

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

ConTEXt MkIV

global (alias: _G)

| | | | |
|---------------------------------|----------|-----------------------------------|----------|
| 1 | table | io | table |
| arg | table | ipairs | function |
| assert | function | job | table |
| attributes | table | lang | table |
| backends | table | languages | table |
| beginpage | function | layouts | table |
| bibtex | table | lfs | table |
| blobs | table | libraries | table |
| boolean | table | lmx | table |
| buffers | table | load | function |
| builders | table | loadfile | function |
| caches | table | loadstring | function |
| callback | table | logs | table |
| callbacks | table | lpdf | table |
| catcodes | table | lpeg | table |
| characters | table | ltn12 | table |
| chemicals | table | lua | table |
| collectgarbage | function | luatex | table |
| commands | table | lxml | table |
| containers | table | math | table |
| context | function | mathematics | table |
| converters | table | md5 | table |
| coroutine | table | metapost | table |
| debug | table | mime | table |
| dimen | function | module | function |
| dir | table | moduledata | table |
| directives | table | modules | table |
| document | table | mplib | table |
| documentdata | table | newline | function |
| dofile | function | newproxy | function |
| endpage | function | next | function |
| environment | table | noads | table |
| epdf | table | node | table |
| error | function | nodes | table |
| experiments | table | number | table |
| figures | table | os | table |
| file | table | outputpagestree | function |
| floats | table | package | table |
| font | table | pairs | function |
| fontloader | table | parametersets | table |
| fonts | table | pcall | function |
| gcinfo | function | pdf | table |
| getfenv | function | physics | table |
| getmetatable | function | print | function |
| getreadfilename | function | profiler | table |
| global | table | protect | function |
| gzip | table | rawequal | function |
| img | table | rawget | function |
| inspect | function | rawset | function |
| interactions | table | regimes | table |
| interfaces | table | report_characters | function |

| | | | |
|---------------------------------|--------------------------|----------------------------------|--------------------------|
| require | function | toboolean | function |
| resolvers | table | tocontext | function |
| scripts | table | token | table |
| select | function | tokens | table |
| set | table | tonumber | function |
| setfenv | function | tostring | function |
| setmetatable | function | trace_characters | boolean |
| short_operators | table | traceback | function |
| short_prefixes | table | tracers | table |
| short_units | table | trackers | table |
| socket | table | type | function |
| sorters | table | typesetters | table |
| statistics | table | unicode | table |
| status | table | unpack | function |
| storage | table | url | table |
| streams | table | utf | table |
| string | table | utilities | table |
| stripmath | function | visualizers | table |
| structures | table | xml | table |
| table | table | xpcall | function |
| tex | table | zip | table |
| texconfig | table | zlib | table |
| texio | 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 hsvtorgb
F hsvtorgb
F iccprofile
F isblack
N main
S model
F mpcolor
F mpoptions
U none
F register
D registered
F registerspotcolor
F rgb
F rgbtocmyk
F rgbtorgb
F rgbtohsv
N selector
F setmodel
F spot

F spotcolorname
F spotcolorparent
F spotcolorvalue
B supported
F transparencycomponents
B triggering
F usecolors
F value
D values
B weightgray

define function

effects table

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

handlers table

list data table

names data table

negatives table

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

numbers data table

ofnode function

private function

states table

F disabletriggering
F enabletriggering
F finalize
F initialize
F process
F selective
F stacked

transparencies table

N attribute
D data
F enable
F forcesupport
F handler
U none
F register
D registered
B supported
B triggering

| | | |
|---------------------|--------|---------------|
| F value | | B hasorder |
| D values | | D listwise |
| unsetvalue | number | F register |
| viewerlayers | table | D registered |
| N attribute | | D scopes |
| D data | | F setfeatures |
| F define | | F start |
| F enable | | F stop |
| F forcesupport | | B supported |
| F handler | | D values |

backends (context)

| | | |
|-------------------------------|----------|-------------------------|
| codeinjections | table | F setxmpfile |
| current | string | F startlayer |
| defaults | table | F stoplayer |
| T codeinjections | | F supportedformats |
| T nodeinjections | | F useviewerlayer |
| T registrations | | F validfield |
| D tables | | F validfieldcategory |
| install | function | F validfieldset |
| nodeinjections | table | S comment |
| nothing | function | T nodeinjections |
| pdf | table | F addtags |
| T codeinjections | | F attachfile |
| F addbookmarks | | F cmykcolor |
| F addtransparencygroup | | F comment |
| F attachmentid | | F destination |
| F clonefield | | F effect |
| F definefield | | F graycolor |
| F definefieldset | | F injectbitmap |
| F defineviewerlayer | | F insertmovie |
| F embedfile | | F insertsound |
| F enabletags | | F insertswf |
| F finalizepage | | F insertu3d |
| F finishreference | | F knockout |
| F getdefaultfieldvalue | | F negative |
| F getfieldcategory | | F overprint |
| F getfieldset | | F positive |
| F getformatoption | | F reference |
| F getoutputfilename | | F rgbcolor |
| F getpreviewfigure | | F spotcolor |
| F insertrenderingwindow | | F startlayer |
| F mergereferences | | F stoplayer |
| F mergeviewerlayers | | F switchlayer |
| F prerollreference | | F transparency |
| F presetsymbol | | F typesetfield |
| F presetsymbollist | | T registrations |
| F processrendering | | F cmykindexcolor |
| F registerdocumentcloseaction | | F cmykspotcolor |
| F registerdocumentopenaction | | F getspotcolorreference |
| F registeredsymbol | | F grayindexcolor |
| F registerpagecloseaction | | F grayspotcolor |
| F registerpageopenaction | | F rgbindexcolor |
| F registersymbol | | F rgbspotcolor |
| F setfieldcalculationset | | F spotcolorname |
| F setfigurealternative | | F transparency |
| F setfigurecolorspace | | T tables |
| F setfiguremask | | T vfspecials |
| F setformat | | T black |
| F setformsmethod | | T blue |
| F setpagetransition | | T green |
| F setupcanvas | | T red |
| F setupidentity | | F startslant |

T stopslant

registrations table

tables table

bibtex (context)

| | | | |
|----------------------------|----------|-------------------------|----------|
| authorref | function | F flush | |
| authors | table | F nofregistered | |
| F concat | | F process | |
| F inverted | | F register | |
| F invertedshort | | F registerplaced | |
| F normal | | F reset | |
| F normalshort | | F resolve | |
| F setsettings | | load | function |
| F short | | new | function |
| authoryearref | function | singularorplural | function |
| authoryearsref | function | statistics | table |
| convert | function | N nofbytes | |
| hacks | table | N nofdefinitions | |
| F add | | N nofshortcuts | |
| F doifalreadyplaced | | toxml | function |
| F filterall | | | |

blobs (context)

| | | | |
|-------------------|----------|--------------|----------|
| append | function | new | function |
| dimensions | function | pack | function |
| dispose | function | write | function |

boolean (context)

`tocontext` `function`
`tonumber` `function`

buffers (context)

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

builders (context)

kernel **table**

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

paragraphs **table**

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

- F enable
- F optimize
- F setup
- F split

- F tag

vspacing **table**

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

cache (context)

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

callback (basic tex)

| | |
|-----------------------|---------------------|
| <code>find</code> | function |
| <code>list</code> | function |
| <code>register</code> | overloaded function |

callbacks (context)

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

catcodes (context)

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

characters (context)

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

chemicals (context)

