

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 **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	getreadfilename	function
caches	table	global	table
callback	table	graphics	table
callbacks	table	gzip	table
catcodes	table	img	table
characters	table	inspect	function
chemistry	table	interactions	table
collectgarbage	function	interfaces	table
commands	table	io	table
containers	table	ipairs	function
context	function	jit	table
context_applyprocessor	function	job	table
context_firstofoneargument	function	lang	table
converters	table	languages	table
coroutine	table	layouts	table
ctxrunner	table	lfs	table
debug	table	libraries	table
delta	number	lmx	table
dimen	function	lmxconvert	function
dir	table	lmxnew	function
directives	table	load	function
document	table	loadfile	function
documentdata	table	loadstring	function
dofile	function	logs	table
endpage	function	lp_fastpos_n	userdata

lp_fastpos_p	userdata	rawlen	function
lpdf	table	rawset	function
lpeg	table	regimes	table
ltn12	table	report_characters	function
lua	table	require	function
luatex	table	resolve_fences	function
lxml	table	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	toboollean	function
pairs	function	token	table
parametersets	table	tokens	table
pattern	userdata	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
publications	table	url	table
rawequal	function	userdata	table
rawget	function	utf	table

utilities	table
vf	table
visualizers	table
xml	table
xmlconvert	function
xpcall	function
zip	table
zlib	table

# attributes (context)

## colorintents table

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

## colors table

- N attribute
- F cmyk
- F cmyktogray
- F cmyktorgb
- F colorcomponents
- B couple
- D data
- N default
- F defineintermediatecolor
- F definemixcolor
- F definemultitonecolor
- F defineprocesscolor
- F definesimplegray
- F definespotcolor
- F definetransparency
- F enable
- F filter
- F forcedmodel
- F forcesupport
- F formatcolor
- F formatgray
- F gray
- F graytohsv
- F handler
- F 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_step
D registered		D scopes
<b>numbers</b>	data table	F setfeatures
<b>ofnode</b>	function	F start
<b>private</b>	function	F stop
<b>public</b>	function	B supported
<b>showcurrent</b>	function	D values
<b>states</b>	table	
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 getdefaultfieldvalue

F getfieldcategory

F getfieldset

F getformatoption

F gethpos

F getmatrix

F getoutputfilename

F getpos

F getpreviewfigure

F getvpos

F hasmatrix

F insertrenderingwindow

F mergereferences

F mergeviewerlayers

F prerollreference

F presetsymbol

F presetsymbollist

F processrendering

F registerdocumentcloseaction

F registerdocumentopenaction

F registeredsymbol

F registerpagecloseaction

F registerpageopenaction

F registersymbol

F setfieldcalculationset

F setfigurealternative

F setfigurecolorspace

F setfiguremask

F setformat

F setformsmethod

F setpagetransition

F setupcanvas

F setupidentity

F setxmpfile

F startlayer

F stoplayer

F supportedformats

F 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)

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

# characters (context)

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

## 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>assignbuffer</b>	function
<b>Character</b>	function	<b>attachproperty</b>	function
<b>Characters</b>	function	<b>autofinishstructurelevels</b>	function
<b>MPc</b>	function	<b>autonextspace</b>	function
<b>MPd</b>	function	<b>autonextstructurelevel</b>	function
<b>MPh</b>	function	<b>autosetups</b>	function
<b>MPll</b>	function	<b>autostarttext</b>	function
<b>MPlr</b>	function	<b>autostoptext</b>	function
<b>MPls</b>	function	<b>averagecharwidth</b>	function
<b>MPn</b>	function	<b>bcolumn</b>	function
<b>MPp</b>	function	<b>boolcase</b>	function
<b>MPpardata</b>	function	<b>boxtostring</b>	function
<b>MPplus</b>	function	<b>btxauthor</b>	function
<b>MPpos</b>	function	<b>btxcitevariant</b>	function
<b>MPposset</b>	function	<b>btxcollectlistentries</b>	function
<b>MPr</b>	function	<b>btxdestination</b>	function
<b>MPrest</b>	function	<b>btxdetail</b>	function
<b>MPrs</b>	function	<b>btxdoif</b>	function
<b>MPul</b>	function	<b>btxdoifelse</b>	function
<b>MPur</b>	function	<b>btxdoifelselistentryplaced</b>	function
<b>MPw</b>	function	<b>btxdoifnot</b>	function
<b>MPx</b>	function	<b>btxfetchlistentries</b>	function
<b>MPxy</b>	function	<b>btxfield</b>	function
<b>MPxywhd</b>	function	<b>btxflush</b>	function
<b>MPy</b>	function	<b>btxflushlistentries</b>	function
<b>Romannumerals</b>	function	<b>btxhandlecite</b>	function
<b>abjadnodotnumerals</b>	function	<b>btxhandlenocite</b>	function
<b>abjadnumerals</b>	function	<b>btxlistvariant</b>	function
<b>addbtxentry</b>	function	<b>btxreference</b>	function
<b>addcounter</b>	function	<b>btxregisterlistentry</b>	function
<b>addlinklistelement</b>	function	<b>btxresolvelistreference</b>	function
<b>addreplacements</b>	function	<b>btxsetlistmethod</b>	function
<b>addtojavascriptpreamble</b>	function	<b>btxsingularorplural</b>	function
<b>addtolist</b>	function	<b>buildtextaccent</b>	function
<b>allinputpaths</b>	function	<b>character</b>	function
<b>alphabetic</b>	function	<b>characters</b>	function
<b>analysefloatmethod</b>	function	<b>chardescription</b>	function
<b>analyzelist</b>	function	<b>checkcharactersinfont</b>	function
<b>applytochars</b>	function	<b>checkcountersetup</b>	function
<b>applytofirstcharacter</b>	function	<b>checkedconversion</b>	function
<b>applytowords</b>	function	<b>checkedpagefloat</b>	function

