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

# ConTeXt MkIV

# global (alias: _G)

| | | | |
|---|---|---|---|
| **MP** | table | **environment** | table |
| **_LUAVERSION** | number | **epdf** | table |
| **_MAJORVERSION** | number | **error** | function |
| **_MINORVERSION** | number | **experiments** | table |
| **_cldo_** | function | **figures** | table |
| **arg** | table | **file** | table |
| **assert** | function | **floats** | table |
| **attributes** | table | **font** | table |
| **backends** | table | **fontloader** | table |
| **beginpage** | function | **fonts** | table |
| **bit** | table | **format_n** | function |
| **bit32** | table | **frozen** | boolean |
| **blobs** | table | **functions** | table |
| **boolean** | table | **gcinfo** | function |
| **border_set** | boolean | **getfenv** | function |
| **buffers** | table | **getmetatable** | function |
| **builders** | table | **getpos** | function |
| **caches** | table | **getreadfilename** | function |
| **callback** | table | **getvpos** | function |
| **callbacks** | table | **global** | table |
| **catcodes** | table | **graphics** | table |
| **characters** | table | **gzip** | table |
| **chemistry** | table | **img** | table |
| **collectgarbage** | function | **inspect** | function |
| **commands** | table | **interactions** | table |
| **containers** | table | **interfaces** | table |
| **context** | function | **io** | table |
| **context_applyprocessor** | function | **ipairs** | function |
| **context_firstofoneargument** | function | **jit** | table |
| **converters** | table | **job** | table |
| **coroutine** | table | **lang** | table |
| **ctxrunner** | table | **languages** | table |
| **debug** | table | **layouts** | table |
| **delta** | number | **lfs** | table |
| **dimen** | function | **libraries** | table |
| **dir** | table | **lmx** | table |
| **directives** | table | **lmxconvert** | function |
| **document** | table | **lmxnew** | function |
| **documentdata** | table | **load** | function |
| **dofile** | function | **loadfile** | function |
| **endpage** | function | **loadstring** | function |

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| **logs** | table | **publications** | table |
| **lp_fastpos_n** | userdata | **rawequal** | function |
| **lp_fastpos_p** | userdata | **rawget** | function |
| **lpdf** | table | **rawlen** | function |
| **lpeg** | table | **rawset** | function |
| **ltn12** | table | **regimes** | table |
| **lua** | table | **report_characters** | function |
| **luatex** | table | **require** | function |
| **lxml** | table | **resolve_fences** | function |
| **marknocite** | function | **resolvers** | table |
| **math** | table | **scripts** | table |
| **mathematics** | table | **select** | function |
| **mbox** | table | **set** | table |
| **md5** | table | **setcharacteralign** | function |
| **metapost** | table | **setfenv** | function |
| **mime** | table | **setinspector** | function |
| **module** | function | **setmetatable** | function |
| **moduledata** | table | **socket** | table |
| **modules** | table | **sorters** | table |
| **mp** | table | **statistics** | table |
| **mplib** | table | **status** | table |
| **newline** | function | **storage** | table |
| **newproxy** | function | **streams** | table |
| **next** | function | **string** | table |
| **noads** | table | **stripmath** | function |
| **node** | table | **structures** | table |
| **nodes** | table | **swiglib** | function |
| **number** | table | **table** | table |
| **optionalrequire** | function | **tex** | table |
| **os** | table | **texconfig** | table |
| **outputpagestree** | function | **texio** | table |
| **package** | table | **thirddata** | table |
| **pagebuilders** | table | **toboolean** | function |
| **pairs** | function | **token** | table |
| **parametersets** | table | **tokens** | table |
| **pattern** | table | **tonumber** | function |
| **pcall** | function | **tostring** | function |
| **pdf** | table | **trace_characters** | boolean |
| **pdfborder** | function | **tracers** | table |
| **pdfscanner** | table | **trackers** | table |
| **physics** | table | **type** | function |
| **print** | function | **typesetters** | table |
| **profiler** | table | **unicode** | table |
| **protect** | function | **unpack** | function |

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| **url** | table |
| **userdata** | table |
| **utf** | table |
| **utilities** | table |
| **vf** | table |
| **visualizers** | table |
| **xml** | table |
| **xmlconvert** | function |
| **xpcall** | function |
| **zip** | table |
| **zlib** | table |

# attributes (context)

**colorintents**    table
- N attribute
- D data
- F enable
- F handler
- F register
- D registered

**colors**    table
- N attribute
- F cmyk
- F cmyktogray
- F cmyktorgb
- F colorcomponents
- B couple
- D data
- N default
- F defineintermediatecolor
- F definemixcolor
- F definemultitonecolor
- F defineprocesscolor
- F definesimplegray
- F definespotcolor
- F definetransparency
- F enable
- F filter
- F forcedmodel
- F forcesupport
- F formatcolor
- F formatgray
- F gray
- F graytohsv
- F handler
- F hsvtogray
- F hsvtorgb
- F iccprofile
- F isblack
- N main
- S model
- D models
- F mpcolor
- F mpnamedcolor

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

**define**    function
**effects**    table
- N attribute
- D data
- F enable
- F handler
- F register
- D registered
- D values

**handlers**    table
**list**    data table
**names**    data table
**negatives**    table

| | | | | |
|---|---|---|---|---|
| N | attribute | | F | register |
| D | data | | D | registered |
| F | enable | | F | resolve_begin |
| F | handler | | F | resolve_end |
| F | register | | F | resolve_step |
| D | registered | | D | scopes |

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|---|---|---|---|---|
| **numbers** | data table | | F | setfeatures |
| **ofnode** | function | | F | start |
| **private** | function | | F | stop |
| **public** | function | | B | supported |
| **showcurrent** | function | | D | values |
| **states** | table | | | |

F disabletriggering

F enabletriggering

F finalize

F initialize

F process

F selective

F stacked

F stacker

**system** function

**transparencies** table

N attribute

D data

F enable

F forcesupport

F handler

U none

F register

D registered

B supported

B triggering

F value

D values

**unsetvalue** number

**viewerlayers** table

N attribute

D data

F define

F enable

F forcesupport

F handler

B hasorder

D listwise

# backends (context)

**codeinjections** table
   F synchronizecolormodel
**current** string
**defaults** table
   T codeinjections
     F gethpos
     F getmatrix
     F getpos
     F getvpos
     F hasmatrix
   T nodeinjections
   T registrations
   D tables
**install** function
**nodeinjections** table
   F restore
   F save
   F transform
**nothing** function
**pdf** table
   T codeinjections
     F addbookmarks
     F attachmentid
     F clonefield
     F definefield
     F definefieldset
     F defineviewerlayer
     F embedfile
     F enabletags
     F exportformdata
     F getdefaultfieldvalue
     F getfieldcategory
     F getfieldset
     F getformatoption
     F gethpos
     F getmatrix
     F getoutputfilename
     F getpos
     F getpreviewfigure
     F getvpos
     F hasmatrix

     F insertrenderingwindow
     F mergereferences
     F mergeviewerlayers
     F prerollreference
     F presetsymbol
     F presetsymbollist
     F processrendering
     F registerdocumentcloseaction
     F registerdocumentopenaction
     F registeredsymbol
     F registerpagecloseaction
     F registerpageopenaction
     F registersymbol
     F setfieldcalculationset
     F setfigurealternative
     F setfigurecolorspace
     F setfiguremask
     F setformat
     F setformsmethod
     F setpagetransition
     F setupcanvas
     F setupidentity
     F setxmpfile
     F startlayer
     F stoplayer
     F supportedformats
     F unicodetoactualtext
     F useviewerlayer
     F validfield
     F validfieldcategory
     F validfieldset
   S comment
   T nodeinjections
     F addtags
     F annotation
     F attachfile
     F changestackedlayer
     F cmykcolor
     F comment
     F destination
     F effect

F graycolor

    F injectbitmap

    F insertmovie

    F insertsound

    F insertswf

    F insertu3d

    F knockout

    F negative

    F overprint

    F positive

    F reference

    F rgbcolor

    F spotcolor

    F startlayer

    F startstackedlayer

    F stoplayer

    F stopstackedlayer

    F transparency

    F typesetfield

  T registrations

    F cmykindexcolor

    F cmykspotcolor

    F getspotcolorreference

    F grayindexcolor

    F grayspotcolor

    F rgbindexcolor

    F rgbspotcolor

    F spotcolorname

    F transparency

  T tables

    D vfspecials

**registrations**   table

**tables**   table

# bit (context)

| | |
|---|---|
| **arshift** | function |
| **band** | function |
| **bnot** | function |
| **bor** | function |
| **bswap** | function |
| **bxor** | function |
| **lshift** | function |
| **rol** | function |
| **ror** | function |
| **rshift** | function |
| **tobit** | function |
| **tohex** | function |

# bit32 (basic lua)

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

# blobs (context)

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

# boolean (context)

**tocontext**   function
**tonumber**    function

# buffers (context)

| | |
|---|---|
| **append** | function |
| **assign** | function |
| **collectcontent** | function |
| **erase** | function |
| **exists** | function |
| **getcontent** | function |
| **getlines** | function |
| **loadcontent** | function |
| **parallel** | table |

    F define

    F hassomecontent

    F next

    F place

    F reset

    F save

| | |
|---|---|
| **prepend** | function |
| **raw** | function |

# builders (context)

**kernel**   table
- F hyphenation
- F kerning
- F ligaturing
- F mlist_to_hlist

**paragraphs**   table
- T constructors
  - N attribute
  - F define
  - F disable
  - F enable
  - F handler
  - T methods
    - F basic
    - F default
    - F oneline
  - D names
  - D numbers
  - F set
  - F start
  - F stop
- T expansion
  - F trace
- F keeptogether
- F registertogether
- T solutions
  - T splitters
    - F define
    - F optimize
    - T registered
    - F reset
    - F set
    - F split
    - F start
    - F stop
- F tag

**vspacing**   table
- F analyze
- D categories
- F collapsevbox
- T data

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

# caches (context)

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

# callback (basic tex)

**find**     function
**list**     function
**register** overloaded function

# callbacks (context)

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

# catcodes (context)

**names**    data table
**numbers**  data table
**register** function

# characters (context)

| | | | |
|---|---|---|---|
| **activeoffset** | number | S | B |
| **adobename** | function | S | C |
| **bidi** | data table | S | D |
| **blockrange** | function | S | E |
| **blocks** | data table | S | F |
| **casemap** | table | S | G |
| **categories** | data table | S | H |
| **category** | function | S | I |
| **categorytags** | data table | S | J |
| **collapsed** | data table | S | K |
| **combined** | data table | S | L |
| **contextname** | function | S | M |
| **data** | data table | S | N |
| **decomposed** | data table | S | O |
| **define** | function | S | P |
| **description** | function | S | Q |
| **descriptions** | data table | S | R |
| **directions** | table | S | S |
| **enccodes** | data table | S | T |
| **entities** | data table | S | U |
| **fallbacks** | data table | S | V |
| **filters** | data table | S | W |
| **fromnumber** | function | S | X |
| **fschars** | data table | S | Y |
| **fscodes** | data table | S | Z |
| **getrange** | function | S | À |
| **graphemes** | data table | S | Á |
| **hangul** | data table | S | Â |
| **initialize** | function | S | Ã |
| **is_character** | data table | S | Ä |
| **is_command** | data table | S | Å |
| **is_letter** | data table | S | Æ |
| **is_mark** | data table | S | Ç |
| **is_punctuation** | data table | S | È |
| **is_spacing** | data table | S | É |
| **lcchars** | data table | S | Ê |
| **lccode** | function | S | Ë |
| **lccodes** | data table | S | Ì |
| **lettered** | function | S | Í |
| **lhash** | table | S | Î |
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| **linebreaks** | table | | **mirrors** | table |
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| S al | | | **ranges** | data table |
| S b2 | | | **registerentities** | function |
| S ba | | | **remap_hangul_syllabe** | function |
| S bb | | | **setcodes** | function |
| S bk | | | **shape** | function |
| S cb | | | **shaped** | function |
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| S | | **specialchars** | data table |
| S | | **specials** | data table |
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| **shchars** | data table |
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    D accentmapping
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| **tonumber** | function |
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| **uccodes** | data table |
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| **unicodechar** | function |
| **upper** | function |