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

commands (context)

| | | | |
|---------------------------|----------|------------------------------|----------|
| Alphabetic | function | collecthelp | function |
| Character | function | colorcomponents | function |
| Characters | function | consultfloat | function |
| MPd | function | copyfileto | function |
| MPh | function | copyposition | function |
| MPll | function | counttwopassdata | function |
| MPlr | function | currentcomponent | function |
| MPp | function | currentdate | function |
| MPplus | function | currentenvironment | function |
| MPpos | function | currentproduct | function |
| MPrest | function | currentproject | function |
| MPul | function | currentregime | function |
| MPur | function | dayname | function |
| MPw | function | defineattribute | function |
| MPx | function | definebibtexsession | function |
| MPxy | function | defineconversion | function |
| MPy | function | definefield | function |
| Romannumerals | function | definefieldset | function |
| abjadnodotnumerals | function | definefilefallback | function |
| abjadnumerals | function | definefilesynonym | function |
| addff | function | definefont_one | function |
| addfs | function | definefont_two | function |
| addlinklistelement | function | definefontcollection | function |
| addstructurecounter | function | defineintermediatecolor | function |
| allinputpaths | function | definelinkedlist | function |
| alphabetic | function | definemarking | function |
| analysefloatmethod | function | definemultitonecolor | function |
| applytochars | function | defineparallel | function |
| applytowords | function | defineprocesscolor | function |
| assignbuffer | function | definespotcolor | function |
| autofinishstructurelevels | function | definestructureblock | function |
| autonextspace | function | definestructurecounter | function |
| autonextstructurelevel | function | definestructureset | function |
| autosetups | function | definetransparency | function |
| autostarttext | function | definetwopasslist | function |
| autostoptext | function | defineviewerlayer | function |
| boolcase | function | defrostrandomseed | function |
| character | function | digits | function |
| characters | function | disableregime | function |
| checkcharactersinfont | function | doanalyzeframedbox | function |
| checkedconversion | function | doif | function |
| checkedpagefloat | function | doifblackelse | function |
| checktwopassdata | function | doifcommonelse | function |
| chineseallnumerals | function | doifdimenstringelse | function |
| chinesecapnumerals | function | doifdrawingblackelse | function |
| chinesenumerals | function | doifelse | function |
| cleanfontname | function | doifelsebuffer | function |
| clonefield | function | doifelsecurrentfontasfeature | function |
| clonefontcollection_one | function | doifelseintwopassdata | function |
| clonefontcollection_two | function | doifelsemarking | function |
| collectfloat | function | doifelseparallel | function |

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|-----------------------------|----------|-----------------------------|----------|
| doifelsesavedfloat | function | forcequitjob | function |
| doifelsespaces | function | format | function |
| doifelsestructurecounter | function | formatcolor | function |
| doifelsevisualizer | function | formatgray | function |
| doiffielddcategoryelse | function | freezerandomseed | function |
| doiffielddelse | function | getbuffer | function |
| doiffielddsetelse | function | getbufferctxlua | function |
| doiffiledefinedelse | function | getbuffermkvi | function |
| doiffileexistelse | function | getdefaultfieldvalue | function |
| doiffirstcharelse | function | getfieldcategory | function |
| doifinputfileelse | function | getfirstcharacter | function |
| doifinsetelse | function | getfirsttwopassdata | function |
| doifleapyearelse | function | getfloatvariable | function |
| doiflocfileelse | function | getlasttwopassdata | function |
| doifnot | function | getmarking | function |
| doifnotstructurecounter | function | getprivateattribute | function |
| doifolderversionelse | function | getrandomcounta | function |
| doifoverlappingelse | function | getrandomcountb | function |
| doifparentfileelse | function | getrandomseed | function |
| doifpositionelse | function | getreadfilename | function |
| doifpositionsonsamepageelse | function | gettwopassdata | function |
| doifpositionsonthispageelse | function | gettwopassdatalist | function |
| doifstructurecounter | function | grabbuffer | function |
| doifurldefinedelse | function | helpaction | function |
| doprocstypescriptfile | function | helpreference | function |
| doreshapeframedbox | function | hexstringtonumber | function |
| dostarttextfile | function | hour | function |
| dostoptextfile | function | hyphenatedlist | function |
| elapsedtime | function | hyphenatedurl | function |
| enablecolor | function | D characters | |
| enablecolorintents | function | N lefthyphenmin | |
| enablefontcolorschemas | function | D mapping | |
| enableregime | function | N righthyphenmin | |
| enabletransparency | function | F setcharacters | |
| enhancelinkedlist | function | incrementedstructurecounter | function |
| erasebuffer | function | insertattachment | function |
| featureattribute | function | insertcomment | function |
| feedback | function | insertfield | function |
| fetchallmarks | function | insertrenderingwindow | function |
| fetchonemark | function | insertsoundclip | function |
| fetchtwomarks | function | isleapyear | function |
| filterreference | function | languagenumber | function |
| findtwopassdata | function | laststructurecounter | function |
| firstinlist | function | lchexnumber | function |
| firststructurecounter | function | lchexnumbers | function |
| flushfloat | function | leapyear | function |
| flushpostponedblocks | function | loadctxpreplist | function |
| fontchar | function | loadexamodes | function |
| fontcollectionmessage | function | loadfontgoodies | function |
| fontlookupgetkey | function | loadvisualizer | function |
| fontlookupgetkeyofindex | function | locatefilepath | function |
| fontlookupinitialize | function | locfilename | function |
| fontlookupnoffound | function | maxitemwidth | function |
| forceendjob | function | minute | function |

| | | | |
|----------------------------|----------|----------------------------|----------|
| molecule | function | registersoundclip | function |
| month | function | registerstructureprocessor | function |
| monthmnm | function | registertransparency | function |
| monthname | function | relatemarking | function |
| mpcolor | function | removemissingcharacters | function |
| mpoptions | function | replacepospxywhd | function |
| namedstructureuservariable | function | resavefloat | function |
| namedstructurevariable | function | resetfontcollection | function |
| nbfs | function | resetfontfeature | function |
| nextparallel | function | resetmarking | function |
| nextstructurecounter | function | resetmathitalics | function |
| nofdays | function | resetnullfont | function |
| nofitems | function | resetparallel | function |
| nofstackedfloats | function | resetstructurecounter | function |
| number | function | resetstructureprocessor | function |
| octnumber | function | resettimer | function |
| octstringtonumber | function | restartstructurecounter | function |
| ordinal | function | restorecurrentattributes | function |
| overloadbookmark | function | restorestructurecounter | function |
| pdfrotation | function | romannumerals | function |
| percentageof | function | runbuffer | function |
| placeparallel | function | savebuffer | function |
| popfloat | function | savecurrentattributes | function |
| popitaliccorrection | function | savefloat | function |
| prepareMPvariable | function | saveparallel | function |
| preparebibtexsession | function | savestructureblock | function |
| preparedfile | function | savestructurecounter | function |
| preparefontcollection | function | savetaggedtwopassdata | function |
| presetsymbollist | function | savetwopassdata | function |
| presettabulate | function | second | function |
| prevstructurecounter | function | selectstructureblock | function |
| processbuffer | function | setcloseddocumentaction | function |
| processedfile | function | setclosepageaction | function |
| processedfiles | function | setcolormodel | function |
| processfile | function | setfontfeature | function |
| processfilemany | function | setfontofid | function |
| processfilenone | function | setformat | function |
| processfileonce | function | setformsmethod | function |
| pushfloat | function | setmarking | function |
| pushitaliccorrection | function | setmathalphabet | function |
| rawcharacter | function | setmathalternate | function |
| referencepagestate | function | setmathattribute | function |
| referencerealpage | function | setmathitalics | function |
| registerattachment | function | setmathstyle | function |
| registerbibtexentry | function | setopendocumentaction | function |
| registerbibtexfile | function | setopenpageaction | function |
| registerbookmark | function | setownstructurecounter | function |
| registerbuttons | function | setpagetransition | function |
| registercolor | function | setrandomseed | function |
| registercolorintent | function | setrastercolor | function |
| registerhelp | function | setrealign | function |
| registeritemgroup | function | setreferencearguments | function |
| registermaintextcolor | function | setreferenceoperation | function |
| registerpostponedblock | function | setstructureblockstate | function |

