builders | table | getid | function |
| F buildpage_filter | | getleader | function |
| F vpack_filter | | getlist | function |
| codes | data table | getnext | function |
| concat | function | getprev | function |
| copy | function | getskip | function |
| copy_list | function | getsubtype | function |
| count | function | gluecodes | data table |
| current_attr | function | glyphcodes | data table |
| delete | function | glyphdir_is_equal | data table |
| destinations | table | glyphdir_is_opposite | data table |
| N attribute | | glyphdir_is_orthogonal | data table |
| T done | | gonuts | boolean |
| F handler | | handlers | table |
| T stack | | F accessibility | |
| dimensionfields | data table | F alignbackgrounds | |
| dimensions | function | F backgrounds | |
| dir_is_pop | data table | F characters | |
| dir_negation | data table | F checkforleaks | |
| disccodes | data table | F checkglyphs | |
| discretionarycodes | data table | F cleanupbox | |
| do_ligature_n | function | F cleanuppage | |
| end_of_math | function | F export | |
| fasthpack | function | F finalize | |
| fencecodes | data table | F migrate | |
| fields | function | F protectglyphs | |
| fillcodes | data table | F stripping | |
| first_character | function | F unprotectglyphs | |
| first_glyph | function | has_attribute | function |
| firstcharacter | function | has_field | function |
| firstcharinbox | function | has_glyph | function |
| firstglyph | function | hpack | function |
| flush_list | function | idstosting | function |
| flush_node | function | ignorablefields | data table |
| free | function | injections | table |
| getattr | function | F handler | |

| | | | |
|--------------------------------|------------|-----------------------|------------|
| F installnewkern | | mathcodes | data table |
| F setcursive | | mlist_to_hlist | function |
| F setkern | | new | function |
| F setmark | | noadcodes | data table |
| F setpair | | nodecodes | data table |
| insert_after | function | nopts | function |
| insert_before | function | nuts | table |
| insert_list_after | function | F append | |
| installattributehandler | function | F concat | |
| is_direct | function | F copy | |
| is_display_math | function | F copy_list | |
| is_mirrored | data table | F count | |
| is_node | function | F current_attr | |
| is_nut | function | F delete | |
| is_rotated | data table | F dimensions | |
| kerncodes | data table | F do_ligature_n | |
| kertering | function | F end_of_math | |
| keys | table | F fasthpack | |
| T whatsit | | F first_glyph | |
| last_node | function | F firstcharacter | |
| leftmarginwidth | function | F firstcharinbox | |
| ligaturing | function | F firstglyph | |
| lines | table | F flush_list | |
| T boxed | | F flush_node | |
| F register | | F free | |
| F setup | | F getattr | |
| F stage_one | | F getattribute | |
| F stage_two | | F getbox | |
| F stage_zero | | F getchar | |
| D data | | F getfield | |
| F finalize | | F getfont | |
| F number | | F getid | |
| N scratchbox | | F getleader | |
| link | function | F getlist | |
| linked | function | F getnext | |
| list | function | F getprev | |
| listablefields | data table | F getskip | |
| listcodes | data table | F getsubtype | |
| listtoutf | function | F has_attribute | |
| load | function | F has_field | |
| locate | function | F has_glyph | |
| margincodes | data table | F hpack | |
| markers | table | F insert_after | |
| F get | | F insert_before | |

| | |
|---------------------|------------------------|
| F insert_list_after | F temp |
| F is_direct | F textdir |
| F is_display_math | F usage |
| F is_node | T usersids |
| F is_nut | N margins.inline |
| F kerning | N splitters.one |
| F last_node | N splitters.two |
| F leftmarginwidth | F userlist |
| F ligaturing | F usernumber |
| F link | F userstring |
| F linked | F usertokens |
| F locate | F vlist |
| F mlist_to_hlist | F zeroglue |
| F new | F prepend |
| T pool | F protect_glyphs |
| F baselineskip | F protrusion_skippable |
| F cleanup | F reference |
| F disc | F remove |
| F fontkern | F repackhlist |
| F glue | F replace |
| F gluespec | F rightmarginwidth |
| F glyph | F set_attribute |
| F hlist | F setattr |
| F kern | F setattribute |
| F latelua | F setattributes |
| F leftmarginkern | F setbox |
| F leftskip | F setfield |
| F lineskip | F setunsetattributes |
| F noad | F slide |
| F pdfannotation | F somepenalty |
| F pdfdestination | F somespace |
| F pdfdirect | F tail |
| F pdfliteral | F tonode |
| F pdfrestore | F tonodes |
| F pdfsave | F tonut |
| F pdfsetmatrix | F toString |
| F penalty | F traverse |
| F register | F traverse_id |
| F rightmarginkern | T typesetters |
| F rightskip | F fast_hpack |
| F rule | F hpack |
| F shrink | F tohpack |
| F special | F tohpackfast |
| F stretch | F tonodes |