# chemistry (context)

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

# commands (context)

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|---|---|---|---|
| **Alphabetic** | function | **assignbuffer** | function |
| **Character** | function | **attachproperty** | function |
| **Characters** | function | **autofinishstructurelevels** | function |
| **MPc** | function | **autonextspace** | function |
| **MPd** | function | **autonextstructurelevel** | function |
| **MPh** | function | **autosetups** | function |
| **MPll** | function | **autostarttext** | function |
| **MPlr** | function | **autostoptext** | function |
| **MPls** | function | **averagecharwidth** | function |
| **MPn** | function | **bcolumn** | function |
| **MPp** | function | **boolcase** | function |
| **MPpardata** | function | **boxtostring** | function |
| **MPplus** | function | **btx_a_f** | function |
| **MPpos** | function | **btx_a_i** | function |
| **MPposset** | function | **btx_a_j** | function |
| **MPr** | function | **btx_a_s** | function |
| **MPrest** | function | **btx_a_v** | function |
| **MPrs** | function | **btxabbreviatedjournal** | function |
| **MPul** | function | **btxaddfield** | function |
| **MPur** | function | **btxaddjournal** | function |
| **MPw** | function | **btxauthor** | function |
| **MPx** | function | **btxauthorfield** | function |
| **MPxy** | function | **btxcollectlistentries** | function |
| **MPxywhd** | function | **btxdetail** | function |
| **MPy** | function | **btxdoif** | function |
| **Romannumerals** | function | **btxdoifelse** | function |
| **abjadnodotnumerals** | function | **btxdoifnot** | function |
| **abjadnumerals** | function | **btxexpandedjournal** | function |
| **addbtxentry** | function | **btxfetchlistentries** | function |
| **addcounter** | function | **btxfield** | function |
| **addlinklistelement** | function | **btxflush** | function |
| **addreplacements** | function | **btxflushlistentries** | function |
| **addtojavascriptpreamble** | function | **btxhandlecite** | function |
| **addtolist** | function | **btxhandlenocite** | function |
| **allinputpaths** | function | **btxlistvariant** | function |
| **alphabetic** | function | **btxloadjournallist** | function |
| **analysefloatmethod** | function | **btxpreparelistentries** | function |
| **analyzelist** | function | **btxsavejournallist** | function |
| **applytochars** | function | **btxsingularorplural** | function |
| **applytofirstcharacter** | function | **buildtextaccent** | function |
| **applytowords** | function | **character** | function |

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| **characters** | function | **definecharacterspacing** | function |
| **chardescription** | function | **definechemical** | function |
| **checkcharactersinfont** | function | **defineconversion** | function |
| **checkcountersetup** | function | **definecounter** | function |
| **checkedconversion** | function | **definedviewerlayer** | function |
| **checkedpagefloat** | function | **definefallbackfamily** | function |
| **checktwopassdata** | function | **definefield** | function |
| **chemicalcomponent** | function | **definefieldset** | function |
| **chineseallnumerals** | function | **definefilefallback** | function |
| **chinesecapnumerals** | function | **definefilesynonym** | function |
| **chinesenumerals** | function | **definefont_one** | function |
| **cleanfontname** | function | **definefont_two** | function |
| **cleanupbox** | function | **definefontfamily** | function |
| **cleanuplayers** | function | **definefontfeature** | function |
| **clonefield** | function | **definefontsolution** | function |
| **collectfloat** | function | **defineinsertion** | function |
| **collecthelp** | function | **defineintermediatecolor** | function |
| **colorcomponents** | function | **definelabels** | function |
| **concatcommalist** | function | **definelanguage** | function |
| **consultfloat** | function | **definelinkedlist** | function |
| **convertbtxdatasettoxml** | function | **definemarking** | function |
| **converteddimen** | function | **definemetafont** | function |
| **copyposition** | function | **definemultitonecolor** | function |
| **cos** | function | **definenote** | function |
| **cosd** | function | **defineparallel** | function |
| **countervalue** | function | **defineparbuilder** | function |
| **counttwopassdata** | function | **defineprocesscolor** | function |
| **ctxfunction** | function | **defineprogram** | function |
| **currentcomponent** | function | **definereference** | function |
| **currentdate** | function | **defineregister** | function |
| **currentenvironment** | function | **definesectionlevels** | function |
| **currentproduct** | function | **defineselectfont** | function |
| **currentproject** | function | **definesnapmethod** | function |
| **currentreferencedefault** | function | **definespotcolor** | function |
| **currentreferenceorder** | function | **definestructureblock** | function |
| **currentregime** | function | **definestructureset** | function |
| **currentsectiontolist** | function | **definetransparency** | function |
| **datasetvariable** | function | **definetwopasslist** | function |
| **dayname** | function | **defineviewerlayer** | function |
| **deferredproperty** | function | **defrostrandomseed** | function |
| **defineattribute** | function | **depthnumber** | function |
| **definebreakpoint** | function | **digits** | function |
| **definebreakpoints** | function | **disableautofontscript** | function |
| **definecatcodetable** | function | **disableparbuilder** | function |

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| **disableregime** | function | **doifnotcounter** | function |
| **disablespellchecking** | function | **doifnotecontent** | function |
| **discardfromlist** | function | **doifnoteonsamepageasprevious** | function |
| **doanalyzeframedbox** | function | **doifobjectreferencefoundelse** | function |
| **doif** | function | **doifolderversionelse** | function |
| **doifblackelse** | function | **doifoverlappingelse** | function |
| **doifcommonelse** | function | **doifparentfileelse** | function |
| **doifcounter** | function | **doifpathexistelse** | function |
| **doifdimenstringelse** | function | **doifposition** | function |
| **doifdrawingblackelse** | function | **doifpositionelse** | function |
| **doifelse** | function | **doifpositiononpage** | function |
| **doifelsebuffer** | function | **doifpositionsonsamepageelse** | function |
| **doifelsecontinuewithfile** | function | **doifpositionsonthispageelse** | function |
| **doifelsecounter** | function | **doifurldefinedelse** | function |
| **doifelsecurrentfonthasfeature** | function | **doprocesstypescriptfile** | function |
| **doifelseintwopassdata** | function | **doreshapeframedbox** | function |
| **doifelsemarking** | function | **dostarttextfile** | function |
| **doifelsemessage** | function | **dostoptextfile** | function |
| **doifelsemultipar** | function | **ecolumn** | function |
| **doifelseparallel** | function | **elapsedtime** | function |
| **doifelsepositionsused** | function | **enableautofontscript** | function |
| **doifelserangeonpage** | function | **enablecolor** | function |
| **doifelsereference** | function | **enablecolorintents** | function |
| **doifelsesavedfloat** | function | **enablefontcolorschemes** | function |
| **doifelsespaces** | function | **enableparbuilder** | function |
| **doifelseutfmathabove** | function | **enableregime** | function |
| **doifelseutfmathaccent** | function | **enablespellchecking** | function |
| **doifelseutfmathbelow** | function | **enabletransparency** | function |
| **doifelsevisualizer** | function | **enhancelinkedlist** | function |
| **doiffieldcategoryelse** | function | **enhancelist** | function |
| **doiffieldelse** | function | **enhancereference** | function |
| **doiffieldsetelse** | function | **enhanceregister** | function |
| **doiffiledefinedelse** | function | **erasebuffer** | function |
| **doiffileexistelse** | function | **expandcurrentreference** | function |
| **doiffirstcharelse** | function | **exportformdata** | function |
| **doifinputfileelse** | function | **exportreferences** | function |
| **doifinsetelse** | function | **extendregister** | function |
| **doifleapyearelse** | function | **extensiblecode** | function |
| **doiflisthasentry** | function | **feature** | function |
| **doiflisthasnumberelse** | function | **featureattribute** | function |
| **doiflisthaspageelse** | function | **featurelist** | function |
| **doiflisthastitleelse** | function | **feedback** | function |
| **doiflocfileelse** | function | **fetchallmarks** | function |
| **doifnot** | function | **fetchmultipar** | function |

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| **fetchmultishape** | function | **getbuffermkvi** | function |
| **fetchonemark** | function | **getcommandline** | function |
| **fetchposboxes** | function | **getctxfile** | function |
| **fetchtwomarks** | function | **getcurrentprefixspec** | function |
| **figurefilename** | function | **getcurrentreferencemetadata** | function |
| **figurefilepath** | function | **getcurrentsectionlevel** | function |
| **figurefiletype** | function | **getdefaultfieldvalue** | function |
| **figurerequest** | function | **getelementtag** | function |
| **figurestatus** | function | **getfieldcategory** | function |
| **figureused** | function | **getfirstcharacter** | function |
| **figurevariable** | function | **getfirsttwopassdata** | function |
| **filterdefaultreference** | function | **getfloatvariable** | function |
| **filterreference** | function | **getfullsectionnumber** | function |
| **finalizebox** | function | **getinternallistreference** | function |
| **findtwopassdata** | function | **getinternalreference** | function |
| **firstcountervalue** | function | **getlasttwopassdata** | function |
| **firstinrange** | function | **getmarking** | function |
| **firstinset** | function | **getmessage** | function |
| **flushfloat** | function | **getmpextensions** | function |
| **flushmarked** | function | **getnotestate** | function |
| **flushnotes** | function | **getplaceholderchar** | function |
| **flushpostponedblocks** | function | **getprivatechar** | function |
| **flushpostponednotes** | function | **getprogram** | function |
| **fontchar** | function | **getrandomcounta** | function |
| **fontcollectionclone** | function | **getrandomcountb** | function |
| **fontcollectiondefine** | function | **getrandomseed** | function |
| **fontcollectionprepare** | function | **getreadfilename** | function |
| **fontcollectionregister** | function | **getsectionnumber** | function |
| **fontcollectionreport** | function | **getstructuredata** | function |
| **fontcollectionreset** | function | **getsubstring** | function |
| **fontlookupgetkey** | function | **gettexbuffer** | function |
| **fontlookupgetkeyofindex** | function | **gettwopassdata** | function |
| **fontlookupinitialize** | function | **gettwopassdatalist** | function |
| **fontlookupnoffound** | function | **geturl** | function |
| **forceendjob** | function | **grabbuffer** | function |
| **forcequitjob** | function | **hboxtovbox** | function |
| **format** | function | **helpaction** | function |
| **formatcolor** | function | **helpreference** | function |
| **formatgray** | function | **hexstringtonumber** | function |
| **freezerandomseed** | function | **horizontalcode** | function |
| **from** | function | **hour** | function |
| **getbidimode** | function | **hyphenatedlist** | function |
| **getbuffer** | function | **hyphenatedurl** | function |
| **getbufferctxlua** | function | D characters | |

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| N lefthyphenmin | | **lower** | function |
| D mapping | | **makeactive** | function |
| N righthyphenmin | | **manipulated** | function |
| F setcharacters | | **markfonts** | function |
| **immediateproperty** | function | **markingnumber** | function |
| **incrementedcounter** | function | **markingtitle** | function |
| **initializetexdirectives** | function | **markregionbox** | function |
| **initializetextrackers** | function | **math_frac** | function |
| **injectcurrentreference** | function | **mathrenderset** | function |
| **injectreference** | function | **maxitemwidth** | function |
| **inlinechemical** | function | **minute** | function |
| **insertattachment** | function | **mixcleanup** | function |
| **insertcomment** | function | **mixfinalize** | function |
| **insertfield** | function | **mixflushlist** | function |
| **insertionnumber** | function | **mixflushrest** | function |
| **insertrenderingwindow** | function | **mixgetsplit** | function |
| **insertsoundclip** | function | **mixsetsplit** | function |
| **installedlanguages** | function | **mixstate** | function |
| **installtexdirective** | function | **molecule** | function |
| **installtextracker** | function | **month** | function |
| **languagenumber** | function | **monthmnem** | function |
| **lastcountervalue** | function | **monthname** | function |
| **lchexnumber** | function | **mpcolor** | function |
| **lchexnumbers** | function | **mpoptions** | function |
| **leapyear** | function | **mprunvar** | function |
| **linenumbersstageone** | function | **namedstructureuservariable** | function |
| **linenumbersstagetwo** | function | **namedstructurevariable** | function |
| **listgroupindex** | function | **nbfs** | function |
| **listlabel** | function | **nextcountervalue** | function |
| **listlocation** | function | **nextparallel** | function |
| **listprefixednumber** | function | **nofdays** | function |
| **listprefixedpage** | function | **nofitems** | function |
| **listrealpage** | function | **nofstackedfloats** | function |
| **listsize** | function | **notedeltapage** | function |
| **listtitle** | function | **notelistindex** | function |
| **listuserdata** | function | **notenumberpage** | function |
| **loadbtxdefinitionfile** | function | **noteprefixednumber** | function |
| **loadexamodes** | function | **notesymbolpage** | function |
| **loadfontgoodies** | function | **notetitle** | function |
| **loadspellchecklist** | function | **ntimes** | function |
| **loadtypescriptfile** | function | **number** | function |
| **loadvisualizer** | function | F C | |
| **locatefilepath** | function | F FL | |
| **locfilename** | function | F HL | |

```
F L
F LL
F LuaSnippet
F LuaSnippetBoundary
F LuaSnippetComment
F LuaSnippetName
F LuaSnippetNameBase
F LuaSnippetNameCore
F LuaSnippetNameLibraries
F LuaSnippetQuote
F LuaSnippetSpecial
F LuaSnippetString
F ML
F MPLIBsetCtext
F MPLIBsetNtext
F MPcolor
F MetapostSnippet
F MetapostSnippetBoundary
F MetapostSnippetComment
F MetapostSnippetConstructor
F MetapostSnippetName
F MetapostSnippetNameMetafun
F MetapostSnippetNamePlain
F MetapostSnippetNamePrimitive
F MetapostSnippetQuote
F MetapostSnippetSpecial
F MetapostSnippetString
F NC
F NR
F ParsedXmlSnippetCdata
F ParsedXmlSnippetComment
F ParsedXmlSnippetDoctype
F ParsedXmlSnippetElement
F ParsedXmlSnippetInstruction
F ParsedXmlSnippetKey
F ParsedXmlSnippetValue
F TexSnippet
F TexSnippetBoundary
F TexSnippetComment
F TexSnippetGroup
F TexSnippetName
F TexSnippetSpecial
F XmlSnippet
F XmlSnippetBoundary

F XmlSnippetCdata
F XmlSnippetComment
F XmlSnippetEntity
F XmlSnippetEqual
F XmlSnippetKey
F XmlSnippetName
F XmlSnippetString
F __flush
F __flushdirect
F __flushlines
F a
F addaskedblankskip
F addpredefinedblankskip
F applyprocessor
F b
F beginhbox
F beginvbox
F bf
F bgroup
F blank
F bold
F btxchecklistcombi
F btxchecklistentry
F btxciteauthorsetup
F btxcitesetup
F btxcitevariantparameter
F btxdirectlink
F btxhandlelistentry
F btxlistauthorsetup
F btxlistparameter
F btxlistsetup
F btxlistvariantparameter
F btxmissing
F btxsetauthorindex
F btxsetauthorvariant
F btxsetbacklink
F btxsetbacktrace
F btxsetcategory
F btxsetcitereference
F btxsetcombis
F btxsetconcat
F btxsetcount
F btxsetdataset
F btxsetfirst
```

