MP attributes backends bit bit32 blobs boolean buffers builders caches callbacks catcodes characters chemistry commands containers context converters coroutine ctxrunner debug dir directives document documentdata environment epdf experiments figures **file** floats fontloader fonts functions global graphics gzip immg interactions interfaces io jit job languages layouts lfs libraries lmx logs lpdf lpeg ltn12 lua luatex lxml math mathematics mbox md5 metapost mime moduledata modules mp mplib newtoken noads nodes number os package pagebuilders parametersets pdfscanner physics profiler publications regimes resolvers sandbox scripts set socket sorters statistics status storage streams string structures table tex thirddata tokens tracers trackers typesetters unicode url userdata utilities vf visualizers xml zip zlib

ConT_EXt MkIV

global (alias: _G)

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

table mbox md5 table metapost table table mime module function moduledata table modules table table am mplib table newproxy function newtoken table function next noads table node table nodes table number table function optionalrequire os table outputpagestree function package table pagebuilders table pairs function parametersets table function pcall pdf table pdfscanner table physics table function print table profiler publications table function rawequal function rawget rawlen function rawset function regimes table require function resolvers table resolvestoredfunction function sandbox table scripts table select function table set setfenv function setinspector function

setmetatable socket sorters statistics status storage streams string structures swiglib table tex texconfig texio thirddata toboolean tokens tonumber tostrina tracers trackers type typesetters unicode unpack url userdata utf utilities νf visualizers xml xpcall zip zlib

function table table table table table table table table function table table table table table function table function function table table function table table function table table table table table table table function table table

attributes (context)

| colorintents table | [montions | |
|---------------------------|-----------------|------------|
| | F mpoptions | |
| N attribute | U none | |
| D data | F popset | |
| F enable | F processcoloro | omponents |
| F handler | F pushset | |
| F register | F register | |
| D registered | D registered | |
| colors table | F registerspoto | olor |
| N attribute | F rgb | |
| F cmyk | F rgbtocmyk | |
| F cmyktogray | F rgbtogray | |
| F cmyktorgb | F rgbtohsv | |
| F colorcomponents | N selector | |
| B couple | F setlist | |
| D data | F setmodel | |
| N default | F setpagecolorm | odel |
| F defineintermediatecolor | D sets | |
| F definemultitonecolor | F spec | |
| F defineprocesscolor | F spot | |
| F definesimplegray | F spotcolorname | |
| F definespotcolor | F spotcolorpare | |
| F definetransparency | F spotcolorvalu | e |
| F enable | B supported | |
| F filter | F transparencyc | omponents |
| F forcedmodel | B triggering | |
| F forcesupport | F usecolors | |
| F formatcolor | F value | |
| F formatgray | D values | |
| F getpagecolormodel | B weightgray | |
| F gray | define | function |
| F graytohsv | effects | table |
| F handler | N attribute | |
| F hsvtogray | D data | |
| F hsvtorgb | F enable | |
| F iccprofile | F handler | |
| F isblack | F register | |
| N main | D registered | |
| S model | D values | |
| D models | handlers | table |
| F mpcolor | list | data table |
| F mpnamedcolor | names | data table |

negatives table N attribute D data F enable F handler F register D registered F set numbers data table ofnode function private function public function restore function save function function showcurrent states table F disabletriggering F enabletriggering F finalize F initialize F process F selective F stacked F stacker function system transparencies table N attribute D data F enable F forcesupport F handler U none F register D registered B supported B triggering F value D values unsetvalue number viewerlayers table N attribute F cleanup

> D data F define

F definedlayoutcomponent F enable F forcesupport F handler B hasorder D listwise F register D registered F resolve_begin F resolve end F resolve reset F resolve step D scopes F setfeatures F start F stop B supported D values

backends (context)

F hasmatrix

codeinjections table F insertrenderingwindow current strina F mergebookmarks defaults table F mergereferences T codeiniections F mergeviewerlavers F aethpos F prerollreference F getmatrix F presetsymbol F getpos F presetsymbollist F getvpos F processrendering F hasmatrix F registerdocumentcloseaction T nodeinjections F registerdocumentopenaction T registrations F registeredsymbol D tables F registerpagecloseaction install function F registerpageopenaction nodeinjections table F registersymbol F restore F setfieldcalculationset F save F setfigurealternative F transform F setfigurecolorspace nothing function F setfiguremask pdf table F setformat T codeinjections F setformsmethod F addbookmarks F setpagetransition F attachmentid F setupcanvas F clonefield F setupidentity F definefield F setxmpfile F definefieldset F startlayer F defineviewerlayer F stoplayer F embedfile F supportedformats F enabletags F unicodetoactualtext F exportformdata F useviewerlaver F getbookmarks F validfield F validfieldcategory F getdefaultfieldvalue F validfieldset F getfieldcategory F getfieldset S comment F getformatoption T nodeinjections F gethpos F addtags F getmatrix F annotation F getoutputfilename F attachfile F changestackedlayer F getpos F cmykcolor F getpreviewfigure F getvpos F comment

F destination

- F effect
- F graycolor
- F injectbitmap
- F insertmovie
- F insertsound
- F insertswf
- F insertu3d
- F knockout
- F negative
- F overprint
- F positive
- F reference
- F rgbcolor
- F spotcolor
- F startlayer
- F startstackedlayer
- F stoplayer
- F stopstackedlayer
- F transparency
- F typesetfield
- T registrations
 - F cmykindexcolor
 - F cmykspotcolor
 - F getspotcolorreference
 - F grayindexcolor
 - F grayspotcolor
 - F rgbindexcolor
 - F rgbspotcolor
 - F spotcolorname
 - F transparency
- T tables
 - D vfspecials

registrations table tables table

bit (context)

```
arshift function
band
         function
bnot
         function
bor
         function
         function
bswap
bxor
         function
lshift
         function
rol
         function
         function
ror
rshift
         function
        function
tobit
         function
tohex
```

bit32 (basic lua)

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

blobs (context)

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

boolean (context)

tocontext function
tonumber function

buffers (context)

append function assign function collectcontent function function erase function exists getcontent function getlines function loadcontent function parallel table

F define

F hassomecontent

F next
F place
F reset
F save

prepend function
raw function
undent function

builders (context)

kernel table profiling table F hyphenation F add F kerning F addtobox F ligaturing F distance F mlist_to_hlist F aet T originals F list F hyphenate F pagehandler F kerning F profilebox F ligaturing F set paragraphs table F vboxhandler vspacing table T constructors N attribute F analyze F define D categories F disable F collapsevbox F enable T data F handler D map T methods D skip F basic D snapmethods F default F definesnapmethod F hpack B fixed F oneline F pagehandler D names F resetprevdepth D numbers F setmap F set F setskip F start F snapbox F stop F tocategories T expansion F tocategory F trace F vboxhandler F keeptogether F registertogether T solutions T splitters F define F optimize T registered F reset F set F split F start F stop F tag

caches (context)

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

callback (basic tex)

find function
list function

register overloaded function

callbacks (context)

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

catcodes (context)

names data table
numbers data table
register function

characters (context)

| activeoffset | number | linebreaks | table |
|----------------|------------|------------|-------|
| adobename | function | S ai | cabec |
| bidi | data table | S al | |
| blockrange | function | S b2 | |
| blocks | data table | S ba | |
| casemap | table | S bb | |
| categories | data table | S bk | |
| category | function | S cb | |
| categorytags | data table | S cj | |
| collapsed | data table | S cl | |
| combined | data table | S cm | |
| contextname | function | S cp | |
| csletters | data table | S cr | |
| data | data table | S ex | |
| decomposed | data table | S gl | |
| description | function | S h2 | |
| descriptions | data table | S h3 | |
| directions | table | S hl | |
| enccodes | data table | S hy | |
| entities | data table | S id | |
| fallbacks | data table | S in | |
| filters | data table | S is | |
| fractions | table | S jl | |
| fromnumber | function | S jt | |
| fschars | data table | S jv | |
| fscodes | data table | S lf | |
| getrange | function | S nl | |
| graphemes | data table | S ns | |
| hangul | data table | S nu | |
| initialize | function | S op | |
| is_character | data table | S po | |
| is_command | data table | S pr | |
| is_letter | data table | S qu | |
| is_mark | data table | S ri | |
| is_punctuation | data table | S sa | |
| is_spacing | data table | S sg | |
| lcchars | data table | S sp | |
| lccode | function | S sy | |
| lccodes | data table | S wj | |
| lettered | function | S xx | |
| lhash | data table | S zw | |

lower function math table mathpairs data table mirrors table otfscripts data table ranges data table registerentities function remap hangul syllabe function setactivecatcodes function setlettercatcodes function function shape shaped function data table shash shchars data table shcodes data table showstring function specialchars data table data table specials splits table T char T compat

subscripts table
superscripts table

synonyms data table

tex table

D accentmapping

D commandmapping

F defineaccents

F safechar

F toutf

F toutfpattern

textclasses table tonumber function ucchars data table uccode function uccodes data table data table uhash unicodechar function function upper

chemistry (context)

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

containers (context)

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

converters (context)

| A | function | maxchrs | function |
|--------------------|----------|-------------------|------------|
| AK | function | minute | function |
| Alphabetic | function | month | function |
| Character | function | nicenumber | function |
| Characters | function | nofdays | function |
| Characters:es | function | number | function |
| I | function | numbers | function |
| KA | function | octnumber | function |
| KR | function | octstringtonumber | function |
| R | function | ordinal | function |
| RK | function | r | function |
| Romannumerals | function | rawcharacter | function |
| Sloviannumerals | function | romannumerals | function |
| Spanishnumerals | function | second | function |
| Word | function | sequences | data table |
| Words | function | sloviannumerals | function |
| a | function | spanishnumerals | function |
| abjadnodotnumerals | function | textime | function |
| abjadnumerals | function | toabjad | function |
| alphabetic | function | tochinese | function |
| character | function | toroman | function |
| characters | function | uchexnumber | function |
| characters:es | function | uchexnumbers | function |
| chineseallnumerals | function | upper | function |
| chinesecapnumerals | function | verbose | table |
| chinesenumerals | function | D data | |
| chr | function | F translate | |
| chrs | function | weekday | function |
| cn | function | word | function |
| cn-a | function | words | function |
| cn-c | function | year | function |
| convert | function | | |
| define | function | | |
| hexstringtonumber | function | | |
| hour | function | | |
| i | function | | |
| isleapyear | function | | |
| lchexnumber | function | | |
| lchexnumbers | function | | |
| leapyear | function | | |
| lower | function | | |
| | | | |

coroutine (basic lua)

```
create function
resume function
running function
status function
wrap function
yield function
```

ctxrunner (context)

load function
preparedfile function
prepfiles data table
resolve function

debug (basic lua)

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

dir (context)

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

directives (context)

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

document (context)

arguments data table
files table
getargument function
getfilename function
options table

T commandline

D environments

D modes

D modules

T ctxfile

D environments

D modes

D modules

setargument function setcommandline function setdefaultargument function setenvironments function setfilename function setfilenames function setmodes function setmodules function variables data table

environment (context)

function argument data table arguments data table basicengines currentrun number default texmfcnf strina definefilefallback function definefilesvnonvm function data table engineflags filename string files table filesvnonvms data table forcedruns number getargument function homedir strina initex boolean function *initializearguments* initializefilenames function inputfilebarename string inputfilename string inputfilesuffix string **jobfilename** string iobfilesuffix string kindofrun number 1 oadexamodes function loadluafile function luafile function luafilechunk function maxnofruns number data table originalarguments outputfilename string ownbin string ownmain string ownname string ownpath string boolean prerollrun data table rawarguments reconstructcommandline function relativepath function setargument function **splitarguments** function suffix string

texfile
texmfos
texos
texroot
truefilename
useluamodule
usemodules
validengines

function string string string function function function data table

epdf (extra tex)

Array function
Attribute function
AttributeOwner_Type function
Attribute_Type function
Dict function
Object function
PDFRectangle function
StructElement_Type function

type function

experiments (context)

```
data
         data table
default
         function
disable
         function
enable
         function
list
         function
name
         string
register function
report
         function
reset
         function
         function
show
value
       function
```

figures (context)

applvratio badname bases bitmapimage boxnumber cachepaths check checkers converters current defaultdepth defaultheight defaultsearch defaultwidth done dummy existers exists formats found get getrealpage auess hash identifiers identify images F boxes

function function data table function number data table function data table data table function number number hool ean number function function data table function data table data table function function function function data table function table

F write function include includers data table initialize function data table loaded data table localpaths magics data table mergegoodies function nofprocessed number order data table data table paths data table patterns gog function preferguality boolean data table programs function push registerpattern function registerresource function registersuffix function data table resources scale function setlookups function setorder function setpaths function suffixes data table used data table

F totable

F types

F copy F immediatewrite F keys F new F node F ofindex F package F print F scan F serialize

