

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 |

|                 |          |                   |          |
|-----------------|----------|-------------------|----------|
| 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 |

|                    |          |
|--------------------|----------|
| url                | table    |
| userdata           | table    |
| utf                | table    |
| utf16_to_utf8_be_t | function |
| utf16_to_utf8_le_t | function |
| utf32_to_utf8_be_t | function |
| utf32_to_utf8_le_t | function |
| 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 hsvtorgay
- F hsvtorgb
- F iccprofile
- F isblack
- N main
- S model
- D models
- F mpcolor
- F mpnamedcolor

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

## define function effects table

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

## handlers table list data table names data table negatives table

|                       |            |                 |
|-----------------------|------------|-----------------|
| N attribute           |            | F register      |
| D data                |            | D registered    |
| F enable              |            | F resolve_begin |
| F handler             |            | F resolve_end   |
| F register            |            | F resolve_reset |
| D registered          |            | F resolve_step  |
| <b>numbers</b>        | data table | D scopes        |
| <b>ofnode</b>         | function   | F setfeatures   |
| <b>private</b>        | function   | F start         |
| <b>public</b>         | function   | F stop          |
| <b>showcurrent</b>    | function   | B supported     |
| <b>states</b>         | table      | D values        |
| F disabletriggering   |            |                 |
| F enabletriggering    |            |                 |
| F finalize            |            |                 |
| F initialize          |            |                 |
| F process             |            |                 |
| F selective           |            |                 |
| F stacked             |            |                 |
| F stacker             |            |                 |
| <b>system</b>         | function   |                 |
| <b>transparencies</b> | 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              |            |                 |
| <b>unsetvalue</b>     | number     |                 |
| <b>viewerlayers</b>   | 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 getbookmarks

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 mergebookmarks

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)

|                |          |
|----------------|----------|
| <b>arshift</b> | function |
| <b>band</b>    | function |
| <b>bnot</b>    | function |
| <b>bor</b>     | function |
| <b>bswap</b>   | function |
| <b>bxor</b>    | function |
| <b>lshift</b>  | function |
| <b>rol</b>     | function |
| <b>ror</b>     | function |
| <b>rshift</b>  | function |
| <b>tobit</b>   | function |
| <b>tohex</b>   | function |

## bit32 (basic lua)

|                |          |
|----------------|----------|
| <b>arshift</b> | function |
| <b>band</b>    | function |
| <b>bnot</b>    | function |
| <b>bor</b>     | function |
| <b>btest</b>   | function |
| <b>bxor</b>    | function |
| <b>extract</b> | function |
| <b>lrotate</b> | function |
| <b>lshift</b>  | function |
| <b>replace</b> | function |
| <b>rrotate</b> | function |
| <b>rshift</b>  | function |

## blobs (context)

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

## boolean (context)

**tocontext** function

**tonumber** function

## buffers (context)

|                       |          |
|-----------------------|----------|
| <b>append</b>         | function |
| <b>assign</b>         | function |
| <b>collectcontent</b> | function |
| <b>erase</b>          | function |
| <b>exists</b>         | function |
| <b>getcontent</b>     | function |
| <b>getlines</b>       | function |
| <b>loadcontent</b>    | function |
| <b>parallel</b>       | table    |
| F define              |          |
| F hassomecontent      |          |
| F next                |          |
| F place               |          |
| F reset               |          |
| F save                |          |
| <b>prepend</b>        | function |
| <b>raw</b>            | 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 kepttogether
- 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)

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

## callback (basic tex)

**find**        function

**list**        function

**register**   overloaded function



## callbacks (context)

|                 |            |
|-----------------|------------|
| <b>freeze</b>   | function   |
| <b>known</b>    | function   |
| <b>list</b>     | data table |
| <b>pop</b>      | function   |
| <b>push</b>     | function   |
| <b>register</b> | function   |
| <b>report</b>   | function   |

## catcodes (context)

|                 |            |
|-----------------|------------|
| <b>names</b>    | data table |
| <b>numbers</b>  | data table |
| <b>register</b> | function   |

# characters (context)

|                       |            |     |
|-----------------------|------------|-----|
| <b>activeoffset</b>   | number     | S B |
| <b>adobename</b>      | function   | S C |
| <b>bidirectional</b>  | data table | S D |
| <b>blockrange</b>     | function   | S E |
| <b>blocks</b>         | data table | S F |
| <b>casemap</b>        | table      | S G |
| <b>categories</b>     | data table | S H |
| <b>category</b>       | function   | S I |
| <b>categorytags</b>   | data table | S J |
| <b>collapsed</b>      | data table | S K |
| <b>combined</b>       | data table | S L |
| <b>contextname</b>    | function   | S M |
| <b>data</b>           | data table | S N |
| <b>decomposed</b>     | data table | S O |
| <b>define</b>         | function   | S P |
| <b>description</b>    | function   | S Q |
| <b>descriptions</b>   | data table | S R |
| <b>directions</b>     | table      | S S |
| <b>encodes</b>        | data table | S T |
| <b>entities</b>       | data table | S U |
| <b>fallbacks</b>      | data table | S V |
| <b>filters</b>        | data table | S W |
| <b>fromnumber</b>     | function   | S X |
| <b>fschars</b>        | data table | S Y |
| <b>fscodes</b>        | data table | S Z |
| <b>getrange</b>       | function   | S Å |
| <b>graphemes</b>      | data table | S Å |
| <b>hangul</b>         | data table | S Å |
| <b>initialize</b>     | function   | S Å |
| <b>is_character</b>   | data table | S Å |
| <b>is_command</b>     | data table | S Å |
| <b>is_letter</b>      | data table | S Æ |
| <b>is_mark</b>        | data table | S Ç |
| <b>is_punctuation</b> | data table | S È |
| <b>is_spacing</b>     | data table | S È |
| <b>lcchars</b>        | data table | S È |
| <b>lccode</b>         | function   | S È |
| <b>lccodes</b>        | data table | S Ì |
| <b>lettered</b>       | function   | S Ì |
| <b>lhash</b>          | table      | S Ì |
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| S bb              |              | <b>setcodes</b>             | function     |
| S bk              |              | <b>shape</b>                | function     |
| S cb              |              | <b>shaped</b>               | function     |
| S cj              |              | <b>shash</b>                | table        |
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| <b>lower</b>      | function     | S ă                         |              |
| <b>math</b>       | table        | S ä                         |              |
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| S   | <b>shcodes</b>      | data table |
| S   | <b>showstring</b>   | function   |
| S   | <b>specialchars</b> | data table |
| S   | <b>specials</b>     | data table |
| S   | <b>subscripts</b>   | table      |
| S   | <b>superscripts</b> | table      |
| S   | <b>synonyms</b>     | data table |
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| S   | D accentmapping     |            |
| S   | D commandmapping    |            |
| S   | F defineaccents     |            |
| S   | F safechar          |            |
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| S   | F toutfpattern      |            |
| S   | <b>textclasses</b>  | table      |
| S   | <b>tonumber</b>     | function   |
| S   | <b>ucchars</b>      | data table |
| S   | <b>uccode</b>       | function   |
| S   | <b>uccodes</b>      | data table |
| S   | <b>uhash</b>        | table      |
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| <b>unicodechar</b> | function |
| <b>upper</b>       | function |

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## chemistry (context)

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

## commands (context)

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



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

|                                      |          |                                     |          |
|--------------------------------------|----------|-------------------------------------|----------|
| <b>defrostrandomseed</b>             | function | <b>doiflisthasentry</b>             | function |
| <b>depthnumber</b>                   | function | <b>doiflisthasnumberelse</b>        | function |
| <b>digits</b>                        | function | <b>doiflisthaspageelse</b>          | function |
| <b>disableautofontscript</b>         | function | <b>doiflisthastitleelse</b>         | function |
| <b>disableparbuilder</b>             | function | <b>doiflocfileelse</b>              | function |
| <b>disableregime</b>                 | function | <b>doifnot</b>                      | function |
| <b>disablesPELLchecking</b>          | function | <b>doifnotcounter</b>               | function |
| <b>discardfromlist</b>               | function | <b>doifnotecontent</b>              | function |
| <b>doanalyzeframedbox</b>            | function | <b>doifnoteonsamepageasprevious</b> | function |
| <b>doif</b>                          | function | <b>doifobjectreferencefoundelse</b> | function |
| <b>doifblackelse</b>                 | function | <b>doifolderversionelse</b>         | function |
| <b>doifcommonelse</b>                | function | <b>doifoverlappingelse</b>          | function |
| <b>doifcounter</b>                   | function | <b>doifparentfileelse</b>           | function |
| <b>doifdimenstringelse</b>           | function | <b>doifpathexistelse</b>            | function |
| <b>doifdrawingblackelse</b>          | function | <b>doifposition</b>                 | function |
| <b>doifelse</b>                      | function | <b>doifpositionelse</b>             | function |
| <b>doifelsebuffer</b>                | function | <b>doifpositiononpage</b>           | function |
| <b>doifelsecontinewithfile</b>       | function | <b>doifpositionsonsamepageelse</b>  | function |
| <b>doifelsecounter</b>               | function | <b>doifpositionsonthispageelse</b>  | function |
| <b>doifelsecurrentfonthasfeature</b> | function | <b>doifurldefinedelse</b>           | function |
| <b>doifelseintwopassdata</b>         | function | <b>doproccestypescriptfile</b>      | function |
| <b>doifelsemarking</b>               | function | <b>doreshapeframedbox</b>           | function |
| <b>doifelsemessage</b>               | function | <b>dostarttextfile</b>              | function |
| <b>doifelsemultipar</b>              | function | <b>dostoptextfile</b>               | function |
| <b>doifelseparallel</b>              | function | <b>ecolumn</b>                      | function |
| <b>doifelsepositionsused</b>         | function | <b>elapsedtime</b>                  | function |
| <b>doifelserangeonpage</b>           | function | <b>enableautofontscript</b>         | function |
| <b>doifelserreference</b>            | function | <b>enablecolor</b>                  | function |
| <b>doifelsesavedfloat</b>            | function | <b>enablecolorintents</b>           | function |
| <b>doifelsespaces</b>                | function | <b>enablefontcolorsschemes</b>      | function |
| <b>doifelseutfmathabove</b>          | function | <b>enableparbuilder</b>             | function |
| <b>doifelseutfmathaccent</b>         | function | <b>enableregime</b>                 | function |
| <b>doifelseutfmathbelow</b>          | function | <b>enablesPELLchecking</b>          | function |
| <b>doifelseutfmathfiller</b>         | function | <b>enabletransparency</b>           | function |
| <b>doifelsevisualizer</b>            | function | <b>enhancelinkedlist</b>            | function |
| <b>doiffieldcategoryelse</b>         | function | <b>enhancelist</b>                  | function |
| <b>doiffieldelse</b>                 | function | <b>enhancereference</b>             | function |
| <b>doiffieldsetelse</b>              | function | <b>enhanceregister</b>              | function |
| <b>doiffiledefinedelse</b>           | function | <b>erasebuffer</b>                  | function |
| <b>doiffileexistelse</b>             | function | <b>expandcurrentreference</b>       | function |
| <b>doiffirstcharelse</b>             | function | <b>exportformdata</b>               | function |
| <b>doifinputfileelse</b>             | function | <b>exportreferences</b>             | function |
| <b>doifinsetelse</b>                 | function | <b>extendregister</b>               | function |
| <b>doifleapyearelse</b>              | function | <b>extensiblecode</b>               | function |

|                                |                 |                                    |                 |
|--------------------------------|-----------------|------------------------------------|-----------------|
| <b>feature</b>                 | <b>function</b> | <b>formatcolor</b>                 | <b>function</b> |
| <b>featureattribute</b>        | <b>function</b> | <b>formatgray</b>                  | <b>function</b> |
| <b>featurelist</b>             | <b>function</b> | <b>freezerandomseed</b>            | <b>function</b> |
| <b>feedback</b>                | <b>function</b> | <b>from</b>                        | <b>function</b> |
| <b>fetchallmarks</b>           | <b>function</b> | <b>getbidimode</b>                 | <b>function</b> |
| <b>fetchmultipar</b>           | <b>function</b> | <b>getbuffer</b>                   | <b>function</b> |
| <b>fetchmultishape</b>         | <b>function</b> | <b>getbuffercctlua</b>             | <b>function</b> |
| <b>fetchonemark</b>            | <b>function</b> | <b>getbuffermkvi</b>               | <b>function</b> |
| <b>fetchposboxes</b>           | <b>function</b> | <b>getcommandline</b>              | <b>function</b> |
| <b>fetchtwomarks</b>           | <b>function</b> | <b>getctxfile</b>                  | <b>function</b> |
| <b>figurefilename</b>          | <b>function</b> | <b>getcurrentprefixspec</b>        | <b>function</b> |
| <b>figurefilepath</b>          | <b>function</b> | <b>getcurrentreferencemetadata</b> | <b>function</b> |
| <b>figurefiletype</b>          | <b>function</b> | <b>getcurrentsectionlevel</b>      | <b>function</b> |
| <b>figurerequest</b>           | <b>function</b> | <b>getdefaultfieldvalue</b>        | <b>function</b> |
| <b>figurestatus</b>            | <b>function</b> | <b>getelementtag</b>               | <b>function</b> |
| <b>figureused</b>              | <b>function</b> | <b>getfieldcategory</b>            | <b>function</b> |
| <b>figurevariable</b>          | <b>function</b> | <b>getfirstcharacter</b>           | <b>function</b> |
| <b>filterdefaultreference</b>  | <b>function</b> | <b>getfirsttwopassdata</b>         | <b>function</b> |
| <b>filterreference</b>         | <b>function</b> | <b>getfloatvariable</b>            | <b>function</b> |
| <b>finalizebox</b>             | <b>function</b> | <b>getfullsectionnumber</b>        | <b>function</b> |
| <b>findtwopassdata</b>         | <b>function</b> | <b>getinternallistreference</b>    | <b>function</b> |
| <b>firstcountervalue</b>       | <b>function</b> | <b>getinternalreference</b>        | <b>function</b> |
| <b>firstinset</b>              | <b>function</b> | <b>getlasttwopassdata</b>          | <b>function</b> |
| <b>firstofrange</b>            | <b>function</b> | <b>getmarking</b>                  | <b>function</b> |
| <b>flushfloat</b>              | <b>function</b> | <b>getmessage</b>                  | <b>function</b> |
| <b>flushmarked</b>             | <b>function</b> | <b>getmpextensions</b>             | <b>function</b> |
| <b>flushnotes</b>              | <b>function</b> | <b>getnotestate</b>                | <b>function</b> |
| <b>flushpostponedblocks</b>    | <b>function</b> | <b>getplaceholderchar</b>          | <b>function</b> |
| <b>flushpostponednotes</b>     | <b>function</b> | <b>getprivatechar</b>              | <b>function</b> |
| <b>fontchar</b>                | <b>function</b> | <b>getprogram</b>                  | <b>function</b> |
| <b>fontcharbyindex</b>         | <b>function</b> | <b>getrandomcounta</b>             | <b>function</b> |
| <b>fontcollectionclone</b>     | <b>function</b> | <b>getrandomcountb</b>             | <b>function</b> |
| <b>fontcollectiondefine</b>    | <b>function</b> | <b>getrandomseed</b>               | <b>function</b> |
| <b>fontcollectionprepare</b>   | <b>function</b> | <b>getreadfilename</b>             | <b>function</b> |
| <b>fontcollectionregister</b>  | <b>function</b> | <b>getsectionnumber</b>            | <b>function</b> |
| <b>fontcollectionreport</b>    | <b>function</b> | <b>getstructuredata</b>            | <b>function</b> |
| <b>fontcollectionreset</b>     | <b>function</b> | <b>getsubstring</b>                | <b>function</b> |
| <b>fontlookupgetkey</b>        | <b>function</b> | <b>gettexbuffer</b>                | <b>function</b> |
| <b>fontlookupgetkeyofindex</b> | <b>function</b> | <b>gettwopassdata</b>              | <b>function</b> |
| <b>fontlookupinitialize</b>    | <b>function</b> | <b>gettwopassdatalist</b>          | <b>function</b> |
| <b>fontlookupnofound</b>       | <b>function</b> | <b>geturl</b>                      | <b>function</b> |
| <b>forceendjob</b>             | <b>function</b> | <b>grabbuffer</b>                  | <b>function</b> |
| <b>forcequitjob</b>            | <b>function</b> | <b>hboxtovbox</b>                  | <b>function</b> |
| <b>format</b>                  | <b>function</b> | <b>helpaction</b>                  | <b>function</b> |