| | | | |
|----------------------------|------------|-----------------------------|----------|
| F tovpack | | F register | |
| F tovpackfast | | F rule | |
| F vpack | | F special | |
| F unprotect_glyphs | | F usage | |
| F unset_attribute | | T usersids | |
| F unsetattribute | | N margins.inline | |
| F unsetattributes | | N splitters.one | |
| F usedlist | | N splitters.two | |
| F vianodes | | prepend | function |
| F vianuts | | print | function |
| F vpack | | processors | table |
| F writable_spec | | B enabled | |
| F write | | F hpack_filter | |
| packlist | function | F post_linebreak_filter | |
| paddir_is_equal | data table | F pre_linebreak_filter | |
| paddir_is_opposite | data table | F tracer | |
| paddir_is_parallel | data table | processwords | function |
| partextdir_is_equal | data table | protect_glyphs | function |
| penaltycodes | data table | protrusion_skippable | function |
| plugindata | table | pts | function |
| F finalizer | | reference | function |
| F initializer | | references | table |
| S name | | N attribute | |
| T namespace | | T done | |
| N attribute | | F handler | |
| D data | | T stack | |
| F enable | | remove | function |
| F handler | | repackhlist | function |
| F register | | replace | function |
| D registered | | report | function |
| D values | | rightmarginwidth | function |
| F processor | | rules | table |
| points | function | D data | |
| pool | table | F define | |
| F baselineskip | | F enable | |
| F cleanup | | F handler | |
| F glyph | | save | function |
| F kern | | serialize | function |
| F latelua | | serializebox | function |
| F lineskip | | set_attribute | function |
| F pdfannotation | | setattr | function |
| F pdfdestination | | setattribute | function |
| F pdfliteral | | setattributes | function |
| F pdfsetmatrix | | setbox | function |

| | | | |
|---------------------------|------------|----------------------------|------------|
| setfield | function | texmdir_is_opposite | data table |
| setunsetattributes | function | texmdir_is_parallel | data table |
| shifts | table | tobasepoints | function |
| D data | | tocentimeters | function |
| F define | | tociceros | function |
| F enable | | todidots | function |
| F handler | | todimen | function |
| show | function | toinches | function |
| showboxes | function | tomillimeters | function |
| showcodes | function | tonewciceros | function |
| showlist | function | tonewdidots | function |
| showsimplelist | function | tonode | function |
| skipcodes | data table | tonodes | function |
| slide | function | tonut | function |
| snapshots | table | topicas | function |
| F getparameters | | topoints | function |
| F getsamples | | toscaledpoints | function |
| F resetsamples | | tosequence | function |
| F takesample | | tostring | function |
| somepenalty | function | totable | function |
| somespace | function | totree | function |
| stripping | table | toutf | function |
| T glyphs | | tracers | table |
| F set | | T characters | |
| striprange | function | F collect | |
| tail | function | F equal | |
| tasks | table | F indices | |
| F actions | | F start | |
| F appendaction | | F string | |
| F disableaction | | F unicodes | |
| F disablegroup | | T colors | |
| F enableaction | | F reset | |
| F enablegroup | | F set | |
| F freeze | | F setlist | |
| F freezegroup | | F fontchar | |
| F new | | T frequencies | |
| F prependaction | | F register | |
| F removeaction | | T pool | |
| F restart | | T nodes | |
| F setaction | | F rule | |
| F showactions | | T nuts | |
| F table | | F rule | |
| texmdir_is_equal | data table | F resetproperties | |
| texmdir_is_is | data table | F rule | |

