

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

# ConTEXT MkIV

# global (alias: \_G)

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

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

url	table
userdata	table
utf	table
utf16_to_utf8_be_t	function
utf16_to_utf8_le_t	function
utf32_to_utf8_be_t	function
utf32_to_utf8_le_t	function
utilities	table
vf	table
visualizers	table
xml	table
xmlconvert	function
xpcall	function
zip	table
zlib	table

# attributes (context)

## colorintents table

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

## colors table

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

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

## define function effects table

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

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

N attribute		F register
D data		D registered
F enable		F resolve_begin
F handler		F resolve_end
F register		F resolve_reset
D registered		F resolve_step
<b>numbers</b>	data table	D scopes
<b>ofnode</b>	function	F setfeatures
<b>private</b>	function	F start
<b>public</b>	function	F stop
<b>showcurrent</b>	function	B supported
<b>states</b>	table	D values
F disabletriggering		
F enabletriggering		
F finalize		
F initialize		
F process		
F selective		
F stacked		
F stacker		
<b>system</b>	function	
<b>transparencies</b>	table	
N attribute		
D data		
F enable		
F forcesupport		
F handler		
U none		
F register		
D registered		
B supported		
B triggering		
F value		
D values		
<b>unsetvalue</b>	number	
<b>viewerlayers</b>	table	
N attribute		
D data		
F define		
F enable		
F forcesupport		
F handler		
B hasorder		
D listwise		

# backends (context)

**codeinjections** table

F synchronizecolormodel

**current** string

**defaults** table

T codeinjections

F gethpos

F getmatrix

F getpos

F getvpos

F hasmatrix

T nodeinjections

T registrations

D tables

**install** function

**nodeinjections** table

F restore

F save

F transform

**nothing** function

**pdf** table

T codeinjections

F addbookmarks

F attachmentid

F clonefield

F definefield

F definefieldset

F defineviewerlayer

F embedfile

F enabletags

F exportformdata

F getbookmarks

F getdefaultfieldvalue

F getfieldcategory

F getfieldset

F getformatoption

F gethpos

F getmatrix

F getoutputfilename

F getpos

F getpreviewfigure

F getvpos

F hasmatrix

F insertrenderingwindow

F mergebookmarks

F mergereferences

F mergeviewerlayers

F prerollreference

F presetsymbol

F presetsymbollist

F processrendering

F registerdocumentcloseaction

F registerdocumentopenaction

F registeredsymbol

F registerpagecloseaction

F registerpageopenaction

F registersymbol

F setfieldcalculationset

F setfigurealternative

F setfigurecolorspace

F setfiguremask

F setformat

F setformsmethod

F setpagetransition

F setupcanvas

F setupidentity

F setxmpfile

F startlayer

F stoplayer

F supportedformats

F unicodetoactualtext

F useviewerlayer

F validfield

F validfieldcategory

F validfieldset

S comment

T nodeinjections

F addtags

F annotation

F attachfile

F changestackedlayer

F cmykcolor

F comment

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

**registrations**      table

**tables**              table



## bit (context)

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

## bit32 (basic lua)

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

## blobs (context)

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

## boolean (context)

**tocontext** function

**tonumber** function

## buffers (context)

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

# builders (context)

## **kernel**      table

- F hyphenation
- F kerning
- F ligaturing
- F mlist\_to\_hlist

## **paragraphs**   table

- T constructors
  - N attribute
  - F define
  - F disable
  - F enable
  - F handler
- T methods
  - F basic
  - F default
  - F oneline

- D names

- D numbers

- F set

- F start

- F stop

- T expansion

- F trace

- F keptogether

- F registertogether

- T solutions

- T splitters

- F define

- F optimize

- T registered

- F reset

- F set

- F split

- F start

- F stop

- F tag

## **vspacing**      table

- F analyze

- D categories

- F collapsevbox

- T data

- D map

- D skip

- D snapmethods

- F definesnapmethod

- B fixed

- F pagehandler

- F resetprevdepth

- F setmap

- F setskip

- F snapbox

- F tocategories

- F tocategory

- F vboxhandler

## caches (context)

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

## callback (basic tex)

**find**        function

**list**        function

**register**   overloaded function



## callbacks (context)

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

## catcodes (context)

**names** data table

**numbers** data table

**register** function

# characters (context)

<b>activeoffset</b>	number	S B
<b>adobename</b>	function	S C
<b>bidirectional</b>	data table	S D
<b>blockrange</b>	function	S E
<b>blocks</b>	data table	S F
<b>casemap</b>	table	S G
<b>categories</b>	data table	S H
<b>category</b>	function	S I
<b>categorytags</b>	data table	S J
<b>collapsed</b>	data table	S K
<b>combined</b>	data table	S L
<b>contextname</b>	function	S M
<b>data</b>	data table	S N
<b>decomposed</b>	data table	S O
<b>define</b>	function	S P
<b>description</b>	function	S Q
<b>descriptions</b>	data table	S R
<b>directions</b>	table	S S
<b>encodes</b>	data table	S T
<b>entities</b>	data table	S U
<b>fallbacks</b>	data table	S V
<b>filters</b>	data table	S W
<b>fromnumber</b>	function	S X
<b>fschars</b>	data table	S Y
<b>fscodes</b>	data table	S Z
<b>getrange</b>	function	S Å
<b>graphemes</b>	data table	S Á
<b>hangul</b>	data table	S Â
<b>initialize</b>	function	S Ã
<b>is_character</b>	data table	S Ä
<b>is_command</b>	data table	S Å
<b>is_letter</b>	data table	S Æ
<b>is_mark</b>	data table	S Ç
<b>is_punctuation</b>	data table	S È
<b>is_spacing</b>	data table	S É
<b>lcchars</b>	data table	S Ê
<b>lccode</b>	function	S Ë
<b>lccodes</b>	data table	S Ì
<b>lettered</b>	function	S Í
<b>lhash</b>	table	S Î
<b>S A</b>		S Ï