|                                |          |                                   |          |
|--------------------------------|----------|-----------------------------------|----------|
| <b>help</b>                    | function | <b>loadexamodes</b>               | function |
| <b>hexstringtonumber</b>       | function | <b>loadfontgoodies</b>            | function |
| <b>horizontalcode</b>          | function | <b>loadspellchecklist</b>         | function |
| <b>hour</b>                    | function | <b>loadtypescriptfile</b>         | function |
| <b>hyphenatedlist</b>          | function | <b>loadvisualizer</b>             | function |
| <b>hyphenatedurl</b>           | function | <b>locatefilepath</b>             | function |
| D characters                   |          | <b>locfilename</b>                | function |
| N lefthyphenmin                |          | <b>lower</b>                      | function |
| D mapping                      |          | <b>makeactive</b>                 | function |
| N righthyphenmin               |          | <b>manipulated</b>                | function |
| F setcharacters                |          | <b>markfonts</b>                  | function |
| <b>immediateproperty</b>       | function | <b>markingnumber</b>              | function |
| <b>incrementedcounter</b>      | function | <b>markingtitle</b>               | function |
| <b>initializetexdirectives</b> | function | <b>markinjector</b>               | function |
| <b>initializetextrackers</b>   | function | <b>markregionbox</b>              | function |
| <b>injectcurrentreference</b>  | function | <b>math_frac</b>                  | function |
| <b>injectreference</b>         | function | <b>mathrenderset</b>              | function |
| <b>inlinechemical</b>          | function | <b>maxitemwidth</b>               | function |
| <b>insertattachment</b>        | function | <b>minute</b>                     | function |
| <b>insertcomment</b>           | function | <b>mixcleanup</b>                 | function |
| <b>insertfield</b>             | function | <b>mixfinalize</b>                | function |
| <b>insertionnumber</b>         | function | <b>mixflushlist</b>               | function |
| <b>insertrenderingwindow</b>   | function | <b>mixflushrest</b>               | function |
| <b>insertsoundclip</b>         | function | <b>mixgetsplit</b>                | function |
| <b>installedlanguages</b>      | function | <b>mixsetsplit</b>                | function |
| <b>installtexdirective</b>     | function | <b>mixstate</b>                   | function |
| <b>installtextracker</b>       | function | <b>molecule</b>                   | function |
| <b>language</b>                | function | <b>month</b>                      | function |
| <b>lastcountervalue</b>        | function | <b>monthmnem</b>                  | function |
| <b>lchexnumber</b>             | function | <b>monthname</b>                  | function |
| <b>lchexnumbers</b>            | function | <b>mpcolor</b>                    | function |
| <b>leapyear</b>                | function | <b>mpoptions</b>                  | function |
| <b>linenumbersstageone</b>     | function | <b>mprunvar</b>                   | function |
| <b>linenumbersstagetwo</b>     | function | <b>namedstructureuservariable</b> | function |
| <b>listgroupindex</b>          | function | <b>namedstructurevariable</b>     | function |
| <b>listlabel</b>               | function | <b>nbfs</b>                       | function |
| <b>listlocation</b>            | function | <b>nextcountervalue</b>           | function |
| <b>listprefixednumber</b>      | function | <b>nextparallel</b>               | function |
| <b>listprefixedpage</b>        | function | <b>nofdays</b>                    | function |
| <b>listrealpage</b>            | function | <b>nofitems</b>                   | function |
| <b>listsize</b>                | function | <b>nofstackedfloats</b>           | function |
| <b>listtitle</b>               | function | <b>notedeltapage</b>              | function |
| <b>listuserdata</b>            | function | <b>notelistindex</b>              | function |
| <b>loadbtxdefinitionfile</b>   | function | <b>notenumberpage</b>             | function |

|                                |          |                           |
|--------------------------------|----------|---------------------------|
| <b>noteprefixednumber</b>      | function | F TexSnippet              |
| <b>notesymbolpage</b>          | function | F TexSnippetBoundary      |
| <b>notetitle</b>               | function | F TexSnippetComment       |
| <b>ntimes</b>                  | function | F TexSnippetGroup         |
| <b>number</b>                  | function | F TexSnippetName          |
| F C                            |          | F TexSnippetSpecial       |
| F FL                           |          | F XmlSnippet              |
| F HL                           |          | F XmlSnippetBoundary      |
| F L                            |          | F XmlSnippetCdata         |
| F LL                           |          | F XmlSnippetComment       |
| F LuaSnippet                   |          | F XmlSnippetEntity        |
| F LuaSnippetBoundary           |          | F XmlSnippetEqual         |
| F LuaSnippetComment            |          | F XmlSnippetKey           |
| F LuaSnippetName               |          | F XmlSnippetName          |
| F LuaSnippetNameBase           |          | F XmlSnippetString        |
| F LuaSnippetNameCore           |          | F __flush                 |
| F LuaSnippetNameLibraries      |          | F __flushdirect           |
| F LuaSnippetQuote              |          | F __flushlines            |
| F LuaSnippetSpecial            |          | F a                       |
| F LuaSnippetString             |          | F addaskedblankskip       |
| F ML                           |          | F addpredefinedblankskip  |
| F MPLIBsetCtext                |          | F applyprocessor          |
| F MPLIBsetNtext                |          | F b                       |
| F MPcolor                      |          | F beginhbox               |
| F MetapostSnippet              |          | F beginvbox               |
| F MetapostSnippetBoundary      |          | F bf                      |
| F MetapostSnippetComment       |          | F bgroup                  |
| F MetapostSnippetConstructor   |          | F blank                   |
| F MetapostSnippetName          |          | F bold                    |
| F MetapostSnippetNameMetafun   |          | F btxchecklistcombi       |
| F MetapostSnippetNamePlain     |          | F btxchecklistentry       |
| F MetapostSnippetNamePrimitive |          | F btxciteauthorsetup      |
| F MetapostSnippetQuote         |          | F btxcitesetup            |
| F MetapostSnippetSpecial       |          | F btxcitevariantparameter |
| F MetapostSnippetString        |          | F btxdirectlink           |
| F NC                           |          | F btxhandlelistentry      |
| F NR                           |          | F btxhandlelisttextentry  |
| F ParsedXmlSnippetCdata        |          | F btxlistauthorsetup      |
| F ParsedXmlSnippetComment      |          | F btxlistparameter        |
| F ParsedXmlSnippetDoctype      |          | F btxlistsetup            |
| F ParsedXmlSnippetElement      |          | F btxlistvariantparameter |
| F ParsedXmlSnippetInstruction  |          | F btxmissing              |
| F ParsedXmlSnippetKey          |          | F btxsetauthorindex       |
| F ParsedXmlSnippetValue        |          | F btxsetauthorvariant     |

|                       |                               |
|-----------------------|-------------------------------|
| F btxsetbacklink      | F colordefflt                 |
| F btxsetbacktrace     | F colordefrgc                 |
| F btxsetcategory      | F colordefrft                 |
| F btxsetcitereference | F colordefrlc                 |
| F btxsetcombis        | F colordefrlt                 |
| F btxsetconcat        | F concat                      |
| F btxsetcount         | F constructcs                 |
| F btxsetdataset       | F constructcsonly             |
| F btxsetfirst         | F convertnumber               |
| F btxsetfirstnames    | F ctxreport                   |
| F btxsetinitials      | F d                           |
| F btxsetinternal      | F darkblue                    |
| F btxsetjuniors       | F darkgreen                   |
| F btxsetlanguage      | F darkred                     |
| F btxsetlefttext      | F definefontsynonym           |
| F btxsetlistreference | T delayed                     |
| F btxsetnumber        | F digitsdigit                 |
| F btxsetoverflow      | F digitsfinalcomma            |
| F btxsetrighttext     | F digitsfinalperiod           |
| F btxsetsecond        | F digitshighspace             |
| F btxsetsurnames      | F digitsintermediatecomma     |
| F btxsettag           | F digitsintermediateperiod    |
| F btxsetthird         | F digitsminus                 |
| F btxsetvons          | F digitsnegative              |
| F btxstartauthor      | F digitsplus                  |
| F btxstartcite        | F digitspositive              |
| F btxstartciteauthor  | F digitspower                 |
| F btxstartsubcite     | F digitspowerminus            |
| F btxstopauthor       | F digitspowerplus             |
| F btxstopcite         | F digitsseparatorspace        |
| F btxstopciteauthor   | F digitssignspace             |
| F btxstopsubcite      | F digitsspace                 |
| F c                   | F digitszeropadding           |
| F callfunctiononce    | F direct                      |
| F char                | F doactivateinjector          |
| F chardef             | F dodisplayverbatimbeginline  |
| F color               | F dodisplayverbatimemptyline  |
| F colordefagc         | F dodisplayverbatiminitialize |
| F colordefagt         | F dodisplayverbatimnewline    |
| F colordefalc         | F dodisplayverbatimstart      |
| F colordefalt         | F dodisplayverbatimstop       |
| F colordeffgc         | F dofastdefinetypeface        |
| F colordeffgt         | F dofinishsomereference       |
| F colordefflc         | F dofromfiledescription       |

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|-------------------------------|---------------------------|
| F dofromfileliteral           | F gobbleoneargument       |
| F dofromurldescription        | F goto                    |
| F dofromurlliteral            | F hrule                   |
| F doinlineverbatimimbeginline | F input                   |
| F doinlineverbatimimemptyline | T knownfunctions          |
| F doinlineverbatimimnewline   | F l                       |
| F doinlineverbatimimstart     | F lateluafunction         |
| F doinlineverbatimimstop      | F letvaluerelax           |
| F domarkinjector              | F llap                    |
| F donestedtypingstart         | F loadfile                |
| F donestedtypingstop          | F loadfoundtypescriptfile |
| F dosetfastregisterentry      | F luasetup                |
| F dostarttext                 | F m                       |
| F doverbatimimspace           | F makelinenummer          |
| F egroup                      | T metafun                 |
| F emptyreference              | F color                   |
| F enablemode                  | T delayed                 |
| F endhbox                     | F start                   |
| F endvbox                     | F stop                    |
| F environment                 | T nested                  |
| F expandreferencearguments    | F markingcommand          |
| F expandreferenceoperation    | F markingseparator        |
| F finalizeautostructurelevel  | F newbox                  |
| F finishjob                   | F newcount                |
| F firstofoneargument          | F newdimen                |
| F firstoftwoarguments         | F newindexer              |
| F fixedblankskip              | F newmuskip               |
| F flexibleblankskip           | F newskip                 |
| F flushblankhandling          | F newtexthandler          |
| F flushboxregister            | F newtoks                 |
| F flushnode                   | F newverboseshandler      |
| F fntsetdefname               | F nointerlineskip         |
| F fntsetnopsiz                | F normalatop              |
| F fntsetsomenam               | F normalover              |
| F fntsetsomesiz               | F overstrike              |
| T formatted                   | F par                     |
| F fprint                      | F pdfliteral              |
| T generics                    | F popcatcodes             |
| S starttabulate               | F poplogger               |
| S stoptabulate                | F printlines              |
| F getlogger                   | F processfilemany         |
| F getreferencestructureprefix | F processfilenone         |
| F getvalue                    | F processfileonce         |
| F glyph                       | F protect                 |