| | | | |
|--------------------------|----------|---------------------------|----------|
| setstructurecounter | function | structuregivencatcodedget | function |
| settagcombination | function | structurenumber | function |
| settagdescription | function | structuretitle | function |
| settagdescriptionsymbol | function | structureuservariable | function |
| settagfigure | function | structurevariable | function |
| settaghighlight | function | subff | function |
| settagitemgroup | function | subfs | function |
| settagproperty | function | synchronizemarking | function |
| settagsorting | function | taggedmathfunction | function |
| settagsynonym | function | testcase | function |
| settagtablecell | function | textime | function |
| settagtabulatecell | function | transparencycomponents | function |
| setupbookmarks | function | triggereffect | function |
| setupcanvas | function | triggernegative | function |
| setupexport | function | truefilename | function |
| setupfontexpansion | function | typebuffer | function |
| setupfontprotrusion | function | typefile | function |
| setupidentity | function | typestring | function |
| setupitaliccorrection | function | uchexnumber | function |
| setxmpfile | function | uchexnumbers | function |
| showchardata | function | unicodechar | function |
| showfontparameters | function | unit | function |
| showhyphenatedinlist | function | updatefilenames | function |
| showstructurecounter | function | useMPlibrary | function |
| splitfilename | function | useanyfile | function |
| spotcolorname | function | usecldfile | function |
| spotcolorparent | function | usecolors | function |
| spotcolorvalue | function | usecomponent | function |
| startcomponent | function | useenvironment | function |
| startenvironment | function | uselibrary | function |
| startproduct | function | useluafile | function |
| startproject | function | usemodules | function |
| startregime | function | usepath | function |
| starttag | function | useproduct | function |
| starttext | function | useproject | function |
| stopcomponent | function | usesubpath | function |
| stopenvironment | function | usesymbols | function |
| stopproduct | function | usetexfile | function |
| stopproject | function | usexmlfile | function |
| stopregime | function | usezipfile | function |
| stoptag | function | utfchar | function |
| stoptext | function | weekday | function |
| structureautocatcodedget | function | weekdayname | function |
| structurecatcodedget | function | widthofstring | function |
| structurecountersubs | function | writestatus | function |
| structurecountervalue | function | year | function |

containers (context)

| | |
|------------------------|----------|
| <code>cleanname</code> | function |
| <code>content</code> | function |
| <code>define</code> | function |
| <code>is_usable</code> | function |

| | |
|-----------------------|----------|
| <code>is_valid</code> | function |
| <code>read</code> | function |
| <code>usecache</code> | boolean |
| <code>write</code> | function |

converters (context)

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

coroutine (basic lua)

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

debug (basic lua)

| | |
|---------------------|----------|
| debug | function |
| getfenv | function |
| gethook | function |
| getinfo | function |
| getlocal | function |
| getmetatable | function |
| getregistry | function |

| | |
|---------------------|----------|
| getupvalue | function |
| setfenv | function |
| sethook | function |
| setlocal | function |
| setmetatable | function |
| setupvalue | function |
| traceback | function |

dir (context)

| | |
|-----------------------------|----------|
| <code>collectpattern</code> | function |
| <code>current</code> | function |
| <code>expandname</code> | function |
| <code>glob</code> | function |
| <code>globfiles</code> | function |
| <code>globpattern</code> | function |

| | |
|-----------------------|----------|
| <code>ls</code> | function |
| <code>makedirs</code> | function |
| <code>mkdirs</code> | function |
| <code>pop</code> | function |
| <code>push</code> | function |

directives (context)

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

document (context)

| | | | |
|-------------|------------|--------------------|----------|
| arguments | data table | setargument | function |
| files | table | setdefaultargument | function |
| getargument | function | setfilename | function |
| getfilename | function | | |

environment (context)

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

epdf (extra tex)

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

experiments (context)

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

figures (context)

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

file (basic lua)

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

floats (context)

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

font (basic tex)

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

id function
max function
nextid function
read_tfm function
read_vf function
setfont function

fontloader (extra tex)

| | |
|--------------------------------|----------|
| <code>apply_afmfile</code> | function |
| <code>apply_featurefile</code> | function |
| <code>close</code> | function |
| <code>fields</code> | function |
| <code>fullinfo</code> | function |

| | |
|-----------------------|----------|
| <code>info</code> | function |
| <code>open</code> | function |
| <code>to_table</code> | function |
| <code>totable</code> | function |

fonts (context)

analyzers table

 D initializers

 D methods

 F setstate

 B useunicodemarks

checkers table

 F missing

cid table

 F getmap

 F loadfile

collections table

 F clone_one

 F clone_two

 F define

 T definitions

 F message

 F prepare

 F process

 F reset

 T vectors

constructors table

 F applymanipulators

 F assignmathparameters

 B autocleanup

 D cache

 F calculatescale

 F checkedfeatures

 F checkedfilename

 F cleantable

 F collectprocessors

 D designsizes

 D dontembed

 N factor

 F finalize

 F getfeatureaction

 F hashfeatures

 F hashinstance

 T hashmethods

 F normal

 F virtual

 F initializefeatures

 D loadedfonts

 T mathactions

 S namemode

 F newfeatures

 N privateoffset

 F readanddefine

 F registerfeature

 B resolvevirtualtoo

 F scale

 F scaled

 F setfactor

 F setname

 N version

current function

currentid function

definers table

 F addlookup

 F analyze

 F applypostprocessors

 F current

 S defaultlookup

 F define

 F getspecification

 F loadfont

 F makespecification

 T methods

 F install

 D variants

 F read

 F register

 F registered

 F registersplit

 F resetnullfont

 F resolve

 T resolvers

 F file

 F name

 F spec

definetypeface function

encodings table

 T agl

 D cache

 F is_known

 D known

 F load

 F make_unicode_vector

 D math

 N version

expansions data table

formats data table

goodies table

 T colorschemes

 F coloring

 T data

 F enable

 F getcompositions

 T list

 F compositions

 F expansions

 F featureset

 F files

- F mathematics
- F protrusions
- F solutions
- F typefaces
- F load
- F prepare_features
- F register
- F registerpostprocessor
- F report
- handlers** table
 - T afm
 - B addkerns
 - B addligatures
 - B addtexligatures
 - B autoprefixed
 - D cache
 - D features
 - F load
 - F setfeatures
 - B syncspace
 - N version
 - T otf
 - F addfeature
 - D cache
 - T chainhandlers
 - F normal
 - F verbose
 - F collectlookups
 - F dataset
 - D enhancers
 - D features
 - F getalternate
 - T glists
 - F load
 - F scriptandlanguage
 - F setcontextchain
 - F setdynamics
 - F setfeatures
 - T tables
 - D baselines
 - D features
 - D languages
 - D scripts
 - N version
 - T pfb
 - T tfm
 - D features
 - F setfeatures
 - T vf
 - T combinations
 - F combine
 - T combiner
 - D commands
 - F find

- D helpers
- D math
- D predefined
- D whatever
- hashes** table
 - D characters
 - D csnames
 - T dynamics
 - D identifiers
 - D italics
 - D marks
 - D parameters
 - T processes
 - D properties
 - D quads
 - T setdynamics
 - D xheights
- helpers** table
 - F dimenfactor
 - F getdigitwidth
 - F getparameters
 - F nametoslot
 - F setdigitwidth
- iterators** table
 - F characters
 - F descriptions
 - F glyphs
- loggers** table
 - F format
 - F onetimemessage
 - F register
 - F reportdefinedfonts
 - F reportusedfeatures
- mappings** table
 - F addtounicode
 - F fromunicode16
 - F loadfile
 - F loadline
 - F loadlumtable
 - F makenameparser
 - F reset
 - F tounicode16
 - F tounicode16sequence
- names** table
 - S basename
 - B be_clever
 - D cache
 - F cleanfilename
 - F cleanname
 - F collect
 - F collectfiles
 - F collectspec
 - T data
 - B enabled