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<b>linebreaks</b>	<b>table</b>	<b>mirrors</b>	<b>table</b>
S ai		<b>otfscripts</b>	data table
S al		<b>ranges</b>	data table
S b2		<b>registerentities</b>	function
S ba		<b>remap_hangul_syllabe</b>	function
S bb		<b>setcodes</b>	function
S bk		<b>shape</b>	function
S cb		<b>shaped</b>	function
S cj		<b>shash</b>	table
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S	<b>shchars</b>	data table
S	<b>shcodes</b>	data table
S	<b>showstring</b>	function
S	<b>specialchars</b>	data table
S	<b>specials</b>	data table
S	<b>subscripts</b>	table
S	<b>superscripts</b>	table
S	<b>synonyms</b>	data table
S	<b>tex</b>	table
S	D accentmapping	
S	D commandmapping	
S	F defineaccents	
S	F safechar	
S	F toutf	
S	F toutfpattern	
S	<b>textclasses</b>	table
S	<b>tonumber</b>	function
S	<b>ucchars</b>	data table
S	<b>uccode</b>	function
S	<b>uccodes</b>	data table
S	<b>uhash</b>	table
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## chemistry (context)

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

## commands (context)

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



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

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

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

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

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

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

F dofromurlliteral	F input
F doinlineverbatimbeginline	T knownfunctions
F doinlineverbatimemptyline	F l
F doinlineverbatimnewline	F lateluafunction
F doinlineverbatimstart	F letvaluerelax
F doinlineverbatimstop	F llap
F domarkinjector	F loadfile
F donestedtypingstart	F loadfoundtypescriptfile
F donestedtypingstop	F luasetup
F dostarttext	F m
F doverbatimspace	F makelinenumber
F egroup	T metafun
F emptyreference	F color
F enablemode	T delayed
F endhbox	F start
F endvbox	F stop
F environment	T nested
F expandreferencearguments	F markingcommand
F expandreferenceoperation	F markingseparator
F finalizeautostructurelevel	F newbox
F finishjob	F newcount
F firstofoneargument	F newdimen
F firstoftwoarguments	F newindexer
F fixedblankskip	F newmuskip
F flexibleblankskip	F newskip
F flushblankhandling	F newtexthandler
F flushboxregister	F newtoks
F flushnode	F newverbosehandler
F fntsetdefname	F nointerlineskip
F fntsetnopsiz	F normalatop
F fntsetsomename	F normalover
F fntsetsomesize	F overstrike
T formatted	F par
F fprint	F pdfliteral
T generics	F popcatcodes
S starttabulate	F poplogger
S stoptabulate	F printlines
F getlogger	F processfilemany
F getreferencestructureprefix	F processfilenone
F getvalue	F processfileonce
F glyph	F protect
F gobbleoneargument	T puretext
F goto	F pushcatcodes
F hrule	F pushlogger

F registerentry	F startregisterpages
F registerfunction	F startregistersection
F registeronepage	F startregisterseewords
F registerpagerange	F starttabulate
F registerseeword	F starttext
F reservefunction	F starttitle
F rlap	F startvboxregister
F rotate	F startxtitle
F runfile	F stopLuaSnippet
F secondoftwoarguments	F stopMetapostSnippet
F setblankcategory	F stopParsedXmlSnippet
F setblankorder	F stopTexSnippet
F setblankpenalty	F stopXmlSnippet
F setconditional	F stopblankhandling
F setfalsevalue	F stopcolumns
F sethboxregister	F stopcomponentindeed
F setsomevalue	F stopenvironmentindeed
F settabulateentry	F stopfontclass
F settabulatelastentry	F stophboxregister
F settracing	F stopproductindeed
F setupsystem	F stopprojectindeed
F setupwithargument	F stopreadingfile
F setvalue	F stopregisterentries
F setvboxregister	F stopregisterentry
F setxvalue	F stopregisteroutput
F space	F stopregisterpages
F sprint	F stopregistersection
F startLuaSnippet	F stopregisterseewords
F startMetapostSnippet	F stoptabulate
F startParsedXmlSnippet	F stoptext
F startTexSnippet	F stoptitle
F startXmlSnippet	F stopvboxregister
F startblankhandling	F stopxtitle
F startcolumns	F storenode
F startcomponentindeed	F synonymentry
F startenvironmentindeed	F tabulaterow
F startfontclass	F tabulaterowbold
F starthboxregister	F tabulaterowtyp
F startproductindeed	F tabulaterowtype
F startprojectindeed	F template
F startreadingfile	T templates
F startregisterentries	F texsetup
F startregisterentry	F tobuffer
F startregisteroutput	F tocontext



