

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

ConTEXt MkIV

global (alias: _G)

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

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

attributes (context)

colorintents table

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

colors table

N attribute
F cmyk
F cmyktogray
F cmyktorgb
F colorcomponents
B couple
D data
N default
F defineintermediatecolor
F definemixcolor
F definemultitonecolor
F defineprocesscolor
F definesimplegray
F definespotcolor
F definetransparency
F enable
F filter
F forcedmodel
F forcesupport
F formatcolor
F formatgray
F gray
F graytohsv
F handler
F hsvtorgay
F hsvtorgb
F iccprofile
F isblack
N main
S model
F mpcolor
F mpoptions
U none
F popset

F pushset
F register
D registered
F registerspotcolor
F rgb
F rgbtocmyk
F rgbtorgay
F rgbtohsv
N selector
F setlist
F setmodel
D sets
F spot
F spotcolorname
F spotcolorparent
F spotcolorvalue
B supported
F transparencycomponents
B triggering
F usecolors
F value
D values
B weightgray

define function

effects table

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

handlers table

list data table

names data table

negatives table

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

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

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 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 | T blue |
| F stoplayer | T gray |
| F switchlayer | T green |
| F transparency | T red |
| F typesetfield | T rulecolors |
| T registrations | T black |
| F cmykindexcolor | T blue |
| F cmykspotcolor | T gray |
| F getspotcolorreference | T green |
| F grayindexcolor | T paleblue |
| F grayspotcolor | T palegray |
| F rgbindexcolor | T palegreen |
| F rgbspotcolor | T palered |
| F spotcolorname | T red |
| F transparency | F startslant |
| T tables | T stopslant |
| T vfspecials | registrations table |
| T black | tables table |

bibtex (context)

authorref function

authors table

 F concat

 F inverted

 F invertedshort

 F normal

 F normalshort

 F setsettings

 F short

authoryearref function

authoryearsref function

convert function

hacks table

 F add

 F doifalreadyplaced

 F filterall

 F flush

 F nofregistered

 F process

 F register

 F registerplaced

 F reset

 F resolve

load function

new function

singularorplural function

statistics table

 N nofbytes

 N nofdefinitions

 N nofshortcuts

toxml function

blobs (context)

| | |
|-------------------------|-----------------------|
| <code>append</code> | <code>function</code> |
| <code>dimensions</code> | <code>function</code> |
| <code>dispose</code> | <code>function</code> |

| | |
|--------------------|-----------------------|
| <code>new</code> | <code>function</code> |
| <code>pack</code> | <code>function</code> |
| <code>write</code> | <code>function</code> |

boolean (context)

`tocontext` function

`tonumber` function

buffers (context)

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

builders (context)

kernel table

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

paragraphs table

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

- F disable

- F enable

- F optimize

- F setup

- F split

- F tag

vspacing table

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

cache (context)

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

callback (basic tex)

```
find      function
list      function
register overloaded function
```

callbacks (context)

| | |
|--------|------------|
| freeze | function |
| known | function |
| list | data table |
| pop | function |

| | |
|----------|----------|
| push | function |
| register | function |
| report | function |
| table | function |

catcodes (context)

`names` data table

`numbers` data table

`register` function

characters (context)

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

chemicals (context)

| | | | |
|------------------------|-----------------------|-----------------------------|-----------------------|
| <code>component</code> | <code>function</code> | <code>moleculeparser</code> | <code>userdata</code> |
| <code>define</code> | <code>function</code> | <code>start</code> | <code>function</code> |
| <code>format</code> | <code>string</code> | <code>stop</code> | <code>function</code> |
| <code>inline</code> | <code>function</code> | <code>structures</code> | <code>number</code> |
| <code>instance</code> | <code>string</code> | <code>undefine</code> | <code>function</code> |
| <code>molecule</code> | <code>function</code> | | |

commands (context)

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

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|-------------------------------|----------|-----------------------------|----------|
| definedviewerlayer | function | doifelsevisualizer | function |
| definefield | function | doiffieldcategoryelse | function |
| definefieldset | function | doiffieldelse | function |
| definefilefallback | function | doiffieldsetelse | function |
| definefilesynonym | function | doiffiledefinedelse | function |
| definefont_one | function | doiffileexistelse | function |
| definefont_two | function | doiffirstcharelse | function |
| definefontfeature | function | doifinputfileelse | function |
| defineintermediatecolor | function | doifinsetelse | function |
| definelinkedlist | function | doifleapyearelse | function |
| definemarking | function | doiflisthasentry | function |
| definemultitonecolor | function | doiflisthasnumberelse | function |
| defineparallel | function | doiflisthaspageelse | function |
| defineprocesscolor | function | doiflisthastitleelse | function |
| definesectionlevels | function | doiflocfileelse | function |
| definespotcolor | function | doifnot | function |
| definestructureblock | function | doifnotcounter | function |
| definestructureset | function | doifoldervernionelse | function |
| definetransparency | function | doifoverlappingelse | function |
| definetwopasslist | function | doifparentfileelse | function |
| defineviewerlayer | function | doifposition | function |
| defrostrandomseed | function | doifpositionelse | function |
| digits | function | doifpositiononpage | function |
| disableregime | function | doifpositionsonsamepageelse | function |
| disablespellchecking | function | doifpositionsonthispageelse | function |
| discardfromlist | function | doifurldefinedelse | function |
| doanalyzeframedbox | function | doprocetypecriptfile | function |
| doif | function | doreshapeframedbox | function |
| doifblackelse | function | dostarttextfile | function |
| doifcommonelse | function | dostoptextfile | function |
| doifcounter | function | ecolumn | function |
| doifdimenstringelse | function | elapsedtime | function |
| doifdrawingblackelse | function | enablecolor | function |
| doifelse | function | enablecolorintents | function |
| doifelsebuffer | function | enablefontcolorschemas | function |
| doifelsecounter | function | enableregime | function |
| doifelsecurrentfonthasfeature | function | enablespellchecking | function |
| doifelseintwopassdata | function | enabletransparency | function |
| doifelsemarking | function | enhancelinkedlist | function |
| doifelsemultipar | function | enhancelist | function |
| doifelseparallel | function | erasebuffer | function |
| doifelsepositionsused | function | exportformdata | function |
| doifelserangeonpage | function | featureattribute | function |
| doifelsesavedfloat | function | featurelist | function |
| doifelsespaces | function | feedback | function |