F exists
 T filters
 F afm
 F dfont
 T list
 T names
 F otf
 T paths
 F pfb
 F ttc
 F ttf
 S fontconfigfile
 F getfilename
 F getlookupkey
 F getlookups
 F getpaths
 F identify
 F is_permitted
 F list
 F load
 B loaded
 F lookup
 F noflookups
 S osfontdirvariable
 F readdata
 F register
 F registered
 F resolve
 F resolvedspecification
 F resolvespec
 B saved
 F specification
 D specifications
 F splitspec

N version
 F writedata
protrusions data table
readers table
 F afm
 F check_lua
 F check_tfm
 F dfont
 F lua
 F opentype
 F otf
 F pfb
 D sequence
 F tfm
 F ttc
 F ttf
specifiers table
 D contextmerged
 F contextnumber
 D contextnumbers
 D contextsetups
 F contexttstring
 F mergecontext
 F presetcontext
 F registercontext
 F showcontext
 F splitcontext
 D synonyms
 D variants
symbols table
 F uselibrary
tables table
tracers table
typefaces data table

gzip (extra lua)

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

img (basic tex)

| | |
|----------------------------|-----------------------|
| <code>boxes</code> | <code>function</code> |
| <code>checksize</code> | <code>function</code> |
| <code>clone</code> | <code>function</code> |
| <code>copy</code> | <code>function</code> |
| <code>immediatwrite</code> | <code>function</code> |
| <code>keys</code> | <code>function</code> |
| <code>new</code> | <code>function</code> |
| <code>node</code> | <code>function</code> |

| | |
|------------------------|-----------------------|
| <code>ofindex</code> | <code>function</code> |
| <code>package</code> | <code>function</code> |
| <code>print</code> | <code>function</code> |
| <code>scan</code> | <code>function</code> |
| <code>serialize</code> | <code>function</code> |
| <code>totable</code> | <code>function</code> |
| <code>types</code> | <code>function</code> |
| <code>write</code> | <code>function</code> |

interactions (context)

attachments table

F insert

F register

fields table

F clone

F define

F defineset

F insert

general table

F getidentity

F setupidentity

help table

F collect

F reference

F register

javascripts table

F addtopreamble

F code

D codes

F flushpreambles

D functions

D preambles

F setpreamble

F storecode

F storepreamble

F usepreamblenow

F usescripts

linkedlists table

pages table

F setpagetransition

F setupcanvas

references table

F setcloseddocument

F setclosepage

F setopendocument

F setopenpage

renderings table

F register

F rendering

F var

soundclips table

F insert

F register

interfaces (context)

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

io (basic lua)

| | | | |
|-----------------|----------|----------------|---------------------|
| ask | function | out | table |
| bytes | function | F inhibit | |
| characters | function | D modes | |
| checkopeners | function | F permit | |
| close | function | output | function |
| exists | function | pathseparator | string |
| fileseparator | string | popen | overloaded function |
| finalizeopeners | function | read | function |
| flush | function | readnumber | function |
| inp | table | readstring | function |
| F inhibit | | registeropener | function |
| D modes | | savedata | function |
| F permit | | size | function |
| input | function | stderr | userdata |
| lines | function | stdin | userdata |
| loaddata | function | stdout | userdata |
| noflines | function | tmpfile | function |
| open | function | type | function |
| open_ro | function | write | function |

job (context)

comment function
files table
 D collected
 F context
 B forcerun
 F run
 D tobesaved
initialize function
load function
loadother function
objects table
 D collected
 F doifelse
 F get
 F number
 F page
 F save
 F set
 D tobesaved
pack boolean
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
 D collected
 F copy
 F depth
 F extra
 F height
 F lowerleft
 F lowerright
 F onsamepage
 F overlapping
 F page
 F position
 F replace
 F setall
 F setdim
 F setraw
 D tobesaved
 F upperleft
 F upperright
 F v
 F width
 F x
 F xy
 F y
register function
save function
structure table
 D collected
 T tobesaved
 T branches
 S name
 S type
variables table
 D checksums
 D collected
 F save
 D tobesaved
version number

lang (basic tex)

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

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

languages (context)

| | | | |
|----------------------|------------|-----------------------|------------|
| associate | function | numbers | data table |
| associated | data table | posthyphenchar | function |
| association | function | prehyphenchar | function |
| counters | data table | registered | data table |
| current | function | righthyphenmin | function |
| data | data table | setdirty | function |
| define | function | synonym | function |
| exceptions | function | version | number |
| getnumber | function | words | table |
| hyphenate | function | | |
| installed | function | F check | |
| labels | table | T data | |
| F define | | F disable | |
| F split | | F enable | |
| lefthyphenmin | function | T enablers | |
| loadable | function | B enables | |
| loadwords | function | F found | |
| logger | table | F load | |
| F report | | T methods | |
| | | N threshold | |

layouts (context)

```
status  table
      F isleftpage
      F leftorrightpagection
```

lfs (extra lua)

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

libraries (context)

`basiclua` data table
`basictex` data table
`builtin` data table

`extralua` data table
`extratex` data table
`globals` data table

lmx (context)

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

logs (context)

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

lpdf (context)

| | | | |
|------------------------|------------|---------------------------|----------|
| action | function | id | function |
| adddocumentcolorspace | function | injectxmpinfo | function |
| adddocumenttextgstate | function | insertxmpinfo | function |
| adddocumentpattern | function | javascript | function |
| adddocumentshade | function | launch | function |
| addtocatalog | function | layerreference | function |
| addtoinfo | function | limited | function |
| addtonames | function | linearshade | function |
| addtopageattributes | function | link | function |
| addtopageresources | function | null | function |
| addtopagesattributes | function | number | function |
| addxmpinfo | function | pagedestination | function |
| array | function | pagereference | function |
| boolean | function | pdfcolor | function |
| checkedkey | function | pdftimestamp | function |
| checkedvalue | function | protectresources | boolean |
| circularshade | function | reference | function |
| cmykcode | function | registerannotation | function |
| collectedresources | function | registerdocumentfinalizer | function |
| color | function | registerpagefinalizer | function |
| colorspace | function | reserveannotation | function |
| colorspec | function | reserveobject | function |
| colorvalue | function | rgbcode | function |
| colorvalues | function | rotationcm | function |
| constant | function | shareobject | function |
| delayedobject | function | shareobjectreference | function |
| dictionary | function | spotcode | function |
| epdf | table | stream | function |
| F load | | string | function |
| finalizeddocument | function | timestamp | function |
| finalizepage | function | toeight | function |
| finishtransparencycode | function | tosixteen | function |
| flushobject | function | transparency | function |
| flushstreamfileobject | function | transparencycode | function |
| flushstreamobject | function | transparencyvalue | function |
| formats | data table | unicode | function |
| graycode | function | verbose | function |

lpeg (basic lua)

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

ltn12 (extra lua)

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

lua (basic tex)

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

luatex (context)