F check F checksize F clone

file (basic lua)

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

floats (context)

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

font (basic tex)

current function define function each function table fonts frozen function getfont overloaded function id function function max nextid function read tfm function read_vf function

setfont function

fontloader (extra tex)

apply_afmfile function
apply_featurefile function
close function
fields function
fullinfo function

to_table function
totable function

fonts (context)

| analyzers | table | F | process | |
|------------------|-------|------|----------------|-----------|
| T features | | | registermain | |
| N blwf | | | report | |
| N fina | | | reset | |
| N half | | Т | vectors | |
| N init | | cons | tructors | table |
| N isol | | | addcoreunicode | S |
| N medi | | F | aftercopyingch | aracters |
| N pref | | F | applymanipulat | ors |
| N pstf | | F | assignmathpara | meters |
| N rphf | | В | autocleanup | |
| D initializers | | F | beforecopyingc | haracters |
| D methods | | D | cache | |
| F setstate | | В | cacheintex | |
| T states | | F | calculatescale | |
| N blwf | | F | checkedfeature | S |
| N fina | | F | checkedfilenam | e |
| N half | | F | checkvirtualid | s |
| N init | | F | cleanuptable | |
| N isol | | F | collectprocess | ors |
| N mark | | F | currentfonthas | feature |
| N medi | | D | designsizes | |
| N pref | | D | dontembed | |
| N pstf | | F | enhanceparamet | ers |
| N rest | | N | factor | |
| N rphf | | F | finalize | |
| B useunicodemark | | | getfeatureacti | on |
| checkers | table | F | hashfeatures | |
| F getmissing | | F | hashinstance | |
| F missing | | Т | hashmethods | |
| F placeholder | | | F normal | |
| cid | table | | F virtual | |
| F getmap | | F | initializefeat | ures |
| F loadfile | | | keys | |
| collections | table | | T character | |
| F checkenabled | | | S depth | |
| F clonevector | | | S height | |
| F define | | | S italic | |
| T definitions | | | S width | |
| F found | | | T description | |
| F prepare | | | T boundingbox | (|

| S depth | S xheight | |
|--------------------------|------------------|----------|
| S height | T properties | |
| S width | S autoitalic | amount |
| T parameters | T cidinfo | |
| S ascender | S embedding | |
| S descender | S encodingby | tes |
| S designsize | S filename | |
| T expansion | S finalized | |
| S auto | S fontname | |
| S shrink | S format | |
| S step | S fullname | |
| S stretch | S hasitalics | |
| S extendfactor | S hasmath | |
| S factor | S mathitalic | S |
| S hfactor | S mode | |
| S mathsize | S name | |
| T protrusion | S noglyphnam | es |
| S auto | S nostackmat | h |
| S quad | S psname | |
| S scaledpoints | S textitalic | S |
| S scriptpercentage | S virtualize | d |
| S scriptscriptpercentage | D loadedfonts | |
| S size | S namemode | |
| S slantfactor | F newfeatures | |
| S slantperpoint | F newhandler | |
| T spacing | N noffontsloaded | d |
| S extra | N nofsharedfonts | s |
| S shrink | N nofsharedhash | es |
| S stretch | N nofsharedvecto | ors |
| S width | N privateoffset | |
| T synonyms | F readanddefine | |
| S em | F registerfeatu | re |
| S ex | B resolvevirtua | ltoo |
| S extra_space | F scale | |
| S extraspace | F scaled | |
| S slant | F setfactor | |
| S space | F setname | |
| S space_shrink | B sharefonts | |
| S space_stretch | F trytosharefon | t |
| S spaceshrink | N version | _ |
| S spacestretch | current | function |
| S x_height | currentid | function |
| S units | definers | table |
| S vfactor | F addlookup | |

F analyze N Ercvrillic F applypostprocessors N Ereversedcyrillic F checkedmode N Escyrillic F checkedscript N Fitacyrillic F current N Gcedilla S defaultlookup N Gdot F define N Gecvrillic F getspecification N Gheupturncyrillic F internal N Gjecyrillic F loadfont N Hardsigncyrillic F makespecification N IAcyrillic T methods N IUcyrillic F install N Icyrillic D variants N Idot F read N Iecyrillic F register N Iicyrillic F registered N Iishortcyrillic F registersplit N Iocyrillic F resetnullfont N Izhitsacyrillic F resolve N Jecyrillic T resolvers N Kacvrillic F file N Kcedilla N Khacyrillic F name F spec N Kjecyrillic definetypeface function N Lcedilla encodings table N Ljecyrillic N Ncedilla T agl D extras N Njecyrillic N Ocyrillic D names T synonyms N Odblacute N Acyrillic N Ohm N Becyrillic N Pecyrillic N Cdot N Rcedilla N Checyrillic N Shacyrillic N Decyrillic N Shchacyrillic N Djecyrillic N Softsigncyrillic N Dzecyrillic N Tcedilla N Dzhecyrillic N Tecyrillic N Ecyrillic N Tsecyrillic N Edot N Tshecyrillic N Efcyrillic N Ucyrillic N Elcyrillic N Udblacute N Emcyrillic N Ushortcyrillic N Encyrillic N Vecyrillic

| N Yatcyrillic | N daletholamhebrew |
|------------------------------------|--------------------------|
| N Yericyrillic | N daletpatah |
| N Yicyrillic | N daletpatahhebrew |
| N Zdot | N daletqamats |
| N Zecyrillic | N daletqamatshebrew |
| N Zhecyrillic | N daletqubuts |
| N acutecmb | N daletqubutshebrew |
| N acyrillic | N daletsegol |
| N afii00208 | N daletsegolhebrew |
| N afii08941 | N daletsheva |
| N afii57694 | N daletshevahebrew |
| N afii57695 | N dalettsere |
| N afii57700 | N dammaarabic |
| N afii57705 | N dammatanaltonearabic |
| N afii57723 | N dargahebrew |
| N alef | N dbllowline |
| N alefmaksurainitialarabic | N decimalseparatorarabic |
| N alefmaksuramedialarabic | N dialytikatonos |
| N approximatelyequal | N dotbelowcmb |
| N asteriskaltonearabic | N doubleyodpatah |
| N ayin | N doubleyodpatahhebrew |
| N bet | N edot |
| N betdagesh | N eightarabic |
| N blackdownpointingtriangle | N eighthnotebeamed |
| N blackleftpointingpointer | N etnahtafoukhhebrew |
| N blackrectangle | N etnahtafoukhlefthebrew |
| N blackrightpointingpointer | N etnahtahebrew |
| N blacksmilingface | N fathaarabic |
| N blacksquare | N finalkaf |
| N blackuppointingtriangle | N finalkafdagesh |
| N bulletinverse | N finalkafhebrew |
| N cdot | N finalkafqamats |
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| N dagesh | N finalkafsheva |
| N dalet | N finalmem |
| N daletdagesh | N finalnun |
| N dalethatafpatah | N finalpe |
| N dalethatafpatahhebrew | N finaltsadi |
| N dalethatafsegol | N fivearabic |
| N dalethatafsegolhebrew | N forall |
| N dalethebrew | N fourarabic |
| | N TOUTHTADIC |
| N dalethiriq | N gcedilla |
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| · | N gcedilla |

N gimeldagesh N holam19 N gravecmb N holam26 N haaltonearabic N holam32 N hamzaarabic N holamhebrew N hamzadammaarabic N holamnarrowhebrew N hamzadammatanarabic N holamquarterhebrew N hamzafathaarabic N ilde N hamzafathatanarabic N integralbottom N hamzalowarahic N integraltop N hamzalowkasraarabic N kaf N hamzalowkasratanarabic N kafdagesh N hatafpatah N kashidaautoarabic N hatafpatah16 N kashidaautonosidebearingarabic N hatafpatah23 N kcedilla N hatafpatah2f N lamed N hatafpatahhebrew N lameddagesh N hatafpatahnarrowhebrew N lamedhebrew N lamedholam N hatafpatahquarterhebrew N hatafqamats N lamedholamdagesh N hatafgamats1b N lamedholamdageshhebrew N hatafgamats28 N laminitialarabic N hatafgamats34 N lammeemieeminitialarabic N lcedilla N hatafgamatshebrew N hatafgamatsnarrowhebrew N logicalnotreversed N hatafqamatsquarterhebrew N mahapakhhebrew N hatafsegol N mem N hatafsegol17 N memdagesh N hatafsegol24 N merkhahebrew N merkhakefulahebrew N hatafsegol30 N hatafsegolhebrew N middot N hatafsegolnarrowhebrew N munahhebrew N hatafsegolquarterhebrew N nbspace N he N ncedilla N hedagesh N newshegelsign N hehfinalalttwoarabic N ninearabic N het N noonhehinitialarabic N hiriq N nun N hirig14 N nundagesh N hiriq21 N odblacute N hiriq2d N onearabic N hiriqhebrew N overscore N hiriqnarrowhebrew N patah

N patah11

N patahld

N hiriqquarterhebrew

N holam

N patah2a N aubuts18 N patahhebrew N qubuts25 N patahnarrowhebrew N qubuts31 N patahquarterhebrew N qubutshebrew N pe N gubutsnarrowhebrew N pedagesh N gubutsquarterhebrew N gamats N quoteleftreversed N rafe N gamats10 N gamatsla N rcedilla N reharabic N gamats1c N gamats27 N resh N gamats29 N reshhatafpatah N gamats33 N reshhatafpatahhebrew N gamatsde N reshhatafsegol N gamatshebrew N reshhatafsegolhebrew N gamatsnarrowhebrew N reshhebrew N qamatsqatanhebrew N reshhiria N gamatsgatannarrowhebrew N reshhirighebrew N gamatsgatanguarterhebrew N reshholam N gamatsgatanwidehebrew N reshholamhebrew N gamatsquarterhebrew N reshpatah N aof N reshpatahhebrew N gofdagesh N reshgamats N gofhatafpatah N reshgamatshebrew N qofhatafpatahhebrew N reshaubuts N qofhatafsegol N reshqubutshebrew N qofhatafsegolhebrew N reshsegol N qofhebrew N reshsegolhebrew N reshsheva N qofhiriq N gofhirighebrew N reshshevahebrew N gofholam N reshtsere N qofholamhebrew N reviahebrew N qofpatah N samekh N gofpatahhebrew N samekhdagesh N gofgamats N segol N qofqamatshebrew N segol13 N gofgubuts N segol1f N qofqubutshebrew N segol2c N qofsegol N segolhebrew N qofsegolhebrew N segolnarrowhebrew N gofsheva N segolquarterhebrew N gofshevahebrew N sevenarabic N sfthyphen N goftsere N gubuts N shaddaarabic

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| | shindagesh | D known | |
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| сору | function |
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| keys | function |
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| F MPll | | F autonextspace |
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| F MPp | | F autostoptext |
| F MPpardata | | F averagecharwidth |
| F MPplus | | F bitmapimage |
| F MPpos | | F boxtostring |
| F MPposset | | F bposcolumn |
| F MPr | | F bposcolumnregistered |
| F MPrest | | F btxabbreviatedjournal |
| | | |

F btxaddentrv F btxsetspecification F btxaddjournal F btxsingularorplural F btxauthor F btxtoregister F btxauthorfield F btxusedataset F btxcollectlistentries F btxuservariable F btxcurrentfirstnames F buildtextaccent F btxcurrentinitials F character F htxcurrentiumiors F characters F btxcurrentsurnames F chardescription F htxcurrentyons F checkcountersetup F btxdetail F checkedconversion F btxdirect F checkedpagefloat F btxdoif F checkinjector F btxdoifelse F checknextiniector F btxdoifelsesameasprevious F checkpreviousinjector F btxdoifelseuservariable F checktwopassdata F btxdoifnot F chemical component F chinesenumerals F btxexpandedjournal F htxfetchlistentries F cleanfontname F btxfield F cleanupbox F btxfieldname F cleanuplayers F clonefield F btxfieldtvpe F btxfirstofrange F collectfloat F btxflush F collecthelp F btxflushlistentrv F colorcomponents F btxflushmarked F concatcommalist F consultfloat F btxflushpages F btxfoundname F convertbtxdatasettoxml F convertmpstopdf F btxfoundtype F btxhandlecite F copyposition F btxhandlenocite F cos F btxlastofrange F cosd F htxlistvariant E countervalue F btxloaddefinitionfile F counttwopassdata F btxloadjournallist F currentcomponent F btxloadreplacementfile F currentdate F btxoneorrange F currentdesignsize F btxpreparelistentries F currentenvironment F btxremapauthor F currentposthyphenchar F btxsavedataset F currentprehyphenchar F btxsavejournallist F currentproduct F btxsetdataset F currentproject F currentreferenceorder F btxsetentry