|                          |                         |
|--------------------------|-------------------------|
| T puretext               | F startregisterentries  |
| F pushcatcodes           | F startregisterentry    |
| F pushlogger             | F startregisteroutput   |
| F registerentry          | F startregisterpages    |
| F registerfunction       | F startregistersection  |
| F registeronepage        | F startregisterseewords |
| F registerpagerange      | F starttabulate         |
| F registerseeword        | F starttext             |
| F reservefunction        | F starttitle            |
| F rlap                   | F startvboxregister     |
| F rotate                 | F startxtitle           |
| F runfile                | F stopLuaSnippet        |
| F secondoftwoarguments   | F stopMetapostSnippet   |
| F setblankcategory       | F stopParsedXmlSnippet  |
| 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 texsetup                     | F ParsedXmlSnippetDoctype     |                 |
| F tobuffer                     | F ParsedXmlSnippetElement     |                 |
| F tocontext                    | F ParsedXmlSnippetInstruction |                 |
| F tolines                      | F TexSnippetBoundary          |                 |
| F unitsC                       | F TexSnippetComment           |                 |
| F unitsN                       | F TexSnippetGroup             |                 |
| F unitsNspace                  | F TexSnippetName              |                 |
| F unitsNstart                  | F TexSnippetSpecial           |                 |
| F unitsNstop                   | F XmlSnippetBoundary          |                 |
| F unitsO                       | F XmlSnippetCdata             |                 |
| F unitsP                       | F XmlSnippetComment           |                 |
| F unitsPS                      | F XmlSnippetEntity            |                 |
| F unitsPU                      | F XmlSnippetEqual             |                 |
| F unitsPUS                     | F XmlSnippetKey               |                 |
| F unitsQ                       | F XmlSnippetName              |                 |
| F unitsS                       | F XmlSnippetString            |                 |
| F unitsU                       | F ctxreport                   |                 |
| F unitsUS                      | F viafile                     |                 |
| F unprotect                    | F vrule                       |                 |
| F unregisterfunction           | F xmldataaafter               |                 |
| F usemodule                    | F xmldatabefore               |                 |
| F utfchar                      | F xmldataobeyedline           |                 |
| T verbatim                     | F xmldataobeyedspace          |                 |
| F LuaSnippetBoundary           | F xmlprocessbuffer            |                 |
| F LuaSnippetComment            | F xmlsetup                    |                 |
| F LuaSnippetName               | <b>numbers</b>                | <b>function</b> |
| F LuaSnippetNameBase           | F C                           |                 |
| F LuaSnippetNameCore           | F FL                          |                 |
| F LuaSnippetNameLibraries      | F HL                          |                 |
| F LuaSnippetQuote              | F L                           |                 |
| F LuaSnippetSpecial            | F LL                          |                 |
| F LuaSnippetString             | F LuaSnippet                  |                 |
| F MetapostSnippetBoundary      | F LuaSnippetBoundary          |                 |
| F MetapostSnippetComment       | F LuaSnippetComment           |                 |
| F MetapostSnippetConstructor   | F LuaSnippetName              |                 |
| F MetapostSnippetName          | F LuaSnippetNameBase          |                 |
| F MetapostSnippetNameMetafun   | F LuaSnippetNameCore          |                 |
| F MetapostSnippetNamePlain     | F LuaSnippetNameLibraries     |                 |
| F MetapostSnippetNamePrimitive | F LuaSnippetQuote             |                 |
| F MetapostSnippetQuote         | F LuaSnippetSpecial           |                 |
| F MetapostSnippetSpecial       | F LuaSnippetString            |                 |
| F MetapostSnippetString        | F ML                          |                 |
| F ParsedXmlSnippetCdata        | F MPLIBsetCtext               |                 |
| F ParsedXmlSnippetComment      | F MPLIBsetNtext               |                 |

|                                |                           |
|--------------------------------|---------------------------|
| F MPcolor                      | F beginhbox               |
| F MetapostSnippet              | F beginvbox               |
| F MetapostSnippetBoundary      | F bf                      |
| F MetapostSnippetComment       | F bgroup                  |
| F MetapostSnippetConstructor   | F blank                   |
| F MetapostSnippetName          | F bold                    |
| F MetapostSnippetNameMetafun   | F btxcheckboxlistcombi    |
| F MetapostSnippetNamePlain     | F btxcheckboxlistentry    |
| F MetapostSnippetNamePrimitive | F btxciteauthorsetup      |
| F MetapostSnippetQuote         | F btxcitesetup            |
| F MetapostSnippetSpecial       | F btxcitevariantparameter |
| F MetapostSnippetString        | F btxdirectlink           |
| F NC                           | F btxhandlelistentry      |
| F NR                           | F btxhandlelisttextentry  |
| F ParsedXmlSnippetCdata        | F btxlistauthorsetup      |
| F ParsedXmlSnippetComment      | F btxlistparameter        |
| F ParsedXmlSnippetDoctype      | F btxlistsetup            |
| F ParsedXmlSnippetElement      | F btxlistvariantparameter |
| F ParsedXmlSnippetInstruction  | F btxmissing              |
| F ParsedXmlSnippetKey          | F btxsetauthorindex       |
| F ParsedXmlSnippetValue        | F btxsetauthorvariant     |
| F TexSnippet                   | F btxsetbacklink          |
| F TexSnippetBoundary           | F btxsetbacktrace         |
| F TexSnippetComment            | F btxsetcategory          |
| F TexSnippetGroup              | F btxsetcitereference     |
| F TexSnippetName               | F btxsetcombis            |
| F TexSnippetSpecial            | F btxsetconcat            |
| F XmlSnippet                   | F btxsetcount             |
| F XmlSnippetBoundary           | F btxsetdataset           |
| F XmlSnippetCdata              | F btxsetfirst             |
| F XmlSnippetComment            | F btxsetfirstnames        |
| F XmlSnippetEntity             | F btxsetinitials          |
| F XmlSnippetEqual              | F btxsetinternal          |
| F XmlSnippetKey                | F btxsetjuniors           |
| F XmlSnippetName               | F btxsetlanguage          |
| F XmlSnippetString             | F btxsetlefttext          |
| F __flush                      | F btxsetlistreference     |
| F __flushdirect                | F btxsetnumber            |
| F __flushlines                 | F btxsetoverflow          |
| F a                            | F btxsetrighttext         |
| F addaskedblankskip            | F btxsetsecond            |
| F addpredefinedblankskip       | F btxsetsurnames          |
| F applyprocessor               | F btxsettag               |
| F b                            | F btxsetthird             |

|                            |                               |
|----------------------------|-------------------------------|
| F btxsetvons               | F digitsnegative              |
| F btxstartauthor           | F digitsplus                  |
| F btxstartcite             | F digitspositive              |
| F btxstartciteauthor       | F digitspower                 |
| F btxstartsubcite          | F digitspowerminus            |
| F btxstopauthor            | F digitspowerplus             |
| F btxstopcite              | F digitsseparatorspace        |
| F btxstopciteauthor        | F digitssignspace             |
| F btxstopsubcite           | F digitsspace                 |
| F c                        | F digitsszeropadding          |
| F callfunctiononce         | F direct                      |
| F char                     | F doactivateinjector          |
| F chardef                  | F dodisplayverbatimbeginline  |
| F color                    | F dodisplayverbatimemptyline  |
| F colordefagc              | F dodisplayverbatiminitialize |
| F colordefagt              | F dodisplayverbatimnewline    |
| F colordefalc              | F dodisplayverbatimstart      |
| F colordefault             | F dodisplayverbatimstop       |
| F colordeffgc              | F dofastdefinetypeface        |
| F colordeffgt              | F dofinishsomereference       |
| F colordefflc              | F dofromfiledescription       |
| F colordefflt              | F dofromfileliteral           |
| F colordefrgc              | F dofromurldescription        |
| F colordefrgt              | F dofromurlliteral            |
| F colordefrlc              | F doinlineverbatimbeginline   |
| F colordefrlt              | F doinlineverbatimemptyline   |
| F concat                   | F doinlineverbatimnewline     |
| F constructcs              | F doinlineverbatimstart       |
| F constructcsonly          | F doinlineverbatimstop        |
| F convertnumber            | F domarkinjector              |
| F ctxreport                | F donestedtypingstart         |
| F d                        | F donestedtypingstop          |
| F darkblue                 | F dosetfastregisterentry      |
| F darkgreen                | F dostarttext                 |
| F darkred                  | F doverbatimspace             |
| F definefontsynonym        | F egroup                      |
| T delayed                  | F emptyreference              |
| F digitsdigit              | F enablemode                  |
| F digitsfinalcomma         | F endhbox                     |
| F digitsfinalperiod        | F endvbox                     |
| F digitshighspace          | F environment                 |
| F digitsintermediatecomma  | F expandreferencearguments    |
| F digitsintermediateperiod | F expandreferenceoperation    |
| F digitsminus              | F finalizeautostructurelevel  |

|                               |                         |
|-------------------------------|-------------------------|
| F finishjob                   | F newcount              |
| F firstofoneargument          | F newdimen              |
| F firstoftwoarguments         | F newindexer            |
| F fixedblankskip              | F newmuskip             |
| F flexibleblankskip           | F newskip               |
| F flushblankhandling          | F newtexthandler        |
| F flushboxregister            | F newtoks               |
| F flushnode                   | F newverbosetexthandler |
| F fntsetdefname               | F nointerlineskip       |
| F fntsetnopsiz                | F normalatop            |
| F fntsetsomenam               | F normalover            |
| F fntsetsomesiz               | F overstrike            |
| T formatted                   | F par                   |
| F fprint                      | F pdfliteral            |
| T generics                    | F popcatcodes           |
| S starttabulate               | F poplogger             |
| S stoptabulate                | F printlines            |
| F getlogger                   | F processfilemany       |
| F getreferencestructureprefix | F processfilenone       |
| F getvalue                    | F processfileonce       |
| F glyph                       | F protect               |
| F gobbleoneargument           | T puretext              |
| F goto                        | F pushcatcodes          |
| F hrule                       | F pushlogger            |
| F input                       | F registerentry         |
| T knownfunctions              | F registerfunction      |
| F l                           | F registeronepage       |
| F lateluafunction             | F registerpagerange     |
| F letvaluerelax               | F registerseeword       |
| F llap                        | F reservefunction       |
| F loadfile                    | F rlap                  |
| F loadfoundtypescriptfile     | F rotate                |
| F luasetup                    | F runfile               |
| F m                           | F secondoftwoarguments  |
| F makelinenumber              | F setblankcategory      |
| T metafun                     | F setblankorder         |
| F color                       | F setblankpenalty       |
| T delayed                     | F setconditional        |
| F start                       | F setfalsevalue         |
| F stop                        | F sethboxregister       |
| T nested                      | F setsomevalue          |
| F markingcommand              | F settabulateentry      |
| F markingseparator            | F settabulatelastentry  |
| F newbox                      | F settracing            |

|                          |                        |
|--------------------------|------------------------|
| 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 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 LuaSnippetBoundary           | F xmlprocessbuffer                  |          |
| F LuaSnippetComment            | F xmlsetup                          |          |
| F LuaSnippetName               | <b>objectnumber</b>                 | function |
| F LuaSnippetNameBase           | <b>objectpage</b>                   | function |
| F LuaSnippetNameCore           | <b>octnumber</b>                    | function |
| F LuaSnippetNameLibraries      | <b>octstringtonumber</b>            | function |
| F LuaSnippetQuote              | <b>oneorrange</b>                   | function |
| F LuaSnippetSpecial            | <b>ordinal</b>                      | function |
| F LuaSnippetString             | <b>overloadbookmark</b>             | function |
| F MetapostSnippetBoundary      | <b>page_injections_flush_after</b>  | function |
| F MetapostSnippetComment       | <b>page_injections_flush_before</b> | function |
| F MetapostSnippetConstructor   | <b>page_injections_save</b>         | function |
| F MetapostSnippetName          | <b>pagestaterealpage</b>            | function |
| F MetapostSnippetNameMetafun   | <b>parpos</b>                       | function |
| F MetapostSnippetNamePlain     | <b>pdfrotation</b>                  | function |
| F MetapostSnippetNamePrimitive | <b>pdfstartmatrix</b>               | function |
| F MetapostSnippetQuote         | <b>pdfstartmirroring</b>            | function |
| F MetapostSnippetSpecial       | <b>pdfstartrotation</b>             | function |
| F MetapostSnippetString        | <b>pdfstartscaling</b>              | function |
| F ParsedXmlSnippetCdata        | <b>pdfstopmatrix</b>                | function |
| F ParsedXmlSnippetComment      | <b>pdfstopmirroring</b>             | function |
| F ParsedXmlSnippetDoctype      | <b>pdfstoprotation</b>              | function |
| F ParsedXmlSnippetElement      | <b>pdfstopscaling</b>               | function |
| F ParsedXmlSnippetInstruction  | <b>percentageof</b>                 | function |
| F TexSnippetBoundary           | <b>pgfxcolorspec</b>                | function |
| F TexSnippetComment            | <b>placeparallel</b>                | function |
| F TexSnippetGroup              | <b>popfloat</b>                     | function |
| F TexSnippetName               | <b>popitaliccorrection</b>          | function |
| F TexSnippetSpecial            | <b>poplist</b>                      | function |
| F XmlSnippetBoundary           | <b>popreferenceprefix</b>           | function |
| F XmlSnippetCdata              | <b>popregime</b>                    | function |
| F XmlSnippetComment            | <b>popsectionblock</b>              | function |
| F XmlSnippetEntity             | <b>pos</b>                          | function |
| F XmlSnippetEqual              | <b>posplus</b>                      | function |
| F XmlSnippetKey                | <b>posstrut</b>                     | function |
| F XmlSnippetName               | <b>postponenotes</b>                | function |
| F XmlSnippetString             | <b>poswhd</b>                       | function |
| F ctxreport                    | <b>posxy</b>                        | function |
| F viafile                      | <b>prefixedconverted</b>            | function |
| F vrule                        | <b>prepareMPvariable</b>            | function |
| F xmlcdataafter                | <b>preparedfile</b>                 | function |
| F xmlcdatabefore               | <b>presetsymbollist</b>             | function |
| F xmlcdataobeyedline           | <b>presettabulate</b>               | function |
| F xmlcdataobeyedspace          | <b>prevcountervalue</b>             | function |