F btxsetfirstnames

F btxsetinitials

F btxsetinternal

F btxsetjuniors

F btxsetlanguage

F btxsetlistreference

F btxsetnumber

F btxsetoverflow

F btxsetsecond

F btxsetsurnames

F btxsettag

F btxsetthird

F btxsetvons

F btxstartauthor

F btxstartcite

F btxstartciteauthor

F btxstartsubcite

F btxstopauthor

F btxstopcite

F btxstopciteauthor

F btxstopsubcite

F c

F callfunctiononce

F char

F chardef

F color

F colordefagc

F colordefagt

F colordefalc

F colordefalt

F colordeffgc

F colordeffgt

F colordefflc

F colordefflt

F colordefrgc

F colordefrgt

F colordefrlc

F colordefrlt

F concat

F constructcs

F constructcsonly

F convertnumber

F ctxreport

F d

F darkblue

F darkgreen

F darkred

F definefontsynonym

T delayed

F digitsdigit

F digitsfinalcomma

F digitsfinalperiod

F digitshighspace

F digitsintermediatecomma

F digitsintermediateperiod

F digitsminus

F digitsnegative

F digitsplus

F digitspositive

F digitspower

F digitspowerminus

F digitspowerplus

F digitsseparatorspace

F digitssignspace

F digitsspace

F digitszeropadding

F direct

F dodisplayverbatimbeginline

F dodisplayverbatimemptyline

F dodisplayverbatiminitialize

F dodisplayverbatimnewline

F dodisplayverbatimstart

F dodisplayverbatimstop

F dofastdefinetypeface

F dofinishsomereference

F dofromfiledescription

F dofromfileliteral

F dofromurldescription

F dofromurlliteral

F doinlineverbatimbeginline

F doinlineverbatimemptyline

F doinlineverbatimnewline

F doinlineverbatimstart

F doinlineverbatimstop

F donestedtypingstart

F donestedtypingstop

F dostarttext

F doverbatimspace

F egroup

F emptyreference

F enablemode

F endhbox

F endvbox

F environment

F expandreferencearguments

F expandreferenceoperation

F finalizeautostructurelevel

F finishjob

F firstofoneargument

F firstoftwoarguments

F fixedblankskip

F flexibleblankskip

F flushblankhandling

F flushboxregister

F flushnode

F fntsetdefname

F fntsetnopsize

F fntsetsomename

F fntsetsomesize

T formatted

F fprint

T generics

  S starttabulate

  S stoptabulate

F getlogger

F getreferencestructureprefix

F getvalue

F glyph

F gobbleoneargument

F goto

F hrule

F input

T knownfunctions

F l

F lateluafunction

F letvaluerelax

F llap

F loadfile

F loadfoundtypescriptfile

F luasetup

F m

F makelinenumber

T metafun

  F color

  T delayed

  F start

  F stop

T nested

  F markingcommand

  F markingseparator

F newbox

F newcount

F newdimen

F newindexer

F newmuskip

F newskip

F newtexthandler

F newtoks

F newverbosehandler

F nointerlineskip

F normalatop

F normalover

F overstrike

F par

F pdfliteral

F popcatcodes

F poplogger

F printlines

F processfilemany

F processfilenone

F processfileonce

F protect

T puretext

F pushcatcodes

F pushlogger

F registerentry

F registerfunction

F registeronepage

F registerpagerange

F registerseeword

F reservefunction

F rlap

F rotate

F runfile

F secondoftwoarguments

F setblankcategory

| | |
|---|---|
| F setblankorder | F stopTexSnippet |
| F setblankpenalty | F stopXmlSnippet |
| F setconditional | F stopblankhandling |
| F setfalsevalue | F stopcolumns |
| F sethboxregister | F stopcomponentindeed |
| F setsomevalue | F stopenvironmentindeed |
| F settabulateentry | F stopfontclass |
| F settabulatelastentry | F stophboxregister |
| F settracing | F stopproductindeed |
| F setupsystem | F stopprojectindeed |
| F setupwithargument | F stopreadingfile |
| F setvalue | F stopregisterentries |
| F setvboxregister | F stopregisterentry |
| F setxvalue | F stopregisteroutput |
| F space | F stopregisterpages |
| F sprint | F stopregistersection |
| F startLuaSnippet | F stopregisterseewords |
| F startMetapostSnippet | F stoptabulate |
| F startParsedXmlSnippet | F stoptext |
| F startTexSnippet | F stoptitle |
| F startXmlSnippet | F stopvboxregister |
| F startblankhandling | F stopxtitle |
| F startcolumns | F storenode |
| F startcomponentindeed | F synonymentry |
| F startenvironmentindeed | F tabulaterow |
| F startfontclass | F tabulaterowbold |
| F starthboxregister | F tabulaterowtyp |
| F startproductindeed | F tabulaterowtype |
| F startprojectindeed | F template |
| F startreadingfile | T templates |
| F startregisterentries | F texsetup |
| F startregisterentry | F tobuffer |
| F startregisteroutput | F tocontext |
| F startregisterpages | F tolines |
| F startregistersection | F unitsC |
| F startregisterseewords | F unitsN |
| F starttabulate | F unitsNspace |
| F starttext | F unitsNstart |
| F starttitle | F unitsNstop |
| F startvboxregister | F unitsO |
| F startxtitle | F unitsP |
| F stopLuaSnippet | F unitsPS |
| F stopMetapostSnippet | F unitsPU |
| F stopParsedXmlSnippet | F unitsPUS |

F unitsQ
F unitsS
F unitsU
F unitsUS
F unprotect
F unregisterfunction
F usemodule
F utfchar
T verbatim
 F LuaSnippetBoundary
 F LuaSnippetComment
 F LuaSnippetName
 F LuaSnippetNameBase
 F LuaSnippetNameCore
 F LuaSnippetNameLibraries
 F LuaSnippetQuote
 F LuaSnippetSpecial
 F LuaSnippetString
 F MetapostSnippetBoundary
 F MetapostSnippetComment
 F MetapostSnippetConstructor
 F MetapostSnippetName
 F MetapostSnippetNameMetafun
 F MetapostSnippetNamePlain
 F MetapostSnippetNamePrimitive
 F MetapostSnippetQuote
 F MetapostSnippetSpecial
 F MetapostSnippetString
 F ParsedXmlSnippetCdata
 F ParsedXmlSnippetComment
 F ParsedXmlSnippetDoctype
 F ParsedXmlSnippetElement
 F ParsedXmlSnippetInstruction
 F TexSnippetBoundary
 F TexSnippetComment
 F TexSnippetGroup
 F TexSnippetName
 F TexSnippetSpecial
 F XmlSnippetBoundary
 F XmlSnippetCdata
 F XmlSnippetComment
 F XmlSnippetEntity
 F XmlSnippetEqual
 F XmlSnippetKey
 F XmlSnippetName
 F XmlSnippetString
 F ctxreport
F viafile
F vrule
F xmlcdataafter
F xmlcdatabefore
F xmlcdataobeyedline
F xmlcdataobeyedspace
F xmlprocessbuffer
F xmlsetup

**numbers**                                    function

F C
F FL
F HL
F L
F LL
F LuaSnippet
F LuaSnippetBoundary
F LuaSnippetComment
F LuaSnippetName
F LuaSnippetNameBase
F LuaSnippetNameCore
F LuaSnippetNameLibraries
F LuaSnippetQuote
F LuaSnippetSpecial
F LuaSnippetString
F ML
F MPLIBsetCtext
F MPLIBsetNtext
F MPcolor
F MetapostSnippet
F MetapostSnippetBoundary
F MetapostSnippetComment
F MetapostSnippetConstructor
F MetapostSnippetName
F MetapostSnippetNameMetafun
F MetapostSnippetNamePlain
F MetapostSnippetNamePrimitive
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F MetapostSnippetSpecial
F MetapostSnippetString
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F NR

F ParsedXmlSnippetCdata

F ParsedXmlSnippetComment

F ParsedXmlSnippetDoctype

F ParsedXmlSnippetElement

F ParsedXmlSnippetInstruction

F ParsedXmlSnippetKey

F ParsedXmlSnippetValue

F TexSnippet

F TexSnippetBoundary

F TexSnippetComment

F TexSnippetGroup

F TexSnippetName

F TexSnippetSpecial

F XmlSnippet

F XmlSnippetBoundary

F XmlSnippetCdata

F XmlSnippetComment

F XmlSnippetEntity

F XmlSnippetEqual

F XmlSnippetKey

F XmlSnippetName

F XmlSnippetString

F __flush

F __flushdirect

F __flushlines

F a

F addaskedblankskip

F addpredefinedblankskip

F applyprocessor

F b

F beginhbox

F beginvbox

F bf

F bgroup

F blank

F bold

F btxchecklistcombi

F btxchecklistentry

F btxciteauthorsetup

F btxcitesetup

F btxcitevariantparameter

F btxdirectlink

F btxhandlelistentry

F btxlistauthorsetup

F btxlistparameter

F btxlistsetup

F btxlistvariantparameter

F btxmissing

F btxsetauthorindex

F btxsetauthorvariant

F btxsetbacklink

F btxsetbacktrace

F btxsetcategory

F btxsetcitereference

F btxsetcombis

F btxsetconcat

F btxsetcount

F btxsetdataset

F btxsetfirst

F btxsetfirstnames

F btxsetinitials

F btxsetinternal

F btxsetjuniors

F btxsetlanguage

F btxsetlistreference

F btxsetnumber

F btxsetoverflow

F btxsetsecond

F btxsetsurnames

F btxsettag

F btxsetthird

F btxsetvons

F btxstartauthor

F btxstartcite

F btxstartciteauthor

F btxstartsubcite

F btxstopauthor

F btxstopcite

F btxstopciteauthor

F btxstopsubcite

F c

F callfunctiononce

F char

F chardef

F color

F colordefagc

F colordefagt

F colordefalc

```
F  colordefalt                              F  dofastdefinetypeface
F  colordeffgc                              F  dofinishsomereference
F  colordeffgt                              F  dofromfiledescription
F  colordefflc                              F  dofromfileliteral
F  colordefflt                              F  dofromurldescription
F  colordefrgc                              F  dofromurlliteral
F  colordefrgt                              F  doinlineverbatimbeginline
F  colordefrlc                              F  doinlineverbatimemptyline
F  colordefrlt                              F  doinlineverbatimnewline
F  concat                                   F  doinlineverbatimstart
F  constructcs                              F  doinlineverbatimstop
F  constructcsonly                          F  donestedtypingstart
F  convertnumber                            F  donestedtypingstop
F  ctxreport                                F  dostarttext
F  d                                        F  doverbatimspace
F  darkblue                                 F  egroup
F  darkgreen                                F  emptyreference
F  darkred                                  F  enablemode
F  definefontsynonym                        F  endhbox
T  delayed                                  F  endvbox
F  digitsdigit                              F  environment
F  digitsfinalcomma                         F  expandreferencearguments
F  digitsfinalperiod                        F  expandreferenceoperation
F  digitshighspace                          F  finalizeautostructurelevel
F  digitsintermediatecomma                  F  finishjob
F  digitsintermediateperiod                 F  firstofoneargument
F  digitsminus                              F  firstoftwoarguments
F  digitsnegative                           F  fixedblankskip
F  digitsplus                               F  flexibleblankskip
F  digitspositive                           F  flushblankhandling
F  digitspower                              F  flushboxregister
F  digitspowerminus                         F  flushnode
F  digitspowerplus                          F  fntsetdefname
F  digitsseparatorspace                     F  fntsetnopsize
F  digitssignspace                          F  fntsetsomename
F  digitsspace                              F  fntsetsomesize
F  digitszeropadding                        T  formatted
F  direct                                   F  fprint
F  dodisplayverbatimbeginline               T  generics
F  dodisplayverbatimemptyline                 S  starttabulate
F  dodisplayverbatiminitialize                S  stoptabulate
F  dodisplayverbatimnewline                 F  getlogger
F  dodisplayverbatimstart                   F  getreferencestructureprefix
F  dodisplayverbatimstop                    F  getvalue
```