| | | | |
|-------------------------|----------|-----------------------|----------|
| fetchallmarks | function | getreadfilename | function |
| fetchmultipar | function | gettexbuffer | function |
| fetchonemark | function | gettwopassdata | function |
| fetchposboxes | function | gettwopassdatalist | function |
| fetchtwomarks | function | geturl | function |
| filterreference | function | grabbuffer | function |
| finalizebox | function | helpaction | function |
| findtwopassdata | function | helpreference | function |
| firstcountervalue | function | hexstringtonumber | function |
| firstinset | function | hour | function |
| flushfloat | function | hyphenatedlist | function |
| flushpostponedblocks | function | hyphenatedurl | function |
| fontchar | function | D characters | |
| fontcollectionclone | function | N lefthyphenmin | |
| fontcollectiondefine | function | D mapping | |
| fontcollectionprepare | function | N righthyphenmin | |
| fontcollectionregister | function | F setcharacters | |
| fontcollectionreport | function | incrementedcounter | function |
| fontcollectionreset | function | insertattachment | function |
| fontlookupgetkey | function | insertcomment | function |
| fontlookupgetkeyofindex | function | insertfield | function |
| fontlookupinitialize | function | insertrenderingwindow | function |
| fontlookupnoffound | function | insertsoundclip | function |
| forceendjob | function | isleapyear | function |
| forcequitjob | function | languagenumber | function |
| format | function | lastcountervalue | function |
| formatcolor | function | lchexnumber | function |
| formatgray | function | lchexnumbers | function |
| freezerandomseed | function | leapyear | function |
| getbuffer | function | listlabel | function |
| getbuffercxtlua | function | listlocation | function |
| getbuffermkvi | function | listprefixednumber | function |
| getdefaultfieldvalue | function | listprefixedpage | function |
| getfieldcategory | function | listrealpage | function |
| getfirstcharacter | function | listsize | function |
| getfirsttwopassdata | function | listtitle | function |
| getfloatvariable | function | listuserdata | function |
| getinternalreference | function | loadctxpreplist | function |
| getlasttwopassdata | function | loadexamodes | function |
| getmarking | function | loadfontgoodies | function |
| getprivateattribute | function | loadspellchecklist | function |
| getprivatechar | function | loadtypescriptfile | function |
| getrandomcounta | function | loadvisualizer | function |
| getrandomcountb | function | locatefilepath | function |
| getrandomseed | function | locfilename | function |

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|----------------------------|----------|----------------------------|----------|
| markregionbox | function | prevcountervalue | function |
| mathrenderset | function | processbuffer | function |
| maxitemwidth | function | processedfile | function |
| minute | function | processedfiles | function |
| molecule | function | processfile | function |
| month | function | processfilemany | function |
| monthmnm | function | processfilenone | function |
| monthname | function | processfileonce | function |
| mpcolor | function | processlist | function |
| mpoptions | function | pushfloat | function |
| namedstructureuservariable | function | pushitaliccorrection | function |
| namedstructurevariable | function | pushlist | function |
| nbfs | function | rawcharacter | function |
| nextcountervalue | function | rawcountervalue | function |
| nextparallel | function | rawdate | function |
| nofdays | function | referencepagestate | function |
| nofitems | function | referencerealpage | function |
| nofstackedfloats | function | registerattachment | function |
| noteprefixednumber | function | registerbibtexentry | function |
| notetitle | function | registerbibtexfile | function |
| ntimes | function | registerbookmark | function |
| number | function | registerbuttons | function |
| octnumber | function | registercolor | function |
| octstringtonumber | function | registercolorintent | function |
| ordinal | function | registeredviewerlayer | function |
| overloadbookmark | function | registerhelp | function |
| pagestaterealpage | function | registeritemgroup | function |
| parpos | function | registermaintextcolor | function |
| pdfrotation | function | registernamespace | function |
| percentageof | function | registerpostponedblock | function |
| pgfxcolorspec | function | registersoundclip | function |
| placeparallel | function | registerstructureprocessor | function |
| popfloat | function | registertransparency | function |
| popitaliccorrection | function | registerunit | function |
| poplist | function | relatemarking | function |
| pos | function | removemissingcharacters | function |
| posplus | function | replacemissingcharacters | function |
| posstrut | function | replacepospxywhd | function |
| poswhd | function | resavefloat | function |
| posxy | function | resetcounter | function |
| prepareMPvariable | function | resetfontfeature | function |
| preparebibtexsession | function | resetmarking | function |
| preparedfile | function | resetmathitalics | function |
| presetsymbollist | function | resetnullfont | function |
| presettabulate | function | resetparallel | function |

| | | | |
|--------------------------|----------|-------------------------|----------|
| resetstructureprocessor | function | setowncounter | function |
| resettimer | function | setpagestate | function |
| restartcounter | function | setpagestaterealpageno | function |
| restorecounter | function | setpagetransition | function |
| restorecurrentattributes | function | setpos | function |
| romannumerals | function | setrandomseed | function |
| runbuffer | function | setrealign | function |
| savebuffer | function | setreferencearguments | function |
| savecounter | function | setreferenceoperation | function |
| savecurrentattributes | function | setstructureblockstate | function |
| savelistnumber | function | settagcombination | function |
| savelistprefixednumber | function | settagdescription | function |
| savelisttitle | function | settagdescriptionsymbol | function |
| savefloat | function | settagfigure | function |
| saveparallel | function | settaghighlight | function |
| savestructureblock | function | settagitemgroup | function |
| savetaggedtwopassdata | function | settagproperty | function |
| savetwopassdata | function | settagsorting | function |
| second | function | settagsynonym | function |
| selectstructureblock | function | settagtablecell | function |
| setbreakpoints | function | settagtabulatecell | function |
| setcharactercasing | function | setupbookmarks | function |
| setcharactercleaning | function | setupcanvas | function |
| setcharacterkerning | function | setupcharacterspacing | function |
| setcharacterspacing | function | setupexport | function |
| setcharacterstripping | function | setupfontexpansion | function |
| setcloseddocumentaction | function | setupfontprotrusion | function |
| setclosepageaction | function | setupidentity | function |
| setcolormodel | function | setupitaliccorrection | function |
| setcounter | function | setxmpfile | function |
| setdataset | function | showattributes | function |
| setdigitsmanipulation | function | showchardata | function |
| setfontfeature | function | showcounter | function |
| setfontofid | function | showfontparameters | function |
| setformat | function | showhyphenatedinlist | function |
| setformsmethod | function | splitfilename | function |
| setinternalreference | function | spotcolorname | function |
| setmarking | function | spotcolorparent | function |
| setmathalphabet | function | spotcolorvalue | function |
| setmathalternate | function | startcolorset | function |
| setmathattribute | function | startcomponent | function |
| setmathitalics | function | startenvironment | function |
| setmathstyle | function | startproduct | function |
| setopendocumentaction | function | startproject | function |
| setopenpageaction | function | startregime | function |