F tolines	F TexSnippetBoundary	
F unitsC	F TexSnippetComment	
F unitsN	F TexSnippetGroup	
F unitsNspace	F TexSnippetName	
F unitsNstart	F TexSnippetSpecial	
F unitsNstop	F XmlSnippetBoundary	
F unitsO	F XmlSnippetCdata	
F unitsP	F XmlSnippetComment	
F unitsPS	F XmlSnippetEntity	
F unitsPU	F XmlSnippetEqual	
F unitsPUS	F XmlSnippetKey	
F unitsQ	F XmlSnippetName	
F unitsS	F XmlSnippetString	
F unitsU	F ctxreport	
F unitsUS	F viafile	
F unprotect	F vrule	
F unregisterfunction	F xmldataaafter	
F usemodule	F xmldatabefore	
F utfchar	F xmldataobeyedline	
T verbatim	F xmldataobeyedspace	
F LuaSnippetBoundary	F xmlprocessbuffer	
F LuaSnippetComment	F xmlsetup	
F LuaSnippetName	<b>numbers</b>	<b>function</b>
F LuaSnippetNameBase	F C	
F LuaSnippetNameCore	F FL	
F LuaSnippetNameLibraries	F HL	
F LuaSnippetQuote	F L	
F LuaSnippetSpecial	F LL	
F LuaSnippetString	F LuaSnippet	
F MetapostSnippetBoundary	F LuaSnippetBoundary	
F MetapostSnippetComment	F LuaSnippetComment	
F MetapostSnippetConstructor	F LuaSnippetName	
F MetapostSnippetName	F LuaSnippetNameBase	
F MetapostSnippetNameMetafun	F LuaSnippetNameCore	
F MetapostSnippetNamePlain	F LuaSnippetNameLibraries	
F MetapostSnippetNamePrimitive	F LuaSnippetQuote	
F MetapostSnippetQuote	F LuaSnippetSpecial	
F MetapostSnippetSpecial	F LuaSnippetString	
F MetapostSnippetString	F ML	
F ParsedXmlSnippetCdata	F MPLIBsetCtext	
F ParsedXmlSnippetComment	F MPLIBsetNtext	
F ParsedXmlSnippetDoctype	F MPcolor	
F ParsedXmlSnippetElement	F MetapostSnippet	
F ParsedXmlSnippetInstruction	F MetapostSnippetBoundary	

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

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

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

F space	F stopregisterpages
F sprint	F stopregistersection
F startLuaSnippet	F stopregisterseewords
F startMetapostSnippet	F stoptabulate
F startParsedXmlSnippet	F stoptext
F startTexSnippet	F stoptitle
F startXmlSnippet	F stopvboxregister
F startblankhandling	F stopxtitle
F startcolumns	F storenode
F startcomponentindeed	F synonymentry
F startenvironmentindeed	F tabulaterow
F startfontclass	F tabulaterowbold
F starthboxregister	F tabulaterowtyp
F startproductindeed	F tabulaterowtype
F startprojectindeed	F template
F startreadingfile	T templates
F startregisterentries	F texsetup
F startregisterentry	F tobuffer
F startregisteroutput	F tocontext
F startregisterpages	F tolines
F startregistersection	F unitsC
F startregisterseewords	F unitsN
F starttabulate	F unitsNspace
F starttext	F unitsNstart
F starttitle	F unitsNstop
F startvboxregister	F units0
F startxtitle	F unitsP
F stopLuaSnippet	F unitsPS
F stopMetapostSnippet	F unitsPU
F stopParsedXmlSnippet	F unitsPUS
F stopTexSnippet	F unitsQ
F stopXmlSnippet	F unitsS
F stopblankhandling	F unitsU
F stopcolumns	F unitsUS
F stopcomponentindeed	F unprotect
F stopenvironmentindeed	F unregisterfunction
F stopfontclass	F usemodule
F stophboxregister	F utfchar
F stopproductindeed	T verbatim
F stopprojectindeed	F LuaSnippetBoundary
F stopreadingfile	F LuaSnippetComment
F stopregisterentries	F LuaSnippetName
F stopregisterentry	F LuaSnippetNameBase
F stopregisteroutput	F LuaSnippetNameCore

F LuaSnippetNameLibraries		octstringtonumber	function
F LuaSnippetQuote		oneorange	function
F LuaSnippetSpecial		ordinal	function
F LuaSnippetString		overloadbookmark	function
F MetapostSnippetBoundary		page_injections_flush_after	function
F MetapostSnippetComment		page_injections_flush_before	function
F MetapostSnippetConstructor		page_injections_save	function
F MetapostSnippetName		pagestaterealpage	function
F MetapostSnippetNameMetafun		parpos	function
F MetapostSnippetNamePlain		pdfrotation	function
F MetapostSnippetNamePrimitive		pdfstartmatrix	function
F MetapostSnippetQuote		pdfstartmirroring	function
F MetapostSnippetSpecial		pdfstartrotation	function
F MetapostSnippetString		pdfstartscaling	function
F ParsedXmlSnippetCdata		pdfstopmatrix	function
F ParsedXmlSnippetComment		pdfstopmirroring	function
F ParsedXmlSnippetDoctype		pdfstoprotation	function
F ParsedXmlSnippetElement		pdfstopscaling	function
F ParsedXmlSnippetInstruction		percentageof	function
F TexSnippetBoundary		pgfxcolorspec	function
F TexSnippetComment		placeparallel	function
F TexSnippetGroup		popfloat	function
F TexSnippetName		popitaliccorrection	function
F TexSnippetSpecial		poplist	function
F XmlSnippetBoundary		popreferenceprefix	function
F XmlSnippetCdata		popregime	function
F XmlSnippetComment		popsectionblock	function
F XmlSnippetEntity		pos	function
F XmlSnippetEqual		posplus	function
F XmlSnippetKey		posstrut	function
F XmlSnippetName		postponenotes	function
F XmlSnippetString		poswhd	function
F ctxreport		posxy	function
F viafile		prefixedconverted	function
F vrule		prepareMPvariable	function
F xmldataaafter		preparedfile	function
F xmldatabefore		presetsymbollist	function
F xmldataobeyedline		presettabulate	function
F xmldataobeyedspace		prevcountervalue	function
F xmlprocessbuffer		processbuffer	function
F xmlsetup		processcolorcomponents	function
<b>objectnumber</b>	function	processedfile	function
<b>objectpage</b>	function	processedfiles	function
<b>octnumber</b>	function	processfile	function