F glyph

F gobbleoneargument

F goto

F hrule

F input

T knownfunctions

F l

F lateluafunction

F letvaluerelax

F llap

F loadfile

F loadfoundtypescriptfile

F luasetup

F m

F makelinenumber

T metafun

  F color

  T delayed

  F start

  F stop

T nested

  F markingcommand

  F markingseparator

F newbox

F newcount

F newdimen

F newindexer

F newmuskip

F newskip

F newtexthandler

F newtoks

F newverbosehandler

F nointerlineskip

F normalatop

F normalover

F overstrike

F par

F pdfliteral

F popcatcodes

F poplogger

F printlines

F processfilemany

F processfilenone

F processfileonce

F protect

T puretext

F pushcatcodes

F pushlogger

F registerentry

F registerfunction

F registeronepage

F registerpagerange

F registerseeword

F reservefunction

F rlap

F rotate

F runfile

F secondoftwoarguments

F setblankcategory

F setblankorder

F setblankpenalty

F setconditional

F setfalsevalue

F sethboxregister

F setsomevalue

F settabulateentry

F settabulatelastentry

F settracing

F setupsystem

F setupwithargument

F setvalue

F setvboxregister

F setxvalue

F space

F sprint

F startLuaSnippet

F startMetapostSnippet

F startParsedXmlSnippet

F startTexSnippet

F startXmlSnippet

F startblankhandling

F startcolumns

F startcomponentindeed

F startenvironmentindeed

F startfontclass

F starthboxregister

F startproductindeed

F startprojectindeed

| | |
|---|---|
| F startreadingfile | T templates |
| F startregisterentries | F texsetup |
| F startregisterentry | F tobuffer |
| F startregisteroutput | F tocontext |
| F startregisterpages | F tolines |
| F startregistersection | F unitsC |
| F startregisterseewords | F unitsN |
| F starttabulate | F unitsNspace |
| F starttext | F unitsNstart |
| F starttitle | F unitsNstop |
| F startvboxregister | F unitsO |
| F startxtitle | F unitsP |
| F stopLuaSnippet | F unitsPS |
| F stopMetapostSnippet | F unitsPU |
| F stopParsedXmlSnippet | F unitsPUS |
| F stopTexSnippet | F unitsQ |
| F stopXmlSnippet | F unitsS |
| F stopblankhandling | F unitsU |
| F stopcolumns | F unitsUS |
| F stopcomponentindeed | F unprotect |
| F stopenvironmentindeed | F unregisterfunction |
| F stopfontclass | F usemodule |
| F stophboxregister | F utfchar |
| F stopproductindeed | T verbatim |
| F stopprojectindeed | F LuaSnippetBoundary |
| F stopreadingfile | F LuaSnippetComment |
| F stopregisterentries | F LuaSnippetName |
| F stopregisterentry | F LuaSnippetNameBase |
| F stopregisteroutput | F LuaSnippetNameCore |
| F stopregisterpages | F LuaSnippetNameLibraries |
| F stopregistersection | F LuaSnippetQuote |
| F stopregisterseewords | F LuaSnippetSpecial |
| F stoptabulate | F LuaSnippetString |
| F stoptext | F MetapostSnippetBoundary |
| F stoptitle | F MetapostSnippetComment |
| F stopvboxregister | F MetapostSnippetConstructor |
| F stopxtitle | F MetapostSnippetName |
| F storenode | F MetapostSnippetNameMetafun |
| F synonymentry | F MetapostSnippetNamePlain |
| F tabulaterow | F MetapostSnippetNamePrimitive |
| F tabulaterowbold | F MetapostSnippetQuote |
| F tabulaterowtyp | F MetapostSnippetSpecial |
| F tabulaterowtype | F MetapostSnippetString |
| F template | F ParsedXmlSnippetCdata |

| | | | |
|---|---|---|---|
| F | ParsedXmlSnippetComment | **pdfstopmirroring** | function |
| F | ParsedXmlSnippetDoctype | **pdfstoprotation** | function |
| F | ParsedXmlSnippetElement | **pdfstopscaling** | function |
| F | ParsedXmlSnippetInstruction | **percentageof** | function |
| F | TexSnippetBoundary | **pgfxcolorspec** | function |
| F | TexSnippetComment | **placeparallel** | function |
| F | TexSnippetGroup | **popfloat** | function |
| F | TexSnippetName | **popitaliccorrection** | function |
| F | TexSnippetSpecial | **poplist** | function |
| F | XmlSnippetBoundary | **popreferenceprefix** | function |
| F | XmlSnippetCdata | **popregime** | function |
| F | XmlSnippetComment | **popsectionblock** | function |
| F | XmlSnippetEntity | **pos** | function |
| F | XmlSnippetEqual | **posplus** | function |
| F | XmlSnippetKey | **posstrut** | function |
| F | XmlSnippetName | **postponenotes** | function |
| F | XmlSnippetString | **poswhd** | function |
| F | ctxreport | **posxy** | function |
| F | viafile | **prefixedconverted** | function |
| F | vrule | **prepareMPvariable** | function |
| F | xmlcdataafter | **preparedfile** | function |
| F | xmlcdatabefore | **presetsymbollist** | function |
| F | xmlcdataobeyedline | **presettabulate** | function |
| F | xmlcdataobeyedspace | **prevcountervalue** | function |
| F | xmlprocessbuffer | **processbuffer** | function |
| F | xmlsetup | **processcolorcomponents** | function |
| **objectnumber** | function | **processedfile** | function |
| **objectpage** | function | **processedfiles** | function |
| **octnumber** | function | **processfile** | function |
| **octstringtonumber** | function | **processfilemany** | function |
| **oneorrange** | function | **processfilenone** | function |
| **ordinal** | function | **processfileonce** | function |
| **overloadbookmark** | function | **processlist** | function |
| **page_injections_flush_after** | function | **processregister** | function |
| **page_injections_flush_before** | function | **processsplit** | function |
| **page_injections_save** | function | **processsynonyms** | function |
| **pagestaterealpage** | function | **purefontname** | function |
| **parpos** | function | **pushfloat** | function |
| **pdfrotation** | function | **pushitaliccorrection** | function |
| **pdfstartmatrix** | function | **pushlist** | function |
| **pdfstartmirroring** | function | **pushreferenceprefix** | function |
| **pdfstartrotation** | function | **pushregime** | function |
| **pdfstartscaling** | function | **pushsectionblock** | function |
| **pdfstopmatrix** | function | **rawcharacter** | function |

| | | | |
|---|---|---|---|
| **rawcountervalue** | function | **resetprevdepth** | function |
| **rawdate** | function | **resetreference** | function |
| **referencepagestate** | function | **resetstructureprocessor** | function |
| **referencerealpage** | function | **resettimer** | function |
| **registerattachment** | function | **restartcounter** | function |
| **registerbookmark** | function | **restorecounter** | function |
| **registerbuttons** | function | **restorecurrentattributes** | function |
| **registercatcodetable** | function | **restorenote** | function |
| **registercolor** | function | **romannumerals** | function |
| **registercolorintent** | function | **runbuffer** | function |
| **registeredviewerlayer** | function | **safechar** | function |
| **registerhelp** | function | **savebuffer** | function |
| **registeritemgroup** | function | **savecounter** | function |
| **registerlanguagefeatures** | function | **savecurrentattributes** | function |
| **registerlinenumbering** | function | **savedlistnumber** | function |
| **registermaintextcolor** | function | **savedlistprefixednumber** | function |
| **registernamespace** | function | **savedlisttitle** | function |
| **registerpostponedblock** | function | **savefloat** | function |
| **registerrendering** | function | **savemargindata** | function |
| **registersection** | function | **savenote** | function |
| **registersoundclip** | function | **saveobject** | function |
| **registerstructureprocessor** | function | **savepagedata** | function |
| **registersynonym** | function | **saveparallel** | function |
| **registertransparency** | function | **savestructureblock** | function |
| **registerunit** | function | **savetaggedtwopassdata** | function |
| **registerusedsynonym** | function | **savetwopassdata** | function |
| **registeruserdata** | function | **savevariable** | function |
| **relatemarking** | function | **second** | function |
| **remapentity** | function | **selectstructureblock** | function |
| **removemissingcharacters** | function | **setbreakpoints** | function |
| **renderingvar** | function | **setbtxdataset** | function |
| **replacemissingcharacters** | function | **setbtxentry** | function |
| **replacepospxywhd** | function | **setcharacteralign** | function |
| **reportstructure** | function | **setcharactercasing** | function |
| **resavefloat** | function | **setcharactercleaning** | function |
| **resetcharacteralign** | function | **setcharactercodes** | function |
| **resetcounter** | function | **setcharacterkerning** | function |
| **resetfontfeature** | function | **setcharacterspacing** | function |
| **resetfontsolution** | function | **setcharacterstripping** | function |
| **resetmarking** | function | **setclosedocumentaction** | function |
| **resetmathattributes** | function | **setclosepageaction** | function |
| **resetmathitalics** | function | **setcolormodel** | function |
| **resetnullfont** | function | **setcounter** | function |
| **resetparallel** | function | **setdataset** | function |

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|---|---|---|---|
| **setdigitsmanipulation** | function | **setparbuilder** | function |
| **setdirection** | function | **setpos** | function |
| **setdocumentenvironments** | function | **setrandomseed** | function |
| **setdocumentfilenames** | function | **setrealign** | function |
| **setdocumentmodes** | function | **setrealspaces** | function |
| **setdocumentmodules** | function | **setreferencearguments** | function |
| **setelementuserproperties** | function | **setreferenceattribute** | function |
| **setfigurelookuporder** | function | **setreferenceoperation** | function |
| **setfirstline** | function | **setregistermethod** | function |
| **setfontfeature** | function | **setreplacements** | function |
| **setfontofid** | function | **setsectionblock** | function |
| **setfontsolution** | function | **setsectionentry** | function |
| **setformat** | function | **setsectionlevel** | function |
| **setformsmethod** | function | **setsectionnumber** | function |
| **setinitial** | function | **setstructureblockstate** | function |
| **setinsertionlocation** | function | **settagcombination** | function |
| **setinterfaceconstant** | function | **settagdescription** | function |
| **setinterfaceelement** | function | **settagdescriptionsymbol** | function |
| **setinterfacemessage** | function | **settagfigure** | function |
| **setinterfacemessages** | function | **settaghighlight** | function |
| **setinterfacevariable** | function | **settagitemgroup** | function |
| **setinternalreference** | function | **settagproperty** | function |
| **setjobcomment** | function | **settagsorting** | function |
| **setlanguageexceptions** | function | **settagsynonym** | function |
| **setlanguagesynonym** | function | **settagtablecell** | function |
| **setlayer** | function | **settagtabulatecell** | function |
| **setmarking** | function | **setupbookmarks** | function |
| **setmathalphabet** | function | **setupcanvas** | function |
| **setmathalternate** | function | **setupcharacterspacing** | function |
| **setmathattribute** | function | **setupexport** | function |
| **setmathdirection** | function | **setupfontexpansion** | function |
| **setmathitalics** | function | **setupfontprotrusion** | function |
| **setmathstyle** | function | **setupidentity** | function |
| **setnextinternalreference** | function | **setupinsertion** | function |
| **setnextreferenceorder** | function | **setupitaliccorrection** | function |
| **setnotestate** | function | **setuplinenumbering** | function |
| **setnotesymbolpage** | function | **setvisual** | function |
| **setobject** | function | **setxmpfile** | function |
| **setopendocumentaction** | function | **showassignerror** | function |
| **setopenpageaction** | function | **showattributes** | function |
| **setowncounter** | function | **showbtxdatasetcompleteness** | function |
| **setpagestate** | function | **showbtxdatasetfields** | function |
| **setpagestaterealpageno** | function | **showbtxfields** | function |
| **setpagetransition** | function | **showcallbacks** | function |

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

| | | | |
|---|---|---|---|
| **usecomponent** | function | **x_table_init_reflow_width** | function |
| **useenvironment** | function | **x_table_next_row** | function |
| **usefile** | function | **x_table_r** | function |
| **usejavascriptpreamble** | function | **x_table_reflow_height** | function |
| **usejavascriptscripts** | function | **x_table_reflow_width** | function |
| **uselibrary** | function | **x_table_set_construct** | function |
| **useluafile** | function | **x_table_set_reflow_height** | function |
| **useluamodule** | function | **x_table_set_reflow_width** | function |
| **usemodules** | function | **year** | function |
| **usepath** | function | | |
| **useproduct** | function | | |
| **useproject** | function | | |
| **usesubpath** | function | | |
| **usesymbols** | function | | |
| **usetexfile** | function | | |
| **useurl** | function | | |
| **usexmlfile** | function | | |
| **usezipfile** | function | | |
| **utfchar** | function | | |
| **utfmathclass** | function | | |
| **utfmathcommand** | function | | |
| **utfmathcommandabove** | function | | |
| **utfmathcommandbelow** | function | | |
| **utfmathfiller** | function | | |
| **utfmathstretch** | function | | |
| **vboxlisttohbox** | function | | |
| **verbose** | function | | |
| **visual** | function | | |
| **vspacing** | function | | |
| **vspacingcollapse** | function | | |
| **vspacingdefine** | function | | |
| **vspacingsetamount** | function | | |
| **vspacingsnap** | function | | |
| **way** | function | | |
| **weekday** | function | | |
| **weekdayname** | function | | |
| **writestatus** | function | | |
| **x_table_c** | function | | |
| **x_table_cleanup** | function | | |
| **x_table_construct** | function | | |
| **x_table_create** | function | | |
| **x_table_flush** | function | | |
| **x_table_init_construct** | function | | |
| **x_table_init_reflow_height** | 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 | | **octstringtonumber** | function |
| **AK** | function | | **ordinal** | function |
| **Alphabetic** | function | | **r** | function |
| **Character** | function | | **rawcharacter** | function |
| **Characters** | function | | **romannumerals** | function |
| **I** | function | | **second** | function |
| **KA** | function | | **sequences** | data table |
| **KR** | function | | **textime** | function |
| **R** | function | | **toabjad** | function |
| **RK** | function | | **tochinese** | function |
| **Romannumerals** | function | | **toroman** | function |
| **Word** | function | | **upper** | function |
| **Words** | function | | **verbose** | table |
| **a** | function | | D data | |
| **abjadnodotnumerals** | function | | F translate | |
| **abjadnumerals** | function | | **weekday** | function |
| **alphabetic** | function | | **word** | function |
| **character** | function | | **words** | function |
| **characters** | function | | **year** | function |
| **chineseallnumerals** | function | | | |
| **chinesecapnumerals** | function | | | |
| **chinesenumerals** | function | | | |
| **chr** | function | | | |
| **chrs** | function | | | |
| **cn** | function | | | |
| **cn-a** | function | | | |
| **cn-c** | function | | | |
| **convert** | function | | | |
| **define** | function | | | |
| **hexstringtonumber** | function | | | |
| **hour** | function | | | |
| **i** | function | | | |
| **isleapyear** | function | | | |
| **leapyear** | function | | | |
| **lower** | function | | | |
| **maxchrs** | function | | | |
| **minute** | function | | | |
| **month** | function | | | |
| **nofdays** | function | | | |
| **number** | function | | | |
| **numbers** | function | | | |