| | | | |
|-------------------------|----------|----------------------|------------|
| F setlist | | F setlayer | |
| F setproperties | | F setvisual | |
| F start | | vpack | function |
| T steppers | | whatcodes | data table |
| F check | | whatsitcodes | data table |
| F codes | | writable_spec | function |
| F features | | write | function |
| F font | | | |
| F glyphs | | | |
| F message | | | |
| F messages | | | |
| F nofsteps | | | |
| F register | | | |
| F reset | | | |
| F start | | | |
| F stop | | | |
| F stop | | | |
| T transparencies | | | |
| F reset | | | |
| F set | | | |
| F setlist | | | |
| traverse | function | | |
| traverse_id | function | | |
| typesetters | table | | |
| F hpack | | | |
| F tohpack | | | |
| F tohpackfast | | | |
| F tonodes | | | |
| F tovpack | | | |
| F tovpackfast | | | |
| F vpack | | | |
| unprotect_glyphs | function | | |
| unset_attribute | function | | |
| unsetattribute | function | | |
| unsetattributes | function | | |
| usedlist | function | | |
| vianodes | function | | |
| vianuts | function | | |
| visualizebox | function | | |
| visualizers | table | | |
| F box | | | |
| F handler | | | |
| F markfonts | | | |
| F setfont | | | |

number (context)

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

os (basic lua)

| | | | |
|---------------------|---------------------|----------------------|----------|
| __getenv__ | function | uname | function |
| __setenv__ | function | uuid | function |
| binsuffix | string | validdatetime | function |
| binsuffixes | table | weekday | function |
| clock | function | where | function |
| converttime | function | which | function |
| date | function | | |
| difftime | function | | |
| env | data table | | |
| exec | overloaded function | | |
| execute | overloaded function | | |
| exit | function | | |
| fulltime | function | | |
| getenv | overloaded function | | |
| gettimeofday | function | | |
| isleapyear | function | | |
| launch | function | | |
| libsuffix | string | | |
| localtime | function | | |
| name | string | | |
| nofdays | function | | |
| now | function | | |
| platform | string | | |
| remove | function | | |
| rename | function | | |
| resolvers | table | | |
| F bits | | | |
| resultof | function | | |
| runtime | function | | |
| selfdir | string | | |
| setenv | overloaded function | | |
| setlocale | overloaded function | | |
| sleep | function | | |
| spawn | overloaded function | | |
| time | function | | |
| times | function | | |
| timezone | function | | |
| tmpdir | function | | |
| tmpname | function | | |
| today | function | | |
| type | string | | |

package (basic lua)

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

pagebuilders (context)

injections table

F flushafter
F flushbefore
F save

mixedcolumns table

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

pdf (basic tex)

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

pdfscanner (context)

scan function

physics (context)

units table

D tables

profiler (extra lua)

pause function
resume function
start function
stop function

publications (context)

| | | | |
|------------------------|------------|-------------------------|----------|
| addtexentry | function | T sorters | |
| analyze | function | F dataset | |
| authors | table | F default | |
| F concat | | F short | |
| F inverted | | listvariants | table |
| F invertedshort | | F default | |
| F normal | | F num | |
| F normalshort | | F short | |
| F setsettings | | load | function |
| F short | | loadbibdata | function |
| F sorted | | loaders | table |
| F splitstring | | F bib | |
| citeconcat | function | F endnote | |
| citevariants | table | F lua | |
| F author | | F refman | |
| F authornum | | F xml | |
| F authoryear | | markasupdated | function |
| F authoryears | | new | function |
| F default | | refman_to_btx | function |
| F num | | singularorplural | function |
| F page | | statistics | table |
| F serial | | N nofbytes | |
| F short | | N nofdatasets | |
| collected | data table | N nofdefinitions | |
| converttoxml | function | N nofshortcuts | |
| datasets | table | tracers | table |
| endnotes_to_btx | function | T categories | |
| enhance | function | T citevariants | |
| getindex | function | T fields | |
| listconcat | function | T listvariants | |
| lists | table | F showdatasetfields | |
| F collectentries | | | |
| F doifalreadyplaced | | | |
| F fetchentries | | | |
| F filterall | | | |
| F flushentries | | | |
| F nofregistered | | | |
| F register | | | |
| F registerplaced | | | |
| F resolve | | | |
| F setmethod | | | |

regimes (context)