F currentsectiontolist

F btxsetregister

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F doifelseinputfile

F definerule

F doifelseinset F dosavepositionwhd F doifelseintwopassdata F dosetposition F doifelseleapyear F dosetpositionbox F doifelselisthasentry F dosetpositionplus F doifelselisthasnumber F dosetpositionstrut F doifelselisthaspage F dosetpositionwhd F doifelselisthastitle F dostarttextfile F doifelselocfile E dostontextfile F doifelsemarking F elapsedtime F enableasciimode F doifelsemessage F doifelseobiectreferencefound F enableautofontscript F doifelseolderversion F enablebackgroundalign F doifelseoverlapping F enablebackgroundboxes F doifelseparallel F enablecolor F doifelseparentfile F enablecolorintents F doifelsepathexist F enablecrlf F doifelseposition F enabledirectives F enableexperiments F doifelsepositiononpage F enablefontcolorschemes F doifelsepositionsonsamepage F doifelsepositionsonthispage F enableinteraction F doifelsepositionsused F enableparbuilder F doifelserangeonpage F enableregime F doifelsereference F enablerules F doifelsesame F enableshifts F doifelsestackedfloats F enablespellchecking F doifelsesvnonvmshown F enablestatetriggering F enablestream F doifelsesynonymused F doifelseurldefined F enabletrackers F doifelseutfmathabove F enabletransparency F doifelseutfmathaccent F enableutf F doifelseutfmathbelow F enhancelinkedlist F doifelseutfmathfiller F enhancelist F doifelsevisualizer F enhancereference F doiffieldsetelse F enhanceregister F doifnotcounter F eposcolumn F doifnotecontent F eposcolumnregistered F doifnoteonsamepageasprevious F erasebuffer F doifnotsame F execute F doifposition F expandcurrentreference F doifsame F exportformdata F exportreferences F doprocesstypescriptfile F doreshapeframedbox F extendregister F dosaveposition F extensiblecode

F featureattribute

F dosavepositionplus

F featurelist F fontcollectionprepare F feedback F fontcollectionregister F fetchallmarks F fontcollectionreport F fetchmultipar F fontcollectionreset F fetchmultishape F fontlookupgetkey F fetchonemark F fontlookupgetkeyofindex F fetchposboxes F fontlookupinitialize F fetchtwomarks F fontlookupnoffound F figure check F forceendjob F forcequitjob F figure done F figure dummy F formatcolor F figure identify F formatgray F figure include F freezerandomseed F figure mergegoodies F from F figure pop F aetbidimode F figure_push F getbodyfontsizes F figure_reset F getbuffer F getbufferctxlua F figure scale F figurefilename F getbuffermkvi F figurefilepath F getcheckedinterfaceparameters F figurefiletype F getcurrentprefixspec F figurerequest F getcurrentreferencemetadata F figurestatus F getdefaultfieldvalue F figureused F getdocumentargument F filterdefaultreference F getdocumentfilename F filterreference F getelementtag F finalizebox F getfieldcategory F findtwopassdata F getfile F firstcountervalue F getfirstcharacter F firstinset F getfirsttwopassdata F firstsubcountervalue F getfloatvariable F flushfloat F getfullstructurenumber F flushlabeledfloat F getinternallistreference F flushnotes F getlasttwopassdata F flushpageinjectionsafter F getmarking F flushpageinjectionsbefore F getmessage F flushpostponedblocks F getmpextensions F flushpostponednotes F getnotestate F flushstream F getprivatechar F flushstreamcopy F getprogram F fontchar F getrandomdimen F fontcharbyindex F getrandomfloat F fontcollectionclone F getrandomnumber F fontcollectiondefine F getrandomseed

F getreadfilename F iobfilename F getsomefullstructurenumber F jobfilesuffix F getsomestructurenumber F languagenumber F lastcountervalue F getspecificstructuretitle F getstructurelevel F lastsubcountervalue F getstructurenumber F lchexnumber F aetsubstrina F lchexnumbers F gettexbuffer F leapyear F gettwopassdata F linenumbersstageone F linenumbersstagetwo F gettwopassdatalist F aeturl F listaroupindex F getvisual F listlabel F hboxtovbox F listlocation F helpaction F listnamespaces F helpreference F listprefixednumber F hexstringtonumber F listprefixedpage F horizontalcode F listrealpage F listsize F hour F hyphenatedlist F listtitle F hyphenatedurl F listuserdata F immediatemessage F loadexamodes F incrementcounter F loadfontgoodies F incrementedcounter F loadluamodule F incrementsubcounter F loadmapfile F initializeiob F loadmapline F initializestream F loadspellchecklist F initializetexdirectives F loadtypescriptfile F initializetextrackers F loadvisualizer F locatefilepath F injectcurrentreference F injectcurrentreferencehtdp F locfilename F injectreference F lower F inlinechemical F lpdf adddocumentcolorspace F inputfilebarename F lpdf adddocumentextgstate F inputfilename F lpdf adddocumentpattern F inputfilerealsuffix F lpdf_adddocumentshade F inputfilesuffix F lpdf addpageattributes F insertattachment F lpdf_addpageresources F insertcomment F lpdf_addpagesattributes F insertfield F lpdf addtocatalog F insertionnumber F lpdf_addtoinfo F insertrenderingwindow F lpdf_addtonames F installedlanguages F lpdf_collectedresources F installtexdirective F lpdf color F installtextracker F luascript

F luathread F namedstructurevariable F lxmlid F nhfs F markingnumber F nextcountervalue F markingtitle F nextparallel F markinjector F nextsubcountervalue F markregionbox F nofdays F markregionboxcorrected F nofstackedfloats F markregionboxtagged E notedeltanage F markvisualfonts F notelistindex F mathfraction F notenumberpage F mathrenderset F noteprefixednumber F metapostescaped F notesymbolpage F metapostformatted F notetitle F metapostgraphformat F ntimes F minute F number F mixcleanup F numbers F mixfinalize F objectnumber F mixflushlist F objectpage F mixflushrest F octnumber F mixgetsplit F octstringtonumber F mixsetsplit F operatingsystem F mixstate F ordinal F molecule F outputfilename F month F overloadbookmark F monthmnem F overloaderror F monthname F pagestaterealpage F mpcolor F parpos F mpflushliteral F pdfrotation F mpflushreset F pdfstartmatrix F mpgettext F pdfstartmirroring F mpgraphic F pdfstartrotation F mpoptions F pdfstartscaling F mprunset F pdfstopmatrix F mpruntab F pdfstopmirroring F pdfstoprotation F mprunvar F mpsetclippath F pdfstopscaling F mpsetoutercolor F percentageof F mpsetsxsy F pgfxcolorspec F mpsettext F pickupbuffer F mptexget F pickuppunctuation F mptexreset F placeparallel F popfloat F mptexset F pophyphenation F mptexsetfrombuffer F namedstructureuservariable F popitaliccorrection

F poplist F registerbackendsymbol F registerbodyfontsize F poppath F popreferenceprefix F registerbookmark F popregime F registerbuttons F popsectionblock F registercolorintent F postponenotes F registeredviewerlayer F prefixedconverted F registerfigurepattern F presetsymbollist F registerfiguresuffix F presettabulate F registerhelp F prevcountervalue F registerhyphenationexception F previoussubcountervalue F registerhyphenationpattern F processbodyfontsizes F registeritemgroup F processbuffer F registerlanguagefeatures F processcolorcomponents F registerlinenumbering F processedfile F registermaintextcolor F processedfiles F registermpyfile F processfile F registernamedlua F processfilemany F registernamespace F processfilenone F registerpostponedblock F processfileonce F registerrendering F processiob F registersection F processlist F registershownsynonym F registerstructureprocessor F processregister F processsplit F registersynonym F processsynonyms F registerunit F profilebox F registerusedsynonym F purefontname F registeruserdata F pushfloat F relatemarking F renderingvar F pushhyphenation F pushitaliccorrection F replacefeature F pushlist F replacepospxywhd F pushpath F reportstructure F pushreferenceprefix F resavefloat F resetcharacteralign F pushregime F pushsectionblock F resetcounter F pushstream F reseteffect F rawcharacter F resetfeature F rawcountervalue F resetfontfeature F rawdate F resetfontsolution F rawsubcountervalue F resetiniector F referencepagedetail F resetitaliccorrection F resetmapfiles F referencepagestate F referencerealpage F resetmarking

F resetmathattributes

F registerattachment

F resetmathitalics F setactivecatcodes F resetnullfont F setbreakpoints F resetparallel F setcharacteralign F resetpath F setcharactercasing F resetprevdepth F setcharactercleaning F resetreference F setcharacterkerning F resetscript F setcharacterspacing F resetshownsvnonvms F setcharacterstripping F resetstructureprocessor F setclosedocumentaction F resetsubcounter F setclosepageaction F resettimer F setcolormodel F resettrackers F setcounter F resetusedsynonyms F setdataset F restartcounter F setdigitsmanipulation F restartsubcounter F setdirection F restorecounter F setdocumentargument F restorecurrentattributes F setdocumentcommandline F setdocumentctxfile F restorenote F revivefeature F setdocumentdefaultargument F romannumerals F setdocumentenvironments F rounded F setdocumentfilename F runbuffer F setdocumentfilenames F runcontextjob F setdocumentmodes F safechar F setdocumentmodules F savebuffer F seteffect F savecounter F setelementuserproperties F savecurrentattributes F setfigurelookuporder F savedlistnumber F setfigurepaths F savedlistprefixednumber F setfirstline F savedlisttitle F setfontfeature F savefloat F setfontofid F savemargindata F setfontsolution F savenote F setformat F saveobject F setformsmethod F savepagedata F sethyphenatedurlcharacters F savepageinjections F sethyphenationfeatures F saveparallel F sethyphenationmethod F savespecificfloat F setinitial F savestructureblock F setiniector F savetaggedtwopassdata F setinnerreferencemethod F savetwopassdata F setinsertionlocation F savevariable F setinterfaceconstant

F second

F selectstructureblock

F setinterfaceelement

F setinterfacemessage

F setinterfacemessages F setsectionblock F setinterfacevariable F setsectionentry F setinternalreference F setstructureblockstate F setitaliccorrection F setstructurelevel F setjavascriptpreamble F setstructurenumber F setjobcomment F setsubcounter F setlanguageexceptions F settagaspect F setlanguagesynonym F settagcombination F setlettercatcodes F settagdescription F settagdescriptionsymbol F setmarking F setmathalphabet F settagfigure F setmathalternate F settaggedmetadata F setmathattribute F settaghighlight F setmathdirection F settagitem F setmathitalics F settagitemgroup F setmathstyle F settaglist F setmpextensions F settagproperty F setnegative F settagproperty b F settagproperty_n F setnextinternalreference F setnextreferenceorder F settagregister F setnotestate F settagsorting F setnotesymbolpage F settagsynonym F settagtablecell F setobject F settagtabulatecell F setopendocumentaction F setopenpageaction F setupbookmarks F setowncounter F setupcanvas F setownsubcounter F setupcharacterspacing F setpagecolormodel F setupexport F setpagestate F setupfontexpansion F setpagestaterealpageno F setupfontprotrusion F setpagetransition F setupidentity F setparbuilder F setupinsertion F setprofile F setupitaliccorrection F setrandomseed F setuplinenumbering F setuserinterface F setrealign F setrealspaces F setvalidinterfacekeys F setreferencearguments F setvisual F setreferenceattribute F setvisualfont F setreferenceoperation F setvisuallayer F setregionbox F setxmpfile F showassignerror F setregionboxtagged F setregistermethod F showattributes F setreplacements F showcounter

F showdebuginfo

F setscript

| F s | showdirectives | F | stopsectionlevel |
|-----|----------------------|---|---------------------------|
| F s | showdiscretionaries | F | stopstream |
| F s | showexperiments | F | stoptag |
| F | showhyphenatedinlist | F | stoptext |
| F s | showhyphenationtrace | F | stopviewerlayer |
| F s | showinjector | F | storejavascriptcode |
| F | showjustification | F | storejavascriptpreamble |
| F | showlogcategories | F | storenote |
| F | showmessage | F | storeregister |
| F | showtrackers | F | strdp |
| F s | sin | F | strhd |
| F | sind | F | strht |
| F | splitfilename | F | strip |
| F s | spotcolorname | F | structureautocatcodedget |
| F | spotcolorparent | F | structurecatcodedget |
| F s | spotcolorvalue | F | structuregivencatcodedget |
| F s | startactualtext | F | structurenumber |
| F s | startchemical | F | structuretitle |
| F s | startcolorset | F | structureuservariable |
| F s | startcomponent | F | structurevariable |
| F | startenvironment | F | strwd |
| F s | startfontsolution | F | subcountervalue |
| F s | startparbuilder | F | subcountervalues |
| F s | startproduct | F | subsubcountervalues |
| F s | startproject | F | subtractfeature |
| F s | startregime | F | synchronizemarking |
| F s | startsectionlevel | F | synchronizestream |
| F s | startstream | F | synonymmeaning |
| F s | starttag | F | synonymname |
| F s | starttag_c | F | systemlog |
| F s | starttag_d | F | taggedmathfunction |
| F s | starttag_u | F | tan |
| F s | starttext | F | tand |
| F s | startviewerlayer | F | texdefinition_one |
| F s | stopactualtext | F | texdefinition_two |
| F s | stopchemical | F | textime |
| F s | stopcolorset | F | thefirstcharacter |
| F s | stopcomponent | F | theremainingcharacters |
| F | stopenvironment | F | tochar |
| F s | stopfontsolution | F | transparencycomponents |
| F s | stopparbuilder | F | truefilename |
| F s | stopproduct | F | type |
| F | stopproject | F | typebuffer |
| F | stopregime | F | typefile |
| | | | |