<b>checktwopassdata</b>	function	<b>definefieldset</b>	function
<b>chemicalcomponent</b>	function	<b>definefilefallback</b>	function
<b>chineseallnumerals</b>	function	<b>definefilesynonym</b>	function
<b>chinesecapnumerals</b>	function	<b>definefont_one</b>	function
<b>chinesenumerals</b>	function	<b>definefont_two</b>	function
<b>cleanfontname</b>	function	<b>definefontfamily</b>	function
<b>cleanupbox</b>	function	<b>definefontfeature</b>	function
<b>cleanuplayers</b>	function	<b>definefontsolution</b>	function
<b>clonefield</b>	function	<b>defineinsertion</b>	function
<b>collectfloat</b>	function	<b>defineintermediatecolor</b>	function
<b>collecthelp</b>	function	<b>definelabels</b>	function
<b>colorcomponents</b>	function	<b>definelanguage</b>	function
<b>concatcommalist</b>	function	<b>definelinkedlist</b>	function
<b>consultfloat</b>	function	<b>definemarking</b>	function
<b>convertbtxdatasettoxml</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>countvalue</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>defineattribute</b>	function	<b>depthnumber</b>	function
<b>definebreakpoint</b>	function	<b>digits</b>	function
<b>definebreakpoints</b>	function	<b>disableautofontscript</b>	function
<b>definecatcodetable</b>	function	<b>disableparbuilder</b>	function
<b>definecharacterspacing</b>	function	<b>disableregime</b>	function
<b>definechemical</b>	function	<b>disablespellchecking</b>	function
<b>defineconversion</b>	function	<b>discardfromlist</b>	function
<b>definecounter</b>	function	<b>doanalyzeframedbox</b>	function
<b>definedviewerlayer</b>	function	<b>doif</b>	function
<b>definefallbackfamily</b>	function	<b>doifblackelse</b>	function
<b>definefield</b>	function	<b>doifcommonelse</b>	function

<b>doifcounter</b>	<b>function</b>	<b>doifposition</b>	<b>function</b>
<b>doifdimenstringelse</b>	<b>function</b>	<b>doifpositionelse</b>	<b>function</b>
<b>doifdrawingblackelse</b>	<b>function</b>	<b>doifpositiononpage</b>	<b>function</b>
<b>doifelse</b>	<b>function</b>	<b>doifpositionsonsamepageelse</b>	<b>function</b>
<b>doifelsebuffer</b>	<b>function</b>	<b>doifpositionsonthispageelse</b>	<b>function</b>
<b>doifelsecontinewithfile</b>	<b>function</b>	<b>doifurldefinedelse</b>	<b>function</b>
<b>doifelsecounter</b>	<b>function</b>	<b>doprocstypescriptfile</b>	<b>function</b>
<b>doifelsecurrentfonthasfeature</b>	<b>function</b>	<b>doreshapeframedbox</b>	<b>function</b>
<b>doifelseintwopassdata</b>	<b>function</b>	<b>dostarttextfile</b>	<b>function</b>
<b>doifelsemarking</b>	<b>function</b>	<b>dostoptextfile</b>	<b>function</b>
<b>doifelsemessage</b>	<b>function</b>	<b>ecolumn</b>	<b>function</b>
<b>doifelsemultipar</b>	<b>function</b>	<b>elapsedtime</b>	<b>function</b>
<b>doifelseparallel</b>	<b>function</b>	<b>enableautofontscript</b>	<b>function</b>
<b>doifelsepositionsused</b>	<b>function</b>	<b>enablecolor</b>	<b>function</b>
<b>doifelserangeonpage</b>	<b>function</b>	<b>enablecolorintents</b>	<b>function</b>
<b>doifelserreference</b>	<b>function</b>	<b>enablefontcolorschemas</b>	<b>function</b>
<b>doifelsesavedfloat</b>	<b>function</b>	<b>enableparbuilder</b>	<b>function</b>
<b>doifelsespaces</b>	<b>function</b>	<b>enableregime</b>	<b>function</b>
<b>doifelseutfmathabove</b>	<b>function</b>	<b>enablespellchecking</b>	<b>function</b>
<b>doifelseutfmathaccent</b>	<b>function</b>	<b>enabletransparency</b>	<b>function</b>
<b>doifelseutfmathbelow</b>	<b>function</b>	<b>enhancelinkedlist</b>	<b>function</b>
<b>doifelsevisualizer</b>	<b>function</b>	<b>enhancelist</b>	<b>function</b>
<b>doiffielddcategoryelse</b>	<b>function</b>	<b>enhancereference</b>	<b>function</b>
<b>doiffielddelse</b>	<b>function</b>	<b>enhanceregister</b>	<b>function</b>
<b>doiffielddsetelse</b>	<b>function</b>	<b>erasebuffer</b>	<b>function</b>
<b>doiffiledefinedelse</b>	<b>function</b>	<b>expandcurrentreference</b>	<b>function</b>
<b>doiffileexistelse</b>	<b>function</b>	<b>exportformdata</b>	<b>function</b>
<b>doiffirstcharelse</b>	<b>function</b>	<b>exportreferences</b>	<b>function</b>
<b>doifinputfileelse</b>	<b>function</b>	<b>extendregister</b>	<b>function</b>
<b>doifinsetelse</b>	<b>function</b>	<b>extensiblecode</b>	<b>function</b>
<b>doifleapyearelse</b>	<b>function</b>	<b>feature</b>	<b>function</b>
<b>doiflisthasentry</b>	<b>function</b>	<b>featureattribute</b>	<b>function</b>
<b>doiflisthasnumberelse</b>	<b>function</b>	<b>featurelist</b>	<b>function</b>
<b>doiflisthaspageelse</b>	<b>function</b>	<b>feedback</b>	<b>function</b>
<b>doiflisthastitleelse</b>	<b>function</b>	<b>fetchallmarks</b>	<b>function</b>
<b>doiflocfileelse</b>	<b>function</b>	<b>fetchmultipar</b>	<b>function</b>
<b>doifnot</b>	<b>function</b>	<b>fetchmultishape</b>	<b>function</b>
<b>doifnotcounter</b>	<b>function</b>	<b>fetchonemark</b>	<b>function</b>
<b>doifnotecontent</b>	<b>function</b>	<b>fetchposboxes</b>	<b>function</b>
<b>doifnoteonsamepageasprevious</b>	<b>function</b>	<b>fetchtwomarks</b>	<b>function</b>
<b>doifobjectreferencefoundelse</b>	<b>function</b>	<b>figurefilename</b>	<b>function</b>
<b>doifolderversionelse</b>	<b>function</b>	<b>figurefilepath</b>	<b>function</b>
<b>doifoverlappingelse</b>	<b>function</b>	<b>figurefiletype</b>	<b>function</b>
<b>doifparentfileelse</b>	<b>function</b>	<b>figurerequest</b>	<b>function</b>