# coroutine (basic lua)

**create**   function
**resume**   function
**running**  function
**status**   function
**wrap**     function
**yield**    function

# ctxrunner (context)

**load**       function
**prepfiles** data table
**resolve**    function

# debug (basic lua)

| | |
|---|---|
| **debug** | function |
| **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 |
| **pop** | function |
| **push** | function |

# directives (context)

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

# document (context)

| | |
|---|---|
| **arguments** | data table |
| **files** | table |
| **getargument** | function |
| **getfilename** | function |
| **options** | table |

    T commandline

      D environments

      D modes

      D modules

    T ctxfile

      D environments

      D modes

      D modules

| | |
|---|---|
| **setargument** | function |
| **setdefaultargument** | function |
| **setfilename** | function |
| **variables** | data table |

# environment (context)

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

# epdf (extra tex)

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

# experiments (context)

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

# figures (context)

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

   F boxes
   F check
   F checksize
   F clone
   F copy
   F immediatewrite
   F keys
   F new
   F node
   F ofindex
   F package
   F print
   F scan
   F serialize
   F totable

# file (basic lua)

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

# floats (context)

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

# font (basic tex)

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

# fontloader (extra tex)

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

# fonts (context)

**analyzers**    table

  T features

    N blwf

    N fina

    N half

    N init

    N isol

    N medi

    N pref

    N pstf

    N rphf

  D initializers

  D methods

  F setstate

  T states

    N blwf

    N fina

    N half

    N init

    N isol

    N mark

    N medi

    N pref

    N pstf

    N rest

    N rphf

  B useunicodemarks

**checkers**    table

  F getmissing

  F missing

**cid**    table

  F getmap

  F loadfile

**collections**    table

  F checkenabled

  F clonevector

  F define

  T definitions

  F prepare

  F process

  F registermain

  F report

  F reset

  T vectors

**constructors**    table

  F aftercopyingcharacters

  F applymanipulators

  F assignmathparameters

  B autocleanup

  F beforecopyingcharacters

  D cache

  F calculatescale

  F checkedfeatures

  F checkedfilename

  F checkvirtualids

  F cleanuptable

  F collectprocessors

  D designsizes

  D dontembed

  F enhanceparameters

  N factor

  F finalize

  F getfeatureaction

  F hashfeatures

  F hashinstance

  T hashmethods

    F normal

    F virtual

  F initializefeatures

  T keys

    T character

      S depth

      S height

      S italic

      S width

    T description

      T boundingbox

      S depth

      S height

      S width

    T parameters

      S ascender

S descender
S designsize
T expansion
  S auto
  S shrink
  S step
  S stretch
S extendfactor
S factor
S hfactor
S mathsize
T protrusion
  S auto
S quad
S scaledpoints
S scriptpercentage
S scriptscriptpercentage
S size
S slantfactor
S slantperpoint
T spacing
  S extra
  S shrink
  S stretch
  S width
T synonyms
  S em
  S ex
  S extra_space
  S extraspace
  S slant
  S space
  S space_shrink
  S space_stretch
  S spaceshrink
  S spacestretch
  S x_height
S units
S vfactor
S xheight
T properties
S autoitalicamount
T cidinfo
S embedding

S encodingbytes
S filename
S finalized
S fontname
S format
S fullname
S hasitalics
S hasmath
S mathitalics
S mode
S name
S noglyphnames
S nostackmath
S psname
S textitalics
S virtualized
D loadedfonts
S namemode
F newfeatures
F newhandler
N noffontsloaded
N nofsharedfonts
N nofsharedhashes
N nofsharedvectors
N privateoffset
F readanddefine
F registerfeature
B resolvevirtualtoo
F scale
F scaled
F setfactor
F setname
B sharefonts
F trytosharefont
N version
**current**          function
**currentid**        function
**definers**         table
F addlookup
F analyze
F applypostprocessors
F checkedmode
F checkedscript
F current

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

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

| | | | | |
|---|---|---|---|---|
| F | add_placeholders | | **nulldata** | data table |
| T | category_to_placeholder | | **protrusions** | data table |
| S | ll | | **readers** | table |
| S | lm | | F | afm |
| S | lo | | F | check_lua |
| S | lt | | F | check_tfm |
| S | lu | | F | dfont |
| S | mc | | F | lua |
| S | me | | F | opentype |
| S | mn | | F | otf |
| S | nd | | F | pfb |
| S | nl | | D | sequence |
| S | no | | F | tfm |
| S | pc | | F | ttc |
| S | pd | | F | ttf |
| S | pe | | **select** | table |
| S | pf | | T | data |
| S | pi | | F | definetypeface |
| S | po | | T | fallbacks |
| S | ps | | F | filterinput |
| S | sc | | T | methods |
| S | sk | | F | default |
| S | sm | | F | features |
| S | so | | F | file |
| F | format | | F | goodies |
| F | onetimemessage | | F | name |
| F | register | | F | selectfont |
| F | reportdefinedfonts | | F | simplefonts |
| F | reportusedfeatures | | F | spec |
| **mappings** | table | | F | style |
| F | addtounicode | | F | registerfallback |
| F | fromunicode16 | | F | searchfiles |
| F | loadfile | | **specifiers** | table |
| F | loadline | | D | contextmerged |
| F | loadlumtable | | F | contextnumber |
| F | makenameparser | | D | contextnumbers |
| F | reset | | D | contextsetups |
| F | tounicode16 | | F | contexttostring |
| F | tounicode16sequence | | F | definecontext |
| **mp** | table | | F | mergecontext |
| D | cache | | F | presetcontext |
| B | inline | | F | registercontext |
| N | version | | F | showcontext |
| **names** | data table | | F | splitcontext |

D synonyms

D variants

**symbols** table

F uselibrary

**tables** table

**tracers** table

**treatments** table

F applyfixes

D data

S filename

F ignoredfile

F report

F trace

**typefaces** data table

# functions (context)

**dummy** function

# graphics (context)

**backgrounds**  table
- F calculatemultipar
- F fetchmultipar
- F pair
- F path
- F point

# gzip (extra lua)

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

# img (basic tex)

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

# interactions (context)

**attachments**  data table
**fields**       table
    F clone
    F define
    F defineset
    F insert
**general**      table
    F getidentity
    F setupidentity
**help**         table
    F collect
    F reference
    F register
**javascripts**  table
    F addtopreamble
    F code
    D codes
    F flushpreambles
    D functions
    D preambles
    F setpreamble
    F storecode
    F storepreamble
    F usepreamblenow
    F usescripts
**linkedlists**  data table
**pages**        table
    F setpagetransition
    F setupcanvas
**references**   table
    F setclosedocument
    F setclosepage
    F setopendocument
    F setopenpage
**renderings**   data table
**soundclips**   data table

# interfaces (context)

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

# io (basic lua)

| | |
|---|---|
| **ask** | function |
| **bytes** | function |
| **characters** | function |
| **close** | function |
| **exists** | function |
| **fileseparator** | string |
| **flush** | function |
| **i_limiter** | function |
| **i_limiters** | table |
|     T paranoid | |
| **input** | function |
| **limiter** | function |
| **lines** | function |
| **loadchunk** | function |
| **loaddata** | function |
| **loadlines** | function |
| **noflines** | function |
| **o_limiter** | function |
| **o_limiters** | table |
|     T paranoid | |
| **open** | overloaded function |
| **output** | function |
| **pathseparator** | string |
| **popen** | overloaded function |
| **read** | function |
| **readall** | function |
| **readnumber** | function |
| **readstring** | function |
| **savedata** | function |
| **size** | function |
| **stderr** | userdata |
| **stdin** | userdata |
| **stdout** | userdata |
| **tmpfile** | function |
| **type** | function |
| **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)

**comment** function
**datasets** table
    D collected
    F extend
    F getdata
    F setdata
    D tobesaved
**disablesave** function
**files** table
    D collected
    F context
    B forcerun
    F run
    D tobesaved
**initialize** function
**load** function
**loadother** function
**objects** table
    D collected
    F get
    F number
    F page
    F save
    F set
    D tobesaved
**pack** boolean
**packversion** number
**pagestates** table
    D collected
    F extend
    F realpage
    F setstate
    D tobesaved
**passes** table
    F check
    D collected
    F count
    F define
    F find
    F first
    F get

    F getcollected
    F getdata
    F getfield
    F gettobesaved
    F inlist
    F last
    F list
    F save
    F savetagged
    D tobesaved
**positions** table
    F b_col
    F b_region
    F c
    D collected
    F column
    F copy
    F depth
    F e_col
    F e_region
    F enhance
    F extra
    F get
    F getreserved
    F hangafter
    F hangindent
    F height
    F hsize
    F leftskip
    F lowerleft
    F lowerright
    F markregionbox
    F n
    F onsamepage
    F overlapping
    F p
    F page
    F paragraph
    F parindent
    F position
    F r

| | | |
|---|---|---|
| F region | | |
| F replace | | |
| F rightskip | | |
| F set | | |
| F setall | | |
| F setdim | | |
| D tobesaved | | |
| F upperleft | | |
| F upperright | | |
| S used | | |
| F width | | |
| F x | | |
| F xy | | |
| F y | | |
| **register** | function |
| **save** | function |
| **structure** | table |
| D collected | | |
| T components | | |
| T tobesaved | | |
| T branches | | |
| S name | | |
| S type | | |
| **variables** | table |
| D checksums | | |
| D collected | | |
| F getchecksum | | |
| F makechecksum | | |
| F 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)

| | | | |
|---|---|---|---|
| **associate** | function | F | found |
| **associated** | data table | F | load |
| **association** | function | T | methods |
| **counters** | data table | N | threshold |
| **current** | function | | |
| **data** | data table | | |
| **define** | function | | |
| **frequencies** | table | | |
|   F averagecharwidth | | | |
|   F getdata | | | |
| **getnumber** | function | | |
| **hyphenate** | function | | |
| **installed** | function | | |
| **labels** | table | | |
|   F define | | | |
|   F split | | | |
| **lefthyphenmin** | function | | |
| **loadable** | function | | |
| **loadwords** | function | | |
| **logger** | table | | |
|   F report | | | |
| **numbers** | data table | | |
| **posthyphenchar** | function | | |
| **prehyphenchar** | function | | |
| **registered** | data table | | |
| **replacements** | table | | |
|   F add | | | |
|   F handler | | | |
|   F set | | | |
| **righthyphenmin** | function | | |
| **setexceptions** | function | | |
| **setsynonym** | function | | |
| **unload** | function | | |
| **version** | number | | |
| **words** | table | | |
|   F check | | | |
|   T data | | | |
|   F disable | | | |
|   F enable | | | |
|   T enablers | | | |
|   B enables | | | |

# layouts (context)

**status** table
- F isleftpage
- F leftorrightpagection

# lfs (extra lua)

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

# libraries (context)

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

# lmx (context)

| | | | | |
|---|---|---|---|---|
| **color** | function | | **tv** | function |
| **convert** | function | | **type** | function |
| **convertfile** | function | | **urlescape** | function |
| **convertstring** | function | | **variable** | function |
| **einject** | function | | **variables** | table |
| **eprint** | function | | S color-background-blue | |
| **escape** | function | | S color-background-body | |
| **finalized** | function | | S color-background-green | |
| **finject** | function | | S color-background-main | |
| **fprint** | function | | S color-background-purple | |
| **get** | function | | S color-background-yellow | |
| **getvariables** | function | | S title-default | |
| **htmfile** | function | | | |
| **html** | table | | | |
| F a | | | | |
| F td | | | | |
| F th | | | | |
| **include** | function | | | |
| **inherited** | table | | | |
| S color-background-four | | | | |
| S color-background-one | | | | |
| S color-background-three | | | | |
| S color-background-two | | | | |
| S title | | | | |
| **initialize** | function | | | |
| **inject** | function | | | |
| **lmxfile** | function | | | |
| **loadedfile** | function | | | |
| **new** | function | | | |
| **overloaderror** | function | | | |
| **popupfile** | function | | | |
| **print** | function | | | |
| **pv** | function | | | |
| **report** | function | | | |
| **reset** | function | | | |
| **result** | function | | | |
| **set** | function | | | |
| **show** | function | | | |
| **showdebuginfo** | function | | | |
| **showerror** | function | | | |
| **stripcss** | function | | | |