F uchar F utfmathstretch F uchexnumber F vboxlisttohbox F uchexnumbers F verbose F undefinechemical F vspacing F unicodechar F vspacingcollapse F unihex F vspacingcollapseonly F unit normal F vspacingdefine F vspacingsetamount F unit reverse F unloadlanguage F vspacingsnap F upper F way F useMPlibrary F weekday F useanvfile F weekdavname F useanyfileonce F writestatus F usecldfile F x table c F usecldfileonce F x table cleanup F usecolors F x_table_construct F usecomponent F x_table_create F useenvironment F x table finish row F usefigurebase F x table flush F usefile F x table init construct F useiavascriptpreamble F x table init reflow height F usejavascriptscripts F x_table_init_reflow_height_option F useluafile F x_table_init_reflow_width F useluafileonce F x_table_init_reflow_width_option E useluamodule F x table next row F usemodules F x table next row option F usepath F x_table_r F useproduct F x table reflow height F useproject F x table reflow width F usesubpath F x_table_set_construct F usesymbols F x_table_set_reflow_height Fusetexfile F x table set reflow width F usetexfileonce F xmlafterdocumentsetup F xmlaftersetup F useurl F usexmlfile F xmlall F usexmlfileonce F xmlappenddocumentsetup F usezipfile F xmlappendsetup F utfchar F xmlapplyselectors F utfmathclass F xmlatt F utfmathcommand F xmlattdef F utfmathcommandabove F xmlattribute F utfmathcommandbelow F xmlattributedef F utfmathcommandfiller F xmlbeforedocumentsetup F utfmathfiller F xmlbeforesetup

F xmlchainatt F xmlinstalldirective F xmlchainattdef F xmllast F xmlchecknamespace F xmlload F xmlloadbuffer F xmlcommand F xmlconcat F xmlloaddata F xmlconcatrange F xmlloaddirectives F xmlcontext F xmlloadregistered F xmlcount F xmlmain F xmldelete F xmlmatch F xmldirect F xmlname F xmldirectives F xmlnamespace F xmldirectivesafter F xmlnonspace F xmldirectivesbefore F xmlpos F xmldisplayverbatim F xmlprependdocumentsetup F xmldoif F xmlprependsetup F xmldoifelse F xmlraw F xmldoifelseempty F xmlregisterns F xmldoifelseselfempty F xmlremapname F xmldoifelsetext F xmlremapnamespace F xmldoifempty F xmlremovedocumentsetup F xmldoifnot F xmlremovesetup F xmldoifnotemptv F xmlresetdocumentsetups F xmldoifnotselfempty F xmlresetinjectors F xmldoifnottext F xmlsave F xmldoifselfempty F xmlsetcommandtonone F xmldoiftext F xmlsetcommandtotext F xmlelement F xmlsetentity F xmlfilter F xmlsetfunction F xmlfilterlist F xmlsetinjectors F xmlfirst F xmlsetsetup F xmlflush F xmlsnippet F xmlflushcontext F xmlstartraw F xmlflushdocumentsetups F xmlstarttiming F xmlflushlinewise F xmlstopraw F xmlflushspacewise F xmlstoptiming F xmlfunction F xmlstrip F xmlgetindex F xmlstripanywhere F xmlinclude F xmlstripnolines F xmlincludeoptions F xmlstripped F xmlinclusion F xmlstrippednolines F xmlinclusions F xmltag F xmlindex F xmltexentity F xmlinfo F xmltext

F xmltobuffer

F xmlinlineverbatim

F xmltobufferverbose

F xmltofile

F xmltoparameters

F xmlverbatim

F xmlwithindex

F year

translations

variables

writestatus

function setconstant function setcount setdimen function setelement function setformat function setmacro function function setmessage setmessages function settranslation function setuserinterface function function setvalidkeys setvariable function showmessage function storedscanners data table strings table syntax data table tolist function

data table

data table

function

io (basic lua)

ask function
bytes function
characters function
close function
exists function
fileseparator string
flush function

loadchunk function
loaddata function
loadlines function
noflines function

open overloaded function
output overloaded function

pathseparator string

read function readall function readnumber function readstring function savedata function size function stderr userdata stdin userdata stdout userdata **tmpfile** function function type write function

jit (context)

```
arch string
attach function
flush function
off function
on function
opt table
```

F start

os string
status function
util table

F funcbc

F funcinfo

F funck

F funcuvname

F ircalladdr

F traceexitstub

F traceinfo

F traceir

F tracek

F tracemc

F tracesnap

version string
version_num number

job (context)

| | F getcollected |
|----------|---|
| table | F getdata |
| | F getfield |
| | F gettobesaved |
| | F inlist |
| | F last |
| | F list |
| | F save |
| table | F savetagged |
| | D tobesaved |
| | positions table |
| | F b_col |
| | F b_region |
| | Fc |
| function | D collected |
| function | F column |
| function | F copy |
| table | F depth |
| | F e_col |
| | F e_region |
| | F enhance |
| | F extra |
| | F get |
| | F getreserved |
| | F hangafter |
| boolean | F hangindent |
| number | F height |
| table | F hsize |
| | F leftskip |
| | F lowerleft |
| | F lowerright |
| | F markregionbox |
| | Fn |
| table | F onsamepage |
| | F overlapping |
| | F p |
| | F page |
| | F paragraph |
| | F parindent |
| | F position |
| | Fr |
| | function function table boolean number table |

- F region
- F replace
- F rightskip
- F set
- F setall
- F setdim
- F setregionbox
- D tobesaved
- F upperleft
- F upperright
- S used
- F width
- Fx
- F xy
- Fу

register function save function structure table

- D collected
- T components
- T tobesaved
- T branches
- S name
- S type

variables table

- D checksums
- D collected
- F getchecksum
- F makechecksum
- F restore
- F save
- F setchecksum
- D tobesaved

version number

lang (basic tex)

| clean | function |
|-------------------|----------|
| clear_hyphenation | function |
| clear_patterns | function |
| exceptions | function |
| hyphenate | function |
| hyphenation | function |
| id | function |
| new | function |
| patterns | function |
| postexhyphenchar | function |
| posthyphenchar | function |
| preexhyphenchar | function |
| prehyphenchar | function |

languages (context)

F registerpattern

| associate | function | F setfeatures | |
|------------------------|------------|--------------------------|------------|
| associated | data table | installed | function |
| association | function | labels | table |
| counters | data table | F define | |
| current | function | F split | |
| data | data table | lefthyphenmin | function |
| define | function | loadable | function |
| expand | function | loadwords | function |
| expanders | table | logger | table |
| frequencies | table | F report | |
| F averagecharwidth | | numbers | data table |
| F getdata | | postexhyphenchar | function |
| getdata | function | posthyphenchar | function |
| getnumber | function | preexhyphenchar | function |
| hyphenate | function | prehyphenchar | function |
| hyphenators | table | registered | data table |
| T dictionaries | | replacements | table |
| D featuresets | | F add | |
| F handler | | F handler | |
| T methods | | F set | |
| F expanded | | righthyphenmin | function |
| B none | | serializediscretionary | function |
| F original | | setexceptions | function |
| F tex | | setsynonym | function |
| F traditional | | showdiscretionaries | function |
| B optimize | | unload | function |
| F popmethod | | version | number |
| F pushmethod | | visualizediscretionaries | function |
| F setmethod | | words | table |
| F setup | | F check | |
| F showhyphenationtrace | | T data | |
| T traditional | | F disable | |
| F definefeatures | | F enable | |
| F gettrace | | T enablers | |
| F hyphenate | | B enables | |
| F injecthyphens | | F found | |
| F installmethod | | F load | |
| F lasttrace | | T methods | |
| F loadpatterns | | N threshold | |
| F registerexception | | | |

layouts (context)

status table

F isleftpage

F leftorrightpagection

lfs (extra lua)

attributes overloaded function chdir overloaded function

currentdir function

lock function

mkdirs function

unlock function

libraries (context)

```
basiclua data table
basictex data table
builtin data table
extralua data table
extratex data table
functions data table
globals data table
```

lmx (context)

color function function convert convertfile function convertstring function einject function eprint function escape function finalized function finject function **fprint** function aet function getvariables function htmfile function h+ml table

F a F td F th

include function
inherited table

S color-background-four

S color-background-one

S color-background-three

S color-background-two

S title

showerror

initialize function inject function **lmxfile** function loadedfile function make function function new overloaderror function popupfile function print function function pν function report function reset result function set function show function showdebuginfo function

function

stripcss function
tv function
type function
urlescape function
variable function
variables table

S color-background-blue

S color-background-body

S color-background-green

S color-background-main

S color-background-purple
S color-background-yellow

S title-default

logs (context)

application function function categories direct function disable function enable function exporters table extendbanner function flush function help function messenger function function new newline function poptarget function pushtarget function report function function reportbanner function reporter table reporters

F banner

F export F help

F info

Flines

F version

reportline function reportlines function setformats function setformatters function setloafile function function setmessenger setprocessor function setprogram function settarget function settimedlog function settranslations function function show show close function show load function show open function simple function simpleline function

simplelines function start page number function status function function stop page number subdirect function function subreport system function function texerrormessage function writer

lpdf (context)

| action | function | finalizepage | function |
|--------------------------|------------|---------------------------|------------|
| adddocumentcolorspace | function | finishtransparencycode | function |
| adddocumentextgstate | function | flushobject | function |
| adddocumentpattern | function | flushstreamfileobject | function |
| adddocumentshade | function | flushstreamobject | function |
| addtocatalog | function | formats | data table |
| addtoinfo | function | frompdfdoc | function |
| addtonames | function | fromsixteen | function |
| addtopageattributes | function | gethpos | function |
| addtopageresources | function | getmatrix | function |
| addtopagesattributes | function | getpos | function |
| addxmpinfo | function | getypos | function |
| annotationspecification | function | graycode | function |
| array | function | hasmatrix | function |
| boolean | function | id | function |
| border | function | injectxmpinfo | function |
| checkedkey | function | insertxmpinfo | function |
| checkedvalue | function | layerreference | function |
| circularshade | function | limited | function |
| cmykcode | function | linearshade | function |
| collectedresources | function | nametree | function |
| color | function | null | function |
| colorspace | function | number | function |
| colorspaceconstants | data table | pagedestinations | data table |
| colorspec | function | pagereference | function |
| colorvalue | function | pagereferences | data table |
| colorvalues | function | pdfcolor | function |
| constant | function | pdftimestamp | function |
| delayedobject | function | protectresources | boolean |
| destinationspecification | function | rectangle | function |
| dictionary | function | reference | function |
| docstring | function | registerannotation | function |
| epdf | table | registerdestination | function |
| F contenttotext | | registerdocumentfinalizer | function |
| F expand | | registerpagefinalizer | function |
| F expanded | | reserveobject | function |
| F getpagecontent | | rgbcode | function |
| F getstructure | | rotationcm | function |
| Fload | | shareobject | function |
| F unload | | shareobjectreference | function |
| finalizedocument | function | spotcode | function |

function stream string function function timestamp function toeight topdfdoc function tosixteen function transform function transparency function transparencycode function transparencygroups table

B none

transparencyvalue function
unicode function
verbose function

lpeg (basic lua)

| В | function |
|-----------------|------------|
| C | function |
| Carg | function |
| Cb | function |
| Сс | function |
| Cf | function |
| Cg | function |
| Cmt | function |
| Ср | function |
| Cs | function |
| Ct | function |
| P | function |
| R | function |
| S | function |
| UP | function |
| UR | function |
| US | function |
| V | function |
| afterprefix | function |
| anywhere | function |
| append | function |
| balancer | function |
| beforesuffix | function |
| checkedsplit | function |
| counter | function |
| endstripper | function |
| finder | function |
| firstofsplit | function |
| frontstripper | function |
| instringchecker | function |
| is_lpeg | function |
| keeper | function |
| locale | function |
| match | function |
| oneof | function |
| patterns | data table |
| pcode | function |
| print | function |
| ptree | function |
| replacer | function |
| secondofsplit | function |

function setmaxstack split function splitat function splitter function stripper function times function tsplitat function tsplitter function function type utfchartabletopattern function version function

ltn12 (extra lua)

```
BLOCKSIZE number
filter
             table
   F chain
   F cycle
             table
pump
   F all
   F step
             table
sink
   F chain
   F error
   F file
   F null
   F simplify
   F table
source
             table
   F cat
   F chain
   F empty
   F error
   F file
   F rewind
   F simplify
   F string
```

lua (basic tex)

bytecode table bytedata data table table bytedone collectgarbage function delay function finalize function firstbytecode number flush function function flushdelayed get functions table function getbytecode function getluaname function lastbytecode number mask string messages data table table name data table numbers registercode function registeredcodes function registerfinalizer function registername function setbytecode function setluaname function startupfile string version string

luatex (context)

cleanuptempfiles function
registerstartactions function
registerstopactions
registertempfile function
starttime number

lxml (context)