<b>figurestatus</b>	function	<b>getfloatvariable</b>	function
<b>figureused</b>	function	<b>getfullsectionnumber</b>	function
<b>figurevariable</b>	function	<b>getinternallistreference</b>	function
<b>filterdefaultreference</b>	function	<b>getinternalreference</b>	function
<b>filterreference</b>	function	<b>getlasttwopassdata</b>	function
<b>finalizebox</b>	function	<b>getmarking</b>	function
<b>findtwopassdata</b>	function	<b>getmessage</b>	function
<b>firstcountervalue</b>	function	<b>getmpextensions</b>	function
<b>firstinset</b>	function	<b>getnotestate</b>	function
<b>flushfloat</b>	function	<b>getplaceholderchar</b>	function
<b>flushnotes</b>	function	<b>getprivatechar</b>	function
<b>flushpostponedblocks</b>	function	<b>getprogram</b>	function
<b>flushpostponednotes</b>	function	<b>getrandomcounta</b>	function
<b>fontchar</b>	function	<b>getrandomcountb</b>	function
<b>fontcollectionclone</b>	function	<b>getrandomseed</b>	function
<b>fontcollectiondefine</b>	function	<b>getreadfilename</b>	function
<b>fontcollectionprepare</b>	function	<b>getsectionnumber</b>	function
<b>fontcollectionregister</b>	function	<b>getstructuredata</b>	function
<b>fontcollectionreport</b>	function	<b>getsubstring</b>	function
<b>fontcollectionreset</b>	function	<b>gettexbuffer</b>	function
<b>fontlookupgetkey</b>	function	<b>gettwopassdata</b>	function
<b>fontlookupgetkeyofindex</b>	function	<b>gettwopassdatalist</b>	function
<b>fontlookupinitialize</b>	function	<b>geturl</b>	function
<b>fontlookupnofound</b>	function	<b>grabbuffer</b>	function
<b>forceendjob</b>	function	<b>hboxtovbox</b>	function
<b>forcequitjob</b>	function	<b>helpaction</b>	function
<b>format</b>	function	<b>helpreference</b>	function
<b>formatcolor</b>	function	<b>hexstringtonumber</b>	function
<b>formatgray</b>	function	<b>horizontalcode</b>	function
<b>freezerandomseed</b>	function	<b>hour</b>	function
<b>from</b>	function	<b>hyphenatedlist</b>	function
<b>getbidimode</b>	function	<b>hyphenatedurl</b>	function
<b>getbuffer</b>	function	D characters	
<b>getbufferctxlua</b>	function	N lefthyphenmin	
<b>getbuffermkvi</b>	function	D mapping	
<b>getcommandline</b>	function	N righthyphenmin	
<b>getctxfile</b>	function	F setcharacters	
<b>getcurrentprefixspec</b>	function	<b>immediateproperty</b>	function
<b>getcurrentreferencemetadata</b>	function	<b>incrementedcounter</b>	function
<b>getcurrentsectionlevel</b>	function	<b>initializetexdirectives</b>	function
<b>getdefaultfieldvalue</b>	function	<b>initializetextrackers</b>	function
<b>getfieldcategory</b>	function	<b>injectcurrentreference</b>	function
<b>getfirstcharacter</b>	function	<b>injectreference</b>	function
<b>getfirsttwopassdata</b>	function	<b>inlinechemical</b>	function