| | | | |
|---------------------------|----------|----------------------------|----------|
| startsectionlevel | function | usecldfile | function |
| starttag | function | usecolors | function |
| starttext | function | usecomponent | function |
| startviewerlayer | function | useenvironment | function |
| stopcolorset | function | usefile | function |
| stopcomponent | function | usejavascriptpreamble | function |
| stopenvironment | function | usejavascriptscripts | function |
| stopproduct | function | uselibrary | function |
| stopproject | function | useluafile | function |
| stopregime | function | usemodules | function |
| stopsectionlevel | function | usepath | function |
| stoptag | function | useproduct | function |
| stoptext | function | useproject | function |
| stopviewerlayer | function | usesubpath | function |
| storejavascriptcode | function | usesymbols | function |
| storejavascriptpreamble | function | usetexfile | function |
| structureautocatcodedget | function | useurl | function |
| structurecatcodedget | function | usexmlfile | function |
| structuregivencatcodedget | function | usezipfile | function |
| structurenumber | function | utfchar | function |
| structuretitle | function | utfmathclass | function |
| structureuservariable | function | utfmathcommand | function |
| structurevariable | function | utfmathfiller | function |
| subcountervalues | function | utfmathstretch | function |
| subff | function | vspacing | function |
| subfs | function | vspacingcollapse | function |
| synchronizcolormodel | function | vspacingdefine | function |
| synchronizemarking | function | vspacingsetamount | function |
| taggedmathfunction | function | vspacingsnap | function |
| testcase | function | weekday | function |
| textime | function | weekdayname | function |
| transparencycomponents | function | widthofstring | function |
| triggereffect | function | writestatus | function |
| triggernegative | function | x_table_cleanup | function |
| truefilename | function | x_table_construct | function |
| typebuffer | function | x_table_create | function |
| typefile | function | x_table_flush | function |
| typestring | function | x_table_init_construct | function |
| uchexnumber | function | x_table_init_reflow_height | function |
| uchexnumbers | function | x_table_init_reflow_width | function |
| unicodechar | function | x_table_next_row | function |
| unit | function | x_table_reflow_height | function |
| updatefilenames | function | x_table_reflow_width | function |
| useMPLibrary | function | x_table_set_construct | function |
| useanyfile | function | x_table_set_reflow_height | function |

`x_table_set_reflow_width`
`year`

`function`
`function`

containers (context)

`cleanname` function
`content` function
`define` function
`is_usable` function

`is_valid` function
`read` function
`usecache` boolean
`write` function

converters (context)

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

coroutine (basic lua)

| | | | |
|-------------------------|----------|----------------------|----------|
| <code>coco</code> | boolean | <code>running</code> | function |
| <code>create</code> | function | <code>status</code> | function |
| <code>cstacksize</code> | function | <code>wrap</code> | function |
| <code>resume</code> | function | <code>yield</code> | function |

debug (basic lua)

| | |
|---------------------------|----------|
| <code>debug</code> | function |
| <code>getfenv</code> | function |
| <code>gethook</code> | function |
| <code>getinfo</code> | function |
| <code>getlocal</code> | function |
| <code>getmetatable</code> | function |
| <code>getregistry</code> | function |

| | |
|---------------------------|----------|
| <code>getupvalue</code> | function |
| <code>setfenv</code> | function |
| <code>sethook</code> | function |
| <code>setlocal</code> | function |
| <code>setmetatable</code> | function |
| <code>setupvalue</code> | function |
| <code>traceback</code> | function |

dir (context)

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

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

directives (context)

| | |
|----------------------|------------|
| <code>data</code> | data table |
| <code>disable</code> | function |
| <code>enable</code> | function |
| <code>list</code> | function |

| | |
|-----------------------|----------|
| <code>name</code> | string |
| <code>register</code> | function |
| <code>report</code> | function |
| <code>show</code> | function |

document (context)

| | | | |
|--------------------------|------------|---------------------------------|----------|
| <code>arguments</code> | data table | <code>setargument</code> | function |
| <code>files</code> | table | <code>setdefaultargument</code> | function |
| <code>getargument</code> | function | <code>setfilename</code> | function |
| <code>getfilename</code> | function | | |

environment (context)

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

epdf (extra tex)

Array **function**
Dict **function**
Object **function**

PDFRectangle **function**
open **function**
type **function**

experiments (context)

| | |
|----------------------|------------|
| <code>data</code> | data table |
| <code>disable</code> | function |
| <code>enable</code> | function |
| <code>list</code> | function |

| | |
|-----------------------|----------|
| <code>name</code> | string |
| <code>register</code> | function |
| <code>report</code> | function |
| <code>show</code> | function |

figures (context)

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

file (basic lua)

| | | | |
|--------------------------------|----------|-----------------------------|----------|
| <code>addsuffix</code> | function | <code>joinpath</code> | function |
| <code>basename</code> | function | <code>loadchecksum</code> | function |
| <code>checksum</code> | function | <code>nameonly</code> | function |
| <code>collapsepath</code> | function | <code>nametotable</code> | function |
| <code>copy</code> | function | <code>needs Updating</code> | function |
| <code>dirname</code> | function | <code>readdata</code> | function |
| <code>expandname</code> | function | <code>removesuffix</code> | function |
| <code>extname</code> | function | <code>replacesuffix</code> | function |
| <code>is_qualified_path</code> | function | <code>robustname</code> | function |
| <code>is_readable</code> | function | <code>savechecksum</code> | function |
| <code>is_rootbased_path</code> | function | <code>savedata</code> | function |
| <code>is_writable</code> | function | <code>splitname</code> | function |
| <code>isreadable</code> | function | <code>splitpath</code> | function |
| <code>iswritable</code> | function | <code>strip</code> | function |
| <code>join</code> | function | <code>suffix</code> | function |

floats (context)

| | |
|-------------------------------|-----------------------|
| <code>analysemethod</code> | <code>function</code> |
| <code>checkedpagefloat</code> | <code>function</code> |
| <code>collect</code> | <code>function</code> |
| <code>consult</code> | <code>function</code> |
| <code>flush</code> | <code>function</code> |
| <code>getvariable</code> | <code>function</code> |

| | |
|-------------------------|-----------------------|
| <code>nofstacked</code> | <code>function</code> |
| <code>pop</code> | <code>function</code> |
| <code>push</code> | <code>function</code> |
| <code>resave</code> | <code>function</code> |
| <code>save</code> | <code>function</code> |
| <code>stacked</code> | <code>function</code> |

font (basic tex)

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

| | |
|----------|----------|
| id | function |
| max | function |
| nextid | function |
| read_tfm | function |
| read_vf | function |
| setfont | function |

fontloader (extra tex)

| | | | |
|--------------------------------|-----------------------|-----------------------|-----------------------|
| <code>apply_afmfile</code> | <code>function</code> | <code>info</code> | <code>function</code> |
| <code>apply_featurefile</code> | <code>function</code> | <code>open</code> | <code>function</code> |
| <code>close</code> | <code>function</code> | <code>to_table</code> | <code>function</code> |
| <code>fields</code> | <code>function</code> | <code>totable</code> | <code>function</code> |
| <code>fullinfo</code> | <code>function</code> | | |

fonts (context)

analyzers table

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

checkers table

- F missing

cid table

- F getmap
- F loadfile

collections table

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

constructors table

- F aftercopyingcharacters
- F applymanipulators
- F assignmathparameters
- B autocleanup
- F beforecopyingcharacters
- D cache
- F calculatyscale
- F checkedfeatures
- F checkedfilename
- F cleanuptable
- F collectprocessors
- D designsizes
- D dontembed
- F enhanceparameters
- N factor
- F finalize
- F getfeatureaction
- F hashfeatures
- F hashinstance
- T hashmethods
- F normal