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

setcommandtonone
setcommandtotext
setsetup function
snippet function
sorters table

F add F compare

F flush
F reset
F show

F sort

toparameters

toverbatim

splitid function startraw function stopraw function function store strip function stripped function tag function function text tobuffer function tofile function

function

function

math (basic lua)

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

mathematics (context)

| addfallbacks | function |
|------------------------|------------|
| alphabets | data table |
| alternatives | data table |
| big | function |
| boldmap | data table |
| categories | table |
| D functions | |
| charactersets | data table |
| checkaccentbaseheight | function |
| checkprivateparameters | function |
| classes | data table |
| codes | data table |
| define | function |
| dimensions | function |
| extensiblecode | function |
| extensibles | data table |
| extrabase | number |
| extras | table |
| F add | |
| F copy | |
| fallbacks | table |
| F apply | |
| F install | |
| fallbackstyleattr | function |
| families | data table |
| gaps | data table |
| getboth | function |
| getstyle | function |
| horizontalcode | function |
| initializeparameters | function |
| injectfallbacks | function |
| makefont | function |
| mapremap | data table |
| overloaddimensions | function |
| overloadparameters | function |
| privatebase | number |
| remapalphabets | function |
| renderings | table |
| D mappings | |
| | |

function renderset resetattributes function resetitalics function scaleparameters function setalternate function setitalics function data table sets data table styles syncboth function syncname function syncstyle function toname function function tostyle function tweakaftercopyingfont tweakbeforecopyingfont function tweaks table utfmathaccent function utfmathclass function utfmathcommand function utfmathfiller function utfmathstretch function

D numbers

D sets

mbox (context)

```
parse function
parse_from function
parse_header function
parse_message function
split_headers function
split_mbox function
split_message function
```

md5 (extra lua)

HEX function
crypt function
dec function
exor function
hex function
sum function
sumhexa function

metapost (context)

| analyzonlugine | function | gottovt | function |
|-------------------------------|------------------------|------------------------|--------------------|
| analyzeplugins checkformat | function | gettext graphic | function |
| checktexts | function | graphic_base_pass | function |
| collapse | boolean | initializescriptrunner | function |
| colorinitializer | function | instance | function |
| convert | function | intermediate | table |
| defaultformat | | T actions | table |
| defaultinstance | string | | |
| defaultmethod | string | F makempy | c+rina |
| directrun | string function | lastlog load | string function |
| | function | | table |
| escaped exectime | table | makempy | table |
| | | N nofconverted | |
| extensiondata | data table function | F processgraphics | |
| filterclippath | function | F registerfile | £ |
| flush | | maketext | function |
| flushers | table | metafun | table |
| T pdf | | F interpolate | |
| F comment | | F topath | |
| F flushfigure | | method | number |
| F startfigure | | mptopdf | table |
| F stopfigure | | F convertmpstopdf | |
| F textfigure | £ | N nofconverted | |
| flushliteral | function | n | number |
| flushnormalpath | function | nvformat | function |
| flushreset | function | optimize | boolean |
| fonts | table | parse | function |
| F define | | pdfliterals | function |
| T flusher | | pluginactions | function |
| F flushfigure | | process | function |
| F startfigure | | processplugins | function |
| F stopfigure | | processspecial | function |
| N instances | | properties | table |
| F process | | quickanddirty | function |
| format | function | reducetogray | boolean |
| format_number | function | reporterror | function |
| format_string | function | reset | function |
| formatnumber | function | resetlastlog | function |
| getclippath | function | resetplugins | function |
| getextensions | function | runscript | function |
| getjobdata | function | scripterror | function |
| getstatistics | function | setextensions | function |

setoutercolor
settext function
showlog boolean
svformat function
tex table

F get F reset F set

F setfrombuffer

texerrors boolean
textextsdata function
theclippath function
totable function
unload function
untagvariable function
variables table

mime (extra lua)

```
b64
           function
decode
           function
decodet
           table
   F base64
   F quoted-printable
           function
dot
encode
           function
encodet
           table
   F base64
   F quoted-printable
eol
           function
normalize function
           function
qр
           function
qpwrp
stuff
           function
unb64
           function
           function
unqp
           function
wrap
wrapt
           table
   F base64
   F default
   F quoted-printable
   F text
           function
wrp
```

mp (context)

| BackSpace | function | OverlayDepth | function |
|----------------------|----------|-------------------------|----------|
| BaseLineSkip | function | OverlayHeight | function |
| BodyFontSize | function | OverlayLineWidth | function |
| BottomDistance | function | OverlayOffset | function |
| BottomHeight | function | OverlayWidth | function |
| BottomSpace | function | PageDepth | function |
| CurrentColumn | function | PageFraction | function |
| CurrentHeight | function | PageNumber | function |
| CurrentWidth | function | PageOffset | function |
| CutSpace | function | PaperBleed | function |
| EmWidth | function | PaperHeight | function |
| ExHeight | function | PaperWidth | function |
| FooterDistance | function | PrintPaperHeight | function |
| FooterHeight | function | PrintPaperWidth | function |
| HSize | function | RealPageNumber | function |
| HeaderDistance | function | RightEdgeDistance | function |
| HeaderHeight | function | RightEdgeWidth | function |
| InPageBody | function | RightMarginDistance | function |
| InnerEdgeDistance | function | RightMarginWidth | function |
| InnerEdgeWidth | function | SpineWidth | function |
| InnerMarginDistance | function | StrutDepth | function |
| InnerMarginWidth | function | StrutHeight | function |
| LastPageNumber | function | TextHeight | function |
| LayoutColumnDistance | function | TextWidth | function |
| LayoutColumnWidth | function | TopDistance | function |
| LayoutColumns | function | TopHeight | function |
| LeftEdgeDistance | function | TopSkip | function |
| LeftEdgeWidth | function | TopSpace | function |
| LeftMarginDistance | function | VSize | function |
| LeftMarginWidth | function | _f_ | function |
| LineHeight | function | boolean | function |
| MakeupHeight | function | dataset | function |
| MakeupWidth | function | datasets | table |
| NOfColumns | function | F load | |
| NOfPages | function | defaultcolormodel | function |
| OnOddPage | function | format | function |
| OnRightPage | function | formatted | function |
| OuterEdgeDistance | function | get | table |
| OuterEdgeWidth | function | F boolean | |
| OuterMarginDistance | function | F number | |
| OuterMarginWidth | function | F numeric | |

F string

| graphformat | function |
|---------------|----------|
| n | function |
| numeric | function |
| pair | function |
| path | function |
| print | function |
| quadruple | function |
| quoted | function |
| size | function |
| triplet | function |
| tt_dimensions | function |
| tt initialize | function |

mplib (extra tex)

fields function
finder function
finders table

F file

get_boolean function
get_number function
get_string function

new overloaded function

pen_info function
preprocessed function
version function

newtoken (basic tex)

| create | function |
|--------------|----------|
| get_next | function |
| is_token | function |
| scan_code | function |
| scan_dimen | function |
| scan_glue | function |
| scan_int | function |
| scan_keyword | function |
| scan_string | function |
| scan_token | function |
| scan_toks | function |
| scan_word | function |
| set_macro | function |
| type | function |

noads (context)

handlers table F check F classes F collapse F families F italics F relocate F render F resize F showtree F tags F unscript F variants process function processors table T checkers T collapse F mlist_to_hlist T relocate T render T resize

T unscript

node (basic tex)

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

| function |
|----------|
| function |
| |

nodes (context)

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

| <pre>ignorablefields injections F copy F getligaindex F handler F installnewkern F keepcounts F reset F resetcounts F setcursive F setkern F setligaindex F setmark</pre> | data table table | list listablefields listcodes listtoutf load locate margincodes markers F get mathcodes maxboxwidth mlist_to_hlist new |
|--|---------------------|--|
| F setpair | function | noadcodes nodecodes |
| insert_after | function | |
| insert_before insert_list_after | function | nopts nuts |
| installattributehandler | function | F append |
| is_direct | function | F concat |
| is_display_math | function | F copy |
| is mirrored | data table | F copy_list |
| is_node | function | F copy_properties |
| is_nut | function | F count |
| is rotated | data table | F current_attr |
| kerncodes | data table | F delete |
| kerning | function | F dimensions |
| keys | table | F do_ligature_n |
| T whatsit | tabte | F end_of_math |
| last node | function | F fasthpack |
| leftmarginwidth | function | F first_glyph |
| ligaturing | function | F firstcharacter |
| lines | table | F firstcharinbox |
| T boxed | | F firstglyph |
| F register | | F flush_list |
| F setup | | - F flush_node |
| F stage one | | F free |
| F stage_two | | F getattr |
| F stage_zero | | F getattribute |
| D data | | F getbox |
| F finalize | | F getchar |
| F number | | F getfield |
| N scratchbox | | F getfont |
| link | function | F getid |
| linked | function | F getleader |

function
data table
data table
function
function
function
data table
table

data table function function function data table data table function table

F pdfannotation F aetlist F getnext F pdfdestination F getprev F pdfdirect F pdfliteral F getprop F getskip F pdfrestore F pdfsave F getsubtype F has_attribute F pdfsetmatrix F has field F penalty F has glyph F register F rightmarginkern F hpack F insert after F rightskip F insert before F rule F insert_list_after F shrink F is direct F special F is_display_math F stretch F temp F is_node F is_nut F textdir F usage F kerning T userids F last node F leftmarginwidth N margins.inline F ligaturing N property F link N splitters.one F linked N splitters.two F locate F userlist F mlist to hlist F usernumber F nestedtracedslide F userstring F new F usertokens F vlist T pool F baselineskip F zeroglue F cleanup F prepend F disc F protect_glyphs F fontkern F protrusion skippable F glue F reference F remove F gluespec F glyph F repackhlist F hlist F replace F kern F rightmarginwidth F latelua F set_attribute F lateluafunction F setattr F leftmarginkern F setattribute F leftskip F setattributes F lineskip F setbox F negatedglue F setfield

F setprop

F noad

| F setunsetattributes | | T namespace | |
|--|--------------------------|---------------------------|-------------------|
| F slide | | N attribute | |
| F somepenalty | | D data | |
| F somespace | | F enable | |
| F tail | | F handler | |
| F takebox | | F register | |
| F tonode | | D registered | |
| F tonodes | | D values | |
| F tonut | | F processor | |
| F tosequence | | points | function |
| F tostring | | pool | table |
| F tracedslide | | F baselineskip | |
| F traverse | | F cleanup | |
| F traverse_id | | F glyph | |
| T typesetters | | F kern | |
| F fast_hpack | | F latelua | |
| F hpack | | F lateluafunction | |
| F tohpack | | F lineskip | |
| F tohpackfast | | F pdfdirect | |
| F tonodes | | F pdfliteral | |
| F tovpack | | F pdfrestore | |
| F tovpackfast | | F pdfsave | |
| F vpack | | F pdfsetmatrix | |
| F unprotect_glyphs | | F register | |
| F unset_attribute | | F rule | |
| F unsetattribute | | F special | |
| F unsetattributes | | F usage | |
| F untracedslide | | F usernumber | |
| F usedlist | | prepend | function |
| F vianodes | | print | function |
| F vianuts | | processors | table |
| F vpack | | B enabled | |
| F writable_spec | | F hpack_filter | |
| F write | function | F post_linebreak_filter | |
| packlist | data table | F pre_linebreak_filter | |
| pardir_is_equal | | F tracer | function |
| <pre>pardir_is_opposite pardir_is_parallel</pre> | data table | processwords | function table |
| partextdir is equal | data table data table | properties | table |
| penaltycodes | data table | T actions F delayed | |
| plugindata | table | | |
| F finalizer | cance | F fdelayed F immediate | |
| F initializer | | F attach | |
| S name | | T data | |
| 3 Hallic | | i uata | |

| F delayed | | F getsamples | |
|----------------------|------------|----------------------|------------|
| protect_glyphs | function | F resetsamples | |
| protrusion_skippable | function | F takesample | |
| pts | function | somepenalty | function |
| reference | function | somespace | function |
| references | table | stripdiscretionaries | function |
| N attribute | | stripping | table |
| T done | | T glyphs | |
| F handler | | F set | |
| T stack | | striprange | function |
| remove | function | tail | function |
| repackhlist | function | takebox | function |
| replace | function | tasks | table |
| report | function | F actions | |
| rightmarginwidth | function | F appendaction | |
| rules | table | F disableaction | |
| D data | | F disablegroup | |
| F define | | F enableaction | |
| F enable | | F enablegroup | |
| F handler | | F freeze | |
| save | function | F freezegroup | |
| serialize | function | F new | |
| serializebox | function | F prependaction | |
| set_attribute | function | F removeaction | |
| setattr | function | F replaceaction | |
| setattribute | function | F restart | |
| setattributes | function | F setaction | |
| setbox | function | F showactions | |
| setfield | function | F table | |
| setunsetattributes | function | textdir_is_equal | data table |
| shifts | table | textdir_is_is | data table |
| D data | | textdir_is_opposite | data table |
| F define | | textdir_is_parallel | data table |
| F enable | | tobasepoints | function |
| F handler | | tocentimeters | function |
| show | function | tociceros | function |
| showboxes | function | todidots | function |
| showcodes | function | todimen | function |
| showlist | function | toinches | function |
| showsimplelist | function | tomillimeters | function |
| skipcodes | data table | tonewciceros | function |
| slide | function | tonewdidots | function |
| snapshots | table | tonode | function |