<b>insertattachment</b>	function	<b>mixcleanup</b>	function
<b>insertcomment</b>	function	<b>mixfinalize</b>	function
<b>insertfield</b>	function	<b>mixflushlist</b>	function
<b>insertionnumber</b>	function	<b>mixflushrest</b>	function
<b>insertrenderingwindow</b>	function	<b>mixgetsplit</b>	function
<b>insertsoundclip</b>	function	<b>mixsetsplit</b>	function
<b>installedlanguages</b>	function	<b>mixstate</b>	function
<b>installtexdirective</b>	function	<b>molecule</b>	function
<b>installtextracker</b>	function	<b>month</b>	function
<b>languagenumber</b>	function	<b>monthnmn</b>	function
<b>lastcountervalue</b>	function	<b>monthname</b>	function
<b>lchexnumber</b>	function	<b>mpcolor</b>	function
<b>lchexnumbers</b>	function	<b>mpoptions</b>	function
<b>leapyear</b>	function	<b>mprunvar</b>	function
<b>linenumbersstageone</b>	function	<b>namedstructureuservariable</b>	function
<b>linenumbersstagetwo</b>	function	<b>namedstructurevariable</b>	function
<b>listgroupindex</b>	function	<b>nbfs</b>	function
<b>listlabel</b>	function	<b>nextcountervalue</b>	function
<b>listlocation</b>	function	<b>nextparallel</b>	function
<b>listprefixednumber</b>	function	<b>nofdays</b>	function
<b>listprefixedpage</b>	function	<b>nofitems</b>	function
<b>listrealpage</b>	function	<b>nofstackedfloats</b>	function
<b>listsize</b>	function	<b>notedeltapage</b>	function
<b>listtitle</b>	function	<b>notelistindex</b>	function
<b>listuserdata</b>	function	<b>notenumberpage</b>	function
<b>loadbtxdefinitionfile</b>	function	<b>noteprefixednumber</b>	function
<b>loadexamodes</b>	function	<b>notesymbolpage</b>	function
<b>loadfontgoodies</b>	function	<b>notetitle</b>	function
<b>loadspellchecklist</b>	function	<b>ntimes</b>	function
<b>loadtypescriptfile</b>	function	<b>number</b>	function
<b>loadvisualizer</b>	function		
<b>locatefilepath</b>	function	F LuaSnippet	
<b>locfilename</b>	function	F LuaSnippetBoundary	
<b>lower</b>	function	F LuaSnippetComment	
<b>makeactive</b>	function	F LuaSnippetName	
<b>manipulated</b>	function	F LuaSnippetNameBase	
<b>markfonts</b>	function	F LuaSnippetNameCore	
<b>markingnumber</b>	function	F LuaSnippetNameLibraries	
<b>markingtitle</b>	function	F LuaSnippetQuote	
<b>markregionbox</b>	function	F LuaSnippetSpecial	
<b>math_frac</b>	function	F LuaSnippetString	
<b>mathrenderset</b>	function	F MPLIBsetCtext	
<b>maxitemwidth</b>	function	F MPLIBsetNtext	
<b>minute</b>	function	F MPcolor	
		F MetapostSnippet	

F MetapostSnippetBoundary	F blank
F MetapostSnippetComment	F bold
F MetapostSnippetConstructor	F btcheckboxlistentry
F MetapostSnippetName	F btxcitevariantparameter
F MetapostSnippetNameMetafun	F btxdirectlink
F MetapostSnippetNamePlain	F btxdomarkcitation
F MetapostSnippetNamePrimitive	F btxhandlelistentry
F MetapostSnippetQuote	F btxlistparameter
F MetapostSnippetSpecial	F btxlistvariantparameter
F MetapostSnippetString	F callfunctiononce
F NC	F char
F NR	F chardef
F ParsedXmlSnippetCdata	F color
F ParsedXmlSnippetComment	F colordefagc
F ParsedXmlSnippetDoctype	F colordefagt
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F ParsedXmlSnippetInstruction	F colordefalt
F ParsedXmlSnippetKey	F colordeffgc
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F TexSnippetName	F colordefrlc
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F XmlSnippetBoundary	F constructcs
F XmlSnippetCdata	F constructcsonly
F XmlSnippetComment	F convertnumber
F XmlSnippetEntity	F ctxreport
F XmlSnippetEqual	F darkblue
F XmlSnippetKey	F darkgreen
F XmlSnippetName	F darkred
F XmlSnippetString	F definefontsynonym
F __flush	T delayed
F __flushdirect	F digitsdigit
F __flushlines	F digitsfinalcomma
F addaskedblankskip	F digitsfinalperiod
F addpredefinedblankskip	F digitshighspace
F applyprocessor	F digitsintermediatecomma
F beginhbox	F digitsintermediateperiod
F beginvbox	F digitsminus
F bf	F digitsnegative
F bgroup	F digitsplus

F digitspositive	F fixedblankskip
F digitspower	F flexibleblankskip
F digitspowerminus	F flushblankhandling
F digitspowerplus	F flushboxregister
F digitsseparatorspace	F flushnode
F digitssignspace	F fntsetdefname
F digitsspace	F fntsetnopsiz
F digitszeropadding	F fntsetsomenam
F direct	F fntsetsomesiz
F directsetup	T formatted
F dodirectfullreference	F fprint
F dodisplayverbatimbeginline	T generics
F dodisplayverbatimemptyline	S starttabulate
F dodisplayverbatiminitialize	S stoptabulate
F dodisplayverbatimnewline	F getlogger
F dodisplayverbatimstart	F getreferencestructureprefix
F dodisplayverbatimstop	F getvalue
F dofastdefinetypeface	F glyph
F dofinishsomereference	F gobbleoneargument
F dofromfiledescription	F goto
F dofromfileliteral	F hrule
F dofromurldescription	F input
F dofromurlliteral	T knownfunctions
F doinlineverbatimbeginline	F lateluafunction
F doinlineverbatimemptyline	F letvaluerelax
F doinlineverbatimnewline	F loadfile
F doinlineverbatimstart	F loadfoundtypescriptfile
F doinlineverbatimstop	F luasetup
F donestedtypingstart	F m
F donestedtypingstop	F makelinenumber
F dostarttext	T metafun
F doverbatimspace	F color
F egroup	T delayed
F emptyreference	F start
F enablemode	F stop
F endhbox	T nested
F endvbox	F markingcommand
F environment	F markingseparator
F expandreferencearguments	F newbox
F expandreferenceoperation	F newcount
F finalizeautostructurelevel	F newdimen
F finishjob	F newindexer
F firstofoneargument	F newmuskip
F firstoftwoarguments	F newskip