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

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



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

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

## containers (context)

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

## converters (context)

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

## coroutine (basic lua)

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

## ctxrunner (context)

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

## debug (basic lua)

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

## dir (context)

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



## directives (context)

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

# document (context)

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

## environment (context)

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

## epdf (extra tex)

<b>Array</b>	function
<b>Dict</b>	function
<b>Object</b>	function
<b>PDFRectangle</b>	function
<b>open</b>	function
<b>type</b>	function

## experiments (context)

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

# figures (context)

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

## file (basic lua)

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

## floats (context)

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



## font (basic tex)

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

## fontloader (extra tex)

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

# fonts (context)

<b>analyzers</b>	table		F report
T features			F reset
N blwf			T vectors
N fina		<b>constructors</b>	table
N half		F addcoreunicodes	
N init		F aftercopyingcharacters	
N isol		F applymanipulators	
N medi		F assignmathparameters	
N pref		B autocleanup	
N pstf		F beforecopyingcharacters	
N rphf		D cache	
D initializers		B cacheintex	
D methods		F calculatescale	
F setstate		F checkedfeatures	
T states		F checkedfilename	
N blwf		F checkvirtualids	
N fina		F cleanupable	
N half		F collectprocessors	
N init		D designsizes	
N isol		D dontembed	
N mark		F enhanceparameters	
N medi		N factor	
N pref		F finalize	
N pstf		F getfeatureaction	
N rest		F hashfeatures	
N rphf		F hashinstance	
B useunicodemarks		T hashmethods	
<b>checkers</b>	table	F normal	
F getmissing		F virtual	
F missing		F initializefeatures	
<b>cid</b>	table	T keys	
F getmap		T character	
F loadfile		S depth	
<b>collections</b>	table	S height	
F checkenabled		S italic	
F clonevector		S width	
F define		T description	
T definitions		T boundingbox	
F prepare		S depth	
F process		S height	
F registermain		S width	

T parameters	T cidinfo	
S ascender	S embedding	
S descender	S encodingbytes	
S designsize	S filename	
T expansion	S finalized	
S auto	S fontname	
S shrink	S format	
S step	S fullname	
S stretch	S hasitalics	
S extendfactor	S hasmath	
S factor	S mathitalics	
S hfactor	S mode	
S mathsize	S name	
T protrusion	S noglyphnames	
S auto	S nostackmath	
S quad	S psname	
S scaledpoints	S textitalics	
S scriptpercentage	S virtualized	
S scriptscriptpercentage	D loadedfonts	
S size	S namemode	
S slantfactor	F newfeatures	
S slantperpoint	F newhandler	
T spacing	N noffontsloaded	
S extra	N nofsharedfonts	
S shrink	N nofsharedhashes	
S stretch	N nofsharedvectors	
S width	N privateoffset	
T synonyms	F readanddefine	
S em	F registerfeature	
S ex	B resolvevirtualtoo	
S extra_space	F scale	
S extraspace	F scaled	
S slant	F setfactor	
S space	F setname	
S space_shrink	B sharefonts	
S space_stretch	F trytosharefont	
S spaceshrink	N version	
S spacestretch	<b>current</b>	function
S x_height	<b>currentid</b>	function
S units	<b>definers</b>	table
S vfactor	F addlookup	
S xheight	F analyze	
T properties	F applypostprocessors	
S autoitalicamount	F checkedmode	

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

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

N hamzaarabic	N holamhebrew
N hamzadammaarabic	N holamnarrowhebrew
N hamzadammatanarabic	N holamquarterhebrew
N hamzafathaarabic	N ilde
N hamzafathatanarabic	N integralbottom
N hamzalowarabic	N integraltop
N hamzalowkasraarabic	N kaf
N hamzalowkasratanarabic	N kafdagesh
N hatafpatah	N kashidaautoarabic
N hatafpatah16	N kashidaautonosidebearingarabic
N hatafpatah23	N kcedilla
N hatafpatah2f	N lamed
N hatafpatahhebrew	N lameddagesh
N hatafpatahnarrowhebrew	N lamedhebrew
N hatafpatahquarterhebrew	N lamedholam
N hatafqamats	N lamedholamdagesh
N hatafqamats1b	N lamedholamdageshhebrew
N hatafqamats28	N laminitialarabic
N hatafqamats34	N lammeemjeeminitialarabic
N hatafqamatshebrew	N lcedilla
N hatafqamatsnarrowhebrew	N logicalnotreversed
N hatafqamatsquarterhebrew	N mahapakhhebrew
N hatafsegol	N mem
N hatafsegol17	N memdagesh
N hatafsegol24	N merkhahebrew
N hatafsegol30	N merkhakefulahebrew
N hatafsegolhebrew	N middot
N hatafsegolnarrowhebrew	N munahhebrew
N hatafsegolquarterhebrew	N nbspace
N he	N ncedilla
N hedagesh	N newsheqelsign
N hefinalalttwoarabic	N ninearabic
N het	N noonhehinitialarabic
N hiriq	N nun
N hiriq14	N nundagesh
N hiriq21	N odblacute
N hiriq2d	N onearabic
N hiriqhebrew	N overscore
N hiriqnarrowhebrew	N patah
N hiriqqarterhebrew	N patah11
N holam	N patah1d
N holam19	N patah2a
N holam26	N patahhebrew
N holam32	N patahnarrowhebrew