- F virtual

- F initializefeatures

- T keys

- T character

- S depth

- S height

- S italic

- S width

- T description

- T boundingbox

- S depth

- S height

- S width

- T parameters

- S ascender

- S descender

- S designsize

- T expansion

- S auto

- S shrink

- S step

- S stretch

- S extendfactor

- S factor

- S hfactor

- S mathsize

- T protrusion

- S auto

- S quad

- S scaledpoints

- S scriptpercentage

- S scriptscriptpercentage

- S size

- S slantfactor

- S slantperpoint

- T spacing

- S extra

- S shrink

- S stretch

- S width

- T synonyms

- S em

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

- D data
- F filename
- F register
- F getcompositions
- T list
 - F compositions
 - F designsizes
 - F expansions
 - F featureset
 - F files
 - F mathematics
 - F protrusions
 - F solutions
 - F typefaces
- F load
- F prepare_features
- F register
- F registerpostprocessor
- F report

handlers table

- T afm
 - B addkerns
 - B addligatures
 - B addtexligatures
 - B autoprefixed
- D cache
- D features
- F load
- F setfeatures
- B syncspace
- N version
- T otf
 - F addfeature
 - D cache
 - T chainhandlers
 - F normal
 - F verbose
 - F collectlookups
 - F dataset
 - S defaultbasealternate
 - S defaultnodealternate
 - D enhancers
 - D features
 - F getalternate
 - T glists

- F load
- F scriptandlanguage
- F setcontextchain
- F setdynamics
- F setfeatures
- T tables
 - D baselines
 - D features
 - D languages
 - D scripts
- N version
- T pfb
- T tfm
 - D features
 - F setfeatures
- T vf
 - T combinations
 - F combine
 - T combiner
 - D commands
 - F find
 - D helpers
 - D math
 - D predefined
 - D whatever

hashes table

- D characters
- D csnames
- D descriptions
- T dynamics
- D identifiers
- D italics
- D marks
- D parameters
- T processes
- D properties
- D quads
- D resources
- T setdynamics
- D xheights

helpers table

- F addprivate
- F dimenfactor
- F getdigitwidth
- F getparameters

```

F getprivatenode
F hasprivate
F nametoslot
F setdigitwidth
iterators      table
F characters
F descriptions
F glyphs
loggers       table
T category_to_placeholder
S ll
S lm
S lo
S lt
S lu
S mc
S me
S mn
S nd
S nl
S no
S pc
S pd
S pe
S pf
S pi
S po
S ps
S sc
S sk
S sm
S so
F format
F onetimemessage
F register
F reportdefinedfonts
F reportusedfeatures
mappings      table
F addtounicode
F fromunicode16
F loadfile
F loadline
F loadlumtable
F makenameparser
F reset

```

```

F tounicode16
F tounicode16sequence
names         table
S basename
B be_clever
D cache
F cleanfilename
F cleanname
F collect
F collectfiles
F collectspec
T data
B enabled
F exists
T filters
F afm
F dfont
T list
T names
F otf
T paths
F pfb
F ttc
F ttf
S fontconfigfile
F getfilename
F getlookupkey
F getlookups
F getpaths
F identify
F is_permitted
F list
F load
B loaded
F lookup
F noflookups
S osfontdirvariable
F readdata
F register
F registered
F resolve
F resolvedspecification
F resolvespec
B saved
F specification

```

| | |
|--------------------|-------------------|
| D specifications | |
| F splitspec | |
| N version | |
| F writedata | |
| protrusions | data table |
| readers | table |
| F afm | |
| F check_lua | |
| F check_tfm | |
| F dfont | |
| F lua | |
| F opentype | |
| F otf | |
| F pfb | |
| D sequence | |
| F tfm | |
| F ttc | |
| F ttf | |

| | |
|-------------------|-------------------|
| specifiers | table |
| D contextmerged | |
| F contextnumber | |
| D contextnumbers | |
| D contextsetups | |
| F contexttostring | |
| F mergecontext | |
| F presetcontext | |
| F registercontext | |
| F showcontext | |
| F splitcontext | |
| D synonyms | |
| D variants | |
| symbols | table |
| F uselibrary | |
| tables | table |
| tracers | table |
| typefaces | data table |

graphics (context)

backgrounds table

F calculatemultipar

F fetchmultipar

F pair

F path

F point

gzip (extra lua)

```
close function  
lines function  
open  function
```

img (basic tex)

| | |
|-----------------------|-----------------|
| boxes | function |
| 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 table

- F insert
- F register

fields table

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

general table

- F getidentity
- F setupidentity

help table

- F collect
- F reference
- F register

javascripts table

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

- F setpreamble

- F storecode

- F storepreamble

- F usepreamblenow

- F usescripts

linkedlists table

pages table

- F setpagetransition

- F setupcanvas

references table

- F setclosedocument

- F setclosepage

- F setopendocument

- F setopenpage

renderings table

- F register

- F rendering

- F var

soundclips table

- F insert

- F register

interfaces (context)

| | | | |
|----------------------|------------|------------------|------------|
| addvalidkeys | function | namespaces | table |
| cachedsetups | data table | F define | |
| cachesetup | function | F list | |
| complete | data table | setconstant | function |
| constants | data table | setelement | function |
| corenamespaces | data table | setformat | function |
| definecommand | function | setmessage | function |
| doifelsemessage | function | setmessages | function |
| elements | data table | settranslation | function |
| formats | data table | setuserinterface | function |
| getcheckedparameters | function | setvalidkeys | function |
| getmessage | function | setvariable | function |
| hashedsetups | data table | showmessage | function |
| interfacedcommand | function | syntax | data table |
| interfaces | table | tolist | function |
| invalidkey | function | translations | data table |
| is_command | function | 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 |
| loaddata | function |
| noflines | function |
| o_limiter | function |
| o_limiters | table |

T paranoid

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

job (context)

comment **function**

datasets **table**

D collected

F extend

F getdata

F setdata

D tobesaved

disablesave **function**

files **table**

D collected

F context

B forcerun

F run

D tobesaved

initialize **function**

load **function**

loadother **function**

objects **table**

D collected

F doifelse

F get

F number

F page

F save

F set

D tobesaved

pack **boolean**

pagestates **table**

D collected

F extend

F realpage

F setstate

D tobesaved

passes **table**

F check

D collected

F count

F define

F find

F first

F get

F getcollected

F getdata

F getfield

F gettobesaved

F inlist

F last

F list

F save

F savetagged

D tobesaved

positions **table**

F b_col

F b_region

F c

D collected

F column

F copy

F depth

F e_col

F e_region

F enhance

F extra

F get

F getreserved

F hangafter

F hangindent

F height

F hsize

F leftskip

F lowerleft

F lowerright

F markregionbox

F n

F onsamepage

F overlapping

F p

F page

F paragraph

F parindent

F position

F r

F region

F replace

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

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

lang (basic tex)

| | |
|--------------------------------|-----------------------|
| <code>clean</code> | <code>function</code> |
| <code>clear_hyphenation</code> | <code>function</code> |
| <code>clear_patterns</code> | <code>function</code> |
| <code>exceptions</code> | <code>function</code> |
| <code>hyphenate</code> | <code>function</code> |
| <code>hyphenation</code> | <code>function</code> |
| <code>id</code> | <code>function</code> |

| | |
|-------------------------------|-----------------------|
| <code>new</code> | <code>function</code> |
| <code>patterns</code> | <code>function</code> |
| <code>postexhyphenchar</code> | <code>function</code> |
| <code>posthyphenchar</code> | <code>function</code> |
| <code>preexhyphenchar</code> | <code>function</code> |
| <code>prehyphenchar</code> | <code>function</code> |

languages (context)