| | |
|------------------|----------|
| cleanup | function |
| disable | function |
| enable | function |
| pop | function |
| process | function |
| push | function |
| toregime | function |
| translate | 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 cleannname | |
| luacnfname | string | F fetchstring | |
| luacnfspec | string | F fetchtable | |
| luacnfstate | string | F install | |
| macros | table | setenv | function |
| F convertfile | | setinstance | function |
| F decodecomment | | showpath | function |
| F enablecomment | | simplescanfiles | function |
| F encodecomment | | splitconfigurationpath | function |
| F preprocessed | | splitexpansions | function |
| F processmk | | splitmethod | function |
| F processmkvi | | splitpath | function |
| F version | | suffixes | data table |
| maxreadlevel | number | suffixmap | data table |
| methodhandler | function | suffixofformat | function |
| newinstance | function | texdatablob | function |
| openbinfile | function | toppath | function |
| openers | data table | unexpandedpath | function |
| openfile | function | unexpandedpathlist | function |
| opentexfile | function | unresolve | function |
| ownpath | string | updaterelations | function |
| prefixes | data table | updatescript | function |
| prependhash | function | usezipfile | function |
| registerextrapath | function | validatedpath | function |
| registerfile | function | variable | function |
| registerfilehash | function | variableofformat | function |

variableofformatorsuffix

function

wildcardpattern

function

scripts (context)

autofontfeature table
 F disable
 F enable
 F handler

categorytonumber data table

colors data table

decomposehangul function

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

handlers data table

hash table

injectors data table

installdataset function

installmethod function

numbertocategory data table

numbertodataset data table

numbertohandler data table

reset function

set function

splitters data table

set (context)

contains function
create function
tolist function
tonumber function
totable function

socket (extra lua)

BLOCKSIZE number
_DEBUG boolean
_SETSIZE number
bind function
choose function
connect function
connect4 function
connect6 function
dns table

F getaddrinfo
F gethostname
F getnameinfo
F tohostname
F toip

ftp table

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

gettime function
headers table

T canonic
S accept
S accept-charset
S accept-encoding
S accept-language
S accept-ranges
S action
S age
S allow
S alternate-recipient
S arrival-date
S authorization
S bcc
S cache-control
S cc
S comments

S connection
S content-description
S content-disposition
S content-encoding
S content-id
S content-language
S content-length
S content-location
S content-md5
S content-range
S content-transfer-encoding
S content-type
S date
S diagnostic-code
S dsn-gateway
S etag
S expect
S expires
S final-log-id
S final-recipient
S from
S host
S if-match
S if-modified-since
S if-none-match
S if-range
S if-unmodified-since
S in-reply-to
S keywords
S last-attempt-date
S last-modified
S location
S max-forwards
S message-id
S mime-version
S original-envelope-id
S original-recipient
S pragma
S proxy-authenticate
S proxy-authorization
S range

S received
 S received-from-mta
 S references
 S referer
 S remote-mta
 S reply-to
 S reporting-mta
 S resent-bcc
 S resent-cc
 S resent-date
 S resent-from
 S resent-message-id
 S resent-reply-to
 S resent-sender
 S resent-to
 S retry-after
 S return-path
 S sender
 S server
 S smtp-remote-recipient
 S status
 S subject
 S te
 S to
 S trailer
 S transfer-encoding
 S upgrade
 S user-agent
 S vary
 S via
 S warning
 S will-retry-until
 S www-authenticate
 S x-mailer

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

tcp6 function

tp table

N TIMEOUT
 F connect

try function

udp function

udp6 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 |
| elapsed | function |
| elapsedindeed | function |
| elapsedseconds | function |
| elapsedtime | function |
| enable | boolean |
| formatruntime | function |
| hastiming | function |
| memused | function |
| register | function |
| resettiming | function |
| runtime | function |
| savefmtstatus | function |
| show | function |
| starttiming | function |
| stoptiming | function |
| threshold | number |
| timed | function |
| tracefunction | function |

status (basic tex)

list function

storage (context)