N patahquarterhebrew

N pe

N pedagesh

N qamats

N qamats10

N qamats1a

N qamats1c

N qamats27

N qamats29

N qamats33

N qamatsde

N qamatshebrew

N qamatsnarrowhebrew

N qamatsqatanhebrew

N qamatsqatannarrowhebrew

N qamatsqatanquarterhebrew

N qamatsqatanwidehebrew

N qamatsquarterhebrew

N qof

N qofdagesh

N qofhatafpatah

N qofhatafpatahhebrew

N qofhatafsegol

N qofhatafsegolhebrew

N qofhebrew

N qofhiriq

N qofhiriqhebrew

N qofholam

N qofholamhebrew

N qofpatah

N qofpatahhebrew

N qofqamats

N qofqamatshebrew

N qofqubuts

N qofqubutshebrew

N qofsegol

N qofsegolhebrew

N qofsheva

N qofshevahebrew

N qoftsere

N qubuts

N qubuts18

N qubuts25

N qubuts31

N qubutshebrew

N qubutsnarrowhebrew

N qubutsquarterhebrew

N quotelleftreversed

N rafe

N rcedilla

N reharabic

N resh

N reshhatafpatah

N reshhatafpatahhebrew

N reshhatafsegol

N reshhatafsegolhebrew

N reshhebrew

N reshhiriq

N reshhiriqhebrew

N reshholam

N reshholamhebrew

N reshpatah

N reshpatahhebrew

N reshqamats

N reshqamatshebrew

N reshqubuts

N reshqubutshebrew

N reshsegol

N reshsegolhebrew

N reshsheva

N reshshevahebrew

N reshtsere

N reviahebrew

N samekh

N samekhdagesh

N segol

N segol13

N segol1f

N segol2c

N segolhebrew

N segolnarrowhebrew

N segolquarterhebrew

N sevenarabic

N sfthyphen

N shaddaarabic

N sheqel

N sheva

N sheva115



N sheva15	N zayin	
N sheva22	N zayindagesh	
N sheva2e	N zdot	
N shevahebrew	N zeroarabic	
N shevanarrowhebrew	D unicodes	
N shevaquarterhebrew	D cache	
N shin	F is_known	
N shindagesh	D known	
N shindageshshindot	F load	
N shindageshsindot	F make_unicode_vector	
N shinshindot	D math	
N shinsindot	N version	
N siluqhebrew	<b>expansions</b>	data table
N sixarabic	<b>formats</b>	data table
N tav	<b>goodies</b>	table
N tavadages	D colorschemes	
N tavadagesh	D data	
N tcedilla	D designsizes	
N tchehinitialarabic	D filenames	
N tet	F getcompositions	
N tetdagesh	T list	
N tevirhebrew	F compositions	
N thousandsseparatorarabic	F designsizes	
N threearabic	F expansions	
N tildecmb	F featureset	
N tipehahebrew	F filenames	
N tsadi	F files	
N tsadidagesh	F mathematics	
N tsere	F protrusions	
N tsere12	F solutions	
N tsere1e	F treatments	
N tsere2b	F typefaces	
N tserehebrew	F load	
N tserenarrowhebrew	F prepare_features	
N tserequarterhebrew	F register	
N twoarabic	F registerpostprocessor	
N udblacute	F report	
N vav	<b>handlers</b>	table
N vavdagesh	T afm	
N vavdagesh65	B addkerns	
N vavholam	B addligatures	
N yerahbenyomohebrew	B addtexligatures	
N yod	B autoprefixed	
N yoddagesh	D cache	

D features	F gsub_multiple
T helpdata	F gsub_reversecontextchain
D bothkerned	F gsub_single
D leftkerned	F load
D ligatures	F scriptandlanguage
D rightkerned	F setcontextchain
D texligatures	F setdynamics
F load	F setfeatures
F setfeatures	T statistics
B syncspace	D usedfeatures
N version	T tables
T otf	D baselines
F addfeature	D features
D cache	D languages
T chainhandlers	D scripts
F normal	N version
F verbose	T pfb
F collectlookups	T tfm
F dataset	D features
S defaultbasealternate	F setfeatures
S defaultnodealternate	T vf
D enhancers	T combinations
D features	F combine
F fileformat	T combiner
F getalternate	D commands
T glists	F find
T handlers	D helpers
F contextchain	D math
F devanagari_remove_joiners	D predefined
F devanagari_reorder_matras	D whatever
F devanagari_reorder_pre_base_reordering_consonants	<b>hashes</b>
F devanagari_reorder_reph	<b>table</b>
F gpos_context	D characters
F gpos_contextchain	D csnames
F gpos_cursive	D descriptions
F gpos_mark2base	D dynamics
F gpos_mark2ligature	D emwidths
F gpos_mark2mark	D exheights
F gpos_pair	D extensibles
F gpos_single	D features
F gsub_alternate	D identifiers
F gsub_context	D italics
F gsub_contextchain	D lastmathids
F gsub_ligature	D marks
	D originals

D parameters  
T processes  
D properties  
D quads  
D resources  
T setdynamics  
D spaces  
D spacings  
D unicodes  
D xheights  
**helpers**            table