F newtexthandler  
F newtoks  
F newverbosehandler  
F nointerlineskip  
F normalatop  
F normalover  
F overstrike  
F par  
F pdfliteral  
F popcatcodes  
F poplogger  
F printlines  
F processfilemany  
F processfilenone  
F processfileonce  
F protect  
T puretext  
F pushcatcodes  
F pushlogger  
F registerentry  
F registerfunction  
F registeronepage  
F registerpagerange  
F registerseeword  
F reservefunction  
F rlap  
F runfile  
F secondoftwoarguments  
F setblankcategory  
F setblankorder  
F setblankpenalty  
F setconditional  
F setfalsevalue  
F sethboxregister  
F setsomevalue  
F settabulateentry  
F settabulatelastentry  
F settracing  
F setupsystem  
F setupwithargument  
F setvalue  
F setvboxregister  
F setxvalue  
F space

F sprint  
F startLuaSnippet  
F startMetapostSnippet  
F startParsedXmlSnippet  
F startTexSnippet  
F startXmlSnippet  
F startblankhandling  
F startcolumns  
F startcomponentindeed  
F startenvironmentindeed  
F startfontclass  
F starthboxregister  
F startproductindeed  
F startprojectindeed  
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F startregisterentries  
F startregisterentry  
F startregisteroutput  
F startregisterpages  
F startregistersection  
F startregisterseewords  
F starttabulate  
F starttext  
F starttitle  
F startvboxregister  
F startxtitle  
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F stopMetapostSnippet  
F stopParsedXmlSnippet  
F stopTexSnippet  
F stopXmlSnippet  
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F stopprojectindeed  
F stopreadingfile  
F stopregisterentries  
F stopregisterentry  
F stopregisteroutput  
F stopregisterpages

- F stopregistersection
- F stopregisterseewords
- F stoptabulate
- F stoptext
- F stoptitle
- F stopvboxregister
- F stopxtitle
- F storenode
- F synonymentry
- F tabulaterow
- F tabulaterowbold
- F tabulaterowtyp
- F tabulaterowtype
- F template
- T templates
- F texsetup
- F tobuffer
- F tocontext
- F tolines
- F unitsC
- F unitsN
- F unitsNspace
- F unitsNstart
- F unitsNstop
- F unitsO
- F unitsP
- F unitsPS
- F unitsPU
- F unitsPUS
- F unitsQ
- F unitsS
- F unitsU
- F unitsUS
- F unprotect
- F unregisterfunction
- F usemodule
- F utfchar
- T verbatim
  - F LuaSnippetBoundary
  - F LuaSnippetComment
  - F LuaSnippetName
  - F LuaSnippetNameBase
  - F LuaSnippetNameCore
  - F LuaSnippetNameLibraries

- F LuaSnippetQuote
- F LuaSnippetSpecial
- F LuaSnippetString
- F MetapostSnippetBoundary
- F MetapostSnippetComment
- F MetapostSnippetConstructor
- F MetapostSnippetName
- F MetapostSnippetNameMetafun
- F MetapostSnippetNamePlain
- F MetapostSnippetNamePrimitive
- F MetapostSnippetQuote
- F MetapostSnippetSpecial
- F MetapostSnippetString
- F ParsedXmlSnippetCdata
- F ParsedXmlSnippetComment
- F ParsedXmlSnippetDoctype
- F ParsedXmlSnippetElement
- F ParsedXmlSnippetInstruction
- F TexSnippetBoundary
- F TexSnippetComment
- F TexSnippetGroup
- F TexSnippetName
- F TexSnippetSpecial
- F XmlSnippetBoundary
- F XmlSnippetCdata
- F XmlSnippetComment
- F XmlSnippetEntity
- F XmlSnippetEqual
- F XmlSnippetKey
- F XmlSnippetName
- F XmlSnippetString
- F ctxreport
- F viafile
- F vrule
- F xmldataaafter
- F xmldataabefore
- F xmldataabeyedline
- F xmldataabeyedspace
- F xmlprocessbuffer
- F xmlsetup

## numbers

- F LuaSnippet
- F LuaSnippetBoundary
- F LuaSnippetComment

## function

F LuaSnippetName	F XmlSnippetString
F LuaSnippetNameBase	F __flush
F LuaSnippetNameCore	F __flushdirect
F LuaSnippetNameLibraries	F __flushlines
F LuaSnippetQuote	F addaskedblankskip
F LuaSnippetSpecial	F addpredefinedblankskip
F LuaSnippetString	F applyprocessor
F MPLIBsetCtext	F beginhbox
F MPLIBsetNtext	F beginvbox
F MPcolor	F bf
F MetapostSnippet	F bgroup
F MetapostSnippetBoundary	F blank
F MetapostSnippetComment	F bold
F MetapostSnippetConstructor	F btxchecklistentry
F MetapostSnippetName	F btxcitevariantparameter
F MetapostSnippetNameMetafun	F btxdirectlink
F MetapostSnippetNamePlain	F btxdomarkcitation
F MetapostSnippetNamePrimitive	F btxhandlelistentry
F MetapostSnippetQuote	F btxlistparameter
F MetapostSnippetSpecial	F btxlistvariantparameter
F MetapostSnippetString	F callfunctiononce
F NC	F char
F NR	F chardef
F ParsedXmlSnippetCdata	F color
F ParsedXmlSnippetComment	F colordefagc
F ParsedXmlSnippetDoctype	F colordefagt
F ParsedXmlSnippetElement	F colordefalc
F ParsedXmlSnippetInstruction	F colordefalt
F ParsedXmlSnippetKey	F colordeffgc
F ParsedXmlSnippetValue	F colordeffgt
F TexSnippet	F colordefflc
F TexSnippetBoundary	F colordefflt
F TexSnippetComment	F colordefrgc
F TexSnippetGroup	F colordefrgt
F TexSnippetName	F colordefrlc
F TexSnippetSpecial	F colordefrlt
F XmlSnippet	F concat
F XmlSnippetBoundary	F constructcs
F XmlSnippetCdata	F constructcsonly
F XmlSnippetComment	F convertnumber
F XmlSnippetEntity	F ctxreport
F XmlSnippetEqual	F darkblue
F XmlSnippetKey	F darkgreen
F XmlSnippetName	F darkred