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

streams (context)

| | |
|--------------------|----------|
| collect | function |
| disable | function |
| enable | function |
| flush | function |
| initialize | function |
| push | function |
| start | function |
| stop | function |
| synchronize | function |

string (basic lua)

autodouble function
autosingle function
booleanstring function
byte function
bytepairs function
bytes function
char function
characterpairs function
characters function
checkedsplit function
collapsespaces function
count function
dump function
escapedpattern function
explode function
find function
format function
formatter function
formatters function

```
F {t},
F %t (%t)
F %-t--cycle
F %-10s: %s
F %-15s :
F %-15s : %s
F %-15s >
F %-15s >
F %-15s > %s
F %-15s > %s
F %-15s > %s >
F %-15s > %s >
F %-15s > %s > %s
F %.3f %.3f %.3f %.3f k %.3f %.3f %.3f %.3f K
F %.3f %.3f %.3f rg %.3f %.3f %.3f RG
F %.3f g %.3f G
F %0.1fpt
F %0.8f %0.8f %0.8f %0.8f
F %U
F %U (%s)
F %a loaded
```

```
F %f %f %f %f %f %f %f cm
F %l,
F %p
F %q,
F %s
F %S %s
F %S %S %s
F %S %S %S %t
F %S %S %S %S
F %S Tc %S w %S Tr
F %s mul
F %s%s%s
F %s,
F %s--%s
F %s->%s->%s
F %s->%s->%s->%s->%s->%s->%s
F %s:%s
F %s:%s:%s
F %s=%q
F %s={
F %w%l,
F %w%q,
F %w%S,
F %w[%l]=%l,
F %w[%l]=%q,
F %w[%l]=%s,
F %w[%l]={
F %w[%l]={%, t },
F %w[%l]={},
F %w[%q]=%l,
F %w[%q]=%q,
F %w[%q]=%s,
F %w[%q]={
F %w[%q]={%, t },
F %w[%q]={},
F %w[%s]=%l,
F %w[%s]=%q,
F %w[%s]=%s,
F %w[%s]={
F %w[%s]={%, t },
F %w[%s]={},
```



```

F %w{
F %w{% , t },
F %w{ },
F %w{ ,
F (%p,%p)
F /%s %s
F /%s << %t >>
F /%s [ %t ]
F /%s cs /%s CS %s SCN %s scn
F /Tr%s gs
F 1 0 0 0 1 %f %f cm
F << %t >>
F << /Type /Annot %s /Rect [%0.3f %0.3f %0.3f %0.3f] >>
F M-H-%H
F M-N-%H
F MpSh%s
F Tr%s
F U+%04X:%s
F [ %t ]
F [%q]=
F [%q]=%l,
F [%q]=%q,
F [%q]=%s,
F [%q]={
F [%s]=
F [%s]=%l,
F [%s]=%q,
F [%s]=%s,
F [%s][%s]
F \Umathchardef\%s "%X "%X "%X
F \convertnumber{%s}{%s}
F \ugdef\%s{\Udelimitor "%X "%X "%X }
F \ugdef\%s{\Udelimitor 0 "%X "%X }
F \ugdef\%s{\Udelimitorover "%X "%X }
F \ugdef\%s{\Udelimitorunder "%X "%X }
F \ugdef\%s{\Umathaccent 0 "%X "%X }
F \ugdef\%s{\Umathbotaccent 0 "%X "%X }
F \ugdef\%s{\Uradical "%X "%X }
F \ugdef\%s{\Uroot "%X "%X }
F _bpnf_(%s,%s,%s,'%s')
T _extensions_
S chruni
S font:features
S font:name

S lua
S tex
S unichr
S xml
F _plib_.b_col(%q)
F _plib_.b_region(%q)
F _plib_.e_col()
F _plib_.e_region(%s)
F _plib_.enhance(%q)
S _preamble_
S _type_
F a=%1.3f%st=%1.3f
F b:%s
F buffer.%s
F c:%s:%s:%s:%s
F c=%1.3f%sm=%1.3f%sy=%1.3f%sk=%1.3f
F chem_%s%s(%s,%s,"\chemicaltext{%s}");
F chem_%s%s(%s,%s,%s,%s,%s);
F chem_%s(%s,%s,"");
F chem_%s(%s,%s,%s);
F chem_c%s(%s,%s,"");
F chem_set(%s);
F chem_start_structure(%s,%s,%s,%s,%s,%s,%s,%s,%s,%s,%s,%s);
F chem_symbol("\chemicalsymbol[equilibrium]{%s}{%s}");
F chem_symbol("\chemicalsymbol[gives]{%s}{%s}");
F chem_symbol("\chemicalsymbol[mesomeric]{%s}{%s}");
F chem_symbol("\chemicaltext{%s}");
F chem_trace_boundingbox := %l ;
F d:%s:%s:%s
F dup %s mul exch dup %s mul exch %s mul
F dup %s mul exch dup %s mul exch dup %s mul exch %s mul
F e:%s
F flushing realpage %s, userpage %s
F jobname %a, input %a, result %a
F lang-frq-%s.lua
F language %a is active
F mfun_tt_w[%i] := %f ; mfun_tt_h[%i] := %f ; mfun_tt_d[%i] := %f ;
F multilocs[%s] := %s ; multikind[%s] := "%s" ; multipars[%s] := %s ;
F multiregs[%s] := (%--t--cycle) shifted - %s ;
F p:%s
F p:%s:%s:%s:%s
F p=%1.3f
F p=%s
F path multiregs[], multipars[], multibox ; string multikinds[]