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

lxml (context)

| | |
|------------------------------|---------------------|
| <code>addindex</code> | function |
| <code>all</code> | function |
| <code>applyfunction</code> | function |
| <code>att</code> | function |
| <code>attribute</code> | function |
| <code>chainattribute</code> | function |
| <code>checkindex</code> | function |
| <code>collected</code> | function |
| <code>command</code> | function |
| <code>concat</code> | function |
| <code>concatrange</code> | function |
| <code>content</code> | function |
| <code>context</code> | function |
| <code>convert</code> | function |
| <code>count</code> | function |
| <code>delete</code> | function |
| <code>direct</code> | function |
| <code>directives</code> | table |
| F after | |
| F before | |
| F handle | |
| F load | |
| F setup | |
| <code>displayverbatim</code> | function |
| <code>doif</code> | function |
| <code>doifelse</code> | function |
| <code>doifelsetext</code> | function |
| <code>doifnot</code> | function |
| <code>doifnottext</code> | function |
| <code>doiftext</code> | function |
| <code>element</code> | function |
| <code>elements</code> | function |
| <code>entities</code> | data table |
| <code>filter</code> | function |
| <code>filterlist</code> | function |
| <code>first</code> | function |
| <code>flush</code> | function |
| <code>flushsetups</code> | function |
| <code>get_id</code> | function |
| <code>getid</code> | function |
| <code>getindex</code> | function |
| <code>id</code> | function |
| <code>idsplitter</code> | userdata |
| <code>include</code> | function |
| <code>index</code> | function |
| <code>info</code> | function |
| <code>inlineverbatim</code> | function |
| <code>installsetup</code> | function |
| <code>last</code> | function |

| | |
|-------------------------------|------------|
| <code>load</code> | function |
| <code>loadbuffer</code> | function |
| <code>loaddata</code> | function |
| <code>loaded</code> | table |
| <code>loadregistered</code> | function |
| <code>main</code> | function |
| <code>match</code> | function |
| <code>name</code> | function |
| <code>namespace</code> | function |
| <code>nonspace</code> | function |
| <code>pos</code> | function |
| <code>position</code> | function |
| <code>raw</code> | function |
| <code>rawroot</code> | function |
| <code>register</code> | function |
| <code>registerentity</code> | function |
| <code>removesetup</code> | function |
| <code>resetcdata</code> | function |
| <code>resetsetups</code> | function |
| <code>resolvedentity</code> | function |
| <code>root</code> | function |
| <code>serialize</code> | function |
| <code>setaction</code> | function |
| <code>setcdata</code> | function |
| <code>setcommandtonone</code> | function |
| <code>setcommandtotext</code> | function |
| <code>setsetup</code> | function |
| <code>snippet</code> | function |
| <code>sorters</code> | table |
| F add | |
| F compare | |
| F flush | |
| F reset | |
| F show | |
| F sort | |
| <code>splitid</code> | function |
| <code>startraw</code> | function |
| <code>stopraw</code> | function |
| <code>store</code> | function |
| <code>strip</code> | function |
| <code>stripped</code> | function |
| <code>tag</code> | function |
| <code>text</code> | function |
| <code>tofile</code> | function |
| <code>toparameters</code> | function |
| <code>toverbatim</code> | function |
| <code>verbatim</code> | function |
| <code>withindex</code> | function |
| <code>xmltexhandler</code> | data table |

math (basic lua)

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

mathematics (context)

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

md5 (extra lua)

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

metapost (context)

| | | | |
|---------------------------|----------|-----------------------|----------|
| analyzeplugins | function | makempy | table |
| checkformat | function | N nofconverted | |
| checktexts | function | F processgraphics | |
| colorinitializer | function | metafun | table |
| convert | function | F interpolate | |
| defaultformat | string | F topath | |
| directrun | function | method | number |
| edefsxsy | function | mptopdf | table |
| escaped | function | F convertmpstopdf | |
| exectime | table | N nofconverted | |
| filterclippath | function | multipass | boolean |
| finder | function | n | number |
| flush | function | optimize | boolean |
| flushers | table | parse | function |
| T pdf | | pdfliterals | function |
| F comment | | pluginactions | function |
| F flushfigure | | process | function |
| F startfigure | | processplugins | function |
| F stopfigure | | reducetogray | boolean |
| F textfigure | | reporterror | function |
| flushliteral | function | reset | function |
| flushnormalpath | function | resetlastlog | function |
| flushreset | function | resetplugins | function |
| format | function | resettexttexts | function |
| formatnumber | function | setoutercolor | function |
| getclippath | function | settext | function |
| gettext | function | showlog | boolean |
| graphic | function | tex | table |
| graphic_base_pass | function | F get | |
| graphic_extra_pass | function | F reset | |
| intermediate | table | F set | |
| T actions | | texerrors | boolean |
| F makempy | | texttextsdata | function |
| B needed | | theclippath | function |
| lastlog | string | totable | function |
| load | function | unload | function |

mime (extra lua)

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

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

mplib (extra tex)

| | | | |
|---------------|----------|-----------------|----------|
| fields | function | pen_info | function |
| new | function | version | function |

noads (context)

handlers table

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

F variants

process function
processors table

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

node (basic tex)

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

nodes (context)

| | | | |
|-------------------------------|------------|--------------------------------|------------|
| after | function | F setpair | |
| aligned | function | installattributehandler | function |
| astable | function | is_display_math | function |
| before | function | is_mirrored | data table |
| builders | table | is_rotated | data table |
| F buildpage_filter | | kerncodes | data table |
| F vpack_filter | | leftmarginwidth | function |
| codes | data table | lines | table |
| count | function | T boxed | |
| delete | function | F register | |
| destinations | table | F setup | |
| N attribute | | F stage_one | |
| T done | | F stage_two | |
| F handler | | F stage_zero | |
| T stack | | D data | |
| dimensionfields | data table | F finalize | |
| dir_is_pop | data table | F number | |
| dir_negation | data table | N scratchbox | |
| fasthpack | function | link | function |
| fields | function | list | function |
| fillcodes | data table | listablefields | data table |
| firstcharacter | function | listcodes | data table |
| firstcharinbox | function | listtoutf | function |
| firstglyph | function | load | function |
| getattribute | function | locate | function |
| gluecodes | data table | mathcodes | data table |
| glyphcodes | data table | noadcodes | data table |
| glyphdir_is_equal | data table | nodecodes | data table |
| glyphdir_is_opposite | data table | packlist | function |
| glyphdir_is_orthogonal | data table | pardir_is_equal | data table |
| handlers | table | pardir_is_opposite | data table |
| F backgrounds | | pardir_is_parallel | data table |
| F characters | | partextdir_is_equal | data table |
| F checkforleaks | | pool | table |
| F checkglyphs | | F baselineskip | |
| F cleanuppage | | F cleanup | |
| F export | | F disc | |
| F finalize | | F fontkern | |
| F graphicvadjust | | F glue | |
| F migrate | | F gluespec | |
| F protectglyphs | | F glyph | |
| F stripping | | F kern | |
| F unprotectglyphs | | F latelua | |
| has_attribute | function | F leftmarginkern | |
| idstousing | function | F leftskip | |
| ignorablefields | data table | F lineskip | |
| injections | table | F noad | |
| F handler | | F pdfannotation | |
| F setcursive | | F pdfdestination | |
| F setkern | | F pdfdirect | |
| F setmark | | F pdfliteral | |

| | | | |
|-------------------------|----------|---------------------|------------|
| F penalty | | show | function |
| F register | | showboxes | function |
| F rightmarginkern | | showcodes | function |
| F rightskip | | showlist | function |
| F rule | | showsimplelist | function |
| F shrink | | skipcodes | data table |
| F stretch | | somepenalty | function |
| F temp | | somespace | function |
| F textdir | | stripping | table |
| F usage | | F enable | |
| T userids | | T glyphs | |
| N margins.inline | | striprange | function |
| N splitters.one | | tasks | table |
| N splitters.two | | F actions | |
| F userlist | | F appendaction | |
| F usernumber | | F disableaction | |
| F userstring | | F disablegroup | |
| F usertokens | | F enableaction | |
| F zeroglue | | F enablegroup | |
| print | function | F freeze | |
| processors | table | F freezegroup | |
| B enabled | | F new | |
| F hpack_filter | | F prependaction | |
| F post_linebreak_filter | | F removeaction | |
| F pre_linebreak_filter | | F restart | |
| F tracer | | F showactions | |
| processwords | function | F table | |
| reference | function | texmdir_is_equal | data table |
| references | table | texmdir_is_is | data table |
| N attribute | | texmdir_is_opposite | data table |
| T done | | texmdir_is_parallel | data table |
| F handler | | tonodes | function |
| T stack | | tosequence | function |
| remove | function | totable | function |
| repackhlist | function | toutf | function |
| replace | function | tracers | table |
| report | function | T characters | |
| rightmarginwidth | function | F collect | |
| rules | table | F equal | |
| D data | | F indices | |
| F define | | F start | |
| F enable | | F string | |
| F handler | | F unicodes | |
| save | function | T colors | |
| serialize | function | F reset | |
| serializebox | function | F set | |
| setattribute | function | F fontchar | |
| setattributes | function | F start | |
| setunsetattributes | function | T steppers | |
| shifts | table | F check | |
| D data | | F codes | |
| F define | | F features | |
| F enable | | F glyphs | |
| F handler | | F message | |