|                                   |          |                                 |          |
|-----------------------------------|----------|---------------------------------|----------|
| <b>processbuffer</b>              | function | <b>registersynonym</b>          | function |
| <b>processcolorcomponents</b>     | function | <b>registertransparency</b>     | function |
| <b>processedfile</b>              | function | <b>registerunit</b>             | function |
| <b>processedfiles</b>             | function | <b>registerusedsynonym</b>      | function |
| <b>processfile</b>                | function | <b>registeruserdata</b>         | function |
| <b>processfilemany</b>            | function | <b>relatemarking</b>            | function |
| <b>processfilenone</b>            | function | <b>remapentity</b>              | function |
| <b>processfileonce</b>            | function | <b>removemissingcharacters</b>  | function |
| <b>processlist</b>                | function | <b>renderingvar</b>             | function |
| <b>processregister</b>            | function | <b>replacemissingcharacters</b> | function |
| <b>processsplit</b>               | function | <b>replacepospxywhd</b>         | function |
| <b>processsynonyms</b>            | function | <b>reportstructure</b>          | function |
| <b>purefontname</b>               | function | <b>resavefloat</b>              | function |
| <b>pushfloat</b>                  | function | <b>resetcharacteralign</b>      | function |
| <b>pushitaliccorrection</b>       | function | <b>resetcounter</b>             | function |
| <b>pushlist</b>                   | function | <b>resetfontfeature</b>         | function |
| <b>pushreferenceprefix</b>        | function | <b>resetfontsolution</b>        | function |
| <b>pushregime</b>                 | function | <b>resetinjector</b>            | function |
| <b>pushsectionblock</b>           | function | <b>resetmarking</b>             | function |
| <b>rawcharacter</b>               | function | <b>resetmathattributes</b>      | function |
| <b>rawcountervalue</b>            | function | <b>resetmathitalics</b>         | function |
| <b>rawdate</b>                    | function | <b>resetnullfont</b>            | function |
| <b>referencepagestate</b>         | function | <b>resetparallel</b>            | function |
| <b>referencerealpage</b>          | function | <b>resetprevdepth</b>           | function |
| <b>registerattachment</b>         | function | <b>resetreference</b>           | function |
| <b>registerbookmark</b>           | function | <b>resetstructureprocessor</b>  | function |
| <b>registerbtxcitevariant</b>     | function | <b>resettimer</b>               | function |
| <b>registerbtxlistvariant</b>     | function | <b>restartcounter</b>           | function |
| <b>registerbuttons</b>            | function | <b>restorecounter</b>           | function |
| <b>registercatcodetable</b>       | function | <b>restorecurrentattributes</b> | function |
| <b>registercolor</b>              | function | <b>restorenote</b>              | function |
| <b>registercolorintent</b>        | function | <b>romannumerals</b>            | function |
| <b>registeredviewerlayer</b>      | function | <b>runbuffer</b>                | function |
| <b>registerhelp</b>               | function | <b>safechar</b>                 | function |
| <b>registeritemgroup</b>          | function | <b>savebuffer</b>               | function |
| <b>registerlanguagefeatures</b>   | function | <b>savecounter</b>              | function |
| <b>registerlinenumbering</b>      | function | <b>savecurrentattributes</b>    | function |
| <b>registermaintextcolor</b>      | function | <b>savedlistnumber</b>          | function |
| <b>registernamespace</b>          | function | <b>savedlistprefixednumber</b>  | function |
| <b>registerpostponedblock</b>     | function | <b>savedlisttitle</b>           | function |
| <b>registerrendering</b>          | function | <b>savefloat</b>                | function |
| <b>registersection</b>            | function | <b>savemargindata</b>           | function |
| <b>registersoundclip</b>          | function | <b>savenote</b>                 | function |
| <b>registerstructureprocessor</b> | function | <b>saveobject</b>               | function |

|                                 |          |                                 |          |
|---------------------------------|----------|---------------------------------|----------|
| <b>savepagedata</b>             | function | <b>setinterfacemessage</b>      | function |
| <b>saveparallel</b>             | function | <b>setinterfacemessages</b>     | function |
| <b>savestructureblock</b>       | function | <b>setinterfacevariable</b>     | function |
| <b>savetaggedtwopassdata</b>    | function | <b>setinternalreference</b>     | function |
| <b>savetwopassdata</b>          | function | <b>setjobcomment</b>            | function |
| <b>savevariable</b>             | function | <b>setlanguageexceptions</b>    | function |
| <b>second</b>                   | function | <b>setlanguagesynonym</b>       | function |
| <b>selectstructureblock</b>     | function | <b>setlayer</b>                 | function |
| <b>setbreakpoints</b>           | function | <b>setmarking</b>               | function |
| <b>setbtxdataset</b>            | function | <b>setmathalphabet</b>          | function |
| <b>setbtxentry</b>              | function | <b>setmathalternate</b>         | function |
| <b>setbtxregister</b>           | function | <b>setmathattribute</b>         | function |
| <b>setbtxspeification</b>       | function | <b>setmathdirection</b>         | function |
| <b>setcharacteralign</b>        | function | <b>setmathitalics</b>           | function |
| <b>setcharactercasing</b>       | function | <b>setmathstyle</b>             | function |
| <b>setcharactercleaning</b>     | function | <b>setnextinternalreference</b> | function |
| <b>setcharactercodes</b>        | function | <b>setnextreferenceorder</b>    | function |
| <b>setcharacterkerning</b>      | function | <b>setnotestate</b>             | function |
| <b>setcharacterspacing</b>      | function | <b>setnotesymbolpage</b>        | function |
| <b>setcharacterstripping</b>    | function | <b>setobject</b>                | function |
| <b>setcloseddocumentaction</b>  | function | <b>setopendocumentaction</b>    | function |
| <b>setclosepageaction</b>       | function | <b>setopenpageaction</b>        | function |
| <b>setcolormodel</b>            | function | <b>setowncounter</b>            | function |
| <b>setcounter</b>               | function | <b>setpagestate</b>             | function |
| <b>setdataset</b>               | function | <b>setpagestaterealpageno</b>   | function |
| <b>setdigitsmanipulation</b>    | function | <b>setpagetransition</b>        | function |
| <b>setdirection</b>             | function | <b>setparbuilder</b>            | function |
| <b>setdocumentenvironments</b>  | function | <b>setpos</b>                   | function |
| <b>setdocumentfilenames</b>     | function | <b>setrandomseed</b>            | function |
| <b>setdocumentmodes</b>         | function | <b>setrealign</b>               | function |
| <b>setdocumentmodules</b>       | function | <b>setrealspaces</b>            | function |
| <b>setelementuserproperties</b> | function | <b>setreferencearguments</b>    | function |
| <b>setfigurelookuporder</b>     | function | <b>setreferenceattribute</b>    | function |
| <b>setfirstline</b>             | function | <b>setreferenceoperation</b>    | function |
| <b>setfontfeature</b>           | function | <b>setregistermethod</b>        | function |
| <b>setfontofid</b>              | function | <b>setreplacements</b>          | function |
| <b>setfontsolution</b>          | function | <b>setsectionblock</b>          | function |
| <b>setformat</b>                | function | <b>setsectionentry</b>          | function |
| <b>setformsmethod</b>           | function | <b>setsectionlevel</b>          | function |
| <b>setinitial</b>               | function | <b>setsectionnumber</b>         | function |
| <b>setinjector</b>              | function | <b>setstructureblockstate</b>   | function |
| <b>setinsertionlocation</b>     | function | <b>settagaspect</b>             | function |
| <b>setinterfaceconstant</b>     | function | <b>settagcombination</b>        | function |
| <b>setinterfaceelement</b>      | function | <b>settagdescription</b>        | function |



|                                   |          |                                  |          |
|-----------------------------------|----------|----------------------------------|----------|
| <b>settagdescriptionsymbol</b>    | function | <b>startcolorset</b>             | function |
| <b>settagfigure</b>               | function | <b>startcomponent</b>            | function |
| <b>settaghighlight</b>            | function | <b>startenvironment</b>          | function |
| <b>settagitemgroup</b>            | function | <b>startfontsolution</b>         | function |
| <b>settaglist</b>                 | function | <b>startparbuilder</b>           | function |
| <b>settagproperty</b>             | function | <b>startproduct</b>              | function |
| <b>settagregister</b>             | function | <b>startproject</b>              | function |
| <b>settagsorting</b>              | function | <b>startregime</b>               | function |
| <b>settagsynonym</b>              | function | <b>startsectionlevel</b>         | function |
| <b>settagtablecell</b>            | function | <b>starttag</b>                  | function |
| <b>settagtabulatecell</b>         | function | <b>starttext</b>                 | function |
| <b>setupbookmarks</b>             | function | <b>startviewerlayer</b>          | function |
| <b>setupcanvas</b>                | function | <b>stopactualtext</b>            | function |
| <b>setupcharacterspacing</b>      | function | <b>stopchemical</b>              | function |
| <b>setupexport</b>                | function | <b>stopcolorset</b>              | function |
| <b>setupfontexpansion</b>         | function | <b>stopcomponent</b>             | function |
| <b>setupfontprotrusion</b>        | function | <b>stopenvironment</b>           | function |
| <b>setupidentity</b>              | function | <b>stopfontsolution</b>          | function |
| <b>setupinsertion</b>             | function | <b>stopparbuilder</b>            | function |
| <b>setupitaliccorrection</b>      | function | <b>stopproduct</b>               | function |
| <b>setuplinenumbering</b>         | function | <b>stopproject</b>               | function |
| <b>setvisual</b>                  | function | <b>stopregime</b>                | function |
| <b>setxmpfile</b>                 | function | <b>stopsectionlevel</b>          | function |
| <b>showassignerror</b>            | function | <b>stoptag</b>                   | function |
| <b>showattributes</b>             | function | <b>stoptext</b>                  | function |
| <b>showbtxdatasetcompleteness</b> | function | <b>stopviewerlayer</b>           | function |
| <b>showbtxdatasetfields</b>       | function | <b>storejavascriptcode</b>       | function |
| <b>showbtxfields</b>              | function | <b>storejavascriptpreamble</b>   | function |
| <b>showcallbacks</b>              | function | <b>storenote</b>                 | function |
| <b>showchardata</b>               | function | <b>storeregister</b>             | function |
| <b>showcounter</b>                | function | <b>strdp</b>                     | function |
| <b>showfontparameters</b>         | function | <b>strhd</b>                     | function |
| <b>showhyphenatedinlist</b>       | function | <b>strht</b>                     | function |
| <b>showinjector</b>               | function | <b>strip</b>                     | function |
| <b>showjustification</b>          | function | <b>structureautocatcodedget</b>  | function |
| <b>showmessage</b>                | function | <b>structurecatcodedget</b>      | function |
| <b>sin</b>                        | function | <b>structuregivencatcodedget</b> | function |
| <b>sind</b>                       | function | <b>structurenumber</b>           | function |
| <b>splitfilename</b>              | function | <b>structuretitle</b>            | function |
| <b>spotcolorname</b>              | function | <b>structureuservariable</b>     | function |
| <b>spotcolorparent</b>            | function | <b>structurevariable</b>         | function |
| <b>spotcolorvalue</b>             | function | <b>strwd</b>                     | function |
| <b>startactualtext</b>            | function | <b>subcountervalues</b>          | function |
| <b>startchemical</b>              | function | <b>synchronizecolormodel</b>     | function |

|                               |          |                                   |          |
|-------------------------------|----------|-----------------------------------|----------|
| <b>synchronizemarking</b>     | function | <b>usesubpath</b>                 | function |
| <b>synonymmeaning</b>         | function | <b>usesymbols</b>                 | function |
| <b>synonymname</b>            | function | <b>usetexfile</b>                 | function |
| <b>systemlog</b>              | function | <b>useurl</b>                     | function |
| <b>taggedmathfunction</b>     | function | <b>usexmlfile</b>                 | function |
| <b>tan</b>                    | function | <b>usezipfile</b>                 | function |
| <b>tand</b>                   | function | <b>utfchar</b>                    | function |
| <b>testcase</b>               | function | <b>utfmathclass</b>               | function |
| <b>textime</b>                | function | <b>utfmathcommand</b>             | function |
| <b>thefirstcharacter</b>      | function | <b>utfmathcommandabove</b>        | function |
| <b>theremainingcharacters</b> | function | <b>utfmathcommandbelow</b>        | function |
| <b>thetexdefinition</b>       | function | <b>utfmathcommandfiller</b>       | function |
| <b>tochar</b>                 | function | <b>utfmathfiller</b>              | function |
| <b>transparencycomponents</b> | function | <b>utfmathstretch</b>             | function |
| <b>triggereffect</b>          | function | <b>vboxlisttohbox</b>             | function |
| <b>triggernegative</b>        | function | <b>verbose</b>                    | function |
| <b>truefilename</b>           | function | <b>visual</b>                     | function |
| <b>typebuffer</b>             | function | <b>vspacing</b>                   | function |
| <b>typefile</b>               | function | <b>vspacingcollapse</b>           | function |
| <b>typestring</b>             | function | <b>vspacingdefine</b>             | function |
| <b>uchexnumber</b>            | function | <b>vspacingsetamount</b>          | function |
| <b>uchexnumbers</b>           | function | <b>vspacingsnap</b>               | function |
| <b>undefinechemical</b>       | function | <b>way</b>                        | function |
| <b>unicodechar</b>            | function | <b>weekday</b>                    | function |
| <b>unit</b>                   | function | <b>weekdayname</b>                | function |
| <b>unloadlanguage</b>         | function | <b>writestatus</b>                | function |
| <b>upper</b>                  | function | <b>x_table_c</b>                  | function |
| <b>useMPLibrary</b>           | function | <b>x_table_cleanup</b>            | function |
| <b>useanyfile</b>             | function | <b>x_table_construct</b>          | function |
| <b>usebtxdataset</b>          | function | <b>x_table_create</b>             | function |
| <b>usecldfilename</b>         | function | <b>x_table_flush</b>              | function |
| <b>usecolors</b>              | function | <b>x_table_init_construct</b>     | function |
| <b>usecomponent</b>           | function | <b>x_table_init_reflow_height</b> | function |
| <b>useenvironment</b>         | function | <b>x_table_init_reflow_width</b>  | function |
| <b>usefile</b>                | function | <b>x_table_next_row</b>           | function |
| <b>usejavascriptpreamble</b>  | function | <b>x_table_r</b>                  | function |
| <b>usejavascriptscripts</b>   | function | <b>x_table_reflow_height</b>      | function |
| <b>uselibrary</b>             | function | <b>x_table_reflow_width</b>       | function |
| <b>useluafile</b>             | function | <b>x_table_set_construct</b>      | function |
| <b>uselua module</b>          | function | <b>x_table_set_reflow_height</b>  | function |
| <b>usemodules</b>             | function | <b>x_table_set_reflow_width</b>   | function |
| <b>usepath</b>                | function | <b>year</b>                       | function |
| <b>useproduct</b>             | function |                                   |          |
| <b>useproject</b>             | function |                                   |          |

## containers (context)

|                   |          |
|-------------------|----------|
| <b>cleannname</b> | function |
| <b>content</b>    | function |
| <b>define</b>     | function |
| <b>is_usable</b>  | function |
| <b>is_valid</b>   | function |
| <b>read</b>       | function |
| <b>usecache</b>   | boolean  |
| <b>write</b>      | function |