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

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

layouts (context)

status table

F isleftpage

F lefttorrightpagection

lfs (extra lua)

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

libraries (context)

basiclua data table
basictex data table
builtin data table

extralua data table
extratex data table
globals data table

lmx (context)

| | | | |
|---------------|----------|---------------|------------|
| convert | function | pv | function |
| escape | function | reset | function |
| get | function | result | function |
| htmfile | function | set | function |
| include | function | show | function |
| lmxfile | function | showdebuginfo | function |
| loadedfile | function | showerror | function |
| make | function | tv | function |
| new | function | type | function |
| overloaderror | function | urlescape | function |
| popupfile | function | variable | function |
| print | function | variables | data table |

logs (context)

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

lpdf (context)

| | | | |
|------------------------|------------|---------------------------|----------|
| action | function | graycode | function |
| adddocumentcolorspace | function | id | function |
| adddocumenttextgstate | function | injectxmpinfo | function |
| adddocumentpattern | function | insertxmpinfo | function |
| adddocumentshade | function | javascript | function |
| addtocatalog | function | launch | function |
| addtoinfo | function | layerreference | function |
| addtonames | function | limited | function |
| addtopageattributes | function | linearshade | function |
| addtopageresources | function | link | function |
| addtopagesattributes | function | null | function |
| addxmpinfo | function | number | function |
| array | function | pagedestination | function |
| boolean | function | pagereference | function |
| checkedkey | function | pdfcolor | function |
| checkedvalue | function | pdftimestamp | function |
| circularshade | function | protectresources | boolean |
| cmykcode | function | reference | function |
| collectedresources | function | registerannotation | function |
| color | function | registerdocumentfinalizer | function |
| colorspace | function | registerpagefinalizer | function |
| colorspaceconstants | table | reserveannotation | function |
| T all | | reserveobject | function |
| T cmyk | | rgbcode | function |
| T gray | | rotationcm | function |
| T rgb | | shareobject | function |
| colorspec | function | shareobjectreference | function |
| colorvalue | function | spotcode | function |
| colorvalues | function | stream | function |
| constant | function | string | function |
| delayedobject | function | timestamp | function |
| dictionary | function | toeight | function |
| epdf | table | 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 | | |

lpeg (basic lua)

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

ltn12 (extra lua)

BLOCKSIZE number

filter table

F chain

F cycle

pump table

F all

F step

sink table

F chain

F error

F file

F null

F simplify

F table

source table

F cat

F chain

F empty

F error

F file

F rewind

F simplify

F string

lua (basic tex)

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

luatex (context)

| | | | |
|-----------------------------------|----------|--------------------------|----------|
| <code>cleanuptempfiles</code> | function | <code>showjobstat</code> | function |
| <code>registerstartactions</code> | function | <code>showtexstat</code> | function |
| <code>registerstopactions</code> | function | <code>starttime</code> | number |
| <code>registertempfile</code> | function | | |

lxml (context)

| | | | |
|-----------------|---------------------|------------------|----------|
| addindex | function | getindex | function |
| all | function | id | function |
| applyfunction | function | idsplitter | userdata |
| att | function | include | function |
| attribute | function | index | function |
| chainattribute | function | info | function |
| checkindex | function | inlineverbatim | function |
| collected | function | installsetup | function |
| command | function | last | function |
| concat | function | load | function |
| concatrange | function | loadbuffer | function |
| content | function | loaddata | function |
| context | function | loaded | table |
| convert | function | loadregistered | function |
| count | function | main | function |
| delete | function | match | function |
| direct | function | name | function |
| directives | table | namespace | function |
| F after | | nonspace | function |
| F before | | pos | function |
| F handle | | position | function |
| F load | | raw | function |
| F setup | | rawroot | function |
| displayverbatim | function | register | function |
| doif | function | registerentity | function |
| doifelse | function | removesetup | function |
| doifelsetext | function | resetcdata | function |
| doifnot | function | resetsetups | function |
| doifnottext | function | resolvedentity | function |
| doiftext | function | root | function |
| element | function | serialize | function |
| elements | function | setaction | function |
| entities | data table | setcdata | function |
| filter | function | setcommandtonone | function |
| filterlist | function | setcommandtotext | function |
| first | function | setsetup | function |
| flush | function | snippet | function |
| flushlinewise | function | sorters | table |
| flushsetups | function | F add | |
| flushspacewise | function | F compare | |
| get_id | function | F flush | |
| getid | function | F reset | |

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

math (basic lua)

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

mathematics (context)

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

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 |
| colorinitializer | function |
| convert | function |
| defaultformat | string |
| directrun | function |
| edefsxxy | function |
| escaped | function |
| exectime | 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 |
| format | function |
| formatnumber | function |
| getclippath | function |
| gettext | function |
| graphic | function |
| graphic_base_pass | function |
| graphic_extra_pass | function |
| intermediate | table |
| T actions | |
| F makempy | |
| B needed | |
| lastlog | string |
| load | function |

| | |
|------------------------|----------|
| makempy | table |
| N nofconverted | |
| F processgraphics | |
| metafun | table |
| F interpolate | |
| F topath | |
| method | number |
| mptopdf | table |
| F convertmptstopdf | |
| N nofconverted | |
| multipass | boolean |
| n | number |
| optimize | boolean |
| parse | function |
| pdfliterals | function |
| pluginactions | function |
| process | function |
| processplugins | function |
| reducetogray | boolean |
| reporterror | function |
| reset | function |
| resetlastlog | function |
| resetplugins | function |
| resettex texts | function |
| setoutercolor | function |
| settext | function |
| showlog | boolean |
| tex | table |
| F get | |
| F reset | |
| F set | |
| texerrors | boolean |
| text texts data | function |
| theclippath | function |
| totable | function |
| unload | function |

mime (extra lua)

b64 function
decode function
decodet table
 F base64
 F quoted-printable
dot function
encode function
encodet table
 F base64
 F quoted-printable
eol function
normalize function

qp function
qpwrp function
stuff function
unb64 function
unqp function
wrap function
wrapt table
 F base64
 F default
 F quoted-printable
 F text
wrp function

mplib (extra tex)

fields **function**
new **function**

pen_info **function**
version **function**

noads (context)

handlers table

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

F variants

process function

processors table

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

node (basic tex)

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

nodes (context)

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

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

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

number (context)

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

os (basic lua)