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 digitspowerminus	F flushblankhandling
F digitspowerplus	F flushboxregister
F digitsseparatorspace	F flushnode
F digitssignspace	F fntsetdefname
F digitsspace	F fntsetnopsiz
F digitsszeropadding	F fntsetsomename
F direct	F fntsetsomesize
F directsetup	T formatted
F dodirectfullreference	F fprint
F dodisplayverbatimbeginline	T generics
F dodisplayverbatimemptyline	S starttabulate
F dodisplayverbatiminitialize	S stoptabulate
F dodisplayverbatimnewline	F getlogger
F dodisplayverbatimstart	F getreferencestructureprefix
F dodisplayverbatimstop	F getvalue
F dofastdefinetypeface	F glyph
F dofinishsomereference	F gobbleoneargument
F dofromfiledescription	F goto
F dofromfileliteral	F hrule
F dofromurldescription	F input
F dofromurlliteral	T knownfunctions
F doinlineverbatimbeginline	F lateluafunction
F doinlineverbatimemptyline	F letvaluerelax
F doinlineverbatimnewline	F loadfile
F doinlineverbatimstart	F loadfoundtypescriptfile
F doinlineverbatimstop	F luasetup
F donestedtypingstart	F m
F donestedtypingstop	F makelinenumber
F dostarttext	T metafun
F doverbatimspace	F color
F egroup	T delayed

F start	F sethboxregister
F stop	F setsomevalue
T nested	F settabulateentry
F markingcommand	F settabulatelastentry
F markingseparator	F settracing
F newbox	F setupsystem
F newcount	F setupwithargument
F newdimen	F setvalue
F newindexer	F setvboxregister
F newmuskip	F setxvalue
F newskip	F space
F newtexthandler	F sprint
F newtoks	F startLuaSnippet
F newverbosehandler	F startMetapostSnippet
F nointerlineskip	F startParsedXmlSnippet
F normalatop	F startTexSnippet
F normalover	F startXmlSnippet
F overstrike	F starttblblankhandling
F par	F startcolumns
F pdfliteral	F startcomponentindeed
F popcatcodes	F startenvironmentindeed
F poplogger	F startfontclass
F printlines	F startthboxregister
F processfilemany	F startproductindeed
F processfilenone	F startprojectindeed
F processfileonce	F startreadingfile
F protect	F startregisterentries
T puretext	F startregisterentry
F pushcatcodes	F startregisteroutput
F pushlogger	F startregisterpages
F registerentry	F startregistersection
F registerfunction	F startregisterseewords
F registeronepage	F starttabulate
F registerpagerange	F starttext
F registerseeword	F starttitle
F reservefunction	F startvboxregister
F rlap	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 stoptblblankhandling
F setfalsevalue	F stopcolumns



F stopcomponentindeed	F unprotect
F stopenvironmentindeed	F unregisterfunction
F stopfontclass	F usemodule
F stophboxregister	F utfchar
F stopproductindeed	T verbatim
F stopprojectindeed	F LuaSnippetBoundary
F stopreadingfile	F LuaSnippetComment
F stopregisterentries	F LuaSnippetName
F stopregisterentry	F LuaSnippetNameBase
F stopregisteroutput	F LuaSnippetNameCore
F stopregisterpages	F LuaSnippetNameLibraries
F stopregistersection	F LuaSnippetQuote
F stopregisterseewords	F LuaSnippetSpecial
F stoptabulate	F LuaSnippetString
F stoptext	F MetapostSnippetBoundary
F stoptitle	F MetapostSnippetComment
F stopvboxregister	F MetapostSnippetConstructor
F stopxtitle	F MetapostSnippetName
F storenode	F MetapostSnippetNameMetafun
F synonymentry	F MetapostSnippetNamePlain
F tabulaterow	F MetapostSnippetNamePrimitive
F tabulaterowbold	F MetapostSnippetQuote
F tabulaterowtyp	F MetapostSnippetSpecial
F tabulaterowtype	F MetapostSnippetString
F template	F ParsedXmlSnippetCdata
T templates	F ParsedXmlSnippetComment
F texsetup	F ParsedXmlSnippetDoctype
F tobuffer	F ParsedXmlSnippetElement
F tocontext	F ParsedXmlSnippetInstruction
F tolines	F TexSnippetBoundary
F unitsC	F TexSnippetComment
F unitsN	F TexSnippetGroup
F unitsNspace	F TexSnippetName
F unitsNstart	F TexSnippetSpecial
F unitsNstop	F XmlSnippetBoundary
F unitsO	F XmlSnippetCdata
F unitsP	F XmlSnippetComment
F unitsPS	F XmlSnippetEntity
F unitsPU	F XmlSnippetEqual
F unitsPUS	F XmlSnippetKey
F unitsQ	F XmlSnippetName
F unitsS	F XmlSnippetString
F unitsU	F ctxreport
F unitsUS	F viafile