## converters (context)

|                           |          |                          |            |
|---------------------------|----------|--------------------------|------------|
| <b>A</b>                  | function | <b>octstringtonumber</b> | function   |
| <b>AK</b>                 | function | <b>ordinal</b>           | function   |
| <b>Alphabetic</b>         | function | <b>r</b>                 | function   |
| <b>Character</b>          | function | <b>rawcharacter</b>      | function   |
| <b>Characters</b>         | function | <b>romannumerals</b>     | function   |
| <b>I</b>                  | function | <b>second</b>            | function   |
| <b>KA</b>                 | function | <b>sequences</b>         | data table |
| <b>KR</b>                 | function | <b>textime</b>           | function   |
| <b>R</b>                  | function | <b>toabjad</b>           | function   |
| <b>RK</b>                 | function | <b>tochinese</b>         | function   |
| <b>Romannumerals</b>      | function | <b>toroman</b>           | function   |
| <b>Word</b>               | function | <b>upper</b>             | function   |
| <b>Words</b>              | function | <b>verbose</b>           | table      |
| <b>a</b>                  | function | D data                   |            |
| <b>abjadnodotnumerals</b> | function | F translate              |            |
| <b>abjadnumerals</b>      | function | <b>weekday</b>           | function   |
| <b>alphabetic</b>         | function | <b>word</b>              | function   |
| <b>character</b>          | function | <b>words</b>             | function   |
| <b>characters</b>         | function | <b>year</b>              | function   |
| <b>chineseallnumerals</b> | function |                          |            |
| <b>chineseapnumerals</b>  | function |                          |            |
| <b>chinesenumerals</b>    | function |                          |            |
| <b>chr</b>                | function |                          |            |
| <b>chrs</b>               | function |                          |            |
| <b>cn</b>                 | function |                          |            |
| <b>cn-a</b>               | function |                          |            |
| <b>cn-c</b>               | function |                          |            |
| <b>convert</b>            | function |                          |            |
| <b>define</b>             | function |                          |            |
| <b>hexstringtonumber</b>  | function |                          |            |
| <b>hour</b>               | function |                          |            |
| <b>i</b>                  | function |                          |            |
| <b>isleapyear</b>         | function |                          |            |
| <b>leapyear</b>           | function |                          |            |
| <b>lower</b>              | function |                          |            |
| <b>maxchrs</b>            | function |                          |            |
| <b>minute</b>             | function |                          |            |
| <b>month</b>              | function |                          |            |
| <b>nofdays</b>            | function |                          |            |
| <b>number</b>             | function |                          |            |
| <b>numbers</b>            | function |                          |            |

## coroutine (basic lua)

|                |          |
|----------------|----------|
| <b>create</b>  | function |
| <b>resume</b>  | function |
| <b>running</b> | function |
| <b>status</b>  | function |
| <b>wrap</b>    | function |
| <b>yield</b>   | function |

## ctxrunner (context)

|                  |            |
|------------------|------------|
| <b>load</b>      | function   |
| <b>prepfiles</b> | data table |
| <b>resolve</b>   | function   |

## debug (basic lua)

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

## dir (context)

|                       |          |
|-----------------------|----------|
| <b>collectpattern</b> | function |
| <b>current</b>        | function |
| <b>expandname</b>     | function |
| <b>found</b>          | function |
| <b>glob</b>           | function |
| <b>globfiles</b>      | function |
| <b>globpattern</b>    | function |
| <b>ls</b>             | function |
| <b>makedirs</b>       | function |
| <b>mkdirs</b>         | function |
| <b>pop</b>            | function |
| <b>push</b>           | function |



## directives (context)

|                 |            |
|-----------------|------------|
| <b>data</b>     | data table |
| <b>default</b>  | function   |
| <b>disable</b>  | function   |
| <b>enable</b>   | function   |
| <b>list</b>     | function   |
| <b>name</b>     | string     |
| <b>register</b> | function   |
| <b>report</b>   | function   |
| <b>show</b>     | function   |
| <b>value</b>    | function   |

# document (context)

|                           |            |
|---------------------------|------------|
| <b>arguments</b>          | data table |
| <b>files</b>              | table      |
| <b>getargument</b>        | function   |
| <b>getfilename</b>        | function   |
| <b>options</b>            | table      |
| T commandline             |            |
| D environments            |            |
| D modes                   |            |
| D modules                 |            |
| T ctxfile                 |            |
| D environments            |            |
| D modes                   |            |
| D modules                 |            |
| <b>setargument</b>        | function   |
| <b>setdefaultargument</b> | function   |
| <b>setfilename</b>        | function   |
| <b>variables</b>          | data table |

## environment (context)

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

## epdf (extra tex)

|                            |          |
|----------------------------|----------|
| <b>Array</b>               | function |
| <b>Attribute</b>           | function |
| <b>AttributeOwner_Type</b> | function |
| <b>Attribute_Type</b>      | function |
| <b>Dict</b>                | function |
| <b>Object</b>              | function |
| <b>PDFRectangle</b>        | function |
| <b>StructElement_Type</b>  | function |
| <b>open</b>                | function |
| <b>type</b>                | function |

## experiments (context)

|                 |            |
|-----------------|------------|
| <b>data</b>     | data table |
| <b>default</b>  | function   |
| <b>disable</b>  | function   |
| <b>enable</b>   | function   |
| <b>list</b>     | function   |
| <b>name</b>     | string     |
| <b>register</b> | function   |
| <b>report</b>   | function   |
| <b>show</b>     | function   |
| <b>value</b>    | function   |

# figures (context)

|                         |            |                         |            |
|-------------------------|------------|-------------------------|------------|
| <b>applyratio</b>       | function   | <b>F totable</b>        |            |
| <b>badname</b>          | function   | <b>F types</b>          |            |
| <b>bases</b>            | data table | <b>F write</b>          |            |
| <b>bitmapimage</b>      | function   | <b>include</b>          | function   |
| <b>boxnumber</b>        | number     | <b>includes</b>         | data table |
| <b>cachepaths</b>       | data table | <b>initialize</b>       | function   |
| <b>check</b>            | function   | <b>loaded</b>           | data table |
| <b>checkers</b>         | data table | <b>localpaths</b>       | data table |
| <b>converters</b>       | data table | <b>magics</b>           | data table |
| <b>current</b>          | function   | <b>mergegoodies</b>     | function   |
| <b>defaultdepth</b>     | number     | <b>nofprocessed</b>     | number     |
| <b>defaultheight</b>    | number     | <b>order</b>            | data table |
| <b>defaultsearch</b>    | boolean    | <b>paths</b>            | data table |
| <b>defaultwidth</b>     | number     | <b>patterns</b>         | data table |
| <b>done</b>             | function   | <b>pop</b>              | function   |
| <b>dummy</b>            | function   | <b>preferquality</b>    | boolean    |
| <b>exists</b>           | data table | <b>programs</b>         | data table |
| <b>exists</b>           | function   | <b>push</b>             | function   |
| <b>formats</b>          | data table | <b>registerpattern</b>  | function   |
| <b>found</b>            | data table | <b>registerresource</b> | function   |
| <b>get</b>              | function   | <b>registersuffix</b>   | function   |
| <b>getrealpage</b>      | function   | <b>resources</b>        | data table |
| <b>guess</b>            | function   | <b>scale</b>            | function   |
| <b>hash</b>             | function   | <b>setlookups</b>       | function   |
| <b>identifiers</b>      | data table | <b>setorder</b>         | function   |
| <b>identify</b>         | function   | <b>setpaths</b>         | function   |
| <b>images</b>           | table      | <b>suffixes</b>         | data table |
| <b>F boxes</b>          |            | <b>used</b>             | data table |
| <b>F check</b>          |            |                         |            |
| <b>F checksize</b>      |            |                         |            |
| <b>F clone</b>          |            |                         |            |
| <b>F copy</b>           |            |                         |            |
| <b>F immediatewrite</b> |            |                         |            |
| <b>F keys</b>           |            |                         |            |
| <b>F new</b>            |            |                         |            |
| <b>F node</b>           |            |                         |            |
| <b>F ofindex</b>        |            |                         |            |
| <b>F package</b>        |            |                         |            |
| <b>F print</b>          |            |                         |            |
| <b>F scan</b>           |            |                         |            |
| <b>F serialize</b>      |            |                         |            |

## file (basic lua)

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

## floats (context)

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| <b>analysemethod</b>    | function |
| <b>checkedpagefloat</b> | function |
| <b>collect</b>          | function |
| <b>consult</b>          | function |
| <b>flush</b>            | function |
| <b>getvariable</b>      | function |
| <b>nofstacked</b>       | function |
| <b>pop</b>              | function |
| <b>push</b>             | function |
| <b>resave</b>           | function |
| <b>save</b>             | function |
| <b>stacked</b>          | function |



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| <b>current</b>  | function            |
| <b>define</b>   | function            |
| <b>each</b>     | function            |
| <b>fonts</b>    | table               |
| <b>frozen</b>   | function            |
| <b>getfont</b>  | overloaded function |
| <b>id</b>       | function            |
| <b>max</b>      | function            |
| <b>nextid</b>   | function            |
| <b>read_tfm</b> | function            |
| <b>read_vf</b>  | function            |
| <b>setfont</b>  | function            |

## fontloader (extra tex)

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

# fonts (context)

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| N fina             |       | <b>constructors</b>       | table     |
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| N init             |       | F aftercopyingcharacters  |           |
| N isol             |       | F applymanipulators       |           |
| N medi             |       | F assignmathparameters    |           |
| N pref             |       | B autocleanup             |           |
| N pstf             |       | F beforecopyingcharacters |           |
| N rphf             |       | D cache                   |           |
| D initializers     |       | B cacheintex              |           |
| D methods          |       | F calculatescale          |           |
| F setstate         |       | F checkedfeatures         |           |
| T states           |       | F checkedfilename         |           |
| N blwf             |       | F checkvirtualids         |           |
| N fina             |       | F cleanupable             |           |
| N half             |       | F collectprocessors       |           |
| N init             |       | D designsizes             |           |
| N isol             |       | D dontembed               |           |
| N mark             |       | F enhanceparameters       |           |
| N medi             |       | N factor                  |           |
| N pref             |       | F finalize                |           |
| N pstf             |       | F getfeatureaction        |           |
| N rest             |       | F hashfeatures            |           |
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| F missing          |       | F initializefeatures      |           |
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| S ex                     | B resolvevirtualtoo   |          |
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| S extraspace             | F scaled              |          |
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- N Kacyrillic
- N Kcedilla
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- N Kjecyrillic
- N Lcedilla
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- N Ncedilla
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- N Softsigncyrillic
- N Tcedilla
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- N Ushortcyrillic
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- N Yicyrillic

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| N alef                      | N dbllowline             |
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| N compass                   | N finalkafqamatshebrew   |
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| N dalethatafpatahhebrew     | N finaltsadi             |
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| N dalethatafsegolhebrew     | N forall                 |
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| N hamzafathaarabic         | N ilde                           |
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| N hamzalowarabic           | N integraltop                    |
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T unicode  
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N mess  
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T unicode  
T f\_i

N mess  
 S name  
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 T f\_j  
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 T unicode  
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 T unicode  
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 S name  
 T unicode  
 T ff  
 N mess  
 S name  
 T unicode  
 T ffi  
 N mess  
 S name  
 T unicode  
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- F registercontext
- F showcontext
- 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)

|               |          |
|---------------|----------|
| <b>close</b>  | function |
| <b>lines</b>  | function |
| <b>load</b>   | function |
| <b>open</b>   | function |
| <b>save</b>   | function |
| <b>suffix</b> | function |



## img (basic tex)

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

# interactions (context)

**attachments** data table

**fields** table

F clone

F define

F defineset

F insert

**general** table

F getidentity

F setupidentity

**help** table

F collect

F reference

F register

**javascripts** table

F addtopreamble

F code

D codes

F flushpreambles

D functions

D preambles

F setpreamble

F storecode

F storepreamble

F usepreamblenow

F usescripts

**linkedlists** data table

**pages** table

F setpagetransition

F setupcanvas

**references** table

F setcloseddocument

F setclosepage

F setopendocument

F setopenpage

**renderings** data table

**soundclips** data table

# interfaces (context)

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

## io (basic lua)

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

# jit (context)

|               |          |
|---------------|----------|
| <b>arch</b>   | string   |
| <b>attach</b> | function |
| <b>flush</b>  | function |
| <b>off</b>    | function |
| <b>on</b>     | function |
| <b>opt</b>    | table    |
| F start       |          |
| <b>os</b>     | string   |
| <b>status</b> | function |
| <b>util</b>   | table    |

|                 |
|-----------------|
| F funcbc        |
| F funcinfo      |
| F funcck        |
| F funcuvname    |
| F ircalladdr    |
| F traceexitstub |
| F traceinfo     |
| F traceir       |
| F tracek        |
| F tracemc       |
| F tracesnap     |

|                    |        |
|--------------------|--------|
| <b>version</b>     | string |
| <b>version_num</b> | 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)

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



# languages (context)

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

# layouts (context)

**status** table

F isleftpage

F leftorrightpagection

## lfs (extra lua)

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

## libraries (context)

|                  |            |
|------------------|------------|
| <b>basiclua</b>  | data table |
| <b>basictex</b>  | data table |
| <b>builtin</b>   | data table |
| <b>extralua</b>  | data table |
| <b>extratex</b>  | data table |
| <b>functions</b> | data table |
| <b>globals</b>   | data table |

# lmx (context)

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

F a

F td

F th

**include** function  
**inherited** table

S color-background-four

S color-background-one

S color-background-three

S color-background-two

S title

**initialize** function  
**inject** function  
**lmxfile** function  
**loadedfile** function  
**new** function  
**overloaderror** function  
**popupfile** function  
**print** function  
**pv** function  
**report** function  
**reset** function  
**result** function  
**set** function  
**show** function  
**showdebuginfo** function  
**showerror** function  
**stripcss** function

**tv** function  
**type** function  
**urlescape** function  
**variable** function  
**variables** table

S color-background-blue

S color-background-body

S color-background-green

S color-background-main

S color-background-purple

S color-background-yellow

S title-default

# logs (context)

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

|                          |          |
|--------------------------|----------|
| <b>simplelines</b>       | function |
| <b>start_page_number</b> | function |
| <b>status</b>            | function |
| <b>stop_page_number</b>  | function |
| <b>subdirect</b>         | function |
| <b>subreport</b>         | function |
| <b>system</b>            | function |
| <b>texerrormessage</b>   | function |
| <b>writer</b>            | function |