F addprivate  
F dimenfactor  
F expandglyph  
F fontpatternhassize  
F getdigitwidth  
F getparameters  
F getprivatenode  
F hasprivate  
F indextoslot  
F name  
F nametoslot  
F setdigitwidth  
F splitfontpattern  
F tochar

**iterators**            table

F characters  
F descriptions  
F glyphs

**loggers**            table

F add\_placeholders  
T category\_to\_placeholder  
S ll  
S lm  
S lo  
S lt  
S lu  
S mc  
S me  
S mn  
S nd  
S nl  
S no  
S pc

S pd  
S pe  
S pf  
S pi  
S po  
S ps  
S sc  
S sk  
S sm  
S so  
F format  
F onetimemessage  
F register  
F reportdefinedfonts  
F reportusedfeatures

**mappings**            table

F addtounicode  
F fromunicode16  
F loadfile  
F loadline  
F loadlumtable  
F makenameparser  
T overloads  
T IJ  
N mess  
S name  
T unicode  
T I\_J  
N mess  
S name  
T unicode  
T f\_f  
N mess  
S name  
T unicode  
T f\_f\_i  
N mess  
S name  
T unicode  
T f\_f\_l  
N mess  
S name  
T unicode  
T f\_i

N mess  
 S name  
 T unicode  
 T f\_j  
 S name  
 T unicode  
 T f\_k  
 S name  
 T unicode  
 T f\_l  
 N mess  
 S name  
 T unicode  
 T ff  
 N mess  
 S name  
 T unicode  
 T ffi  
 N mess  
 S name  
 T unicode  
 T ffl  
 N mess  
 S name  
 T unicode  
 T fi  
 N mess  
 S name  
 T unicode  
 T fj  
 S name  
 T unicode  
 T fk  
 S name  
 T unicode  
 T fl  
 N mess  
 S name  
 T unicode  
 T i\_j  
 N mess  
 S name  
 T unicode  
 T ij

N mess  
 S name  
 T unicode  
 F reset  
 F tounicode  
 F tounicode16  
 F tounicode16sequence  
**mp** **table**  
 D cache  
 B inline  
 N version  
**names** **data table**  
**nulldata** **data table**  
**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  
**select** **table**  
 T data  
 F definetypeface  
 T fallbacks  
 F filterinput  
 T methods  
 F default  
 F features  
 F file  
 F goodies  
 F name  
 F selectfont  
 F simplefonts  
 F spec  
 F style  
 F registerfallback  
 F searchfiles

**specifiers**            table

- D contextmerged
- F contextnumber
- D contextnumbers
- D contextsetups
- F contexttostring
- F definecontext
- F mergecontext
- F presetcontext
- F registercontext
- F showcontext
- F splitcontext
- D synonyms
- D variants

**symbols**            table

- F uselibrary

**tables**            table

**tracers**            table

**treatments**        table

- F applyfixes
- D data
- S filename
- F ignoredfile
- F report
- F trace

**typefaces**        data table

# functions (context)

**dummy** function

# graphics (context)

## **backgrounds** table

F calculatemultipar

F fetchmultipar

F pair

F path

F point

## gzip (extra lua)

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



## img (basic tex)

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

# interactions (context)

**attachments** data table

**fields** table

F clone

F define

F defineset

F insert

**general** table

F getidentity

F setupidentity

**help** table

F collect

F reference

F register

**javascripts** table

F addtopreamble

F code

D codes

F flushpreambles

D functions

D preambles

F setpreamble

F storecode

F storepreamble

F usepreamblenow

F usescripts

**linkedlists** data table

**pages** table

F setpagetransition

F setupcanvas

**references** table

F setcloseddocument

F setclosepage

F setopendocument

F setopenpage

**renderings** data table

**soundclips** data table

# interfaces (context)

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

## io (basic lua)

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

# jit (context)

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

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

<b>version</b>	string
<b>version_num</b>	number

# job (context)

**comment** function  
**datasets** table

D collected  
F extend  
F getdata  
F setdata  
D tobesaved

**disablesave** function  
**files** table

D collected  
F context  
B forcerun  
F run  
D tobesaved

**initialize** function  
**load** function  
**loadother** function  
**objects** table

D collected  
F get  
F number  
F page  
F save  
F set  
D tobesaved

**pack** boolean  
**packversion** number  
**pagestates** table

D collected  
F extend  
F realpage  
F setstate  
D tobesaved

**passes** table

F check  
D collected  
F count  
F define  
F find  
F first  
F get

F getcollected  
F getdata  
F getfield  
F gettobesaved  
F inlist  
F last  
F list  
F save  
F savetagged  
D tobesaved

**positions** table

F b\_col  
F b\_region  
F c  
D collected  
F column  
F copy  
F depth  
F e\_col  
F e\_region  
F enhance  
F extra  
F get  
F getreserved  
F hangafter  
F hangindent  
F height  
F hsize  
F leftskip  
F lowerleft  
F lowerright  
F markregionbox  
F n  
F onsamepage  
F overlapping  
F p  
F page  
F paragraph  
F parindent  
F position  
F r