```

```

F path posboxes[], posregions[] ; numeric pospages[] ; notpattern posboxes ; notpattern posregions := %s ; %t ;
F pdf: q 1 0 %f 1 0 0 cm
F pospages[%s] := %s ; posboxes[%s] := (%p,%p)--(%p,%p)--(%p,%p)--(%p,%p)--(%p,%p)--(%p,%p)--(%p,%p)--(%p,%p)--(%p,%p)--(%p,%p)
F processed mkvi file %a, delta %s
F q %f %f %f %f %f %f %f cm
F r:%s:%s:%s
F r=%1.3f%sg=%1.3f%sb=%1.3f
F region:%s
F return {
F return {%t}
F s:%s
F s=%1.3f
F setbounds currentpicture to multibox ;
F unknown reference %a
F using file %a
F visualizers.%s
F w:%s
F {
F }

gmatch      function
gsub        function
is_boolean  function
is_empty    function
itself      function
len         function
limit       function
longtostring function
lower       function
match       function
nspaces     table
quote       function
quoted      function
rep         function
reverse     function
split       function
splitlines  function
splitup     function
strip       function
sub         function
tformat     function
toboollean  function
tocontext   function
todimen     function
tonodes     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
B autoreorder
D cached
D collected
F discard
F enhance
T enhancers
F filter
F filtercollected
F formulanumber
F groupindex
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
F reordered
T result
D sectionblocks
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

F analyze
D collected
F is_odd
F number
F save
D tobesaved

table

references

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

table

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 getcurrentlevel | |
| F page | | F getlevel | |
| F realpage | | F getnumber | |
| F section | | F internalreference | |
| F userpage | | D levelmap | |
| D tobereferred | | D levels | |
| D tobesaved | | F load | |
| T urls | | F matchingtilldepth | |
| T data | | F numeratdepth | |
| F define | | F numbers | |
| F get | | F popblock | |
| F valid | | F prefixedconverted | |
| F whatfrom | | F pushblock | |
| registers | table | F register | |
| F analyze | | D registered | |
| F analyzed | | F reportstructure | |
| D collected | | F save | |
| F compare | | T sectionblockdata | |
| F define | | T bodypart | |
| F enhance | | S bookmark | |
| F extend | | F set | |
| F filter | | F setblock | |
| F filtercollected | | F setchecker | |
| F finalize | | F setlevel | |
| F flush | | F setnumber | |
| F prepare | | F somelevel | |
| F process | | F structuredata | |
| F sort | | F title | |
| F store | | D tobesaved | |
| D tobesaved | | F typesetnumber | |
| F unique | | F userdata | |
| F userdata | | B verbose | |
| sections | table | sets | table |
| F autodepth | | F define | |
| F cct | | F get | |
| D collected | | F getall | |
| F current | | D setlist | |
| F currentblock | | specials | table |
| F currentid | | D collected | |
| F currentlevel | | F retrieve | |
| F depthnumber | | F store | |
| F finddata | | D tobesaved | |
| F findnumber | | synonyms | table |
| F fullnumber | | 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

table

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

| | | | |
|--------------------------|----------|-----------------------------|----------|
| allkeys | function | setmetatablenewindex | function |
| append | function | sort | function |
| are_equal | function | sorted | function |
| autokey | function | sortedhash | function |
| compact | function | sortedhashkeys | function |
| concat | function | sortedkeys | function |
| contains | function | sortedpairs | function |
| copy | function | strip | function |
| count | function | sub | function |
| derive | function | swapped | function |
| deserialize | function | tocontext | function |
| drop | function | tocsv | function |
| fastcopy | function | tofile | function |
| fastserialize | function | tohandle | function |
| flattened | function | tohash | function |
| fromhash | function | toxml | function |
| getmetatablekey | function | twowaymapper | function |
| has_one_entry | function | unique | function |
| identical | function | unnest | function |
| imerge | function | unpack | function |
| merged | function | values | function |
| insert | function | | |
| is_empty | function | | |
| keys | function | | |
| load | function | | |
| loweredkeys | function | | |