# lpdf (context)

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

|                           |          |
|---------------------------|----------|
| <b>stream</b>             | function |
| <b>string</b>             | function |
| <b>timestamp</b>          | function |
| <b>toeight</b>            | function |
| <b>topdfdoc</b>           | function |
| <b>tosixteen</b>          | function |
| <b>transform</b>          | function |
| <b>transparency</b>       | function |
| <b>transparencycode</b>   | function |
| <b>transparencygroups</b> | table    |
| B none                    |          |
| <b>transparencyvalue</b>  | function |
| <b>unicode</b>            | function |
| <b>verbose</b>            | function |



## lpeg (basic lua)

|                        |            |                              |          |
|------------------------|------------|------------------------------|----------|
| <b>B</b>               | function   | <b>setmaxstack</b>           | function |
| <b>C</b>               | function   | <b>split</b>                 | function |
| <b>Carg</b>            | function   | <b>splitat</b>               | function |
| <b>Cb</b>              | function   | <b>splitter</b>              | function |
| <b>Cc</b>              | function   | <b>stripper</b>              | function |
| <b>Cf</b>              | function   | <b>times</b>                 | function |
| <b>Cg</b>              | function   | <b>tsplitat</b>              | function |
| <b>Cmt</b>             | function   | <b>tsplitter</b>             | function |
| <b>Cp</b>              | function   | <b>type</b>                  | function |
| <b>Cs</b>              | function   | <b>utfchartabletopattern</b> | function |
| <b>Ct</b>              | function   | <b>version</b>               | function |
| <b>P</b>               | function   |                              |          |
| <b>R</b>               | function   |                              |          |
| <b>S</b>               | function   |                              |          |
| <b>UP</b>              | function   |                              |          |
| <b>UR</b>              | function   |                              |          |
| <b>US</b>              | function   |                              |          |
| <b>V</b>               | function   |                              |          |
| <b>afterprefix</b>     | function   |                              |          |
| <b>anywhere</b>        | function   |                              |          |
| <b>append</b>          | function   |                              |          |
| <b>balancer</b>        | function   |                              |          |
| <b>beforesuffix</b>    | function   |                              |          |
| <b>checkedsplit</b>    | function   |                              |          |
| <b>counter</b>         | function   |                              |          |
| <b>endstripper</b>     | function   |                              |          |
| <b>finder</b>          | function   |                              |          |
| <b>firstofsplit</b>    | function   |                              |          |
| <b>frontstripper</b>   | function   |                              |          |
| <b>instringchecker</b> | function   |                              |          |
| <b>is_lpeg</b>         | function   |                              |          |
| <b>keeper</b>          | function   |                              |          |
| <b>locale</b>          | function   |                              |          |
| <b>match</b>           | function   |                              |          |
| <b>oneof</b>           | function   |                              |          |
| <b>patterns</b>        | data table |                              |          |
| <b>pcode</b>           | function   |                              |          |
| <b>print</b>           | function   |                              |          |
| <b>ptree</b>           | function   |                              |          |
| <b>replacer</b>        | function   |                              |          |
| <b>secondofsplit</b>   | 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)

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

# luatex (context)

|                             |          |
|-----------------------------|----------|
| <b>cleanuptempfiles</b>     | function |
| <b>registerstartactions</b> | function |
| <b>registerstopactions</b>  | function |
| <b>registertempfile</b>     | function |
| <b>starttime</b>            | number   |

# lxml (context)

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

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

## math (basic lua)

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

# mathematics (context)

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



## mbox (context)

|                      |          |
|----------------------|----------|
| <b>parse</b>         | function |
| <b>parse_from</b>    | function |
| <b>parse_header</b>  | function |
| <b>parse_headers</b> | function |
| <b>parse_message</b> | function |
| <b>split_headers</b> | function |
| <b>split_mbox</b>    | function |
| <b>split_message</b> | function |

## md5 (extra lua)

|                |          |
|----------------|----------|
| HEX            | function |
| <b>crypt</b>   | function |
| <b>dec</b>     | function |
| <b>decrypt</b> | function |
| <b>exor</b>    | function |
| <b>hex</b>     | function |
| <b>sum</b>     | function |
| <b>sumhexa</b> | function |

# metapost (context)

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

|                      |          |
|----------------------|----------|
| <b>setoutercolor</b> | function |
| <b>settext</b>       | function |
| <b>showlog</b>       | boolean  |
| <b>svformat</b>      | function |
| <b>tex</b>           | table    |
| F get                |          |
| F reset              |          |
| F set                |          |
| <b>texerrors</b>     | boolean  |
| <b>textextsdata</b>  | function |
| <b>theclippath</b>   | function |
| <b>totable</b>       | function |
| <b>unload</b>        | function |
| <b>untagvariable</b> | function |
| <b>variables</b>     | 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)

|                        |          |
|------------------------|----------|
| <code>_f_</code>       | function |
| <code>boolean</code>   | function |
| <code>format</code>    | function |
| <code>number</code>    | function |
| <code>numeric</code>   | function |
| <code>pair</code>      | function |
| <code>print</code>     | function |
| <code>quadruple</code> | function |
| <code>quoted</code>    | function |
| <code>string</code>    | function |
| <code>triplet</code>   | function |

## mplib (extra tex)

|                     |          |
|---------------------|----------|
| <b>fields</b>       | function |
| <b>finders</b>      | table    |
| F file              |          |
| <b>get_boolean</b>  | function |
| <b>get_number</b>   | function |
| <b>get_numeric</b>  | function |
| <b>get_string</b>   | function |
| <b>new</b>          | function |
| <b>pen_info</b>     | function |
| <b>preprocessed</b> | function |
| <b>version</b>      | 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)

|                          |          |                               |          |
|--------------------------|----------|-------------------------------|----------|
| <b>copy</b>              | function | F protect_glyphs              |          |
| <b>copy_list</b>         | function | F protrusion_skippable        |          |
| <b>count</b>             | function | F remove                      |          |
| <b>current_attr</b>      | function | F set_attribute               |          |
| <b>dimensions</b>        | function | F set_properties_mode         |          |
| <b>direct</b>            | 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                |          | <b>do_ligature_n</b>          | function |
| F getfield               |          | <b>end_of_math</b>            | function |
| F getfont                |          | <b>family_font</b>            | function |
| F getid                  |          | <b>fields</b>                 | function |
| F getleader              |          | <b>first_character</b>        | function |
| F getlist                |          | <b>first_glyph</b>            | function |
| F getnext                |          | <b>flush_list</b>             | function |
| F getprev                |          | <b>flush_node</b>             | function |
| F getproperty            |          | <b>flush_properties_table</b> | function |
| F getsubtype             |          | <b>free</b>                   | function |
| F has_attribute          |          | <b>get_properties_table</b>   | function |
| F has_field              |          | <b>getchar</b>                | function |
| F has_glyph              |          | <b>getfield</b>               | function |
| F hpack                  |          | <b>getfont</b>                | function |
| F insert_after           |          | <b>getid</b>                  | function |
| F insert_before          |          | <b>getleader</b>              | function |
| F is_direct              |          | <b>getlist</b>                | function |
| F is_node                |          | <b>getnext</b>                | function |
| F last_node              |          | <b>getprev</b>                | function |
| F length                 |          | <b>getproperty</b>            | function |
| F new                    |          | <b>getsubtype</b>             | function |

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

## nodes (context)

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

|                                |            |                       |            |
|--------------------------------|------------|-----------------------|------------|
| <b>injections</b>              | table      | <b>load</b>           | function   |
| F getligaindex                 |            | <b>locate</b>         | function   |
| F handler                      |            | <b>margincodes</b>    | data table |
| F installnewkern               |            | <b>markers</b>        | table      |
| F reset                        |            | F get                 |            |
| F setcursive                   |            | <b>mathcodes</b>      | data table |
| F setkern                      |            | <b>maxboxwidth</b>    | function   |
| F setligaindex                 |            | <b>mlist_to_hlist</b> | function   |
| F setmark                      |            | <b>new</b>            | function   |
| F setpair                      |            | <b>noadcodes</b>      | data table |
| <b>insert_after</b>            | function   | <b>nodecodes</b>      | data table |
| <b>insert_before</b>           | function   | <b>nopts</b>          | function   |
| <b>insert_list_after</b>       | function   | <b>nuts</b>           | table      |
| <b>installattributehandler</b> | function   | F append              |            |
| <b>is_direct</b>               | function   | F concat              |            |
| <b>is_display_math</b>         | function   | F copy                |            |
| <b>is_mirrored</b>             | data table | F copy_list           |            |
| <b>is_node</b>                 | function   | F count               |            |
| <b>is_nut</b>                  | function   | F current_attr        |            |
| <b>is_rotated</b>              | data table | F delete              |            |
| <b>kerncodes</b>               | data table | F dimensions          |            |
| <b>kerining</b>                | function   | F do_ligature_n       |            |
| <b>keys</b>                    | table      | F end_of_math         |            |
| T whatsit                      |            | F fasthpack           |            |
| <b>last_node</b>               | function   | F first_glyph         |            |
| <b>leftmarginwidth</b>         | function   | F firstcharacter      |            |
| <b>ligaturing</b>              | function   | F firstcharinbox      |            |
| <b>lines</b>                   | 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               |            |
| <b>link</b>                    | function   | F getleader           |            |
| <b>linked</b>                  | function   | F getlist             |            |
| <b>list</b>                    | function   | F getnext             |            |
| <b>listablefields</b>          | data table | F getprev             |            |
| <b>listcodes</b>               | data table | F getprop             |            |
| <b>listtoutf</b>               | 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 setattrtribute       |
| F leftskip          | F setattrtributes      |
| 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               |            | <b>points</b>           | function |
| F tostring                 |            | <b>pool</b>             | 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                    |            | <b>prepend</b>          | function |
| <b>packlist</b>            | function   | <b>print</b>            | function |
| <b>pardir_is_equal</b>     | data table | <b>processors</b>       | table    |
| <b>pardir_is_opposite</b>  | data table | B enabled               |          |
| <b>pardir_is_parallel</b>  | data table | F hpack_filter          |          |
| <b>partextdir_is_equal</b> | data table | F post_linebreak_filter |          |
| <b>penaltycodes</b>        | data table | F pre_linebreak_filter  |          |
| <b>plugindata</b>          | table      | F tracer                |          |
| F finalizer                |            | <b>processwords</b>     | function |
| F initializer              |            | <b>properties</b>       | 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               |            |
| <b>protect_glyphs</b>       | function   | F resetsamples             |            |
| <b>protrusion_skippable</b> | function   | F takesample               |            |
| <b>pts</b>                  | function   | <b>somepenalty</b>         | function   |
| <b>reference</b>            | function   | <b>somespace</b>           | function   |
| <b>references</b>           | table      | <b>stripping</b>           | table      |
| N attribute                 |            | T glyphs                   |            |
| T done                      |            | F set                      |            |
| F handler                   |            | <b>strirange</b>           | function   |
| T stack                     |            | <b>tail</b>                | function   |
| <b>remove</b>               | function   | <b>takebox</b>             | function   |
| <b>repackhlist</b>          | function   | <b>tasks</b>               | table      |
| <b>replace</b>              | function   | F actions                  |            |
| <b>report</b>               | function   | F appendaction             |            |
| <b>rightmarginwidth</b>     | function   | F disableaction            |            |
| <b>rules</b>                | table      | F disablegroup             |            |
| D data                      |            | F enableaction             |            |
| F define                    |            | F enablegroup              |            |
| F enable                    |            | F freeze                   |            |
| F handler                   |            | F freezegroup              |            |
| <b>save</b>                 | function   | F new                      |            |
| <b>serialize</b>            | function   | F prependaction            |            |
| <b>serializebox</b>         | function   | F removeaction             |            |
| <b>set_attribute</b>        | function   | F replaceaction            |            |
| <b>setattr</b>              | function   | F restart                  |            |
| <b>setattribute</b>         | function   | F setaction                |            |
| <b>setattributes</b>        | function   | F showactions              |            |
| <b>setbox</b>               | function   | F table                    |            |
| <b>setfield</b>             | function   | <b>texmdir_is_equal</b>    | data table |
| <b>setunsetattributes</b>   | function   | <b>texmdir_is_is</b>       | data table |
| <b>shifts</b>               | table      | <b>texmdir_is_opposite</b> | data table |
| D data                      |            | <b>texmdir_is_parallel</b> | data table |
| F define                    |            | <b>tobasepoints</b>        | function   |
| F enable                    |            | <b>tocentimeters</b>       | function   |
| F handler                   |            | <b>tociceros</b>           | function   |
| <b>show</b>                 | function   | <b>todidots</b>            | function   |
| <b>showboxes</b>            | function   | <b>todimen</b>             | function   |
| <b>showcodes</b>            | function   | <b>toinches</b>            | function   |
| <b>showlist</b>             | function   | <b>tomillimeters</b>       | function   |
| <b>showsimplelist</b>       | function   | <b>tonewciceros</b>        | function   |
| <b>skipcodes</b>            | data table | <b>tonewdidots</b>         | function   |
| <b>slide</b>                | function   | <b>tonode</b>              | function   |
| <b>snapshots</b>            | table      | <b>tonodes</b>             | function   |
| F getparameters             |            | <b>tonut</b>               | function   |

|                       |          |                         |            |
|-----------------------|----------|-------------------------|------------|
| <b>topics</b>         | function | F stop                  |            |
| <b>topoints</b>       | function | F stop                  |            |
| <b>toscaledpoints</b> | function | T transparencies        |            |
| <b>tosequence</b>     | function | F reset                 |            |
| <b>tostring</b>       | function | F set                   |            |
| <b>totable</b>        | function | F setlist               |            |
| <b>totree</b>         | function | <b>traverse</b>         | function   |
| <b>toutf</b>          | function | <b>traverse_id</b>      | function   |
| <b>tracers</b>        | table    | <b>typesetters</b>      | table      |
| T characters          |          | F hpack                 |            |
| F collect             |          | F tohpack               |            |
| F equal               |          | F tohpackfast           |            |
| F start               |          | F tonodes               |            |
| F string              |          | F tovpack               |            |
| F unicodes            |          | F tovpackfast           |            |
| T colors              |          | F vpack                 |            |
| F reset               |          | <b>unprotect_glyphs</b> | function   |
| F set                 |          | <b>unset_attribute</b>  | function   |
| F setlist             |          | <b>unsetattribute</b>   | function   |
| F fontchar            |          | <b>unsetattributes</b>  | function   |
| T frequencies         |          | <b>usedlist</b>         | function   |
| F register            |          | <b>vianodes</b>         | function   |
| T pool                |          | <b>vianuts</b>          | function   |
| T nodes               |          | <b>visualizebox</b>     | function   |
| F rule                |          | <b>visualizers</b>      | 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               |          | <b>vpack</b>            | function   |
| T steppers            |          | <b>whatcodes</b>        | data table |
| F check               |          | <b>whatsitcodes</b>     | data table |
| F codes               |          | <b>writable_spec</b>    | function   |
| F features            |          | <b>write</b>            | function   |
| F font                |          |                         |            |
| F glyphs              |          |                         |            |
| F message             |          |                         |            |
| F messages            |          |                         |            |
| F nofsteps            |          |                         |            |
| F register            |          |                         |            |
| F reset               |          |                         |            |
| F start               |          |                         |            |