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

## lang (basic tex)

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



# languages (context)

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

# layouts (context)

**status** table

F isleftpage

F leftorrightpagection

## lfs (extra lua)

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

## libraries (context)

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

# lmx (context)

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

F a

F td

F th

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

S color-background-four

S color-background-one

S color-background-three

S color-background-two

S title

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

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

S color-background-blue

S color-background-body

S color-background-green

S color-background-main

S color-background-purple

S color-background-yellow

S title-default

# logs (context)

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

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

# lpdf (context)

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

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



## lpeg (basic lua)

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

# ltn12 (extra lua)

**BLOCKSIZE** number

**filter** table

F chain

F cycle

**pump** table

F all

F step

**sink** table

F chain

F error

F file

F null

F simplify

F table

**source** table

F cat

F chain

F empty

F error

F file

F rewind

F simplify

F string

## lua (basic tex)

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

# luatex (context)

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

# lxml (context)

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

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

## math (basic lua)

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

# mathematics (context)

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



## mbox (context)

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

## md5 (extra lua)

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

# metapost (context)

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

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

## mime (extra lua)

**b64** function

**decode** function

**decodet** table

F base64

F quoted-printable

**dot** function

**encode** function

**encodet** table

F base64

F quoted-printable

**eol** function

**normalize** function

**qp** function

**qpwrp** function

**stuff** function

**unb64** function

**unqp** function

**wrap** function

**wrapt** table

F base64

F default

F quoted-printable

F text

**wrp** function

## mp (context)

<b>_f_</b>	function
<b>boolean</b>	function
<b>format</b>	function
<b>number</b>	function
<b>numeric</b>	function
<b>pair</b>	function
<b>print</b>	function
<b>quadruple</b>	function
<b>quoted</b>	function
<b>string</b>	function
<b>triplet</b>	function

## mplib (extra tex)

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

# noads (context)

**handlers**      table

- F check
- F classes
- F collapse
- F families
- F italics
- F relocate
- F render
- F resize
- F showtree
- F tags
- F unscript
- F variants

**process**          function

**processors**    table

- T collapse
- F mlist\_to\_hlist
- T relocate
- T render
- T resize
- T unscript



## node (basic tex)

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

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

## nodes (context)

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

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

F getsubtype	F pdfsave
F has_attribute	F pdfsetmatrix
F has_field	F penalty
F has_glyph	F register
F hpack	F rightmarginkern
F insert_after	F rightskip
F insert_before	F rule
F insert_list_after	F shrink
F is_direct	F special
F is_display_math	F stretch
F is_node	F temp
F is_nut	F textdir
F kerning	F usage
F last_node	T userids
F leftmarginwidth	N margins.inline
F ligaturing	N property
F link	N splitters.one
F linked	N splitters.two
F locate	F userlist
F mlist_to_hlist	F usernumber
F nestedtracedslide	F userstring
F new	F usertokens
T pool	F vlist
F baselineskip	F zeroglue
F cleanup	F prepend
F disc	F protect_glyphs
F fontkern	F protrusion_skippable
F glue	F reference
F gluespec	F remove
F glyph	F repackhlist
F hlist	F replace
F kern	F rightmarginwidth
F latelua	F set_attribute
F lateluafunction	F setattr
F leftmarginkern	F setattrtribute
F leftskip	F setattrtributes
F lineskip	F setbox
F negatedglue	F setfield
F noad	F setprop
F pdfannotation	F setunsetattributes
F pdfdestination	F slide
F pdfdirect	F somepenalty
F pdfliteral	F somespace
F pdfrestore	F tail

F takebox		F register	
F tonode		D registered	
F tonodes		D values	
F tonut		F processor	
F tosequence		<b>points</b>	function
F tostring		<b>pool</b>	table
F tracedslide		F baselineskip	
F traverse		F cleanup	
F traverse_id		F glyph	
T typesetters		F kern	
F fast_hpack		F latelua	
F hpack		F lateluafunction	
F tohpack		F lineskip	
F tohpackfast		F pdfdirect	
F tonodes		F pdfliteral	
F tovpack		F pdfrestore	
F tovpackfast		F pdfsave	
F vpack		F pdfsetmatrix	
F unprotect_glyphs		F register	
F unset_attribute		F rule	
F unsetattribute		F special	
F unsetattributes		F usage	
F untracedslide		T userids	
F usedlist		N margins.inline	
F vianodes		N property	
F vianuts		N splitters.one	
F vpack		N splitters.two	
F writable_spec		F usernumber	
F write		<b>prepend</b>	function
<b>packlist</b>	function	<b>print</b>	function
<b>pardir_is_equal</b>	data table	<b>processors</b>	table
<b>pardir_is_opposite</b>	data table	B enabled	
<b>pardir_is_parallel</b>	data table	F hpack_filter	
<b>partextdir_is_equal</b>	data table	F post_linebreak_filter	
<b>penaltycodes</b>	data table	F pre_linebreak_filter	
<b>plugindata</b>	table	F tracer	
F finalizer		<b>processwords</b>	function
F initializer		<b>properties</b>	table
S name		T actions	
T namespace		F delayed	
N attribute		F fdelayed	
D data		F immediate	
F enable		F attach	
F handler		T data	