# logs (context)

| | | | |
|---|---|---|---|
| **application** | function | **simplelines** | function |
| **categories** | function | **start_page_number** | function |
| **direct** | function | **status** | function |
| **disable** | function | **stop_page_number** | function |
| **enable** | function | **subdirect** | function |
| **exporters** | table | **subreport** | function |
| **extendbanner** | function | **system** | function |
| **flush** | function | **texerrormessage** | function |
| **help** | function | **writer** | function |
| **messenger** | function | | |
| **new** | function | | |
| **newline** | function | | |
| **poptarget** | function | | |
| **pushtarget** | function | | |
| **report** | function | | |
| **reportbanner** | function | | |
| **reporter** | function | | |
| **reporters** | table | | |

   F banner

   F export

   F help

   F info

   F lines

   F version

| | |
|---|---|
| **reportline** | function |
| **reportlines** | function |
| **setformats** | function |
| **setformatters** | function |
| **setlogfile** | function |
| **setmessenger** | function |
| **setprocessor** | function |
| **setprogram** | function |
| **settarget** | function |
| **settimedlog** | function |
| **settranslations** | function |
| **show** | function |
| **show_close** | function |
| **show_load** | function |
| **show_open** | function |
| **simple** | function |
| **simpleline** | function |

# lpdf (context)

| | | | |
|---|---|---|---|
| **action** | function | **gethpos** | function |
| **adddocumentcolorspace** | function | **getmatrix** | function |
| **adddocumenttextgstate** | function | **getpos** | function |
| **adddocumentpattern** | function | **getvpos** | function |
| **adddocumentshade** | function | **graycode** | function |
| **addtocatalog** | function | **hasmatrix** | function |
| **addtoinfo** | function | **id** | function |
| **addtonames** | function | **injectxmpinfo** | function |
| **addtopageattributes** | function | **insertxmpinfo** | function |
| **addtopageresources** | function | **layerreference** | function |
| **addtopagesattributes** | function | **limited** | function |
| **addxmpinfo** | function | **linearshade** | function |
| **annotationspecification** | function | **nametree** | function |
| **array** | function | **null** | function |
| **boolean** | function | **number** | function |
| **border** | function | **pagedestinations** | data table |
| **checkedkey** | function | **pagereference** | function |
| **checkedvalue** | function | **pagereferences** | data table |
| **circularshade** | function | **pdfcolor** | function |
| **cmykcode** | function | **pdftimestamp** | function |
| **collectedresources** | function | **protectresources** | boolean |
| **color** | function | **rectangle** | function |
| **colorspace** | function | **reference** | function |
| **colorspaceconstants** | data table | **registerannotation** | function |
| **colorspec** | function | **registerdestination** | function |
| **colorvalue** | function | **registerdocumentfinalizer** | function |
| **colorvalues** | function | **registerpagefinalizer** | function |
| **constant** | function | **reserveobject** | function |
| **delayedobject** | function | **rgbcode** | function |
| **destinationspecification** | function | **rotationcm** | function |
| **dictionary** | function | **shareobject** | function |
| **epdf** | table | **shareobjectreference** | function |
|    F expand | | **spotcode** | function |
|    F load | | **stream** | function |
| **finalizedocument** | function | **string** | function |
| **finalizepage** | function | **timestamp** | function |
| **finishtransparencycode** | function | **toeight** | function |
| **flushobject** | function | **tosixteen** | function |
| **flushstreamfileobject** | function | **transform** | function |
| **flushstreamobject** | function | **transparency** | function |
| **formats** | data table | **transparencycode** | function |

| **transparencygroups** | table |
|---|---|
|    B none | |
| **transparencyvalue** | function |
| **unicode** | function |
| **verbose** | function |

# lpeg (basic lua)

| | | | |
|---|---|---|---|
| **B** | function | **setmaxstack** | function |
| **C** | function | **split** | function |
| **Carg** | function | **splitat** | function |
| **Cb** | function | **splitter** | function |
| **Cc** | function | **stripper** | function |
| **Cf** | function | **times** | function |
| **Cg** | function | **tsplitat** | function |
| **Cmt** | function | **tsplitter** | function |
| **Cp** | function | **type** | function |
| **Cs** | function | **utfchartabletopattern** | function |
| **Ct** | function | **version** | 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 | | |

# ltn12 (extra lua)

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

# lua (basic tex)

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

# luatex (context)

**cleanuptempfiles**     function
**registerstartactions** function
**registerstopactions**  function
**registertempfile**     function
**starttime**            number

# lxml (context)

| | | | | |
|---|---|---|---|---|
| **addindex** | function | | **getid** | function |
| **all** | function | | **getindex** | function |
| **applyfunction** | function | | **id** | function |
| **att** | function | | **idsplitter** | userdata |
| **attribute** | function | | **include** | function |
| **chainattribute** | function | | **inclusion** | function |
| **checkindex** | function | | **inclusions** | function |
| **collected** | function | | **index** | function |
| **command** | function | | **info** | function |
| **concat** | function | | **inlineverbatim** | function |
| **concatrange** | function | | **installsetup** | function |
| **content** | function | | **last** | function |
| **context** | function | | **load** | function |
| **convert** | function | | **loadbuffer** | function |
| **count** | function | | **loaddata** | function |
| **delete** | function | | **loaded** | table |
| **direct** | function | | **loadregistered** | function |
| **directives** | table | | **main** | function |
|    F after | | | **match** | function |
|    F before | | | **name** | function |
|    F handle | | | **namespace** | function |
|    F load | | | **nonspace** | function |
|    F setup | | | **pos** | function |
| **displayverbatim** | function | | **position** | function |
| **doif** | function | | **raw** | function |
| **doifelse** | function | | **rawroot** | function |
| **doifelsetext** | function | | **register** | function |
| **doifnot** | 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 |
| **flushlinewise** | function | | **setcommandtonone** | function |
| **flushsetups** | function | | **setcommandtotext** | function |
| **flushspacewise** | function | | **setsetup** | function |
| ~~**get_id**~~ | ~~function~~ | | **snippet** | function |

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

# math (basic lua)

| | |
|---|---|
| **abs** | function |
| **acos** | function |
| **asin** | function |
| **atan** | function |
| **atan2** | function |
| **ceil** | function |
| **cos** | function |
| **cosd** | function |
| **cosh** | function |
| **deg** | function |
| **div** | function |
| **even** | function |
| **exp** | function |
| **floor** | function |
| **fmod** | function |
| **frexp** | function |
| **huge** | number |
| **initialseed** | number |
| **ldexp** | function |
| **log** | function |
| **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 | **resetitalics** | function |
| **alphabets** | data table | **scaleparameters** | function |
| **alternatives** | data table | **setalternate** | function |
| **big** | function | **setitalics** | function |
| **boldmap** | data table | **sets** | data table |
| **categories** | table | **styles** | data table |
|    D functions | | **syncboth** | function |
| **charactersets** | data table | **syncname** | function |
| **checkaccentbaseheight** | function | **syncstyle** | function |
| **checkprivateparameters** | function | **toname** | function |
| **classes** | data table | **tostyle** | function |
| **codes** | data table | **tweakaftercopyingfont** | function |
| **define** | function | **tweakbeforecopyingfont** | function |
| **dimensions** | function | **tweaks** | table |
| **extensiblecode** | function | **utfmathaccent** | function |
| **extensibles** | data table | **utfmathclass** | function |
| **extrabase** | number | **utfmathcommand** | function |
| **extras** | table | **utfmathfiller** | function |
|    F add | | **utfmathstretch** | function |
|    F copy | | | |
| **fallbacks** | table | | |
|    F apply | | | |
|    F install | | | |
| **fallbackstyleattr** | function | | |
| **families** | data table | | |
| **gaps** | data table | | |
| **getboth** | function | | |
| **getstyle** | function | | |
| **initializeparameters** | function | | |
| **injectfallbacks** | function | | |
| **makefont** | function | | |
| **mapremap** | data table | | |
| **overloaddimensions** | function | | |
| **overloadparameters** | function | | |
| **privatebase** | number | | |
| **remapalphabets** | function | | |
| **renderings** | table | | |
|    D mappings | | | |
|    D numbers | | | |
|    D sets | | | |
| **renderset** | function | | |

# mbox (context)

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

# md5 (extra lua)

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

# metapost (context)

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

| **setoutercolor** | function |
| **settext** | function |
| **showlog** | boolean |
| **svformat** | function |
| **tex** | table |
| F get | |
| F reset | |
| F set | |
| **texerrors** | boolean |
| **textextsdata** | function |
| **theclippath** | function |
| **totable** | function |
| **unload** | function |
| **untagvariable** | function |
| **variables** | table |

# mime (extra lua)

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

# mp (context)

| | |
|---|---|
| **_f_** | function |
| **boolean** | function |
| **format** | function |
| **number** | function |
| **numeric** | function |
| **pair** | function |
| **print** | function |
| **quadruple** | function |
| **quoted** | function |
| **string** | function |
| **triplet** | function |

# mplib (extra tex)

| | |
|---|---|
| **fields** | function |
| **finders** | table |
| F file | |
| **get_boolean** | function |
| **get_number** | function |
| **get_numeric** | function |
| **get_string** | function |
| **new** | function |
| **pen_info** | function |
| **preprocessed** | function |
| **version** | function |

# noads (context)

**handlers**   table

    F check

    F classes

    F collapse

    F families

    F italics

    F relocate

    F render

    F resize

    F showtree

    F tags

    F unscript

    F variants

**process**   function

**processors**   table

    T collapse

    F mlist_to_hlist

    T relocate

    T render

    T resize

    T unscript

# node (basic tex)

| | | | | |
|---|---|---|---|---|
| **copy** | function | | F protect_glyphs | |
| **copy_list** | function | | F protrusion_skippable | |
| **count** | function | | F remove | |
| **current_attr** | function | | F set_attribute | |
| **dimensions** | function | | F set_properties_mode | |
| **direct** | 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 | |
| F getchar | | | **do_ligature_n** | function |
| 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 |
| F getnext | | | **flush_list** | function |
| 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 |

| | |
|---|---|
| **has_attribute** | function |
| **has_field** | function |
| **has_glyph** | function |
| **hpack** | function |
| **id** | function |
| **insert_after** | function |
| **insert_before** | function |
| **is_node** | function |
| **kerning** | function |
| **last_node** | function |
| **length** | function |
| **ligaturing** | function |
| **mlist_to_hlist** | function |
| **new** | function |
| **next** | function |
| **prev** | function |
| **protect_glyphs** | function |
| **protrusion_skippable** | function |
| **remove** | function |
| **set_attribute** | function |
| **set_properties_mode** | function |
| **setfield** | function |
| **setproperty** | function |
| **slide** | function |
| **subtype** | function |
| **tail** | function |
| **tostring** | function |
| **traverse** | function |
| **traverse_id** | function |
| **type** | function |
| **types** | function |
| **unprotect_glyphs** | function |
| **unset_attribute** | function |
| **usedlist** | function |
| **vpack** | function |
| **whatsits** | function |
| **write** | function |

# nodes (context)

| | | | |
|---|---|---|---|
| **accentcodes** | data table | **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 |
| **copy** | 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 |
|   T stack | | **handlers** | table |
| **dimensionfields** | data table |   F accessibility | |
| **dimensions** | function |   F alignbackgrounds | |
| **dir_is_pop** | data table |   F backgrounds | |
| **dir_negation** | data table |   F characters | |
| **disccodes** | data table |   F checkforleaks | |
| **discretionarycodes** | data table |   F checkglyphs | |
| **do_ligature_n** | function |   F cleanupbox | |
| **end_of_math** | function |   F cleanuppage | |
| **fasthpack** | function |   F export | |
| **fencecodes** | data table |   F finalize | |
| **fields** | function |   F migrate | |
| **fillcodes** | data table |   F protectglyphs | |
| **first_character** | function |   F stripping | |
| **first_glyph** | function |   F unprotectglyphs | |
| **firstcharacter** | function | **has_attribute** | function |
| **firstcharinbox** | function | **has_field** | function |
| **firstglyph** | function | **has_glyph** | function |
| **flush_list** | function | **hpack** | function |
| **flush_node** | function | **idstostring** | function |
| **free** | function | **ignorablefields** | data table |