F getparameters

tonodes

function

| tonut | function | F start | |
|-------------------|----------|------------------|------------|
| topicas | function | F stop | |
| topoints | function | F stop | |
| toscaledpoints | function | T transparencies | |
| tosequence | function | F reset | |
| tostring | function | F set | |
| totable | function | F setlist | |
| totree | function | traverse | function |
| toutf | function | traverse id | function |
| tracers | table | typesetters | table |
| T characters | | F hpack | |
| F collect | | F tohpack | |
| F equal | | F tohpackfast | |
| F start | | F tonodes | |
| F string | | F tovpack | |
| F unicodes | | F tovpackfast | |
| T colors | | F vpack | |
| F reset | | unprotect_glyphs | function |
| F set | | unset_attribute | function |
| F setlist | | unsetattribute | function |
| F fontchar | | unsetattributes | function |
| T frequencies | | usedlist | function |
| F register | | vianodes | function |
| T pool | | vianuts | function |
| T nodes | | visualizebox | function |
| F rule | | visualizers | table |
| T nuts | | F box | |
| F rule | | F handler | |
| F resetproperties | | F markfonts | |
| F rule | | F setfont | |
| F setlist | | F setlayer | |
| F setproperties | | F setvisual | |
| F start | | vpack | function |
| T steppers | | whatcodes | data table |
| F check | | whatsitcodes | data table |
| F codes | | whatsitters | table |
| F features | | T getters | |
| F font | | T dimensions | |
| F glyphs | | T width | |
| F message | | T setters | |
| F messages | | T dimensions | |
| F nofsteps | | T width | |
| F register | | writable_spec | function |
| F reset | | write | function |
| | | | |

number (context)

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

os (basic lua)

function __getenv__ function setenv binsuffix string binsuffixes table clock function converttime function function date difftime function env data table exec overloaded function execute overloaded function exit function function fulltime overloaded function getenv gettimeofday function function isleapyear launch function libsuffix string localtime function name string function nofdays function now platform strina remove overloaded function overloaded function rename resolvers table F bits resultof function runtime function selfdir string setenv overloaded function

uname
uuid function
validdate function
weekday function
where function
which function

function

function

setlocale sleep

spawn

time

overloaded function

overloaded function

package (basic lua)

| config | string |
|---------------|----------|
| cpath | string |
| extralibpath | function |
| extralibpaths | function |
| extraluapath | function |
| extraluapaths | function |
| helpers | table |
| libpaths | function |
| loaded | table |
| loaders | table |
| loadlib | function |
| luapaths | function |
| path | string |
| preload | table |
| searchpath | function |
| seeall | function |

pagebuilders (context)

injections table

- F flushafter
- F flushbefore
- F save

mixedcolumns table

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

pdf (basic tex)

getcatalog function function gethpos getinfo function function getmatrix aetnames function function getpageattributes getpageresources function getpagesattributes function getpos function gettrailer function aetvpos function hasmatrix function immediateobj function mapfile function mapline function maxobjnum function obj function objtype function pageref function print function function refobj overloaded function registerannot reserveobj function setcatalog overloaded function setinfo overloaded function setnames overloaded function setpageattributes overloaded function overloaded function

setpagesattributes overloaded function

overloaded function

setpageresources

settrailer

pdfscanner (context)

scan function

physics (context)

units table

F registerunit

D tables

profiler (extra lua)

```
pause function
resume function
start function
stop function
```

publications (context)

S editor

addtexentry function S journal function analyze S keywords anywhere function S number data table authorcache S pages authorcollapsers data table S title data table authormap S volume casters table S year F author T optional F keyword T required F pagenumber T sets F range T author checkeddataset function T virtual citevariants table T book F author S category F authornum T extra F authoryear T fields F authoryears S address F category S author F default S edition S editor F entry F index S keywords F keywords Snumber S publisher F num S subtitle F page F short S title S volume F tag F year S year data table collected T optional table components T required F author T sets function concatstate T author function converttoxml T editionset currentspecification table T virtual S author T demo-a T categories S category T article T extra S category T fields T extra S author T fields S institution S author S organization

S subtitle

| S title | | endnotes_to_btx | function |
|-----------------|-------|------------------|------------|
| S year | | enhancer | table |
| T optional | | S arguments | |
| T required | | T askip | |
| T sets | | B dirty | |
| T author | | T gskip | |
| T virtual | | T kind | |
| T demo-b | | T list | |
| S category | | T system | |
| T extra | | T order | |
| T fields | | enhancers | table |
| S author | | F details | |
| S institutio | on | F order | |
| S organizati | ion | F suffixes | |
| S subtitle | | finder | function |
| S title | | firstofrange | function |
| S year | | found | function |
| T optional | | get | function |
| T required | | getcasted | function |
| T sets | | getdetail | function |
| T authors | | getdirect | function |
| T virtual | | getfaster | function |
| S comment | | getfield | function |
| S copyright | | getfuzzy | function |
| T fields | | getindex | function |
| S name | | inspectors | data table |
| T types | | journals | table |
| S author | | F abbreviated | |
| S editor | | F add | |
| S keywords | | F expanded | |
| S number | | F load | |
| S page | | F save | |
| S pages | | lastofrange | function |
| S volume | | lists | table |
| S version | | F collectentries | |
| D virtual | | F fetchentries | |
| T virtualfields | | F filterall | |
| B authornum | | F flushentry | |
| B authoryear | | T methods | |
| B authoryears | | F dataset | |
| B num | | F force | |
| B suffix | | F global | |
| datasets | table | F local | |
| detailed | table | F nofregistered | |

| F prepareentries | | T sequence | |
|---------------------|----------|-------------------------|----------|
| F register | | specifications | table |
| F sameasprevious | | T default | |
| T sorters | | S author | |
| F dataset | | S comment | |
| F default | | S copyright | |
| F reference | | S name | |
| F short | | S version | |
| F uservariable | | D virtual | |
| listvariants | table | splitauthor | function |
| F bib | | splitoneauthor | function |
| F default | | statistics | table |
| F num | | N nofbytes | |
| F page | | N nofdatasets | |
| F short | | N nofdefinitions | |
| F yes | | N nofshortcuts | |
| load | function | tables | table |
| loadbibdata | function | D implicits | |
| loaddefinitionfile | function | D origins | |
| loaders | table | D privates | |
| F bbl | | D sets | |
| F bib | | D specials | |
| F buffer | | D types | |
| F endnote | | D virtuals | |
| F lua | | tags | function |
| F refman | | tracers | table |
| F registercleaner | | F showdatasetauthors | |
| F xml | | F showdatasetcompletene | SS |
| loadreplacementfile | function | F showdatasetfields | |
| new | function | F showentry | |
| okay | function | F showfields | |
| oneorrange | function | F showtables | |
| parenttag | function | F showvariants | |
| permitted | function | typesetters | table |
| refman_to_btx | function | F author | |
| resolvedname | function | F string | |
| save | function | usedataset | function |
| search | function | usedentries | function |
| setcategory | function | writers | table |
| setspecification | function | F author | |
| singularorplural | function | F keyword | |
| sortedentries | function | F pagenumber | |
| sortmethods | table | F range | |
| | | | |

T authoryear

regimes (context)

```
cleanup
disable
enable
fromregime
pop
process
push
toregime
translate
function
```

resolvers (context)

| allprefixes | function | findtexfile | function |
|--|---------------------|-------------------------|------------|
| appendhash | function | findwildcardfile | function |
| automount | function | findwildcardfiles | function |
| automounted | table | formatofsuffix | function |
| booleanvariable | function | formatofvariable | function |
| cacheversion | string | formats | data table |
| checkedvariable | function | generators | data table |
| cleanedpathlist | function | get_from_content | function |
| cleanpath | function | getenv | function |
| cleanpathlist | function | getownpath | function |
| concatinators | data table | getreadfilename | function |
| configbanner | string | hashers | data table |
| criticalvars | data table | homedir | string |
| dangerous | data table | inputstack | table |
| datastate | function | installinputfilehandler | function |
| defaultsuffixes | table | installinputlinehandler | function |
| dowithfilesandreport | function | instance | table |
| dowithfilesintree | function | D data | |
| dowithpath | function | B diskcache | |
| dowithvariable | function | D environment | |
| env | function | D expansions | |
| executers | table | D fakepaths | |
| expandbraces | function | D files | |
| expandedpathfromlist | function | B force_suffixes | |
| expandedpathlist | function | D found | |
| ${\it expanded path list from variable}$ | function | D foundintrees | |
| expandpath | function | D hashed | |
| expandpathfromvariable | function | D hashes | |
| expansion | function | D lists | |
| extendtexmfvariable | function | B loaderror | |
| filtered_from_content | function | D order | |
| find_file | function | D pathlists | |
| find_files | function | T pathstack | |
| findbinfile | function | B remember | |
| findctxfile | function | B renewcache | |
| finders | data table | B renewtree | |
| findfile | function | B savelists | |
| findfiles | function | D setups | |
| findgivenfile | function | D specification | |
| findgivenfiles | function | D variables | |
| findpath | function | jobpath | function |

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

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

sandbox (context)

| binaryhandler | function |
|-------------------|----------|
| disablerunners | function |
| enable | function |
| filehandlerone | function |
| filehandlertwo | function |
| finalizer | function |
| initializer | function |
| iohandler | function |
| logcalls | function |
| logfiles | function |
| original | function |
| overload | function |
| possiblepath | function |
| redefine | function |
| register | function |
| registerbinary | function |
| registerroot | function |
| registerrunner | function |
| report | function |
| run | function |
| runhandler | function |
| setfilenamelogger | function |
| setlogger | function |
| setreporter | function |
| settrace | function |
| validfilename | function |
| | |

scripts (context)

autofontfeature table F disable F enable F handler categorytonumber data table colors data table decomposehangul function defaults table N inter_char_half_shrink_factor N inter_char_half_stretch_factor N inter_char_hangul_penalty N inter_char_quarter_shrink_factor N inter_char_quarter_stretch_factor N inter_char_shrink_factor N inter_char_stretch_factor N inter_word_stretch_factor handlers data table table hash injectors data table installdataset function installmethod function numbertocategory data table numbertodataset data table numbertohandler data table function reset function set **splitters** data table

set (context)

contains function
create function
tolist function
tonumber function
totable function

socket (extra lua)