| merge | function | | |
| merged | function | | |
| mirrored | function | | |
| pack | function | | |
| prepend | function | | |
| print | function | | |
| remove | function | | |
| reverse | function | | |
| reversed | function | | |
| save | function | | |
| sequenced | function | | |
| serialize | function | | |
| setmetatablecall | function | | |
| setmetatableindex | function | | |
| setmetatablekey | function | | |

tex (basic tex)

| | | | |
|-------------------------|------------|----------------------|------------|
| attribute | table | istoken | function |
| badness | function | lccode | table |
| box | table | linebreak | function |
| catcode | table | lists | table |
| conditionals | data table | luacatcodes | number |
| constants | data table | mathcode | table |
| count | table | modes | data table |
| ctxcatcodes | number | nest | table |
| definefont | function | nilcatcodes | number |
| delcode | table | notcatcodes | number |
| dimen | table | number | function |
| directives | data 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 | setlccode | function |
| getskip | function | setlist | function |
| gettoks | function | setmath | function |
| getuccode | function | setmathcode | function |
| hashtokens | function | setnest | function |
| ifs | data table | setsfcode | function |
| inicatcodes | number | setskip | function |
| iscount | function | settoks | function |
| isdimen | function | setuccode | function |
| isskip | function | sfcode | table |

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

texconfig (basic tex)

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

texio (basic tex)

`write` function

`write_nl` function

token (basic tex)

| | |
|----------------------|----------|
| command_id | function |
| command_name | function |
| create | function |
| csname_id | function |
| csname_name | function |
| expand | function |
| get_next | function |
| is_activechar | function |
| is_expandable | function |
| is_protected | function |
| lookup | 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 |
| printerror | function |
| showlines | function |
| strings | table |

S undefined

| | |
|-------------|----------|
| toks | function |
| type | function |

trackers (context)

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

typesetters (context)

| | | | |
|-----------------------|-------|-------------------|------------------|
| alignments | table | | F installhandler |
| | | | F processmath |
| | | | F set |
| breakpoints | table | | F setcolor |
| | | | F setmath |
| | | | F tomode |
| | | firstlines | table |
| | | | T actions |
| | | | F default |
| | | | F line |
| | | | F word |
| cases | table | | F handler |
| | | | F set |
| | | initials | table |
| | | | T actions |
| | | | F default |
| characteralign | table | | F handler |
| | | | F set |
| | | italics | table |
| | | | F forcevariant |
| | | | F handler |
| characters | table | | F reset |
| | | | F set |
| | | kerns | table |
| | | | D factors |
| checkers | table | | F handler |
| | | | F keepligature |
| | | | B keptogether |
| | | | D mapping |
| cleaners | table | | F set |
| | | margins | table |
| | | | F finalhandler |
| digits | table | | F globalhandler |
| | | | F ha |
| | | | F localhandler |
| directions | table | | F save |
| | | processors | table |
| | | | F apply |
| | | | F register |
| | | | F reset |
| | | | F split |

F startapply

F stopapply

F stripped

F toString

spacings table

F define

F handler

D mapping

T numbers

 T frenchpunctuation

 T characters

 S name

 N number

F reset

F set

F setup

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

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

utf8 table

F byte
F char
F characters
F chrln
F count
F dump
F filetype
F find
F format
F gfind
F gmatch
F gsub
F is_valid
F len
F length
F lower
F magic
F match
F remapper
F rep
F replacer
F reverse
F split
F splitlines
F sub
F subtituter
F tocodes
F toeight
F toentities
F toString
F totable
F upper
F ustring

- F utf16_to_utf8
- F utf16_to_utf8_be
- F utf16_to_utf8_le
- F utf32_to_utf8
- F utf32_to_utf8_be
- F utf32_to_utf8_le
- F utf8_to_utf16
- F utf8_to_utf16_be
- F utf8_to_utf16_le
- F utf8_to_utf8
- F values
- F xstring

url (context)

| | |