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

package (basic lua)

| | | | |
|------------------------------|----------|-------------------------------|----------|
| <code>appendtolibpath</code> | function | <code>loaders</code> | table |
| <code>clibpaths</code> | function | <code>loadlib</code> | function |
| <code>config</code> | string | <code>path</code> | string |
| <code>cpath</code> | string | <code>preload</code> | table |
| <code>libpaths</code> | function | <code>prependtolibpath</code> | function |
| <code>loaded</code> | table | <code>seeall</code> | function |

pdf (basic tex)

| | |
|-----------------------------|-----------------------|
| <code>immediateobj</code> | <code>function</code> |
| <code>mapfile</code> | <code>function</code> |
| <code>mapline</code> | <code>function</code> |
| <code>maxobjnum</code> | <code>function</code> |
| <code>obj</code> | <code>function</code> |
| <code>objtype</code> | <code>function</code> |
| <code>pageattributes</code> | <code>string</code> |
| <code>pageref</code> | <code>function</code> |

| | |
|------------------------------|-----------------------|
| <code>pageresources</code> | <code>string</code> |
| <code>pagesattributes</code> | <code>string</code> |
| <code>pdfmapfile</code> | <code>function</code> |
| <code>pdfmapline</code> | <code>function</code> |
| <code>print</code> | <code>function</code> |
| <code>refobj</code> | <code>function</code> |
| <code>registerannot</code> | <code>function</code> |
| <code>reserveobj</code> | <code>function</code> |

physics (context)

| | |
|-----------------|-----------------|
| units table | S ⁻¹ |
| T tables | S ⁻² |
| T shortcuts | S ⁻³ |
| T operators | S ¹ |
| S * | S ² |
| S . | S ³ |
| S / | T units |
| S : | S A |
| T prefixes | S B |
| S E | S Hz |
| S G | S W |
| S M | S b |
| S P | S g |
| S T | S h |
| S Y | S hz |
| S Z | S l |
| S a | S lx |
| S c | S m |
| S d | S n |
| S da | S s |
| S f | S t |
| S h | S v |
| S k | S °C |
| S m | S |
| S n | T units |
| S p | T operators |
| S u | S OutOf |
| S y | S Per |
| S z | S Solidus |
| T suffixes | S Times |
| S +1 | T packaged |
| S +2 | S Micron |
| S +3 | S mmHg |
| S -1 | T prefixes |
| S -2 | S Atto |
| S -3 | S Centi |
| S 1 | S Deca |
| S 2 | S Deci |
| S 3 | S Exa |
| S ⁺¹ | S Exbi |
| S ⁺² | S Femto |
| S ⁺³ | S Gibi |

| | |
|-------------|----------------------|
| S Giga | S Astronomical Unit |
| S Hecto | S Atm |
| S Kibi | S Atmosphere |
| S Kilo | S Atomic Mass Unit |
| S Mebi | S Bar |
| S Mega | S Barn |
| S Micro | S Baud |
| S Milli | S Bel |
| S Nano | S Bequerel |
| S Pebi | S Bit |
| S Peta | S Byte |
| S Pico | S Cal |
| S Root | S Calorie |
| S Tebi | S Candela |
| S Tera | S Celsius |
| S Yobi | S Coulomb |
| S Yocto | S Dalton |
| S Yotta | S Day |
| S Zebi | S Degree Celsius |
| S Zepto | S Degree Fahrenheit |
| S Zetta | S Degrees Celsius |
| T suffixes | S Degrees Fahrenheit |
| S Cubic | S Dyne |
| S ICubic | S Electron Volt |
| S ILinear | S Erg |
| S ISquare | S Erlang |
| S Inverse | S Fahrenheit |
| S Linear | S Farad |
| S Square | S Foot |
| T symbols | S Gal |
| S % | S Gauss |
| S ArcMinute | S Gon |
| S ArcSecond | S Grad |
| S Degree | S Gram |
| S Degrees | S Gray |
| S Percent | S Hectare |
| S Per mille | S Henry |
| S Promille | S Hertz |
| S ° | S Hg |
| S | S Hour |
| S | S Inch |
| T units | S Joule |
| S AMU | S Katal |
| S Ampere | S Kelvin |
| S Angstrom | S Knot |

S Liter
S Litre
S Lumen
S Lux
S Maxwell
S Meter
S Metre
S Metric Ton
S Minute
S Mol
S Mole
S Nautical Mile
S Neper
S Newton
S Oersted
S Ohm
S Pascal

S Phot
S Poise
S Radian
S Rev
S Revolution
S Second
S Siemens
S Sievert
S Steradian
S Stilb
S Stokes
S Tesla
S Tonne
S Volt
S Watt
S Weber
S eV

profiler (extra lua)

`pause` function
`resume` function

`start` function
`stop` function

regimes (context)

| | |
|---------|----------|
| disable | function |
| enable | function |
| pop | function |
| process | function |

| | |
|-----------|----------|
| push | function |
| toregime | function |
| translate | function |

resolvers (context)

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

| | | | |
|----------------------|------------|--------------------------|------------|
| F currentenvironment | | relations | data table |
| F currentproduct | | renew | function |
| F currentproject | | repath | function |
| F justacomponent | | reset | function |
| D processors | | resetextrapath | function |
| F productcomponent | | resetresolve | function |
| F usefile | | resolve | function |
| joinpath | function | savers | data table |
| load | function | scandata | function |
| loadbinfile | function | scanfiles | function |
| loaders | data table | schemes | table |
| loadlualib | function | T cleaners | |
| loadtexfile | function | F md5 | |
| loadtime | function | F none | |
| locateformat | function | F strip | |
| locators | data table | F cleanname | |
| luacnfname | string | F install | |
| luacnfspec | string | N threshold | |
| luacnfstate | string | setenv | function |
| macros | table | setinstance | function |
| F convertfile | | settrace | function |
| F decodecomment | | showpath | function |
| F enablecomment | | simplescanfiles | function |
| F encodecomment | | splitconfigurationpath | function |
| F preprocessed | | splitexpansions | function |
| F processmkvi | | splitmethod | function |
| F version | | splitpath | function |
| maxreadlevel | number | suffixes | data table |
| methodhandler | function | suffixmap | data table |
| newinstance | function | suffixofformat | function |
| openbinfile | function | texdatablob | function |
| openers | data table | 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 |
| registerintrees | function | variableofformatorsuffix | function |
| registermethod | function | wildcardpattern | function |
| registerzipfile | function | | |

scripts (context)

categorytonumber data table

colors data table

defaults table

N inter_char_half_shrink_factor

N inter_char_half_stretch_factor

N inter_char_hangul_penalty

N inter_char_quarter_shrink_factor

N inter_char_quarter_stretch_factor

N inter_char_shrink_factor

N inter_char_stretch_factor

handlers

data table

hash

table

installdataset

function

installmethod

function

numbertocategory

data table

numbertodataset

data table

preprocess

function

reset

function

set

function

set (context)

`contains` function
`create` function
`tolist` function

`tonumber` function
`totable` function

socket (extra lua)

BLOCKSIZE number
_DEBUG boolean
bind function
choose function
connect function
dns table
 F gethostname
 F tohostname
 F toip
ftp table
 S PASSWORD
 N PORT
 N TIMEOUT
 S USER
 F command
 F get
 F open
 F put
gettime function
http table
 N PORT
 N TIMEOUT
 S USERAGENT
 F open
 F request
newtry function
protect function
select function
sink function
sinkt table
 F close-when-done
 F default
 F http-chunked