F vrule		preparedfile	function
F xmldataafter		presetsymbolist	function
F xmldatabefore		presettabulate	function
F xmldataobeyedline		prevcountervalue	function
F xmldataobeyedspace		processbuffer	function
F xmlprocessbuffer		processcolorcomponents	function
F xmlsetup		processedfile	function
objectnumber	function	processedfiles	function
objectpage	function	processfile	function
octnumber	function	processfilemany	function
octstringtonumber	function	processfilenone	function
ordinal	function	processfileonce	function
overloadbookmark	function	processlist	function
page_injections_flush_after	function	processregister	function
page_injections_flush_before	function	processsplit	function
page_injections_save	function	processsynonyms	function
pagestaterealpage	function	purefontname	function
parpos	function	pushfloat	function
pdfrotation	function	pushitaliccorrection	function
pdfstartmatrix	function	pushlist	function
pdfstartmirroring	function	pushreferenceprefix	function
pdfstartrotation	function	pushregime	function
pdfstartscaling	function	pushsectionblock	function
pdfstopmatrix	function	rawcharacter	function
pdfstopmirroring	function	rawcountervalue	function
pdfstoprotation	function	rawdate	function
pdfstopscaling	function	referencepagestate	function
percentageof	function	referencerealpage	function
pgfxcolorspec	function	registerattachment	function
placeparallel	function	registerbookmark	function
popfloat	function	registerbuttons	function
popitaliccorrection	function	registercatcodetable	function
poplist	function	registercolor	function
popreferenceprefix	function	registercolorintent	function
popregime	function	registeredviewerlayer	function
popsectionblock	function	registerhelp	function
pos	function	registeritemgroup	function
posplus	function	registerlanguagefeatures	function
posstrut	function	registerlinenumbering	function
postponenotes	function	registermaintextcolor	function
poswhd	function	registernamespace	function
posxy	function	registerpostponedblock	function
prefixedconverted	function	registerrendering	function
prepareMPvariable	function	registersection	function

<b>registersoundclip</b>	function	<b>saveobject</b>	function
<b>registerstructureprocessor</b>	function	<b>savepagedata</b>	function
<b>registersynonym</b>	function	<b>saveparallel</b>	function
<b>registertransparency</b>	function	<b>savestructureblock</b>	function
<b>registerunit</b>	function	<b>savetaggedtwopassdata</b>	function
<b>registerusedsynonym</b>	function	<b>savetwopassdata</b>	function
<b>registeruserdata</b>	function	<b>savevariable</b>	function
<b>relatemarking</b>	function	<b>second</b>	function
<b>remapentity</b>	function	<b>selectstructureblock</b>	function
<b>removemissingcharacters</b>	function	<b>setbreakpoints</b>	function
<b>renderingvar</b>	function	<b>setbtxdataset</b>	function
<b>replacemissingcharacters</b>	function	<b>setbtxentry</b>	function
<b>replacepospxywhd</b>	function	<b>setcharacteralign</b>	function
<b>reportstructure</b>	function	<b>setcharactercasing</b>	function
<b>resavefloat</b>	function	<b>setcharactercleaning</b>	function
<b>resetcharacteralign</b>	function	<b>setcharactercodes</b>	function
<b>resetcounter</b>	function	<b>setcharacterkerning</b>	function
<b>resetfontfeature</b>	function	<b>setcharacterspacing</b>	function
<b>resetfontsolution</b>	function	<b>setcharacterstripping</b>	function
<b>resetmarking</b>	function	<b>setcloseddocumentaction</b>	function
<b>resetmathattributes</b>	function	<b>setclosepageaction</b>	function
<b>resetmathitalics</b>	function	<b>setcolormodel</b>	function
<b>resetnullfont</b>	function	<b>setcounter</b>	function
<b>resetparallel</b>	function	<b>setdataset</b>	function
<b>resetprevdepth</b>	function	<b>setdigitsmanipulation</b>	function
<b>resetreference</b>	function	<b>setdirection</b>	function
<b>resetstructureprocessor</b>	function	<b>setdocumentenvironments</b>	function
<b>resettimer</b>	function	<b>setdocumentfilenames</b>	function
<b>restartcounter</b>	function	<b>setdocumentmodes</b>	function
<b>restorecounter</b>	function	<b>setdocumentmodules</b>	function
<b>restorecurrentattributes</b>	function	<b>setfigurelookuporder</b>	function
<b>restorenote</b>	function	<b>setfirstline</b>	function
<b>romannumerals</b>	function	<b>setfontfeature</b>	function
<b>runbuffer</b>	function	<b>setfontofid</b>	function
<b>safechar</b>	function	<b>setfontsolution</b>	function
<b>savebuffer</b>	function	<b>setformat</b>	function
<b>savecounter</b>	function	<b>setformsmethod</b>	function
<b>savecurrentattributes</b>	function	<b>setinitial</b>	function
<b>savelistnumber</b>	function	<b>setinsertionlocation</b>	function
<b>savelistprefixednumber</b>	function	<b>setinterfaceconstant</b>	function
<b>savelisttitle</b>	function	<b>setinterfaceelement</b>	function
<b>savefloat</b>	function	<b>setinterfacemessage</b>	function
<b>savemargindata</b>	function	<b>setinterfacemessages</b>	function
<b>savenote</b>	function	<b>setinterfacevariable</b>	function