| | | |
|------------|-----------------|------------|
| F messages | unsetattribute | function |
| F nofsteps | unsetattributes | function |
| F register | visualizebox | function |
| F reset | whatcodes | data table |
| F start | whatsitcodes | data table |
| F stop | writable_spec | function |
| F stop | | |

number (context)

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

os (basic lua)

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

package (basic lua)

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

pdf (basic tex)

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

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

physics (context)

patterns table

profiler (extra lua)

`pause` `function`
`resume` `function`

`start` `function`
`stop` `function`

regimes (context)

| | | | |
|----------------|----------|------------------|----------|
| disable | function | process | function |
| enable | function | push | function |
| pop | function | translate | function |

resolvers (context)

| | | | |
|-------------------------------------|------------|--------------------------------|------------|
| allprefixes | function | getownpath | function |
| appendhash | function | getreadfilename | function |
| automount | function | hashers | data table |
| automounted | table | homedir | string |
| booleanvariable | function | installinputfilehandler | function |
| cacheversion | string | installinputlinehandler | function |
| checkedvariable | function | instance | table |
| cleanpath | function | D data | |
| cleanpathlist | function | B diskcache | |
| concatinators | data table | D environment | |
| configbanner | string | D expansions | |
| criticalvars | data table | D fakepaths | |
| dangerous | data table | D files | |
| datastate | function | B force_suffixes | |
| defaultsuffixes | table | D found | |
| dowithfilesandreport | function | D foundintrees | |
| dowithfilesintree | function | D hashed | |
| dowithpath | function | D hashes | |
| dowithvariable | function | D lists | |
| env | function | B loadererror | |
| executers | table | D order | |
| F check | | B remember | |
| F execute | | B renewcache | |
| F finalize | | B savelists | |
| F register | | D setups | |
| expandbraces | function | D specification | |
| expandedpathfromlist | function | D variables | |
| expandedpathlist | function | jobs | table |
| expandedpathlistfromvariable | function | F currentcomponent | |
| expandpath | function | F justacomponent | |
| expandpathfromvariable | function | D processors | |
| expansion | function | F usefile | |
| extendtexmfvariable | function | joinpath | function |
| find_file | function | load | function |
| find_files | function | loadbinfile | function |
| findbinfile | function | loaders | data table |
| findctxfile | function | loadlualib | function |
| finders | data table | loadtexfile | function |
| findfile | function | loadtime | function |
| findfiles | function | locateformat | function |
| findgivenfile | function | locators | data table |
| findgivenfiles | function | luacnfname | string |
| findpath | function | luacnfspec | string |
| findtexfile | function | luacnfstate | string |
| findwildcardfile | function | macros | table |
| findwildcardfiles | function | F convertfile | |
| formatofsuffix | function | F decodecomment | |
| formatofvariable | function | F enablecomment | |
| formats | data table | F encodecomment | |
| generators | data table | F preprocessed | |
| getenv | function | F processmkvi | |

| | | | |
|-------------------|------------|--------------------------|------------|
| F version | | F none | |
| maxreadlevel | number | F strip | |
| methodhandler | function | F cleannname | |
| newinstance | function | F install | |
| openbinfile | function | N threshold | |
| openers | data table | setenv | function |
| openfile | function | setinstance | function |
| opentexfile | function | settrace | function |
| ownpath | string | showpath | function |
| prefixes | data table | simplescanfiles | function |
| prependhash | function | splitconfigurationpath | function |
| registerextrapath | function | splitexpansions | function |
| registerfile | function | splitmethod | function |
| registerfilehash | function | splitpath | function |
| registerintrees | function | suffixes | data table |
| registermethod | function | suffixmap | data table |
| registerzipfile | function | suffixofformat | function |
| relations | data table | texdatablob | function |
| repath | function | unexpandedpath | function |
| reset | function | unexpandedpathlist | function |
| resetextrapath | function | unresolve | function |
| resetresolve | function | updaterelations | function |
| resolve | function | updatescript | function |
| savers | data table | usezipfile | function |
| scandata | function | validatedpath | function |
| scanfiles | function | variable | function |
| schemes | table | variableofformat | function |
| | | variableofformatorsuffix | function |
| | | wildcardpattern | function |
| T cleaners | | | |
| F md5 | | | |

scripts (context)

| | | | |
|------------------|------------|------------------|------------|
| categorytonumber | data table | numbertocategory | data table |
| colors | data table | numbertodataset | data table |
| handlers | data table | preprocess | function |
| hash | table | reset | function |
| installdataset | function | set | function |
| installmethod | function | | |

set (context)

| | | | |
|----------|----------|----------|----------|
| contains | function | tonumber | function |
| create | function | totable | function |
| tolist | function | | |

short_operators (context)

| | |
|-----------------------|-----------------------|
| <code>* string</code> | <code>/ string</code> |
| <code>. string</code> | <code>: string</code> |

short_prefixes (context)

| | | | |
|---|--------|----|--------|
| E | string | da | string |
| G | string | f | string |
| M | string | h | string |
| P | string | k | string |
| T | string | m | string |
| Y | string | n | string |
| Z | string | p | string |
| a | string | u | string |
| c | string | y | string |
| d | string | | |

short_units (context)

| | | | |
|-------|--------|---|--------|
| Litre | string | m | string |
| Metre | string | n | string |
| g | string | s | string |
| h | string | u | string |
| hz | string | v | string |

socket (extra lua)

| | | | |
|------------------|-------------------|--|------------------------|
| BLOCKSIZE | number | | F keep-open |
| _DEBUG | boolean | | skip function |
| bind | function | | sleep function |
| choose | function | | smtp table |
| connect | function | | S DOMAIN |
| dns | table | | N PORT |
| | F gethostname | | S SERVER |
| | F tohostname | | N TIMEOUT |
| | F toip | | S ZONE |
| ftp | table | | F message |
| | S PASSWORD | | F open |
| | N PORT | | F send |
| | N TIMEOUT | | source function |
| | S USER | | sourcet table |
| | F command | | F by-length |
| | F get | | F default |
| | F open | | F http-chunked |
| | F put | | F until-closed |
| gettime | function | | tcp function |
| http | table | | tp table |
| | N PORT | | N TIMEOUT |
| | N TIMEOUT | | F connect |
| | S USERAGENT | | try function |
| | F open | | udp function |
| | F request | | url table |
| newtry | function | | F absolute |
| protect | function | | F build |
| select | function | | F build_path |
| sink | function | | F escape |
| sinkt | table | | F parse |
| | F close-when-done | | F parse_path |
| | F default | | F unescape |
| | F http-chunked | | |

sorters (context)

| | | | |
|---------------------|-------|---------------------|------------|
| comparers | table | definitions | data table |
| F basic | | firstofsplit | function |
| constants | table | setlanguage | function |
| S defaultdigits | | sort | function |
| S defaultlanguage | | splitters | table |
| S defaultmethod | | F utf | |
| N digitmaximum | | strip | function |
| N digitsoffset | | tracers | data table |
| N ignoredoffset | | update | function |
| N replacementoffset | | | |

statistics (context)