## number (context)

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

## os (basic lua)

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

## package (basic lua)

|                      |          |
|----------------------|----------|
| <b>config</b>        | string   |
| <b>cpath</b>         | string   |
| <b>extralibpath</b>  | function |
| <b>extralibpaths</b> | function |
| <b>extralupath</b>   | function |
| <b>extralupaths</b>  | function |
| <b>helpers</b>       | table    |
| <b>libpaths</b>      | function |
| <b>loaded</b>        | table    |
| <b>loaders</b>       | table    |
| <b>loadlib</b>       | function |
| <b>luapaths</b>      | function |
| <b>path</b>          | string   |
| <b>preload</b>       | table    |
| <b>searchpath</b>    | function |
| <b>seeall</b>        | 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)

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

|                        |            |                      |          |
|------------------------|------------|----------------------|----------|
| <b>addtexentry</b>     | function   | <b>lists</b>         | table    |
| <b>analyze</b>         | function   | F collectentries     |          |
| <b>anywhere</b>        | function   | F fetchentries       |          |
| <b>authors</b>         | table      | F filterall          |          |
| F getauthor            |            | F flushentries       |          |
| F sorted               |            | T methods            |          |
| T sorters              |            | F dataset            |          |
| F author               |            | F force              |          |
| F writer               |            | F global             |          |
| F splitstring          |            | F local              |          |
| <b>citevariants</b>    | table      | F nofregistered      |          |
| F author               |            | F prepareentries     |          |
| F authornum            |            | F register           |          |
| F authoryear           |            | T sorters            |          |
| F authoryears          |            | F author             |          |
| F category             |            | F dataset            |          |
| F default              |            | F default            |          |
| F entry                |            | F reference          |          |
| F index                |            | F short              |          |
| F key                  |            | F uservariable       |          |
| F num                  |            | <b>listvariants</b>  | table    |
| F page                 |            | F bib                |          |
| F serial               |            | F default            |          |
| F short                |            | F num                |          |
| F tag                  |            | F page               |          |
| F type                 |            | F short              |          |
| F year                 |            | F yes                |          |
| <b>collected</b>       | data table | <b>load</b>          | function |
| <b>concatstate</b>     | function   | <b>loadbibdata</b>   | function |
| <b>converttoxml</b>    | function   | <b>loaders</b>       | table    |
| <b>datasets</b>        | table      | F bib                |          |
| <b>endnotes_to_btx</b> | function   | F buffer             |          |
| <b>enhance</b>         | function   | F endnote            |          |
| <b>finder</b>          | function   | F lua                |          |
| <b>getindex</b>        | function   | F refman             |          |
| <b>journals</b>        | table      | F xml                |          |
| F abbreviated          |            | <b>markasupdated</b> | function |
| F add                  |            | <b>new</b>           | function |
| F expanded             |            | <b>parenttag</b>     | function |
| F load                 |            | <b>refman_to_btx</b> | function |
| F save                 |            | <b>resolvedname</b>  | function |

|                         |          |
|-------------------------|----------|
| <b>save</b>             | function |
| <b>search</b>           | function |
| <b>serializeauthor</b>  | function |
| <b>setspecification</b> | function |
| <b>singularorplural</b> | function |
| <b>specifications</b>   | table    |
| <b>statistics</b>       | table    |

N nofbytes

N nofdatasets

N nofdefinitions

N nofshortcuts

|                |       |
|----------------|-------|
| <b>tracers</b> | table |
|----------------|-------|

D citevariants

D listvariants

F showdatasetcompleteness

F showdatasetfields

F showfields

|                    |          |
|--------------------|----------|
| <b>usedentries</b> | function |
|--------------------|----------|

|                |       |
|----------------|-------|
| <b>writers</b> | table |
|----------------|-------|

F author

## regimes (context)

|                   |          |
|-------------------|----------|
| <b>cleanup</b>    | function |
| <b>disable</b>    | function |
| <b>enable</b>     | function |
| <b>fromregime</b> | function |
| <b>pop</b>        | function |
| <b>process</b>    | function |
| <b>push</b>       | function |
| <b>toregime</b>   | function |
| <b>translate</b>  | function |

# resolvers (context)

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

|                      |            |                               |            |
|----------------------|------------|-------------------------------|------------|
| B savelists          |            | prefixes                      | data table |
| D setups             |            | prependhash                   | function   |
| D specification      |            | pushpath                      | function   |
| D variables          |            | registerextrapath             | function   |
| <b>jobpath</b>       | function   | registerfile                  | function   |
| <b>jobs</b>          | 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   |
| <b>joinpath</b>      | function   | resetresolve                  | function   |
| <b>load</b>          | function   | resolve                       | function   |
| <b>loadbinfile</b>   | function   | savers                        | data table |
| <b>loaders</b>       | data table | scandata                      | function   |
| <b>loadlualib</b>    | function   | scanfiles                     | function   |
| <b>loadtexfile</b>   | function   | schemes                       | table      |
| <b>loadtime</b>      | function   | T cleaners                    |            |
| <b>locateformat</b>  | function   | F md5                         |            |
| <b>locators</b>      | data table | F none                        |            |
| <b>luacnfname</b>    | string     | F strip                       |            |
| <b>luacnfspec</b>    | string     | F cleanname                   |            |
| <b>luacnfstate</b>   | string     | F fetchstring                 |            |
| <b>macros</b>        | table      | F fetchtable                  |            |
| F convertfile        |            | F install                     |            |
| F decodecomment      |            | <b>setdynamic</b>             | function   |
| F enablecomment      |            | <b>setenv</b>                 | function   |
| F encodecomment      |            | <b>setinstance</b>            | function   |
| F preprocessed       |            | <b>showpath</b>               | function   |
| F processmk          |            | <b>simplescanfiles</b>        | function   |
| F processmkvi        |            | <b>splitconfigurationpath</b> | function   |
| F version            |            | <b>splitexpansions</b>        | function   |
| <b>maxreadlevel</b>  | number     | <b>splitmethod</b>            | function   |
| <b>methodhandler</b> | function   | <b>splitpath</b>              | function   |
| <b>newinstance</b>   | function   | <b>stackpath</b>              | function   |
| <b>openbinfile</b>   | function   | <b>suffixes</b>               | data table |
| <b>openers</b>       | data table | <b>suffixmap</b>              | data table |
| <b>openfile</b>      | function   | <b>suffixofformat</b>         | function   |
| <b>opentexfile</b>   | function   | <b>texdatablob</b>            | function   |
| <b>ownpath</b>       | string     | <b>toppath</b>                | function   |
| <b>poppath</b>       | function   | <b>unexpandedpath</b>         | function   |

|                                 |            |
|---------------------------------|------------|
| <b>unexpandedpathlist</b>       | function   |
| <b>unresolve</b>                | function   |
| <b>updaterelations</b>          | function   |
| <b>updatescript</b>             | function   |
| <b>usertypes</b>                | data table |
| <b>usezipfile</b>               | function   |
| <b>validatedpath</b>            | function   |
| <b>variable</b>                 | function   |
| <b>variableofformat</b>         | function   |
| <b>variableofformatorsuffix</b> | function   |
| <b>wildcardpattern</b>          | function   |

# scripts (context)

**autofontfeature**    table  
    F disable  
    F enable  
    F handler

**categorytonumber**   data table

**colors**            data table

**decomposehangul**    function

**defaults**           table  
    N inter\_char\_half\_shrink\_factor  
    N inter\_char\_half\_stretch\_factor  
    N inter\_char\_hangul\_penalty  
    N inter\_char\_quarter\_shrink\_factor  
    N inter\_char\_quarter\_stretch\_factor  
    N inter\_char\_shrink\_factor  
    N inter\_char\_stretch\_factor  
    N inter\_word\_stretch\_factor

**handlers**           data table

**hash**                table

**injectors**          data table

**installdataset**     function

**installmethod**      function

**numbertocategory**   data table

**numbertodataset**    data table

**numbertohandler**    data table

**reset**                function

**set**                  function

**splitters**           data table



## set (context)

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

# socket (extra lua)

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

F getaddrinfo  
F gethostname  
F getnameinfo  
F tohostname  
F toip

**ftp** table

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

**gettime** function  
**headers** table

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

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

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

## http table

N PORT  
 N TIMEOUT  
 S USERAGENT  
 F open  
 F request

**newtry** function  
**protect** function  
**select** function  
**sink** function

## sinkt table

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

## skip function

## sleep function

## smtp table

S DOMAIN  
 N PORT  
 S SERVER  
 N TIMEOUT  
 S ZONE  
 F message  
 F open  
 F send

## source function

## sourcet table

F by-length  
 F default  
 F http-chunked  
 F until-closed

## tcp function

## tcp6 function

## tp table

N TIMEOUT  
 F connect

## try function

## udp function

## udp6 function

## url table

F absolute  
 F build  
 F build\_path  
 F escape  
 F parse  
 F parse\_path  
 F unescape

# sorters (context)

**basicsorter**      function

**comparers**        table

    F basic

**constants**        table

    S defaultdigits

    S defaultlanguage

    S defaultmethod

    N digitmaximum

    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)

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

status (basic tex)

**list** function

## storage (context)

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

## streams (context)

|                    |          |
|--------------------|----------|
| <b>collect</b>     | function |
| <b>disable</b>     | function |
| <b>enable</b>      | function |
| <b>flush</b>       | function |
| <b>initialize</b>  | function |
| <b>push</b>        | function |
| <b>start</b>       | function |
| <b>stop</b>        | function |
| <b>synchronize</b> | function |



## string (basic lua)

|                       |          |                      |          |
|-----------------------|----------|----------------------|----------|
| <b>autodouble</b>     | function | <b>tformat</b>       | function |
| <b>autosingle</b>     | function | <b>toHEX</b>         | function |
| <b>booleanstring</b>  | function | <b>toboollean</b>    | function |
| <b>byte</b>           | function | <b>tobytes</b>       | function |
| <b>bytepairs</b>      | function | <b>tocontext</b>     | function |
| <b>bytes</b>          | function | <b>todec</b>         | function |
| <b>char</b>           | function | <b>todimen</b>       | function |
| <b>characterpairs</b> | function | <b>tohex</b>         | function |
| <b>characters</b>     | function | <b>tonodes</b>       | function |
| <b>checkedsplit</b>   | function | <b>topattern</b>     | function |
| <b>collapsespaces</b> | function | <b>totable</b>       | function |
| <b>count</b>          | function | <b>toutf</b>         | function |
| <b>dump</b>           | function | <b>tracedchar</b>    | function |
| <b>escapedpattern</b> | function | <b>tracedchars</b>   | table    |
| <b>explode</b>        | function | <b>unquote</b>       | function |
| <b>find</b>           | function | <b>unquoted</b>      | function |
| <b>format</b>         | function | <b>upper</b>         | function |
| <b>formatter</b>      | function | <b>utfcharacters</b> | function |
| <b>formatters</b>     | function | <b>utfvalues</b>     | function |
| <b>fullstrip</b>      | function | <b>valid</b>         | function |
| <b>gmatch</b>         | function |                      |          |
| <b>gsub</b>           | function |                      |          |
| <b>is_boolean</b>     | function |                      |          |
| <b>is_empty</b>       | function |                      |          |
| <b>itself</b>         | function |                      |          |
| <b>len</b>            | function |                      |          |
| <b>limit</b>          | function |                      |          |
| <b>longtostring</b>   | function |                      |          |
| <b>lower</b>          | function |                      |          |
| <b>match</b>          | function |                      |          |
| <b>nspaces</b>        | table    |                      |          |
| <b>optionalquoted</b> | function |                      |          |
| <b>quote</b>          | function |                      |          |
| <b>quoted</b>         | function |                      |          |
| <b>rep</b>            | function |                      |          |
| <b>reverse</b>        | function |                      |          |
| <b>split</b>          | function |                      |          |
| <b>splitlines</b>     | function |                      |          |
| <b>splitup</b>        | function |                      |          |
| <b>strip</b>          | function |                      |          |
| <b>sub</b>            | function |                      |          |

# structures (context)

|                   |          |                             |
|-------------------|----------|-----------------------------|
| <b>atlocation</b> | function | F previous                  |
| <b>blocks</b>     | table    | F raw                       |
| D collected       |          | F record                    |
| F define          |          | F reset                     |
| F print           |          | F restart                   |
| F save            |          | F restore                   |
| F select          |          | F save                      |
| F setstate        |          | F set                       |
| D states          |          | F setlevel                  |
| D tobesaved       |          | F setoffset                 |
| <b>bookmarks</b>  | table    | F setown                    |
| T extras          |          | F setstate                  |
| F get             |          | F setvalue                  |
| F mergesections   |          | T specials                  |
| F register        |          | F userpage                  |
| F reset           |          | F subs                      |
| F tosections      |          | D tobesaved                 |
| F finalize        |          | F value                     |
| F flatten         |          | <b>currentsectionnumber</b> |
| F installhandler  |          | <b>descriptions</b>         |
| F merge           |          | <b>documents</b>            |
| S method          |          | D data                      |
| F overload        |          | F initialize                |
| F place           |          | F preset                    |
| F register        |          | F reset                     |
| F setup           |          | <b>floats</b>               |
| <b>counters</b>   | table    | <b>formulas</b>             |
| F add             |          | F current                   |
| F analyze         |          | F simplify                  |
| F check           |          | F store                     |
| D collected       |          | <b>helpers</b>              |
| 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                |