 F keep-open
skip function
sleep function
smtp table
 S DOMAIN
 N PORT
 S SERVER
 N TIMEOUT
 S ZONE
 F message
 F open
 F send
source function
sourcet table
 F by-length
 F default
 F http-chunked
 F until-closed
tcp function
tp table
 N TIMEOUT
 F connect
try function
udp function
url table
 F absolute
 F build
 F build_path
 F escape
 F parse
 F parse_path
 F unescape

sorters (context)

comparers table

 F basic

constants table

 S defaultdigits

 S defaultlanguage

 S defaultmethod

 N digitsmaximum

 N digitsoffset

 N ignoredoffset

 N replacementoffset

definitions data table

firstofsplit function

setlanguage function

sort function

splitters table

 F utf

strip function

tracers data table

update function

statistics (context)

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

status (basic tex)

list function

storage (context)

| | |
|------------|----------|
| allocate | function |
| data | table |
| evaluators | table |
| mark | function |
| marked | function |
| max | number |

| | |
|------------|------------|
| min | number |
| nofmodules | number |
| noftables | number |
| register | function |
| shared | data table |

streams (context)

| | |
|-------------------------|----------|
| <code>collect</code> | function |
| <code>disable</code> | function |
| <code>enable</code> | function |
| <code>flush</code> | function |
| <code>initialize</code> | function |

| | |
|--------------------------|----------|
| <code>push</code> | function |
| <code>start</code> | function |
| <code>stop</code> | function |
| <code>synchronize</code> | function |

string (basic lua)

| | | | |
|-----------------------------|-----------------------|----------------------------|-----------------------|
| <code>byte</code> | <code>function</code> | <code>match</code> | <code>function</code> |
| <code>bytepairs</code> | <code>function</code> | <code>quote</code> | <code>function</code> |
| <code>bytes</code> | <code>function</code> | <code>quoted</code> | <code>function</code> |
| <code>char</code> | <code>function</code> | <code>rep</code> | <code>function</code> |
| <code>characterpairs</code> | <code>function</code> | <code>reverse</code> | <code>function</code> |
| <code>characters</code> | <code>function</code> | <code>split</code> | <code>function</code> |
| <code>checkedsplit</code> | <code>function</code> | <code>splitlines</code> | <code>function</code> |
| <code>count</code> | <code>function</code> | <code>splitup</code> | <code>function</code> |
| <code>dump</code> | <code>function</code> | <code>strip</code> | <code>function</code> |
| <code>escapedpattern</code> | <code>function</code> | <code>sub</code> | <code>function</code> |
| <code>explode</code> | <code>function</code> | <code>toboolean</code> | <code>function</code> |
| <code>find</code> | <code>function</code> | <code>tocontext</code> | <code>function</code> |
| <code>format</code> | <code>function</code> | <code>todimen</code> | <code>function</code> |
| <code>gfind</code> | <code>function</code> | <code>topattern</code> | <code>function</code> |
| <code>gmatch</code> | <code>function</code> | <code>toutf</code> | <code>function</code> |
| <code>gsub</code> | <code>function</code> | <code>unquote</code> | <code>function</code> |
| <code>is_boolean</code> | <code>function</code> | <code>unquoted</code> | <code>function</code> |
| <code>is_empty</code> | <code>function</code> | <code>upper</code> | <code>function</code> |
| <code>len</code> | <code>function</code> | <code>utfcharacters</code> | <code>function</code> |
| <code>limit</code> | <code>function</code> | <code>utfsplitlines</code> | <code>function</code> |
| <code>lower</code> | <code>function</code> | <code>utfvalues</code> | <code>function</code> |

structures (context)

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

| | |
|-------------------|--------------|
| F nofitems | |
| F register | |
| lists | table |
| F addto | |
| F analyze | |
| D cached | |
| D collected | |
| F discard | |
| F enhance | |
| T enhancers | |
| F filter | |
| F filtercollected | |
| F formulanumber | |
| F hasnumberdata | |
| F haspagedata | |
| F hastitledata | |
| D internals | |
| F iscached | |
| F label | |
| F location | |
| F number | |
| D ordered | |
| F page | |
| F popnesting | |
| F prefix | |
| F prefixednumber | |
| F prefixedpage | |
| F process | |
| D pushed | |
| F pushnesting | |
| F realpage | |
| T result | |
| F sectionnumber | |
| F size | |
| F title | |
| D tobесaved | |
| 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 deltapage | |
| F doifcontent | |
| F doifonsamepageasprevious | |
| F flush | |
| F flushpostponed | |
| F get | |
| F getn | |
| F getnumberpage | |
| F getstate | |
| F getsymbolpage | |
| F internal | |
| F internalid | |
| F listindex | |
| F ordered | |
| F postpone | |
| F resetpostponed | |
| F restore | |
| F save | |
| F setstate | |
| F setsymbolpage | |
| D states | |
| F store | |
| pages | table |
| F analyze | |
| D collected | |
| F is_odd | |
| F number | |
| F save | |
| D tobесaved | |
| references | table |

F analyze
 F checkedfile
 F checkedfileorurl
 F checkedprogram
 F checkedrealpage
 F checkedurl
 D collected
 U componentsplitter
 F currentmetadata
 F currentorder
 D currentset
 F define
 D defined
 D derived
 F doifelse
 F enableinteraction
 F enhance
 D executers
 F expandcurrent
 F export
 T files
 T data
 F define
 F get
 F filter
 D filters
 F from
 F get
 F getcurrentmetadata
 F getcurrentprefixspec
 F getinnermethod
 F getinternalreference
 D handlers
 F identify
 F import
 F inject
 F injectcurrentset
 D internals
 F load
 F loadpresets
 F mark
 D pages
 U prefixsplitter
 D productdata
 T programs

T data
 F define
 F get
 F realpageofpage
 U referencesplitter
 D referred
 F referredpage
 F registerfinalizer
 F registerinitializer
 F registerpage
 F reportproblems
 F reset
 T resolvers
 F reference
 F section
 D runners
 F set
 F setandgetattribute
 F setcomponent
 F setinnermethod
 F setinternalreference
 F setnextinternal
 F setnextorder
 D specials
 F splitcomponent
 F splitprefix
 F splitreference
 T testrunners
 F inner
 F special
 F special operation
 F special operation with arguments
 T testspecials
 F deltapage
 F i
 F internal
 F page
 F realpage
 F section
 F userpage
 D tobereferred
 D tobesaved
 T urls
 T data
 F define

| | |
|---------------------|--------------|
| F get | |
| F whatfrom | |
| registers | table |
| F analyze | |
| F analyzed | |
| D collected | |
| F compare | |
| F define | |
| F enhance | |
| F extend | |
| F filter | |
| F filtercollected | |
| F finalize | |
| F flush | |
| F prepare | |
| F process | |
| F sort | |
| F store | |
| D tobesaved | |
| F unique | |
| F userdata | |
| sections | table |
| F autodepth | |
| F cct | |
| T collected | |
| F current | |
| F currentblock | |
| F currentid | |
| F currentlevel | |
| F depthnumber | |
| F finddata | |
| F findnumber | |
| F fullnumber | |
| F getcurrentlevel | |
| F getlevel | |
| F getnumber | |
| F internalreference | |
| D levelmap | |
| D levels | |
| F load | |
| F matchingtilldepth | |
| F numberatdepth | |
| F numbers | |
| F popblock | |
| F prefixedconverted | |