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

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



## number (context)

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

## os (basic lua)

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

## package (basic lua)

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

# pagebuilders (context)

## **injections**    table

F flushafter  
F flushbefore  
F save

## **mixedcolumns**    table

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

## pattern (context)

- 1 userdata
- 2 userdata
- 3 userdata

## pdf (basic tex)

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

# pdfscanner (context)

**scan** function

# physics (context)

**units** table

D tables



## profiler (extra lua)

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

# publications (context)

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

**singularorplural**      function

**statistics**              table

  N nofbytes

  N nofdatasets

  N nofdefinitions

  N nofshortcuts

**tracers**                table

  T categories

  D citevariants

  D listvariants

  F showdatasetcompleteness

  F showdatasetfields

  F showfields

**usedentries**            function

**writers**                table

  F author

## regimes (context)

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

# resolvers (context)

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

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

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

# scripts (context)

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

**categorytonumber** data table

**colors**            data table

**decomposehangul**   function

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

**handlers**          data table

**hash**              table

**injectors**         data table

**installdataset**    function

**installmethod**    function

**numbertocategory** data table

**numbertodataset**   data table

**numbertohandler**   data table

**reset**             function

**set**                function

**splitters**         data table



## set (context)

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

# socket (extra lua)

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

F getaddrinfo  
F gethostname  
F getnameinfo  
F tohostname  
F toip

**ftp** table

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

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

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

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

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

## http table

N PORT  
 N TIMEOUT  
 S USERAGENT  
 F open  
 F request

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

## sinkt table

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

## skip function

## sleep function

## smtp table

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

## source function

## sourcet table

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

## tcp function

## tcp6 function

## tp table

N TIMEOUT  
 F connect

## try function

## udp function

## udp6 function

## url table

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

# sorters (context)

**basicsorter**      function

**comparers**        table

    F basic

**constants**        table

    S defaultdigits

    S defaultlanguage

    S defaultmethod

    N digitmaximum

    N digitsoffset

    N ignoredoffset

    N replacementoffset

    T validmethods

        B ch

        B mc

        B mm

        B pc

        B pm

        B uc

        B zc

        B zm

**definitions**      data table

**firstofsplit**     function

**setlanguage**     function

**sort**             function

**splitters**        table

    F utf

**strip**            function

**tracers**         data table

**update**          function

## statistics (context)

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

status (basic tex)

**list** function

## storage (context)

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

## streams (context)

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



## string (basic lua)

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

# structures (context)

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

## inserts

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

## table

## itemgroups

F maxwidth  
F nofitems  
F register

## table

## lists

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

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

## marks

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

## table

## notes

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

## table

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

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

## registers

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

## table

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

## table

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

## table (basic lua)

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

## tex (basic tex)

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



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

## texconfig (basic tex)

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

## texio (basic tex)

`write`      function

`write_nl`   function

## token (basic tex)

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

# tokens (context)

**bgroup**        table

**collectors** table

  T data

  F defaultwords

  F dowithwords

  F flush

  F handle

  F install

  F register

  T registered

  T remapper

    F convert

    T data

    F store

  F show

  T show\_methods

    F a

    F b

    F c

  F showtoken

  F test

  F trace

**egroup**        table

**hbox**         table

**letter**       function

**letters**      function

**other**        function

**vbox**         table

**vtop**         table

# tracers (context)

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

## trackers (context)

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

# typesetters (context)

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



F Word	F initialize_reflow_height
F Words	F initialize_reflow_width
F abbreviatedjournal	F next_row
F expandedjournal	F reflow_height
F lowercase	F reflow_width
F stripperperiod	F set_construct
F uppercase	F set_reflow_height
T patterns	F set_reflow_width
U list	
U pair	
F splitspecification	

## **margins**                      table

F finalhandler
F globalhandler
F ha
F localhandler
F save

## **processors**                      table

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

## **spacings**                      table

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

## **xtables**                      table

F cleanup
F construct
F create
F flush
F initialize_construct

# unicode (extra lua)

## ascii table

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

## grapheme table

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

## latin1 table

F byte  
F char  
F dump  
F find  
F format  
F gfind  
F gmatch  
F gsub

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

## utf8 table

F byte  
F char  
F characters  
F chrln  
F count  
F dump  
F filetype  
F find  
F format  
F gfind  
F gmatch  
F gsub  
F is\_valid  
F len  
F length  
F lower  
F magic  
F match  
F remapper  
F rep  
F replacer  
F reverse  
F split  
F splitlines  
F sub  
F subtituter  
F tocodes  
F toeight  
F toentities  
F toString  
F totable  
F upper  
F ustring

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

## url (context)

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

# utilities (context)

## debugger table

F disable  
F enable  
F savestats  
F showstats  
F showtraceback

## formatters table

F formatcolumns  
F list  
F stripzeros

## garbagecollector table

F check  
N criterium  
B enabled

## lua table

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

## packers table

F hashed  
F new  
F pack  
F simplehashed  
F strip  
F unpack

N version

## parsers table

F add\_settings\_to\_array  
F arguments\_to\_table  
F array\_to\_string  
F csvsplitter  
F getparameters  
F hash\_to\_string  
F iterator  
F keq\_to\_hash  
F listitem  
F make\_settings\_to\_hash\_pattern  
F mergehashes  
F options\_to\_hash  
T patterns  
U settings\_to\_array  
U settings\_to\_hash\_a  
U settings\_to\_hash\_b  
U settings\_to\_hash\_c  
U unittotex  
F process\_stripped\_settings  
F rfc4180splitter  
F runtime  
F settings\_to\_array  
F settings\_to\_array\_with\_repeat  
F settings\_to\_hash  
F settings\_to\_hash\_strict  
F settings\_to\_hash\_tolerant  
F settings\_to\_set  
F simple\_hash\_to\_string  
F splitmethod  
F splitthousands  
F stepper  
F stripped\_settings\_to\_array  
F unittotex  
F unittotxml

## report function

## sequencers table

F appendaction  
F appendgroup  
F compile

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

## vf (context)

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

## visualizers (context)

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



# xml (context)

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

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

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

## zip (extra lua)

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

## zlib (extra lua)

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