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

status (basic tex)

list function

storage (context)

| | | | |
|------------|----------|------------|------------|
| allocate | function | min | number |
| data | table | nofmodules | number |
| evaluators | table | noftables | number |
| mark | function | register | function |
| marked | function | shared | data table |
| max | number | | |

streams (context)

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

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

string (basic lua)

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

structures (context)

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

| | | | |
|----------------------------|-------|---------------------|-------|
| F page | | F listindex | |
| F popnesting | | F number | |
| F prefix | | F ordered | |
| F prefixednumber | | F postpone | |
| F prefixedpage | | F resetpostponed | |
| F process | | F restore | |
| F push | | F save | |
| D pushed | | F setstate | |
| F pushnesting | | F setsymbolpage | |
| F realpage | | D states | |
| T result | | F store | |
| F savednumber | | F title | |
| F savedprefixednumber | | pages | table |
| F savedtitle | | F analyze | |
| F sectionnumber | | D collected | |
| F size | | F is_odd | |
| F title | | F number | |
| D tobesaved | | F save | |
| F userdata | | D tobesaved | |
| F uservalue | | processors | table |
| marks | table | F apply | |
| D data | | F register | |
| F define | | F reset | |
| F exists | | F split | |
| F fetch | | F startapply | |
| F fetchallmarks | | F stopapply | |
| F fetched | | F stripped | |
| F fetchonemark | | F tostring | |
| F fetchtwomarks | | references | table |
| F get | | F analyze | |
| F number | | F checkedfile | |
| F relate | | F checkedfileorurl | |
| F reset | | F checkedprogram | |
| F set | | F checkedrealpage | |
| F show | | F checkedurl | |
| F synchronize | | D collected | |
| F title | | U componentsplitter | |
| T tracers | | F currentmetadata | |
| F showtable | | F currentorder | |
| notes | table | D currentset | |
| F checkpagechange | | F define | |
| F define | | D defined | |
| F deltapage | | D derived | |
| F doifcontent | | F doifelse | |
| F doifonsamepageasprevious | | F enableinteraction | |
| F flush | | F enhance | |
| F flushpostponed | | D executers | |
| F get | | F expandcurrent | |
| F getn | | F export | |
| F getnumberpage | | T files | |
| F getstate | | T data | |
| F getsymbolpage | | F define | |
| F internal | | F get | |
| F internalid | | F filter | |

| | | |
|------------------------|------------------------------------|-------|
| D filters | T testrunners | |
| F from | F inner | |
| F get | F special | |
| F getcurrentmetadata | F special operation | |
| F getcurrentprefixspec | F special operation with arguments | |
| F getinnermethod | T testspecials | |
| F getinternalreference | F deltapage | |
| D handlers | F i | |
| F identify | F internal | |
| F import | F page | |
| F inject | F realpage | |
| F injectcurrentset | F section | |
| D internals | F userpage | |
| F load | D tobereferred | |
| F loadpresets | D tobesaved | |
| F mark | T urls | |
| D pages | T data | |
| U prefixsplitter | F define | |
| T productdata | F get | |
| T componentreferences | F whatfrom | |
| T components | registers | table |
| T productreferences | F analyze | |
| T programs | F analyzed | |
| T data | D collected | |
| F define | F compare | |
| F get | F define | |
| F realpageofpage | F enhance | |
| U referencesplitter | F extend | |
| D referred | F filter | |
| F referredpage | F filtercollected | |
| F registerfinalizer | F finalize | |
| F registerinitializer | F flush | |
| F registerpage | F prepare | |
| F reportproblems | F process | |
| F reset | F sort | |
| T resolvers | F store | |
| F description | D tobesaved | |
| F float | F unique | |
| F formula | F userdata | |
| F note | sections | table |
| F reference | F autodepth | |
| F section | F cct | |
| D runners | T collected | |
| F set | F current | |
| F setandgetattribute | F currentblock | |
| F setcomponent | F currentid | |
| F setinnermethod | F currentlevel | |
| F setinternalreference | F defineautolevels | |
| F setnextinternal | F depthnumber | |
| F setnextorder | F finddata | |
| D specials | F findnumber | |
| F splitcomponent | F fullnumber | |
| F splitprefix | F getcurrentlevel | |
| F splitreference | F getlevel | |

| | | | |
|---------------------|--------------|------------------------|--------------|
| F getnumber | | F compare | |
| F internalreference | | F define | |
| D levelmap | | F filter | |
| D levels | | F finalize | |
| F load | | F flush | |
| F matchingtilldepth | | F meaning | |
| F numberatdepth | | F prepare | |
| F numbers | | F process | |
| F popblock | | F register | |
| F prefixedconverted | | F registerused | |
| F pushblock | | F sort | |
| F register | | F synonym | |
| D registered | | D tobesaved | |
| F reportstructure | | tags | table |
| F save | | T data | |
| F set | | F detailedtag | |
| F setblock | | F getid | |
| F setchecker | | F handler | |
| F setlevel | | D labels | |
| F setnumber | | F last | |
| F somelevel | | F lastinchain | |
| F startautolevel | | T metadata | |
| F stopautolevel | | D properties | |
| F structuredata | | F registerdata | |
| F title | | F registermetadata | |
| D tobesaved | | F restart | |
| F typesetnumber | | F setattributehash | |
| F userdata | | F setcombination | |
| B verbose | | F setdescription | |
| F way | | F setdescriptionsymbol | |
| sets | table | F setfigure | |
| F define | | F sethighlight | |
| F get | | F setitemgroup | |
| F getall | | F setproperty | |
| D setlist | | F setsorting | |
| specials | table | F setsynonym | |
| D collected | | F settablecell | |
| F retrieve | | F settabulatecell | |
| F store | | F start | |
| D tobesaved | | F stop | |
| synonyms | table | D taglist | |
| F analyzed | | T userdata | |
| D collected | | | |

table (basic lua)

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

tex (basic tex)

| | | | |
|-------------------------|------------|------------------------|------------|
| attribute | table | pdffontname | function |
| badness | function | pdffontobjnum | function |
| box | table | pdffontsize | function |
| catcode | table | pdfpageref | function |
| conditionals | data table | pdfxformname | function |
| constants | data table | primitives | function |
| count | table | print | function |
| ctxcatcodes | number | printlist | function |
| definefont | function | prtcacodes | number |
| delcode | table | romannumeral | function |
| dimen | table | round | function |
| dummyscatcodes | number | run | function |
| enableprimitives | function | scale | function |
| error | function | scratchcatcodes | number |
| extraprimitives | function | set | function |
| finish | function | setAttribute | function |
| fontidentifier | function | setbox | function |
| fontname | function | setcatcode | function |
| fprint | function | setcount | function |
| get | function | setdelcode | function |
| getAttribute | function | setdimen | function |
| getbox | function | setfalse | function |
| getcatcode | function | setlccode | function |
| getcount | function | setlist | function |
| getdelcode | function | setmath | function |
| getdimen | function | setmathcode | function |
| getlccode | function | setnest | function |
| getlist | function | setsfcode | function |
| getmath | function | setskip | function |
| getmathcode | function | settoks | function |
| getnest | function | settrue | function |
| getsfcode | function | setuccode | function |
| getskip | function | sfcode | table |
| gettoks | function | shipout | function |
| getuccode | function | skip | table |
| hashtokens | function | sp | function |
| ifs | data table | sprint | function |
| iscount | function | systemmodes | data table |
| isdimen | function | texcatcodes | number |
| isskip | function | toks | table |
| istoken | function | tpacatcodes | number |
| lccode | table | tpbcatcodes | number |
| linebreak | function | tprint | function |
| lists | table | txtcatcodes | number |
| luacatcodes | number | type | function |
| mathcode | table | uccode | table |
| modes | data table | uniformdeviate | function |
| nest | table | uprint | function |
| nilcatcodes | number | vrbcacodes | number |
| notcatcodes | number | write | function |
| number | function | | |

texconfig (basic tex)