BLOCKSIZE number S connection boolean DEBUG S content-description SETSIZE number S content-disposition bind function S content-encoding function choose S content-id function connect S content-language connect4 function S content-length function connect6 S content-location dns table S content-md5 F getaddrinfo S content-range F gethostname S content-transfer-encoding F getnameinfo S content-type F tohostname S date F toip S diagnostic-code ftp table S dsn-gateway S PASSWORD S etag N PORT S expect N TIMEOUT S expires S USER S final-log-id F command S final-recipient F get S from F open S host F put S if-match gettime function S if-modified-since headers table S if-none-match T canonic S if-range S accept S if-unmodified-since S accept-charset S in-reply-to S accept-encoding S keywords S accept-language S last-attempt-date S accept-ranges S last-modified S action S location S max-forwards S age S allow S message-id S alternate-recipient S mime-version S original-envelope-id S arrival-date S authorization S original-recipient S bcc S pragma S cache-control S proxy-authenticate Scc S proxy-authorization S comments S range

| S recei | ved | sinkt | table |
|-----------------|------------------|----------------|----------------------|
| S recei | .ved-from-mta | F close-v | vhen-done |
| S refer | rences | F default | |
| S refer | rer | F http-ch | nunked |
| S remot | re-mta | F keep-op | oen |
| S reply | v-to | skip | function |
| S repor | ting-mta | sleep | function |
| S reser | rt-bcc | smtp | table |
| S reser | rt-cc | S DOMAIN | |
| S reser | t-date | N PORT | |
| S reser | t-from | S SERVER | |
| S reser | t-message-id | N TIMEOUT | Г |
| S reser | t-reply-to | S ZONE | |
| S reser | t-sender | F message | 2 |
| S reser | t-to | F open | |
| S retry | r-after | F send | |
| S retur | n-path | source | function |
| S sende | | sourcet | table |
| S serve | | F by-leng | |
| | remote-recipient | F default | |
| S statu | | F http-chunked | |
| S subje | ect | F until-closed | |
| S te | | tcp | function |
| S to | | tcp6 | function |
| S trail | | tp | table |
| | fer-encoding | N TIMEOUT | |
| S upgra | | F connect | |
| S user- | agent | try udp | function function |
| S vary S via | | udp6 | function |
| S warni | ng | url | table |
| | retry-until | F absolut | |
| | nuthenticate | F build | .e |
| S x-mai | | F build_p | nath |
| http | table | F escape | |
| N PORT | | F parse | |
| N TIMEOU | Г | F parse_p | oath |
| S USERAGENT | | F unescap | |
| F open | | | |
| F request | t | | |
| newtry | function | | |
| protect | function | | |
| select | function | | |
| sink | function | | |
| | | | |

sorters (context)

```
basicsorter
                function
                table
comparers
   F basic
                table
constants
   S defaultdigits
   S defaultlanguage
   S defaultmethod
   N digitsmaximum
   N digitsoffset
   N ignoredoffset
   N replacementoffset
   T validmethods
    B ch
    B mc
    B mm
    Врс
    B pm
    B uc
    B zc
    B zm
definitions
                data table
firstofsplit function
setlanguage
                function
                function
sort
splitters
                table
   F utf
strip
                function
                data table
tracers
                function
update
```

statistics (context)

| function |
|----------|
| function |
| function |
| function |
| function |
| boolean |
| function |
| number |
| function |
| function |
| |

status (basic tex)

list function

storage (context)

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

streams (context)

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

string (basic lua)

| autodouble | function |
|----------------|----------|
| autosingle | function |
| booleanstring | function |
| byte | function |
| bytepairs | function |
| bytes | function |
| char | function |
| characterpairs | function |
| characters | function |
| checkedsplit | function |
| collapsespaces | function |
| count | function |
| dump | function |
| escapedpattern | function |
| explode | function |
| find | function |
| format | function |
| formatter | function |
| formatters | function |
| fullstrip | function |
| gmatch | function |
| gsub | function |
| is_boolean | function |
| is_empty | function |
| itself | function |
| len | function |
| limit | function |
| longtostring | function |
| lower | function |
| match | function |
| nspaces | table |
| optionalquoted | function |
| quote | function |
| quoted | function |
| rep | function |
| reverse | function |
| split | function |
| splitlines | function |
| splitup | function |
| strip | function |
| sub | function |

| tformat | function |
|---------------|----------|
| toHEX | function |
| toboolean | function |
| tobytes | function |
| tocontext | function |
| todec | function |
| todimen | function |
| tohex | function |
| tonodes | function |
| topattern | function |
| totable | function |
| toutf | function |
| tracedchar | function |
| tracedchars | table |
| unquote | function |
| unquoted | function |
| upper | function |
| utfcharacters | function |
| utfvalues | function |
| valid | function |

structures (context)

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

| F define | | F savedlistprefixednumber | |
|---|-------|---|---|
| F getdata | | F savedlisttitle | |
| F getlocation | | D sectionblocks | |
| F getname | | F sectionnumber | |
| F getnumber | | F size | |
| F setlocation | | F title | |
| F setup | | D tobesaved | |
| D stored | | F userdata | |
| itemgroups | table | F uservalue | |
| lists | table | marks tabl | ۵ |
| F addto | table | D data | |
| F analyze | | F define | |
| B autoreorder | | F exists | |
| D cached | | F fetch | |
| D cached D collected | | F fetchallmarks | |
| | | | |
| F discard | | F fetched F fetchonemark | |
| F enhance | | F fetchtwomarks | |
| T enhancers | | | |
| F filter | | F get | |
| F formulanumber | | F number | |
| F getresult | | F relate | |
| F groupindex | | F reset | |
| F hasnumberdata | | F set | |
| F haspagedata | | F show | |
| F hastitledata | | F synchronize | |
| F iscached | | F title | |
| D kinds | | T tracers | |
| F label | | F showtable | |
| | | | _ |
| F location | | notes tabl | е |
| D names | | notes tabl | е |
| D names F number | | <pre>notes tabl F checkpagechange F define</pre> | е |
| D names F number D ordered | | notes tabl F checkpagechange F define F doifonsamepageasprevious | е |
| D names F number D ordered F page | | <pre>notes tabl F checkpagechange F define F doifonsamepageasprevious F get</pre> | е |
| D names F number D ordered F page F popnesting | | <pre>notes tabl F checkpagechange F define F doifonsamepageasprevious F get F getdeltapage</pre> | е |
| D names F number D ordered F page F popnesting F prefix | | <pre>notes tabl F checkpagechange F define F doifonsamepageasprevious F get F getdeltapage F getn</pre> | е |
| D names F number D ordered F page F popnesting F prefix F prefixednumber | | <pre>notes tabl F checkpagechange F define F doifonsamepageasprevious F get F getdeltapage</pre> | е |
| D names F number D ordered F page F popnesting F prefix F prefixednumber F prefixedpage | | <pre>notes tabl F checkpagechange F define F doifonsamepageasprevious F get F getdeltapage F getn F getnumberpage F getstate</pre> | e |
| D names F number D ordered F page F popnesting F prefix F prefixednumber F prefixedpage F process | | <pre>notes tabl F checkpagechange F define F doifonsamepageasprevious F get F getdeltapage F getn F getnumberpage F getstate F getsymbolpage</pre> | е |
| D names F number D ordered F page F popnesting F prefix F prefixednumber F prefixedpage F process D pushed | | <pre>notes tabl F checkpagechange F define F doifonsamepageasprevious F get F getdeltapage F getn F getnumberpage F getsymbolpage F hascontent</pre> | е |
| D names F number D ordered F page F popnesting F prefix F prefixednumber F prefixedpage F process D pushed F pushnesting | | notes tabl F checkpagechange F define F doifonsamepageasprevious F get F getdeltapage F getn F getnumberpage F getstate F getsymbolpage F hascontent F internal | e |
| D names F number D ordered F page F popnesting F prefix F prefixednumber F prefixedpage F process D pushed F pushnesting F realpage | | r checkpagechange F define F doifonsamepageasprevious F get F getdeltapage F getn F getnumberpage F getstate F getsymbolpage F hascontent F internal F internalid | e |
| D names F number D ordered F page F popnesting F prefix F prefixednumber F prefixedpage F process D pushed F pushnesting | | r checkpagechange F define F doifonsamepageasprevious F get F getdeltapage F getnumberpage F getstate F getsymbolpage F hascontent F internal F internalid F listindex | e |
| D names F number D ordered F page F popnesting F prefix F prefixednumber F prefixedpage F process D pushed F pushnesting F realpage | | r checkpagechange F define F doifonsamepageasprevious F get F getdeltapage F getn F getnumberpage F getstate F getsymbolpage F hascontent F internal F internalid | e |

| F resetpostponed | | D filters |
|---------------------|-------|----------------------------|
| F restore | | D flaginternals |
| F save | | F from |
| F setstate | | D functions |
| F setsymbolpage | | F get |
| D states | | F getcurrentmetadata |
| F store | | F getcurrentprefixspec |
| pages | table | F getinnermethod |
| F analyze | | F getinternallistreference |
| D collected | | F getinternalreference |
| F in_body | | D handlers |
| F is_odd | | F identify |
| N nofpages | | F import |
| F number | | F inject |
| F on_right | | F injectcurrentset |
| F save | | S innermethod |
| D tobesaved | | D internals |
| references | table | F load |
| F analyze | | F loadpresets |
| F checkedfile | | F mark |
| F checkedfileorurl | | D pages |
| F checkedprogram | | U prefixsplitter |
| F checkedrealpage | | D productdata |
| F checkedurl | | T programs |
| D collected | | T data |
| U componentsplitter | | F define |
| F currentmetadata | | F get |
| F currentorder | | F realpageofpage |
| D currentset | | U referencesplitter |
| F define | | D referred |
| D defined | | F referredpage |
| D derived | | F registerfinalizer |
| F enableinteraction | | F registerinitializer |
| F enhance | | F registerpage |
| D executers | | F reportproblems |
| F expandcurrent | | F reset |
| F export | | D runners |
| T files | | F set |
| T data | | F setandgetattribute |
| F define | | F setcomponent |
| F found | | F setinnermethod |
| F get | | F setinternalreference |
| F filter | | F setnextinternal |
| F filterdefault | | F setnextorder |

| F setreferencerealpage | | | setmethod | |
|--------------------------|-----------|------|---------------------|-------|
| D specials | | | sort | |
| F splitcomponent | | | store | |
| F splitprefix | | D | tobesaved | |
| F splitreference | | F | unique | |
| F synchronizepage | | | userdata | |
| T testrunners | | sect | ions | table |
| F inner | | F | autodepth | |
| F special | | F | cct | |
| F special operation | | D | collected | |
| F special operation with | arguments | F | current | |
| T testspecials | | F | currentblock | |
| F deltapage | | F | currentid | |
| Fi | | F | currentlevel | |
| F internal | | F | currentsectionindex | |
| F page | | F | depthnumber | |
| F realpage | | F | finddata | |
| F section | | F | findnumber | |
| F userpage | | F | fullnumber | |
| D tobereferred | | F | getcurrentlevel | |
| D tobesaved | | F | getlevel | |
| D tracedpages | | F | getnumber | |
| T urls | | F | internalreference | |
| T data | | D | levelmap | |
| F define | | D | levels | |
| F found | | F | load | |
| F get | | F | matchingtilldepth | |
| D usedinternals | | F | numberatdepth | |
| D usedviews | | F | numbers | |
| F valid | | F | popblock | |
| registers t | able | F | prefixedconverted | |
| F analyze | | F | pushblock | |
| D collected | | F | register | |
| F compare | | D | registered | |
| F define | | F | reportstructure | |
| F enhance | | F | save | |
| F extend | | Т | sectionblockdata | |
| F filter | | | T bodypart | |
| F filtercollected | | | S bookmark | |
| F finalize | | F | set | |
| F flush | | F | setblock | |
| F get | | F | setchecker | |
| F prepare | | F | setentry | |
| F process | | F | setlevel | |
| | | | | |

F setnumber F lastinchain F structuredata F locatedtag F title T patterns D tobesaved U splitter F typesetnumber D properties F registermetadata F userdata B verbose F restart table sets F setaspect F define F setattributehash F get F setcombination F getall F setdescription D setlist F setdescriptionsymbol specials table F setfigure D collected F sethighlight F retrieve F setitem F store F setitemgroup D tobesaved F setlist synonyms table F setproperty F analyzed F setregister D collected F setsorting F compare F setsynonym F define F settablecell F filter F settabulatecell F finalize F setupexport F flush F setuserproperties F isshown D specifications F isused F start F meaning F stop F prepare F strip F process D taglist F register F registershown F registerused F resetshown F resetused F sort F synonym D tobesaved table tags F elementtag F getid F handler D labels

F last

table (basic lua)

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

tex (basic tex)