| | |
|-------------------|--------------|
| F pushblock | |
| F register | |
| D registered | |
| F reportstructure | |
| F save | |
| F set | |
| F setblock | |
| F setchecker | |
| F setlevel | |
| F setnumber | |
| F somelevel | |
| F structuredata | |
| F title | |
| D tobesaved | |
| F typesetnumber | |
| F userdata | |
| B verbose | |
| F way | |
| sets | table |
| F define | |
| F get | |
| F getall | |
| D setlist | |
| specials | table |
| D collected | |
| F retrieve | |
| F store | |
| D tobesaved | |
| synonyms | table |
| F analyzed | |
| D collected | |
| F compare | |
| F define | |
| F filter | |
| F finalize | |
| F flush | |
| F meaning | |
| F prepare | |
| F process | |
| F register | |
| F registerused | |
| F sort | |
| F synonym | |
| D tobesaved | |
| tags | table |

| | |
|--------------------|------------------------|
| T data | F setdescription |
| F detailedtag | F setdescriptionsymbol |
| F getid | F setfigure |
| F handler | F sethighlight |
| D labels | F setitemgroup |
| F last | F setproperty |
| F lastinchain | F setsorting |
| T metadata | F setsynonym |
| D properties | F settablecell |
| F registerdata | F settabulatecell |
| F registermetadata | F start |
| F restart | F stop |
| F setattributehash | D taglist |
| F setcombination | T userdata |

table (basic lua)

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

tex (basic tex)

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

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

texconfig (basic tex)

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

texio (basic tex)

```
write    function
write_nl function
```

token (basic tex)

| | | | |
|---------------------------|----------|----------------------------|----------|
| <code>command_id</code> | function | <code>get_next</code> | function |
| <code>command_name</code> | function | <code>is_activechar</code> | function |
| <code>create</code> | function | <code>is_expandable</code> | function |
| <code>csname_id</code> | function | <code>is_protected</code> | function |
| <code>csname_name</code> | function | <code>lookup</code> | function |
| <code>expand</code> | function | | |

tokens (context)

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

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

tracers (context)

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

T context

T internals

T scratch

| | |
|-----------|----------|
| name | function |
| primitive | function |
| prnterror | function |
| showlines | function |
| strings | table |

S undefined

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

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

trackers (context)

| | | | |
|-----------------------------|------------|-----------------------|----------|
| <code>data</code> | data table | <code>name</code> | string |
| <code>disable</code> | function | <code>register</code> | function |
| <code>dumphashtofile</code> | function | <code>report</code> | function |
| <code>enable</code> | function | <code>savehash</code> | function |
| <code>list</code> | function | <code>show</code> | function |

typesetters (context)

alignments table

F handler
F set

breakpoints table

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

cases table

T actions
F handler
F register
F set

characters table

F handler

cleaners table

F handler
F set

digits table

T actions
N attribute
F handler
F set

directions table

F handler
F process
F set

hpack function

italics table

F forcevariant
F handler
F reset
F set

kerns table

D factors
F handler
B keepligature
B keptogether

D mapping

F set

margins table

F finalhandler
F globalhandler
F ha
F localhandler
F save

paragraphs table

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

processors table

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

spacings table

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

tonodes function

vpack function

xtables table

F cleanup
F construct

| | |
|----------------------------|---------------------|
| F create | F reflow_height |
| F flush | F reflow_width |
| F initialize_construct | F set_construct |
| F initialize_reflow_height | F set_reflow_height |
| F initialize_reflow_width | F set_reflow_width |
| F next_row | |

unicode (extra lua)

| | | | |
|-----------------|-----------------|-------------------------|-----------------|
| ascii | table | | |
| F byte | | F gmatch | |
| F char | | F gsub | |
| F dump | | F len | |
| F find | | F lower | |
| F format | | F match | |
| F gfind | | F rep | |
| F gmatch | | F reverse | |
| F gsub | | F sub | |
| F len | | F upper | |
| F lower | | ustring | function |
| F match | | utf16_to_utf8 | function |
| F rep | | utf16_to_utf8_be | function |
| F reverse | | utf16_to_utf8_le | function |
| F sub | | utf32_to_utf8 | function |
| F upper | | utf32_to_utf8_be | function |
| filetype | function | utf32_to_utf8_le | function |
| grapheme | table | utf8 | table |
| F byte | | F byte | |
| F char | | F char | |
| F dump | | F dump | |
| F find | | F find | |
| F format | | F format | |
| F gfind | | F gfind | |
| F gmatch | | F gmatch | |
| F gsub | | F gsub | |
| F len | | F len | |
| F lower | | F lower | |
| F match | | F match | |
| F rep | | F rep | |
| F reverse | | F reverse | |
| F sub | | F string | |
| F upper | | F sub | |
| latin1 | table | F toentities | |
| F byte | | F upper | |
| F char | | utf8_to_utf16 | function |
| F dump | | utf8_to_utf8 | function |
| F find | | utffcodes | function |
| F format | | utfname | table |
| F gfind | | utftype | function |
| | | xstring | function |

url (context)

`addscheme` function
`construct` function
`filename` function
`hashed` function

`hasscheme` function
`query` function
`split` 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

F compile

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 getparameters
F hash_to_string
F listitem
F make_settings_to_hash_pattern
T patterns
 U settings_to_array
 U settings_to_hash_a
 U settings_to_hash_b
 U settings_to_hash_c
F settings_to_array
F settings_to_hash
F settings_to_hash_strict
F settings_to_hash_tolerant
F settings_to_set
F simple_hash_to_string

report function sequencers table

F appendaction
F appendgroup
F compile
F disableaction
F disablegroup
F enableaction
F enablegroup
D functions
F localize
F new
F nodeprocessor
F prependaction
F prependgroup
F removeaction
F setkind
F tostring

setters table

F disable
F enable
F initialize
F list
F new
F register
F reset
F show

storage table

F allocate
F checked
F mark
F marked
F setinitializer
F sparse

strings table

F collapseCrLf
F newrepeater
F nice
F striplong
F tabtospace

tables table

F accesstable

F definetable
F encapsulate
F insertaftervalue

F insertbeforevalue
F migratetable
F removevalue

visualizers (context)

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

xml (context)

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

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

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

zip (extra lua)

| | | | |
|--------------|----------|-----------------|----------|
| archives | table | openarchive | function |
| close | function | openfile | function |
| closearchive | function | registeredfiles | table |
| open | function | type | function |

zlib (extra lua)

| | | | |
|--------------------------|-----------------------|----------------------------|-----------------------|
| <code>adler32</code> | <code>function</code> | <code>decompress</code> | <code>function</code> |
| <code>compress</code> | <code>function</code> | <code>decompressobj</code> | <code>function</code> |
| <code>compressobj</code> | <code>function</code> | <code>version</code> | <code>function</code> |
| <code>crc32</code> | <code>function</code> | | |