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

texio (basic tex)

```
write      function  
write_nl   function
```

token (basic tex)

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

tokens (context)

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

tracers (context)

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

trackers (context)

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

typesetters (context)

| | | | |
|--------------------|------------------|-----------------|--|
| alignments | table | | |
| | F handler | | |
| | F set | | |
| breakpoints | table | | |
| | N attribute | | |
| | F enable | | |
| | F handler | | |
| | D mapping | | |
| | T methods | | |
| | F set | | |
| | F setreplacement | | |
| cases | table | | |
| | T actions | | |
| | F handler | | |
| | F set | | |
| characters | table | | |
| | F handler | | |
| cleaners | table | | |
| | F handler | | |
| | F set | | |
| digits | table | | |
| | T actions | | |
| | N attribute | | |
| | F handler | | |
| | F set | | |
| directions | table | | |
| | F handler | | |
| | F process | | |
| | | F set | |
| | hpack | function | |
| | italics | table | |
| | | F forcevariant | |
| | | F handler | |
| | | F reset | |
| | | F set | |
| | kerns | table | |
| | | D factors | |
| | | F handler | |
| | | B keepligature | |
| | | B keptogether | |
| | | D mapping | |
| | | F set | |
| | margins | table | |
| | | F finalhandler | |
| | | F globalhandler | |
| | | F localhandler | |
| | | F save | |
| | spacings | table | |
| | | N attribute | |
| | | F handler | |
| | | D mapping | |
| | | F set | |
| | | F setup | |
| | tonodes | function | |
| | vpack | function | |

unicode (extra lua)

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

url (context)

| | | | |
|------------------------|----------|------------------------|----------|
| <code>addscheme</code> | function | <code>hasscheme</code> | function |
| <code>construct</code> | function | <code>query</code> | function |
| <code>filename</code> | function | <code>split</code> | function |
| <code>hashed</code> | function | | |

utilities (context)

| | | | |
|---------------------------------|----------|---------------------|-----------------|
| debugger | table | | F appendgroup |
| F disable | | | F autocompile |
| F enable | | | F compile |
| F savestats | | | F disableaction |
| F showstats | | | F disablegroup |
| formatters | table | | F enableaction |
| F formatcolumns | | | F enablegroup |
| F list | | | D functions |
| F stripzeros | | | F localize |
| garbagecollector | table | | F nodeprocessor |
| F check | | | F prependaction |
| N criterium | | | F prependgroup |
| B enabled | | | F removeaction |
| lua | table | | F reset |
| F compile | | | F setkind |
| packers | table | | F tostring |
| F hashed | | setters | table |
| F new | | F disable | |
| F pack | | F enable | |
| F simplehashed | | F initialize | |
| F strip | | F list | |
| F unpack | | F new | |
| N version | | F register | |
| parsers | table | F reset | |
| F add_settings_to_array | | F show | |
| F arguments_to_table | | storage | table |
| F array_to_string | | F allocate | |
| F getparameters | | F checked | |
| F hash_to_string | | F mark | |
| F listitem | | F marked | |
| F make_settings_to_hash_pattern | | F setinitializer | |
| T patterns | | F sparse | |
| U settings_to_array | | strings | table |
| U settings_to_hash_a | | F collapseCrLf | |
| U settings_to_hash_b | | F newrepeater | |
| U settings_to_hash_c | | F striplong | |
| F settings_to_array | | F tabtospace | |
| F settings_to_hash | | tables | table |
| F settings_to_hash_strict | | F accesstable | |
| F settings_to_hash_tolerant | | F definetable | |
| F settings_to_set | | F encapsulate | |
| F simple_hash_to_string | | F insertaftervalue | |
| report | function | F insertbeforevalue | |
| sequencers | table | F migratetable | |
| F appendaction | | F removevalue | |

visualizers (context)

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

xml (context)

| | | | |
|----------------------|------------|------------------|----------|
| after | function | F name | |
| all | function | F number | |
| applylpath | function | F oneof | |
| assign | function | F print | |
| attribute | function | F quit | |
| before | function | F tag | |
| body | function | F text | |
| checkbom | function | F undefined | |
| checkerror | function | F upper | |
| checknamespace | function | fillin | function |
| checkns | function | filter | function |
| cleansed | function | finalizers | table |
| collect | function | T tex | |
| collect_elements | function | F all | |
| collect_tags | function | F attribute | |
| collect_texts | function | F bibtexconcat | |
| collected | function | F bibtexshort | |
| collecttexts | function | F chainattribute | |
| content | function | F command | |
| convert | function | F concat | |
| copy | function | F concatrange | |
| count | function | F context | |
| cprint | function | F count | |
| css | table | F ctxttext | |
| F colorspecification | | F default | |
| F fontspecification | | F first | |
| F padding | | F function | |
| defaulthandlers | table | F index | |
| D file | | F last | |
| D parsedxml | | F lettered | |
| D string | | F lower | |
| D tex | | F match | |
| D verbose | | F name | |
| defaultprotocol | string | F position | |
| delete | function | F reverse | |
| delete_element | function | F stripped | |
| each | function | F tag | |
| each_element | function | F tags | |
| elements | function | F text | |
| empty | function | F upper | |
| entities | data table | T xml | |
| erase | function | F all | |
| escaped | function | F att | |
| expressions | table | F attribute | |
| F boolean | | F attributes | |
| F child | | F chainattribute | |
| F contains | | F count | |
| F count | | F default | |
| F error | | F elements | |
| F find | | F empty | |
| F lower | | F first | |

| | | | |
|-----------------------|----------|----------------------|----------|
| F function | | F unknown_dec_entity | |
| F index | | F unknown_hex_entity | |
| F last | | position | function |
| F match | | privatecodes | table |
| F name | | privatetoken | function |
| F position | | process | function |
| F reverse | | process_attributes | function |
| F table | | process_elements | function |
| F tag | | processattributes | function |
| F tags | | profiled | table |
| F text | | raw | function |
| F texts | | registerentity | function |
| first | function | registers | function |
| found | function | remap_name | function |
| functions | table | remap_namespace | function |
| getbuffer | function | remap_tag | function |
| gethandlers | function | remapname | function |
| gethandlersfunction | function | remapnamespace | function |
| include | function | remaptag | function |
| index | function | renamespace | function |
| inheritedconvert | function | replace | function |
| inject | function | replace_element | function |
| inject_element | function | resolvens | function |
| inject_element_after | function | root | function |
| inject_element_before | function | save | function |
| injectafter | function | selection | function |
| injectbefore | function | serialize | function |
| insert | function | sethandlersfunction | function |
| insert_element | function | setproperty | function |
| insert_element_after | function | settings | function |
| insert_element_before | function | specialhandler | table |
| insertafter | function | sprint | function |
| insertbefore | function | string | function |
| inspect | function | strip | function |
| is_valid | function | strip_whitespace | function |
| last | function | stripelement | function |
| load | function | stripleadingspaces | function |
| lpath | function | table | function |
| lpathcached | function | text | function |
| lpathcalls | function | textonly | function |
| lshow | function | tocdata | function |
| makestandalone | function | toelement | function |
| match | function | tostring | function |
| name | function | toxml | function |
| newhandlers | function | tprint | function |
| nodesettostring | function | traverse | function |
| originalload | function | unescaped | function |
| package | function | unprivatized | function |
| parent | function | withelement | function |
| parsedentitylpeg | userdata | withelements | function |
| pihandlers | table | wrap | function |
| placeholders | table | xmlns | table |
| F unknown_any_entity | | | |

zip (extra lua)

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

zlib (extra lua)

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