| | | | | |
|---|---|---|---|---|
| **injections** | table | **load** | | function |
| F getligaindex | | **locate** | | function |
| F handler | | **margincodes** | | data table |
| F installnewkern | | **markers** | | table |
| F reset | | F get | | |
| F setcursive | | **mathcodes** | | data table |
| F setkern | | **maxboxwidth** | | function |
| F setligaindex | | **mlist_to_hlist** | | function |
| F setmark | | **new** | | function |
| F setpair | | **noadcodes** | | data table |
| **insert_after** | function | **nodecodes** | | data table |
| **insert_before** | function | **nopts** | | function |
| **insert_list_after** | function | **nuts** | | table |
| **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 count | | |
| **is_nut** | function | F current_attr | | |
| **is_rotated** | data table | F delete | | |
| **kerncodes** | data table | F dimensions | | |
| **kerning** | function | F do_ligature_n | | |
| **keys** | table | F end_of_math | | |
| T whatsit | | F fasthpack | | |
| **last_node** | function | F first_glyph | | |
| **leftmarginwidth** | function | F firstcharacter | | |
| **ligaturing** | function | F firstcharinbox | | |
| **lines** | table | F firstglyph | | |
| T boxed | | F flush_list | | |
| F register | | F flush_node | | |
| F setup | | F free | | |
| F stage_one | | F getattr | | |
| F stage_two | | F getattribute | | |
| F stage_zero | | F getbox | | |
| D data | | F getchar | | |
| F finalize | | F getfield | | |
| F number | | F getfont | | |
| N scratchbox | | F getid | | |
| **link** | function | F getleader | | |
| **linked** | function | F getlist | | |
| **list** | function | F getnext | | |
| **listablefields** | data table | F getprev | | |
| **listcodes** | data table | F getprop | | |
| **listtoutf** | function | F getskip | | |

```
F getsubtype                         F pdfsave
F has_attribute                      F pdfsetmatrix
F has_field                          F penalty
F has_glyph                          F register
F hpack                              F rightmarginkern
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 is_node                            F temp
F is_nut                             F textdir
F kerning                            F usage
F last_node                          T userids
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
T pool                               F vlist
  F baselineskip                     F zeroglue
  F cleanup                        F prepend
  F disc                           F protect_glyphs
  F fontkern                       F protrusion_skippable
  F glue                           F reference
  F gluespec                       F remove
  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 noad                           F setprop
  F pdfannotation                  F setunsetattributes
  F pdfdestination                 F slide
  F pdfdirect                      F somepenalty
  F pdfliteral                     F somespace
  F pdfrestore                     F tail
```

| | | | |
|---|---|---|---|
| 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 | | T userids | |
| F usedlist | | N margins.inline | |
| F vianodes | | N property | |
| F vianuts | | N splitters.one | |
| F vpack | | N splitters.two | |
| F writable_spec | | F usernumber | |
| F write | | **prepend** | **function** |
| **packlist** | **function** | **print** | **function** |
| **pardir_is_equal** | **data table** | **processors** | **table** |
| **pardir_is_opposite** | **data table** | B enabled | |
| **pardir_is_parallel** | **data table** | F hpack_filter | |
| **partextdir_is_equal** | **data table** | F post_linebreak_filter | |
| **penaltycodes** | **data table** | F pre_linebreak_filter | |
| **plugindata** | **table** | F tracer | |
| F finalizer | | **processwords** | **function** |
| F initializer | | **properties** | **table** |
| S name | | T actions | |
| T namespace | | F delayed | |
| N attribute | | F fdelayed | |
| D data | | F immediate | |
| F enable | | F attach | |
| F handler | | T data | |

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

| | | | |
|---|---|---|---|
| **topoints** | function | | F stop |
| **toscaledpoints** | function | | F stop |
| **tosequence** | function | | T transparencies |
| **tostring** | function | | F reset |
| **totable** | function | | F set |
| **totree** | function | | F setlist |
| **toutf** | function | **traverse** | function |
| **tracers** | table | **traverse_id** | function |
| T characters | | **typesetters** | table |
| F collect | | F hpack | |
| F equal | | F tohpack | |
| F indices | | 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 | | **writable_spec** | function |
| F features | | **write** | function |
| F font | | | |
| F glyphs | | | |
| F message | | | |
| F messages | | | |
| F nofsteps | | | |
| F register | | | |
| F reset | | | |
| F start | | | |

# number (context)

|                    |            |
|--------------------|------------|
|                    | function   |
| **basepoints**     | function   |
| **bit**            | function   |
| **bits**           | function   |
| **clearbit**       | function   |
| **dimenfactors**   | data table |
| **formatted**      | function   |
| **hasbit**         | function   |
| **maxdimen**       | number     |
| **nopts**          | function   |
| **percent**        | function   |
| **points**         | function   |
| **pts**            | function   |
| **setbit**         | function   |
| **signed**         | function   |
| **sparseexponent** | function   |
| **splitdimen**     | function   |
| **tobasepoints**   | function   |
| **tobitstring**    | function   |
| **tocentimeters**  | function   |
| **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)

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

# package (basic lua)

| | |
|---|---|
| **config** | string |
| **cpath** | string |
| **extralibpath** | function |
| **extralibpaths** | function |
| **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

# pattern (context)

**1** userdata
**2** userdata
**3** userdata

# pdf (basic tex)

| | |
|---|---|
| **getcatalog** | function |
| **gethpos** | function |
| **getinfo** | function |
| **getmatrix** | function |
| **getnames** | function |
| **getpageattributes** | function |
| **getpageresources** | function |
| **getpagesattributes** | function |
| **getpos** | function |
| **gettrailer** | function |
| **getvpos** | function |
| **hasmatrix** | function |
| **immediateobj** | function |
| **mapfile** | function |
| **mapline** | function |
| **maxobjnum** | function |
| **obj** | function |
| **objtype** | function |
| **pageref** | function |
| **print** | function |
| **refobj** | function |
| **registerannot** | overloaded function |
| **reserveobj** | function |
| **setcatalog** | overloaded function |
| **setinfo** | overloaded function |
| **setnames** | overloaded function |
| **setpageattributes** | overloaded function |
| **setpageresources** | overloaded function |
| **setpagesattributes** | overloaded function |
| **settrailer** | overloaded function |

# pdfscanner (context)

**scan** function

# physics (context)

**units** table
   D tables

# profiler (extra lua)

**pause**   function
**resume**  function
**start**   function
**stop**    function

# publications (context)

| | |
|---|---|
| **addtexentry** | function |
| **analyze** | function |
| **authors** | table |
|   F sorted | |
|   T sorters | |
|     F author | |
|     F writer | |
|   F splitstring | |
| **citevariants** | table |
|   F author | |
|   F authornum | |
|   F authoryear | |
|   F authoryears | |
|   F category | |
|   F default | |
|   F index | |
|   F key | |
|   F num | |
|   F page | |
|   F serial | |
|   F short | |
|   F tag | |
|   F type | |
|   F year | |
| **collected** | data table |
| **concatstate** | function |
| **converttoxml** | function |
| **datasets** | table |
| **endnotes_to_btx** | function |
| **enhance** | function |
| **finder** | function |
| **getindex** | function |
| **journals** | table |
|   F abbreviated | |
|   F add | |
|   F expanded | |
|   F load | |
|   F save | |
| **lists** | table |
|   F collectentries | |
|   F fetchentries | |

| | |
|---|---|
|   F filterall | |
|   F flushentries | |
|   T methods | |
|     F dataset | |
|     F force | |
|     F global | |
|     F local | |
|   F nofregistered | |
|   F prepareentries | |
|   F register | |
|   T sorters | |
|     F author | |
|     F dataset | |
|     F default | |
|     F reference | |
|     F short | |
| **listvariants** | table |
|   F bib | |
|   F default | |
|   F num | |
|   F page | |
|   F short | |
|   F yes | |
| **load** | function |
| **loadbibdata** | function |
| **loaders** | table |
|   F bib | |
|   F buffer | |
|   F endnote | |
|   F lua | |
|   F refman | |
|   F xml | |
| **markasupdated** | function |
| **new** | function |
| **parenttag** | function |
| **refman_to_btx** | function |
| **resolvedname** | function |
| **search** | function |
| **singularorplural** | function |
| **statistics** | table |
|   N nofbytes | |

| | |
|---|---|
| N nofdatasets | T required |
| N nofdefinitions | T unpublished |
| N nofshortcuts | T optional |
| **tracers** table | T required |
| F addfield | T citevariants |
| T categories | T fields |
| T article | T listvariants |
| T optional | F showdatasetcompleteness |
| T required | F showdatasetfields |
| T book | F showfields |
| T optional | **writers** table |
| T required | F author |
| T booklet | |
| T optional | |
| T required | |
| T inbook | |
| T optional | |
| T required | |
| T incollection | |
| T optional | |
| T required | |
| T inproceedings | |
| T optional | |
| T required | |
| T manual | |
| T optional | |
| T required | |
| T mastersthesis | |
| T optional | |
| T required | |
| T misc | |
| T optional | |
| T required | |
| T patent | |
| T optional | |
| T required | |
| T phdthesis | |
| T optional | |
| T required | |
| T proceedings | |
| T optional | |
| T required | |
| T techreport | |
| T optional | |

# regimes (context)

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

# resolvers (context)

| | | | |
|---|---|---|---|
| **allprefixes** | function | **finders** | data table |
| **appendhash** | function | **findfile** | function |
| **automount** | function | **findfiles** | function |
| **automounted** | table | **findgivenfile** | function |
| **booleanvariable** | function | **findgivenfiles** | function |
| **cacheversion** | string | **findpath** | function |
| **checkedvariable** | function | **findtexfile** | function |
| **cleanpath** | function | **findwildcardfile** | function |
| **cleanpathlist** | function | **findwildcardfiles** | function |
| **concatinators** | data table | **formatofsuffix** | function |
| **configbanner** | string | **formatofvariable** | function |
| **criticalvars** | data table | **formats** | data table |
| **dangerous** | data table | **generators** | data table |
| **datastate** | function | **get_from_content** | function |
| **defaultsuffixes** | table | **getenv** | function |
| **dowithfilesandreport** | function | **getownpath** | function |
| **dowithfilesintree** | function | **getreadfilename** | function |
| **dowithpath** | function | **hashers** | data table |
| **dowithvariable** | function | **homedir** | string |
| **env** | function | **inputstack** | table |
| **executers** | table | **installinputfilehandler** | function |

F check | **installinputlinehandler** | function
F exec | **instance** | table
F execute
F finalize | D data
F popen | B diskcache
F register | D environment
F spawn | D expansions

| | | | |
|---|---|---|---|
| **expandbraces** | function | D fakepaths | |
| **expandedpathfromlist** | function | D files | |
| **expandedpathlist** | function | B force_suffixes | |
| **expandedpathlistfromvariable** | function | D found | |
| **expandpath** | function | D foundintrees | |
| **expandpathfromvariable** | function | D hashed | |
| **expansion** | function | D hashes | |
| **extendtexmfvariable** | function | D lists | |
| **filtered_from_content** | function | B loaderror | |
| ~~**find_file**~~ | ~~function~~ | D order | |
| ~~**find_files**~~ | ~~function~~ | T pathstack | |
| **findbinfile** | function | B remember | |
| **findctxfile** | function | B renewcache | |
| | | B renewtree | |

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

| **unexpandedpathlist** | function |
| **unresolve** | function |
| **updaterelations** | function |
| **updatescript** | function |
| **usertypes** | data table |
| **usezipfile** | function |
| **validatedpath** | function |
| **variable** | function |
| **variableofformat** | function |
| **variableofformatorsuffix** | function |
| **wildcardpattern** | function |

# scripts (context)

**autofontfeature**    table

     F disable

     F enable

     F handler

**categorytonumber**   data table

**colors**           data table

**decomposehangul**   function

**defaults**        table

     N inter_char_half_shrink_factor

     N inter_char_half_stretch_factor

     N inter_char_hangul_penalty

     N inter_char_quarter_shrink_factor

     N inter_char_quarter_stretch_factor

     N inter_char_shrink_factor

     N inter_char_stretch_factor

     N inter_word_stretch_factor

**handlers**        data table

**hash**             table

**injectors**       data table

**installdataset**    function

**installmethod**     function

**numbertocategory**   data table

**numbertodataset**    data table

**numbertohandler**    data table

**reset**            function

**set**              function

**splitters**       data table

# set (context)

**contains**   function
**create**     function
**tolist**     function
**tonumber**   function
**totable**    function

# socket (extra lua)

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

    F getaddrinfo
    F gethostname
    F getnameinfo
    F tohostname
    F toip

| | |
|---|---|
| **ftp** | table |

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

| | |
|---|---|
| **gettime** | function |
| **headers** | table |

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

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

# sorters (context)

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

# statistics (context)

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

# status (basic tex)

**list** function

# storage (context)

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

# streams (context)

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

# string (basic lua)

| | | | | |
|---|---|---|---|---|
| **autodouble** | function | | **tformat** | function |
| **autosingle** | function | | **toboolean** | function |
| **booleanstring** | function | | **tocontext** | function |
| **byte** | function | | **todimen** | function |
| **bytepairs** | function | | **tonodes** | function |
| **bytes** | function | | **topattern** | function |
| **char** | function | | **totable** | function |
| **characterpairs** | function | | **toutf** | function |
| **characters** | function | | **tracedchar** | function |
| **checkedsplit** | function | | **tracedchars** | table |
| **collapsespaces** | function | | **unquote** | function |
| **count** | function | | **unquoted** | function |
| **dump** | function | | **upper** | function |
| **escapedpattern** | function | | **utfcharacters** | function |
| **explode** | function | | **utfvalues** | function |
| **find** | function | | **valid** | 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 | | | |