## inserts

D data  
F define  
F getdata  
F getlocation  
F getname  
F getnumber  
F setlocation  
F setup  
D stored

## table

## itemgroups

F maxwidth  
F nofitems  
F register

## table

## lists

F addto  
F analyze  
B autoreorder  
D cached  
D collected  
F discard  
F enhance  
T enhancers  
F filter  
F filtercollected  
F formulainumber  
F getresult  
F groupindex  
F hasnumberdata  
F haspagedata  
F hastitledata  
F iscached  
F label  
F location  
F number  
D ordered  
F page  
F popnesting  
F prefix  
F prefixednumber  
F prefixedpage  
F process  
D pushed  
F pushnesting

F realpage  
F reordered  
T result  
D sectionblocks  
F sectionnumber  
F size  
F title  
D tobesaved  
F userdata  
F uservalue

## marks

D data  
F define  
F exists  
F fetch  
F fetchallmarks  
F fetched  
F fetchonemark  
F fetchtwomarks  
F get  
F number  
F relate  
F reset  
F set  
F show  
F synchronize  
F title  
T tracers  
F showtable

## table

## notes

F checkpagechange  
F define  
F doifonsamepageasprevious  
F get  
F getdeltapage  
F getn  
F getnumberpage  
F getstate  
F getsymbolpage  
F hascontent  
F internal  
F internalid  
F listindex  
F ordered

## table

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

- F splitprefix
- F splitreference
- F synchronizepage
- T testrunners
  - F inner
  - F special
  - F special operation
  - F special operation with arguments
- T testspecials
  - F deltapage
  - F i
  - F internal
  - F page
  - F realpage
  - F section
  - F userpage
- D tobereferred
- D tobesaved
- T urls
  - T data
  - F define
  - F get
- D usedinternals
- D usedviews
- F valid
- F whatfrom

## registers

- F analyze
- D collected
- F compare
- F define
- F enhance
- F extend
- F filter
- F filtercollected
- F finalize
- F flush
- F get
- F prepare
- F process
- F setmethod
- F sort
- F store
- D tobesaved

## table

- F unique
- F userdata
- sections**
  - F autodepth
  - F cct
  - D collected
  - F current
  - F currentblock
  - F currentid
  - F currentlevel
  - F currentsectionindex
  - F depthnumber
  - F finddata
  - F findnumber
  - F fullnumber
  - F getcurrentlevel
  - F getlevel
  - F getnumber
  - F internalreference
  - D levelmap
  - D levels
  - F load
  - F matchingtilldepth
  - F numberatdepth
  - F numbers
  - F popblock
  - F prefixedconverted
  - F pushblock
  - F register
  - D registered
  - F reportstructure
  - F save
  - T sectionblockdata
    - T bodypart
      - S bookmark
  - F set
  - F setblock
  - F setchecker
  - F setentry
  - F setlevel
  - F setnumber
  - F structuredata
  - F title
  - D tobesaved

## table

|                 |                    |              |                        |
|-----------------|--------------------|--------------|------------------------|
|                 | F typesetnumber    |              | F setdescription       |
|                 | F userdata         |              | F setdescriptionsymbol |
|                 | B verbose          |              | F setfigure            |
| <b>sets</b>     |                    | <b>table</b> | F sethighlight         |
|                 | F define           |              | F setitemgroup         |
|                 | F get              |              | F setlist              |
|                 | F getall           |              | F setproperty          |
|                 | D setlist          |              | F setregister          |
| <b>specials</b> |                    | <b>table</b> | F setsorting           |
|                 | D collected        |              | F setsynonym           |
|                 | F retrieve         |              | F settablecell         |
|                 | F store            |              | F settabulatecell      |
|                 | D tobesaved        |              | F setuserproperties    |
| <b>synonyms</b> |                    | <b>table</b> | D specifications       |
|                 | F analyzed         |              | F start                |
|                 | D collected        |              | F stop                 |
|                 | F compare          |              | D taglist              |
|                 | F define           |              |                        |
|                 | F filter           |              |                        |
|                 | F finalize         |              |                        |
|                 | F flush            |              |                        |
|                 | F meaning          |              |                        |
|                 | F prepare          |              |                        |
|                 | F process          |              |                        |
|                 | F register         |              |                        |
|                 | F registerused     |              |                        |
|                 | F sort             |              |                        |
|                 | F synonym          |              |                        |
|                 | D tobesaved        |              |                        |
| <b>tags</b>     |                    | <b>table</b> |                        |
|                 | F getid            |              |                        |
|                 | F handler          |              |                        |
|                 | D labels           |              |                        |
|                 | F last             |              |                        |
|                 | F lastinchain      |              |                        |
|                 | F locatedtag       |              |                        |
|                 | T patterns         |              |                        |
|                 | U splitter         |              |                        |
|                 | D properties       |              |                        |
|                 | F registermetadata |              |                        |
|                 | F restart          |              |                        |
|                 | F setaspect        |              |                        |
|                 | F setattributehash |              |                        |
|                 | F setcombination   |              |                        |

## table (basic lua)

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

## tex (basic tex)

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



|                       |            |
|-----------------------|------------|
| <b>setmathcode</b>    | function   |
| <b>setnest</b>        | function   |
| <b>setsfcode</b>      | function   |
| <b>setskip</b>        | function   |
| <b>settoks</b>        | function   |
| <b>setuccode</b>      | function   |
| <b>sfcode</b>         | table      |
| <b>shipout</b>        | function   |
| <b>show_context</b>   | function   |
| <b>skip</b>           | table      |
| <b>sp</b>             | function   |
| <b>sprint</b>         | function   |
| <b>systemmodes</b>    | data table |
| <b>takebox</b>        | function   |
| <b>texcatcodes</b>    | number     |
| <b>toks</b>           | table      |
| <b>tpacatcodes</b>    | number     |
| <b>tpbcatcodes</b>    | number     |
| <b>tprint</b>         | function   |
| <b>trackers</b>       | data table |
| <b>txtcatcodes</b>    | number     |
| <b>type</b>           | function   |
| <b>uccode</b>         | table      |
| <b>uniform_rand</b>   | function   |
| <b>uniformdeviate</b> | function   |
| <b>uprint</b>         | function   |
| <b>vrbcacodes</b>     | number     |
| <b>write</b>          | function   |

## texconfig (basic tex)

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

## texio (basic tex)

`write`      function

`write_nl`   function

## token (basic tex)

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

|                  |          |
|------------------|----------|
| <b>count</b>     | function |
| <b>cs</b>        | function |
| <b>dimen</b>     | function |
| <b>knownlist</b> | function |
| <b>lists</b>     | table    |
| T context        |          |
| T internals      |          |
| T scratch        |          |
| <b>name</b>      | function |
| <b>primitive</b> | function |
| <b>prnterror</b> | function |
| <b>showlines</b> | function |
| <b>strings</b>   | table    |
| S undefined      |          |
| <b>toks</b>      | function |
| <b>type</b>      | function |

## trackers (context)

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

# typesetters (context)

|                       |       |                   |                      |
|-----------------------|-------|-------------------|----------------------|
| <b>alignments</b>     | table |                   | F installhandler     |
|                       |       |                   | F processmath        |
|                       |       |                   | F set                |
| <b>breakpoints</b>    | table |                   | F setcolor           |
|                       |       |                   | F setmath            |
|                       |       |                   | F tomode             |
|                       |       | <b>firstlines</b> | table                |
|                       |       |                   | T actions            |
|                       |       |                   | F default            |
|                       |       |                   | F line               |
|                       |       |                   | F word               |
| <b>cases</b>          | table |                   | F handler            |
|                       |       |                   | F set                |
|                       |       | <b>initials</b>   | table                |
|                       |       |                   | T actions            |
|                       |       |                   | F default            |
| <b>characteralign</b> | table |                   | F handler            |
|                       |       |                   | F set                |
|                       |       | <b>injectors</b>  | table                |
|                       |       |                   | F check              |
|                       |       |                   | T list               |
| <b>characters</b>     | table |                   | F mark               |
|                       |       |                   | F reset              |
|                       |       |                   | F set                |
|                       |       |                   | F show               |
| <b>checkers</b>       | table |                   | <b>italics</b>       |
|                       |       |                   | table                |
|                       |       |                   | F forcevariant       |
|                       |       |                   | F handler            |
|                       |       |                   | F reset              |
| <b>cleaners</b>       | table |                   | F set                |
|                       |       | <b>kerns</b>      | table                |
|                       |       |                   | D factors            |
| <b>digits</b>         | table |                   | F handler            |
|                       |       |                   | F keepligature       |
|                       |       |                   | B keeptogether       |
|                       |       |                   | D mapping            |
|                       |       |                   | F set                |
| <b>directions</b>     | table |                   | <b>manipulators</b>  |
|                       |       |                   | table                |
|                       |       |                   | F apply              |
|                       |       |                   | F applyspecification |
|                       |       |                   | T methods            |



|                        |                            |
|------------------------|----------------------------|
| F Word                 | F initialize_reflow_height |
| F Words                | F initialize_reflow_width  |
| F abbreviatedjournal   | F next_row                 |
| F expandedjournal      | F reflow_height            |
| F lowercase            | F reflow_width             |
| F stripperperiod       | F set_construct            |
| F uppercase            | F set_reflow_height        |
| T patterns             | F set_reflow_width         |
| U list                 |                            |
| U pair                 |                            |
| F splitspecification   |                            |
| <b>margins</b>         | <b>table</b>               |
| F finalhandler         |                            |
| F globalhandler        |                            |
| F ha                   |                            |
| F localhandler         |                            |
| F save                 |                            |
| <b>processors</b>      | <b>table</b>               |
| F apply                |                            |
| F register             |                            |
| F reset                |                            |
| F split                |                            |
| F startapply           |                            |
| F stopapply            |                            |
| F stripped             |                            |
| F tostring             |                            |
| <b>spacings</b>        | <b>table</b>               |
| F define               |                            |
| F handler              |                            |
| D mapping              |                            |
| T numbers              |                            |
| T frenchpunctuation    |                            |
| T characters           |                            |
| S name                 |                            |
| N number               |                            |
| F reset                |                            |
| F set                  |                            |
| F setup                |                            |
| <b>xtables</b>         | <b>table</b>               |
| F cleanup              |                            |
| F construct            |                            |
| F create               |                            |
| F flush                |                            |
| F initialize_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 chrln  
F count  
F dump  
F filetype  
F find  
F format  
F gfind  
F gmatch  
F gsub  
F is\_valid  
F len  
F length  
F lower  
F magic  
F match  
F remapper  
F rep  
F replacer  
F reverse  
F split  
F splitlines  
F sub  
F subtituter  
F tocodes  
F toeight  
F toentities  
F toString  
F totable  
F upper  
F ustring

F utf16\_to\_utf8\_be  
F utf16\_to\_utf8\_be\_t  
F utf16\_to\_utf8\_le  
F utf16\_to\_utf8\_le\_t  
F utf16\_to\_utf8\_t  
F utf32\_to\_utf8\_be  
F utf32\_to\_utf8\_be\_t  
F utf32\_to\_utf8\_le  
F utf32\_to\_utf8\_le\_t  
F utf32\_to\_utf8\_t  
F utf8\_to\_utf16  
F utf8\_to\_utf16\_be  
F utf8\_to\_utf16\_le  
F utf8\_to\_utf8\_t  
F values  
F xstring

## url (context)

|                    |          |
|--------------------|----------|
| <b>addscheme</b>   | function |
| <b>barepath</b>    | function |
| <b>construct</b>   | function |
| <b>escape</b>      | function |
| <b>filename</b>    | function |
| <b>hashed</b>      | function |
| <b>hasscheme</b>   | function |
| <b>query</b>       | function |
| <b>split</b>       | function |
| <b>toquery</b>     | function |
| <b>unescapeget</b> | 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 unittotxml

## report function

## sequencers table

- F appendaction
- F appendgroup
- F compile

|                      |                        |
|----------------------|------------------------|
| F disableaction      | U prune and no empty   |
| F disablegroup       | U retain               |
| F enableaction       | U retain and collapse  |
| F enablegroup        | U retain and no empty  |
| D functions          | F striplines           |
| F localize           | F striplong            |
| F new                | F tabtospace           |
| F nodeprocessor      | T tracers              |
| F prependaction      | <b>tables</b> table    |
| F prependgroup       | F accesstable          |
| F removeaction       | F definedtable         |
| F replaceaction      | F definetable          |
| F setkind            | F encapsulate          |
| F tostring           | F insertaftervalue     |
| <b>setters</b> table | F insertbeforevalue    |
| F disable            | F migratetable         |
| F enable             | F removevalue          |
| F initialize         | F replacevalue         |
| F list               | <b>templates</b> table |
| F new                | F load                 |
| F register           | F replace              |
| F report             | F replacer             |
| F reset              | F resolve              |
| F show               |                        |
| <b>stacker</b> table |                        |
| F new                |                        |
| <b>storage</b> table |                        |
| F allocate           |                        |
| F checked            |                        |
| F mark               |                        |
| F marked             |                        |
| F setinitializer     |                        |
| F sparse             |                        |
| <b>strings</b> table |                        |
| F collapsecrlf       |                        |
| T formatters         |                        |
| F add                |                        |
| F new                |                        |
| F newrepeater        |                        |
| F nice               |                        |
| T striplinepatterns  |                        |
| U collapse           |                        |
| U prune              |                        |
| U prune and collapse |                        |

## vf (context)

|                |          |
|----------------|----------|
| <b>char</b>    | function |
| <b>down</b>    | function |
| <b>fontid</b>  | function |
| <b>image</b>   | function |
| <b>node</b>    | function |
| <b>nop</b>     | function |
| <b>pop</b>     | function |
| <b>push</b>    | function |
| <b>right</b>   | function |
| <b>rule</b>    | function |
| <b>special</b> | function |

## visualizers (context)

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



# xml (context)

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

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

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

## zip (extra lua)

|                        |          |
|------------------------|----------|
| <b>archives</b>        | table    |
| <b>close</b>           | function |
| <b>closearchive</b>    | function |
| <b>open</b>            | function |
| <b>openarchive</b>     | function |
| <b>openfile</b>        | function |
| <b>registeredfiles</b> | table    |
| <b>type</b>            | function |

## zlib (extra lua)

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