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

setnest function setsfcode function setskip function settoks function setuccode function sfcode table shipout function function show context skip table sp function sprint function systemmodes data table takebox function texcatcodes number toks table tpacatcodes number tpbcatcodes number tprint function trackers data table txtcatcodes number function type uccode table uniform rand function uniformdeviate function uprint function vrbcatcodes number write function

texconfig (basic tex)

error_line number expand depth number formatname string half_error_line number hash_extra number init

overloaded function

kpse init boolean max_in_open number max_print_line number max_strings number nest_size number param_size number save size number shell escape string

stack_size overloaded number

texio (basic tex)

write function
write_nl function

tokens (context)

| astable | function | getters | table |
|------------|----------|-------------|----------|
| bgroup | userdata | F box | |
| bits | table | F count | |
| N active | | F dimen | |
| N alignmen | t | F token | |
| N begingro | up | hbox | userdata |
| N characte | r | istoken | function |
| N close | | letter | function |
| N comment | | letters | function |
| N endgroup | | other | function |
| N endoflin | e | pickup | function |
| N escape | | printlist | function |
| N ignore | | scanners | table |
| N invalid | | F boolean | |
| N letter | | F code | |
| N mathshif | t | F condition | nal |
| N open | | F count | |
| N other | | F dimen | |
| N paramete | r | F dimensio | n |
| N space | | F glue | |
| N subscrip | t | F integer | |
| N superscr | ipt | F keyword | |
| N whitespa | ce | F list | |
| collectors | table | F lxmlid | |
| T data | | F number | |
| F defaultw | ords | F scanclos | ie. |
| F dowithwo | rds | F scanoper | ı |
| F flush | | F skip | |
| F install | | F string | |
| F register | | F token | |
| T register | ed | F tokens | |
| F show | | F toks | |
| F test | | F word | |
| compile | function | scantable | function |
| converters | table | setters | table |
| S toboolea | n | F box | |
| S todimen | | F count | |
| S toglue | | F dimen | |
| S tonumber | | F macro | |
| S tostring | | shortcuts | table |
| egroup | userdata | T bits | |

| N active | F lxmlid |
|-------------------|----------------|
| N alignment | F number |
| N begingroup | F scanclose |
| N character | F scanopen |
| N close | F skip |
| N comment | F string |
| N endgroup | F token |
| N endofline | F tokens |
| N escape | F toks |
| N ignore | F word |
| N invalid | F scannumber |
| N letter | F scanopen |
| N mathshift | F scanstring |
| N open | F scanword |
| N other | F toboolean |
| N parameter | F todimen |
| N space | T tokens |
| N subscript | F astable |
| N superscript | U bgroup |
| N whitespace | T collectors |
| N close | F defaultwords |
| F inspect | F dowithwords |
| N open | F flush |
| F report | F install |
| F scanboolean | F register |
| F scanclose | F show |
| F scancode | F test |
| F scanconditional | F compile |
| F scandimen | T converters |
| F scandimension | S toboolean |
| F scaninteger | S todimen |
| F scankeyword | S toglue |
| F scanlist | S tonumber |
| T scanners | S tostring |
| F boolean | U egroup |
| F code | T getters |
| F conditional | F box |
| F count | F count |
| F dimen | F dimen |
| F dimension | F token |
| F glue | U hbox |
| F integer | F istoken |
| F keyword | F letter |
| F list | F letters |
| | |

F other F pickup F printlist F scantable T setters F box F count F dimen F macro T shortcuts N close F inspect N open F report F scanboolean F scanclose F scancode F scanconditional F scandimen F scandimension F scaninteger F scankeyword F scanlist F scannumber F scanopen F scanstring F scanword F toboolean F todimen

F tonumber
F tostring
U vbox
U vtop
F tonumber
F tostring

vbox

vtop

tracers (context)

count function
cs function
dimen function
knownlist function
lists table

T context
T internals
T scratch

name function
primitive function
printerror function
showlines function
strings table

S undefined

toks function
type function

trackers (context)

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

typesetters (context)

| alignments | table | F installhandler | |
|------------------|-------|------------------|-------|
| F handler | | F processmath | |
| F set | | F set | |
| breakpoints | table | F setcolor | |
| F define | | F setmath | |
| F handler | | F tomode | |
| D mapping | | firstlines | table |
| T methods | | T actions | |
| T numbers | | F default | |
| F set | | F line | |
| F setreplacement | | F word | |
| cases | table | F handler | |
| T actions | | F set | |
| F handler | | initials | table |
| F register | | T actions | |
| F set | | F default | |
| characteralign | table | F handler | |
| F handler | | F set | |
| F resetcharacter | align | injectors | table |
| F setcharacteral | ign | F check | |
| characters | table | T list | |
| F handler | | F mark | |
| F replacenbsp | | F reset | |
| F replacenbspace | s | F set | |
| checkers | table | F show | |
| F handler | | italics | table |
| F reset | | F forcevariant | |
| F set | | F handler | |
| cleaners | table | F reset | |
| F handler | | F set | |
| F set | | kerns | table |
| digits | table | D factors | |
| T actions | | F handler | |
| F handler | | F keepligature | |
| F set | | B keeptogether | |
| directions | table | D mapping | |
| F getfences | | F set | |
| F getglobal | | manipulators | table |
| F getmethod | | F apply | |
| F handler | | F applyspecifica | tion |
| T handlers | | T methods | |
| | | | |

F Word F Words F abbreviatedjournal F expandedjournal F lowercase F stripperiod F uppercase T patterns U list U pair F splitspecification margins table F finalhandler F globalhandler F localhandler F save marksuspects function processors table F apply F register F reset F split F startapply F stopapply F stripped F tostring function showsuspects table spacings F define F handler D mapping T numbers T frenchpunctuation T characters S name N number F reset

F set
F setup
wrappers

F handler **xtables**

F cleanup

table

table

F construct
F create
F finish_row
F flush
F initialize_construct
F initialize_reflow_height
F initialize_reflow_width
F next_row
F reflow_height
F reflow_width
F set_construct
F set_reflow_height

F set_reflow_width

unicode (extra lua)

| | د المحمد ال | _ | |
|------|-----------------|------|-------------|
| asci | | | len |
| | byte | | lower |
| | char | | match |
| | dump | | rep |
| | find | | reverse |
| | format gfind | | sub |
| | gmatch | utf8 | upper table |
| | gsub | | byte |
| | len | | char |
| | lower | | characters |
| | match | | chrlen |
| | rep | | count |
| | reverse | | dump |
| | sub | | filetype |
| | upper | | find |
| grap | | | format |
| | byte | | gfind |
| | char | | gmatch |
| | dump | | gsub |
| | find | | is_valid |
| | format | | len |
| | gfind | | length |
| | gmatch | | lower |
| | gsub | F | magic |
| F | len | F | match |
| F | lower | F | remapper |
| F | match | F | rep |
| F | rep | F | replacer |
| F | reverse | F | reverse |
| F | sub | F | split |
| F | upper | F | splitlines |
| lati | n1 table | F | sub |
| F | byte | F | subtituter |
| F | char | F | tocodes |
| F | dump | F | toeight |
| F | find | F | toentities |
| F | format | F | tostring |
| F | gfind | F | totable |
| F | gmatch | F | upper |
| F | gsub | F | ustring |
| | | | |

- F utf16_to_utf8_be
- F utf16_to_utf8_be_t
- F utf16_to_utf8_le
- F utf16_to_utf8_le_t
- F utf16_to_utf8_t
- F utf32_to_utf8_be
- F utf32_to_utf8_be_t
- F utf32_to_utf8_le
- F utf32_to_utf8_le_t
- F utf32_to_utf8_t
- F utf8_to_utf16
- F utf8_to_utf16_be
- F utf8_to_utf16_le
- F utf8_to_utf8_t
- F values
- F xstring

url (context)

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

utilities (context)

| debugger | table | N v | version | |
|---------------------|----------|-------|-------------------|---------------|
| F disable | | parse | ers | table |
| F enable | | Fa | add_settings_to_a | array |
| F savestats | | Fa | arguments_to_tab | le |
| F showstats | | Fa | array_to_string | |
| F showtraceback | | F | csvsplitter | |
| formatters | table | F | getparameters | |
| F formatcolumns | | F | groupedsplitat | |
| F list | | FI | nash_to_string | |
| F stripzeros | | F : | iterator | |
| garbagecollector | table | FI | keq_to_hash | |
| F check | | F 1 | listitem | |
| N criterium | | Fr | make_settings_to_ | _hash_pattern |
| B enabled | | Fr | mergehashes | |
| lua | table | F | options_to_array | |
| B alwaysstripcode | | F | options_to_hash | |
| F compile | | Τį | oatterns | |
| F loadedluacode | | U | settings_to_arr | ay |
| F loadstripped | | U | settings_to_has | h_a |
| N nofstrippedbytes | | U | settings_to_has | h_b |
| N nofstrippedchunks | 3 | U | settings_to_has | h_c |
| B stripcode | | U | l unittotex | |
| T strippedchunks | | F | orocess_stripped_ | _settings |
| F strippedloadstrin | ng | F | rfc4180splitter | |
| T suffixes | | F | runtime | |
| S lua | | F s | settings_to_array | / |
| S luc | | F s | settings_to_array | _with_repeat |
| S lui | | F s | settings_to_hash | |
| S luj | | | settings_to_hash_ | |
| S luv | | F s | settings_to_hash_ | _tolerant |
| S tma | | | settings_to_set | |
| S tmc | | | simple_hash_to_s | tring |
| S tua | | | splitmethod | |
| S tuc | | | splitthousands | |
| packers | table | | stepper | |
| F hashed | | | stripped_settings | s_to_array |
| F new | | | unittotex | |
| F pack | | | unittoxml .• | £a.t.i.a.a |
| F simplehashed | | repor | | function |
| F strip | | | encers | table |
| F unpack | | Fa | appendaction | |

F appendgroup F compile F disableaction F disablegroup F enableaction F enablegroup D functions F localize F new F nodeprocessor F prependaction F prependgroup F removeaction F replaceaction F setkind F tostrina table setters F disable F enable F initialize F list F new F register F report F reset F show table stacker F new storage table F allocate F checked F mark F marked F setinitializer F sparse table strings F collapsecrlf T formatters F add F new F newrepeater F nice T striplinepatterns

U collapse

U prune U prune and collapse U prune and no empty U retain U retain and collapse U retain and no empty F striplines F striplong F tabtospace T tracers tables table F accesstable F definedtable F definetable F encapsulate F insertaftervalue F insertbeforevalue F migratetable F removevalue F replacevalue templates table F load F replace F replacer F resolve

vf (context)

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

visualizers (context)

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

xml (context)

| addentitiesdoctype | function | D tex | |
|-------------------------|----------|---------------------------|------------|
| after | function | D texline | |
| all | function | | |
| | function | D texspace D verbose | |
| applylpath assign | function | defaultprotocol | string |
| attribute | function | delete | function |
| before | function | delete element | function |
| | function | each | function |
| body builtinentities | table | | function |
| B amp | table | each_element elements | function |
| · r | | elementtocdata | function |
| B apos | | empty | function |
| B gt | | entities | data table |
| B lt | | entities | function |
| B quot cdata | function | erase | function |
| cdatatotext | function | escaped | function |
| checkbom | function | escapeu expressions | table |
| checkerror | function | F boolean | table |
| checknamespace | function | F boolean F child | |
| checkns | function | F contains | |
| cleansed | function | F contains F count | |
| collect | function | F count | |
| collect elements | function | F error F find | |
| collect tags | function | | |
| collect texts | function | F idstring | |
| collected | function | F lower F name | |
| collecteu | function | r name F number | |
| content | function | F number F oneof | |
| convert | function | | |
| | function | F print | |
| copy count | function | F quit | |
| | function | F tag | |
| cprint css | table | F text | |
| | table | F undefined | |
| F colorspecification | | F upper fillin | function |
| F dimension | | filter | function |
| F fontspecification | | finalizers | table |
| F padding | ±=61 = | | table |
| defaulthandlers | table | F paragraphs | |
| D file | | T tex | |
| D parsedxml | | F all | |
| D string | | F attribute | |

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

Т

| match | function | S |
|-------------------------------|----------------------|---------------|
| name | function | S |
| newhandlers | function | S |
| nodesettostring | function | S |
| originalload | function | S |
| package | function | S |
| parent | function | S |
| parsedentitylpeg | userdata | S |
| pihandlers | table | S' |
| F injector | | S |
| placeholders | table | S |
| F unknown_any_entity | | t |
| F unknown_dec_entity | | t |
| F unknown_hex_entity | | t |
| position | function | t |
| privatecodes | table | t |
| privatetoken | function | t |
| process | function | t |
| <pre>process_attributes</pre> | function | t |
| process_elements | function | t |
| processattributes | function | t |
| profiled | table | t |
| raw | function | u |
| registerentity | function | u |
| registerns | function | W |
| reindex | function | W |
| remap_name | function | W |
| remap_namespace | function | X |
| remap_tag | function | |
| remapname | function | |
| remapnamespace | function | |
| remaptag | function | |
| renamespace | function | |
| replace | function | |
| replace_element | function | |
| resetinjectors | function | |
| resolvens | function | |
| root | function function | |
| save | | |
| selection | function | |
| separate | function | |
| serialize | function | |
| setcdata | function | |
| setcomment | function | |

sethandlersfunction function setinjectors function setproperty function settings function specialhandler table print function string function function strip strip whitespace **function** stripelement function stripleadingspaces function table function text function textonly function texttocdata function tocdata function toelement function tostring function totable function toxml function torint function traverse function function unescaped function unprivatized vithelement function withelements function function wrap **xmlns** table

zip (extra lua)

archives table
close function
closearchive function

openarchive function
openfile function
registeredfiles table
type function

zlib (extra lua)

| adler32 | function |
|---------------|----------|
| compress | function |
| compressobj | function |
| crc32 | function |
| decompress | function |
| decompressobj | function |
| version | function |