# structures (context)

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

| | | | |
|---|---|---|---|
| F | setup | F | uservalue |
| D | stored | **marks** | **table** |
| **itemgroups** | **table** | D | data |
| F | maxwidth | F | define |
| F | nofitems | F | exists |
| F | register | F | fetch |
| **lists** | **table** | F | fetchallmarks |
| F | addto | F | fetched |
| F | analyze | F | fetchonemark |
| B | autoreorder | F | fetchtwomarks |
| D | cached | F | get |
| D | collected | F | number |
| F | discard | F | relate |
| F | enhance | F | reset |
| T | enhancers | F | set |
| F | filter | F | show |
| F | filtercollected | F | synchronize |
| F | formulanumber | F | title |
| F | groupindex | T | tracers |
| F | hasnumberdata | | F showtable |
| F | haspagedata | **notes** | **table** |
| F | hastitledata | F | checkpagechange |
| F | iscached | F | define |
| F | label | F | doifonsamepageasprevious |
| F | location | F | get |
| F | number | F | getdeltapage |
| D | ordered | F | getn |
| F | page | F | getnumberpage |
| F | popnesting | F | getstate |
| F | prefix | F | getsymbolpage |
| F | prefixednumber | F | hascontent |
| F | prefixedpage | F | internal |
| F | process | F | internalid |
| D | pushed | F | listindex |
| F | pushnesting | F | ordered |
| F | realpage | F | postpone |
| F | reordered | F | resetpostponed |
| T | result | F | restore |
| F | sectionnumber | F | save |
| D | sectionblocks | F | setstate |
| F | size | F | setsymbolpage |
| F | title | D | states |
| D | tobesaved | F | store |
| F | userdata | **pages** | **table** |

| | | | |
|---|---|---|---|
| F | analyze | F | import |
| D | collected | F | inject |
| F | is_odd | F | injectcurrentset |
| N | nofpages | S | innermethod |
| F | number | D | internals |
| F | save | F | load |
| D | tobesaved | F | loadpresets |
| **references** | **table** | F | mark |
| F | analyze | D | pages |
| F | checkedfile | U | prefixsplitter |
| F | checkedfileorurl | D | productdata |
| F | checkedprogram | T | programs |
| F | checkedrealpage | T | data |
| F | checkedurl | F | define |
| D | collected | F | get |
| U | componentsplitter | F | realpageofpage |
| F | currentmetadata | U | referencesplitter |
| F | currentorder | D | referred |
| D | currentset | F | referredpage |
| F | define | F | registerfinalizer |
| D | defined | F | registerinitializer |
| D | derived | F | registerpage |
| F | enableinteraction | F | reportproblems |
| F | enhance | F | reset |
| D | executers | D | runners |
| F | expandcurrent | F | set |
| F | export | F | setandgetattribute |
| T | files | F | setcomponent |
| T | data | F | setinnermethod |
| F | define | F | setinternalreference |
| F | get | F | setnextinternal |
| F | filter | F | setnextorder |
| F | filterdefault | D | specials |
| D | filters | F | splitcomponent |
| D | flaginternals | F | splitprefix |
| F | from | F | splitreference |
| F | get | F | synchronizepage |
| F | getcurrentmetadata | T | testrunners |
| F | getcurrentprefixspec | F | inner |
| F | getinnermethod | F | special |
| F | getinternallistreference | F | special operation |
| F | getinternalreference | F | special operation with arguments |
| D | handlers | T | testspecials |
| F | identify | F | deltapage |

| | | | | |
|---|---|---|---|---|
| F i | | | F finddata | |
| F internal | | | F findnumber | |
| F page | | | F fullnumber | |
| F realpage | | | F getcurrentlevel | |
| F section | | | F getlevel | |
| F userpage | | | F getnumber | |
| D tobereferred | | | F internalreference | |
| D tobesaved | | | D levelmap | |
| T urls | | | D levels | |
| T data | | | F load | |
| F define | | | F matchingtilldepth | |
| F get | | | F numberatdepth | |
| D usedinternals | | | F numbers | |
| D usedviews | | | F popblock | |
| F valid | | | F prefixedconverted | |
| F whatfrom | | | F pushblock | |

**registers**      table

| | | F register | |
|---|---|---|---|
| F analyze | | D registered | |
| D collected | | F reportstructure | |
| F compare | | F save | |
| F define | | T sectionblockdata | |
| F enhance | |   T bodypart | |
| F extend | |     S bookmark | |
| F filter | | F set | |
| F filtercollected | | F setblock | |
| F finalize | | F setchecker | |
| F flush | | F setentry | |
| F prepare | | F setlevel | |
| F process | | F setnumber | |
| F setmethod | | F structuredata | |
| F sort | | F title | |
| F store | | D tobesaved | |
| D tobesaved | | F typesetnumber | |
| F unique | | F userdata | |
| F userdata | | B verbose | |

**sections**      table      **sets**      table

| | | |
|---|---|---|
| F autodepth | | F define |
| F cct | | F get |
| D collected | | F getall |
| F current | | D setlist |

**specials**      table

| F currentblock | | D collected |
|---|---|---|
| F currentid | | F retrieve |
| F currentlevel | | F store |
| F depthnumber | | |

| | | | | |
|---|---|---|---|---|
| D tobesaved | | | F stop | |
| **synonyms** | table | | D taglist | |
| F analyzed | | | T userdata | |
| D collected | | | D userproperties | |
| F compare | | | | |
| F define | | | | |
| F filter | | | | |
| F finalize | | | | |
| F flush | | | | |
| F meaning | | | | |
| F prepare | | | | |
| F process | | | | |
| F register | | | | |
| F registerused | | | | |
| F sort | | | | |
| F synonym | | | | |
| D tobesaved | | | | |
| **tags** | table | | | |

T data

F detailedtag

F getid

F handler

D labels

F last

F lastinchain

T metadata

D properties

F registerdata

F registermetadata

F restart

F setattributehash

F setcombination

F setdescription

F setdescriptionsymbol

F setfigure

F sethighlight

F setitemgroup

F setproperty

F setsorting

F setsynonym

F settablecell

F settabulatecell

F setuserproperties

F start

# 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 |
| **copy** | 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** | data table |
| **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 | **printlist** | function |
| **getdelcode** | function | **prtcatcodes** | number |
| **getdimen** | function | **romannumeral** | function |
| **getlccode** | function | **round** | function |
| **getlist** | function | **run** | function |
| **getmath** | function | **scale** | function |
| **getmathcode** | function | **set** | function |
| **getnest** | function | **set_experimental_code** | function |
| **getsfcode** | function | **setattribute** | function |
| **getskip** | function | **setbox** | function |
| **gettoks** | function | **setcatcode** | function |
| **getuccode** | function | **setcount** | function |
| **hashtokens** | function | **setdelcode** | function |
| **ifs** | data table | **setdimen** | function |
| **inicatcodes** | number | **setlccode** | function |
| **init_rand** | function | **setlist** | function |
| **iscount** | function | **setmath** | function |

| | |
|---|---|
| **setmathcode** | function |
| **setnest** | function |
| **setsfcode** | function |
| **setskip** | function |
| **settoks** | function |
| **setuccode** | function |
| **sfcode** | table |
| **shipout** | function |
| **show_context** | function |
| **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 |
| **type** | function |
| **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

# token (basic tex)

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

# tokens (context)

**bgroup**    table
**collectors**  table
  T data
  F defaultwords
  F dowithwords
  F flush
  F handle
  F install
  F register
  T registered
  T remapper
  F convert
  T data
  F store
  F show
  T show_methods
  F a
  F b
  F c
  F showtoken
  F test
  F trace
**egroup**    table
**hbox**      table
**letter**    function
**letters**   function
**other**    function
**vbox**      table
**vtop**      table

# tracers (context)

| | |
|---|---|
| **count** | function |
| **cs** | function |
| **dimen** | function |
| **knownlist** | function |
| **lists** | table |
| | T context |
| | T internals |
| | T scratch |
| **name** | function |
| **primitive** | function |
| **printerror** | function |
| **showlines** | function |
| **strings** | table |
| | S undefined |
| **toks** | function |
| **type** | function |

# trackers (context)

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

# typesetters (context)

**alignments**    table
- F handler
- F set

**breakpoints**    table
- F define
- F handler
- D mapping
- T methods
- T numbers
- F set
- F setreplacement

**cases**    table
- T actions
- F handler
- F register
- F set

**characteralign**    table
- F handler
- F resetcharacteralign
- F setcharacteralign

**characters**    table
- F handler
- F replacenbsp
- F replacenbspaces

**checkers**    table
- F handler
- F reset
- F set

**cleaners**    table
- F handler
- F set

**digits**    table
- T actions
- F handler
- F set

**directions**    table
- F getfences
- F getglobal
- F getmethod
- F handler
- T handlers

- F installhandler
- F processmath
- F set
- F setcolor
- F setmath
- F tomode

**firstlines**    table
- T actions
  - F default
  - F line
  - F word
- F handler
- F set

**initials**    table
- T actions
  - F default
- F handler
- F set

**italics**    table
- F forcevariant
- F handler
- F reset
- F set

**kerns**    table
- D factors
- F handler
- F keepligature
- B keeptogether
- D mapping
- F set

**manipulators**    table
- F apply
- F applyspecification
- T methods
  - F Word
  - F Words
  - F abbreviatedjournal
  - F expandedjournal
  - F lowercase
  - F stripperiod
  - F uppercase

| | |
|---|---|
|   T patterns | F set_reflow_height |
|    U list | F set_reflow_width |
|    U pair | |
|   F splitspecification | |

**margins**     table

  F finalhandler

  F globalhandler

  F ha

  F localhandler

  F save

**processors**     table

  F apply

  F register

  F reset

  F split

  F startapply

  F stopapply

  F stripped

  F tostring

**spacings**     table

  F define

  F handler

  D mapping

  T numbers

   T frenchpunctuation

    T characters

    S name

    N number

  F reset

  F set

  F setup

**xtables**     table

  F cleanup

  F construct

  F create

  F flush

  F initialize_construct

  F initialize_reflow_height

  F initialize_reflow_width

  F next_row

  F reflow_height

  F reflow_width

  F set_construct

# unicode (extra lua)

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

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

**latin1**  table
- F byte
- F char
- F dump
- F find
- F format
- F gfind
- F gmatch
- F gsub

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

**utf8**  table
- F byte
- F char
- F characters
- F chrlen
- F count
- F dump
- F filetype
- F find
- F format
- F gfind
- F gmatch
- F gsub
- F is_valid
- F len
- F length
- F lower
- F magic
- F match
- F remapper
- F rep
- F replacer
- F reverse
- F split
- F splitlines
- F sub
- F subtituter
- F tocodes
- F toeight
- F toentities
- F tostring
- F totable
- F upper
- F ustring

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

# url (context)

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

# utilities (context)

**debugger**      table
   F disable
   F enable
   F savestats
   F showstats
   F showtraceback

**formatters**      table
   F formatcolumns
   F list
   F stripzeros

**garbagecollector**      table
   F check
   N criterium
   B enabled

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

**packers**      table
   F hashed
   F new
   F pack
   F simplehashed
   F strip
   F unpack

   N version

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

**report**      function
**sequencers**      table
   F appendaction
   F appendgroup
   F compile

| F disableaction | U retain |
| F disablegroup | U retain and collapse |
| F enableaction | U retain and no empty |
| F enablegroup | F striplines |
| D functions | F striplong |
| F localize | F tabtospace |
| F new | T tracers |

| F nodeprocessor | **tables** table |
| F prependaction | F accesstable |
| F prependgroup | F definedtable |
| F removeaction | F definetable |
| F setkind | F encapsulate |
| F tostring | F insertaftervalue |

| **setters** table | F insertbeforevalue |
| F disable | F migratetable |
| F enable | F removevalue |

| F initialize | **templates** table |
| F list | F load |
| F new | F replace |
| F register | F replacer |
| F report | F resolve |
| F reset |
| F show |

**stacker** table

F new

**storage** table

F allocate

F checked

F mark

F marked

F setinitializer

F sparse

**strings** table

F collapsecrlf

T formatters

  F add

  F new

F newrepeater

F nice

T striplinepatterns

  U collapse

  U prune

  U prune and collapse

  U prune and no empty

# vf (context)

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

# visualizers (context)

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

# xml (context)

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

| | |
|---|---|
| F command | F table |
| F concat | F tag |
| F concatrange | F tags |
| F context | F text |
| F count | F texts |
| F ctxtext | F upperall |

| | |
|---|---|
| **first** | function |
| **found** | function |
| **functions** | table |
| **getbuffer** | function |
| **gethandlers** | function |
| **gethandlersfunction** | function |
| **helpers** | table |

F default
F first
F function
F index
F last
F lettered
F lower
F lowerall
F match
F name
F position
F reverse
F stripped
F tag
F tags
F text
F upper
F upperall

   F recursetext

| | |
|---|---|
| **include** | function |
| **inclusion** | function |
| **inclusions** | function |
| **index** | function |
| **inheritedconvert** | function |
| **inject** | function |
| ~~inject_element~~ | ~~function~~ |
| ~~inject_element_after~~ | ~~function~~ |
| ~~inject_element_before~~ | ~~function~~ |
| **injectafter** | function |
| **injectbefore** | function |
| **insert** | function |
| **insert_element** | function |
| ~~insert_element_after~~ | ~~function~~ |
| ~~insert_element_before~~ | ~~function~~ |
| **insertafter** | function |
| **insertbefore** | function |
| **insertcomment** | function |
| **inspect** | function |
| **is_valid** | function |
| **kind** | function |
| **last** | function |
| **load** | function |
| **lpath** | function |
| **lpathcached** | function |
| **lpathcalls** | function |
| **lshow** | function |
| **makestandalone** | function |
| **match** | function |
| **name** | function |

T xml
F all
F att
F attribute
F attributes
F cdata
F chainattribute
F count
F default
F elements
F empty
F first
F function
F index
F last
F lowerall
F match
F name
F position
F reverse

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

# zip (extra lua)

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

# zlib (extra lua)

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