|--------------------|----------|
| addscheme | function |
| barepath | function |
| construct | function |
| escape | function |
| filename | function |
| hashed | function |
| hasscheme | function |
| query | function |
| split | function |
| toquery | function |
| unescapeget | function |

utilities (context)

debugger table

F disable
F enable
F savestats
F showstats

formatters table

F formatcolumns
F list
F stripzeros

garbagecollector table

F check
N criterium
B enabled

lua table

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

packers table

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

parsers table

F add_settings_to_array
F arguments_to_table
F array_to_string
F csvsplitter
F getparameters
F hash_to_string
F iterator
F keq_to_hash
F listitem
F make_settings_to_hash_pattern
F mergehashes
F options_to_hash
T patterns
U settings_to_array
U settings_to_hash_a
U settings_to_hash_b
U settings_to_hash_c
U unittotex
F process_stripped_settings
F rfc4180splitter
F runtime
F settings_to_array
F settings_to_array_with_repeat
F settings_to_hash
F settings_to_hash_strict
F settings_to_hash_tolerant
F settings_to_set
F simple_hash_to_string
F splitthousands
F stepper
F stripped_settings_to_array
F unittotex
F unittotxml

report function

sequencers table

F appendaction
F appendgroup
F compile
F disableaction
F disablegroup

| | | | |
|------------------|-------|---------------------|-------|
| F enableaction | | F encapsulate | |
| F enablegroup | | F insertaftervalue | |
| D functions | | F insertbeforevalue | |
| F localize | | F migratetable | |
| F new | | F removevalue | |
| F nodeprocessor | | templates | table |
| F prependaction | | F load | |
| F prependgroup | | F replace | |
| F removeaction | | F replacer | |
| F setkind | | F resolve | |
| F tostring | | | |
| setters | table | | |
| F disable | | | |
| F enable | | | |
| F initialize | | | |
| F list | | | |
| F new | | | |
| F register | | | |
| F report | | | |
| F reset | | | |
| F show | | | |
| stacker | table | | |
| F new | | | |
| storage | table | | |
| F allocate | | | |
| F checked | | | |
| F mark | | | |
| F marked | | | |
| F setinitializer | | | |
| F sparse | | | |
| strings | table | | |
| F collapsecrlf | | | |
| T formatters | | | |
| F add | | | |
| F new | | | |
| F newrepeater | | | |
| F nice | | | |
| F striplong | | | |
| F tabtospace | | | |
| T tracers | | | |
| tables | table | | |
| F accesstable | | | |
| F definedtable | | | |
| F definetable | | | |

vf (context)

| | |
|----------------|----------|
| char | function |
| down | function |
| fontid | function |
| image | function |
| node | function |
| nop | function |
| pop | function |
| push | function |
| right | function |
| rule | function |
| special | function |

visualizers (context)

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

| | | |
|------------------|------------------------------|----------|
| 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 | helpers | table |
| F lowerall | F recursetext | |
| F match | include | function |
| F name | index | function |
| F position | inheritedconvert | function |
| F reverse | inject | function |
| F stripped | inject_element | function |
| F tag | inject_element_after | function |
| F tags | inject_element_before | function |
| F text | injectafter | function |
| F upper | injectbefore | function |
| F upperall | insert | function |
| T xml | insert_element | function |
| F all | insert_element_after | function |
| F att | insert_element_before | function |
| F attribute | insertafter | function |
| F attributes | insertbefore | function |
| F cdata | insertcomment | function |
| F chainattribute | inspect | function |
| F count | is_valid | function |
| F default | kind | function |
| F elements | last | function |
| F empty | load | function |
| F first | lpath | function |
| F function | lpathcached | function |
| F index | lpathcalls | function |
| F last | lshow | function |
| F lowerall | makestandalone | function |
| F match | match | function |
| F name | name | function |
| F position | newhandlers | function |
| F reverse | nodesettostring | function |

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

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 |