<b>setinternalreference</b>	function	<b>settagssorting</b>	function
<b>setjobcomment</b>	function	<b>settagssynonym</b>	function
<b>setlanguageexceptions</b>	function	<b>settagtablecell</b>	function
<b>setlanguagesynonym</b>	function	<b>settagtabulatecell</b>	function
<b>setlayer</b>	function	<b>setupbookmarks</b>	function
<b>setmarking</b>	function	<b>setupcanvas</b>	function
<b>setmathalphabet</b>	function	<b>setupcharacterspacing</b>	function
<b>setmathalternate</b>	function	<b>setupexport</b>	function
<b>setmathattribute</b>	function	<b>setupfontexpansion</b>	function
<b>setmathdirection</b>	function	<b>setupfontprotrusion</b>	function
<b>setmathitalics</b>	function	<b>setupidentity</b>	function
<b>setmathstyle</b>	function	<b>setupinsertion</b>	function
<b>setnextinternalreference</b>	function	<b>setupitaliccorrection</b>	function
<b>setnextreferenceorder</b>	function	<b>setuplinenumbers</b>	function
<b>setnotestate</b>	function	<b>setvisual</b>	function
<b>setnotesymbolpage</b>	function	<b>setxmpfile</b>	function
<b>setobject</b>	function	<b>showassignerror</b>	function
<b>setopendocumentaction</b>	function	<b>showattributes</b>	function
<b>setopenpageaction</b>	function	<b>showbtxdatasetcompleteness</b>	function
<b>setowncounter</b>	function	<b>showbtxdatasetfields</b>	function
<b>setpagestate</b>	function	<b>showcallbacks</b>	function
<b>setpagestaterealpageno</b>	function	<b>showchardata</b>	function
<b>setpagetransition</b>	function	<b>showcounter</b>	function
<b>setparbuilder</b>	function	<b>showfontparameters</b>	function
<b>setpos</b>	function	<b>showhyphenatedinlist</b>	function
<b>setrandomseed</b>	function	<b>showjustification</b>	function
<b>setrealign</b>	function	<b>showmessage</b>	function
<b>setreferencearguments</b>	function	<b>sin</b>	function
<b>setreferenceattribute</b>	function	<b>sind</b>	function
<b>setreferenceoperation</b>	function	<b>splitfilename</b>	function
<b>setregistermethod</b>	function	<b>spotcolorname</b>	function
<b>setreplacements</b>	function	<b>spotcolorparent</b>	function
<b>setsectionblock</b>	function	<b>spotcolorvalue</b>	function
<b>setsectionentry</b>	function	<b>startchemical</b>	function
<b>setsectionlevel</b>	function	<b>startcolorset</b>	function
<b>setsectionnumber</b>	function	<b>startcomponent</b>	function
<b>setstructureblockstate</b>	function	<b>startenvironment</b>	function
<b>settagcombination</b>	function	<b>startfontsolution</b>	function
<b>settagdescription</b>	function	<b>startparbuilder</b>	function
<b>settagdescriptionsymbol</b>	function	<b>startproduct</b>	function
<b>settagfigure</b>	function	<b>startproject</b>	function
<b>settaghighlight</b>	function	<b>startregime</b>	function
<b>settagitemgroup</b>	function	<b>startsectionlevel</b>	function
<b>settagproperty</b>	function	<b>starttag</b>	function

<b>starttext</b>	function	<b>transparencycolors</b>	function
<b>startviewerlayer</b>	function	<b>triggereffect</b>	function
<b>stopchemical</b>	function	<b>triggernegative</b>	function
<b>stopcolorset</b>	function	<b>truefilename</b>	function
<b>stopcomponent</b>	function	<b>typebuffer</b>	function
<b>stopenvironment</b>	function	<b>typefile</b>	function
<b>stopfontsolution</b>	function	<b>typestring</b>	function
<b>stopparbuilder</b>	function	<b>uchexnumber</b>	function
<b>stopproduct</b>	function	<b>uchexnumbers</b>	function
<b>stopproject</b>	function	<b>undefinechemical</b>	function
<b>stopregime</b>	function	<b>unicodechar</b>	function
<b>stopsectionlevel</b>	function	<b>unit</b>	function
<b>stoptag</b>	function	<b>unloadlanguage</b>	function
<b>stoptext</b>	function	<b>upper</b>	function
<b>stopviewerlayer</b>	function	<b>useMPLibrary</b>	function
<b>storejavascriptcode</b>	function	<b>useanyfile</b>	function
<b>storejavascriptpreamble</b>	function	<b>usebtxdataset</b>	function
<b>storenote</b>	function	<b>usecldfile</b>	function
<b>storeregister</b>	function	<b>usecolors</b>	function
<b>strdp</b>	function	<b>usecomponent</b>	function
<b>strhd</b>	function	<b>useenvironment</b>	function
<b>strht</b>	function	<b>usefile</b>	function
<b>strip</b>	function	<b>usejavascriptpreamble</b>	function
<b>structureautocatcodedget</b>	function	<b>usejavascriptscripts</b>	function
<b>structurecatcodedget</b>	function	<b>uselibrary</b>	function
<b>structuregivencatcodedget</b>	function	<b>useluafile</b>	function
<b>structurenumber</b>	function	<b>useluamodule</b>	function
<b>structuretitle</b>	function	<b>usemodules</b>	function
<b>structureuservariable</b>	function	<b>usepath</b>	function
<b>structurevariable</b>	function	<b>useproduct</b>	function
<b>strwd</b>	function	<b>useproject</b>	function
<b>subcountervalues</b>	function	<b>usesubpath</b>	function
<b>synchronizcolormodel</b>	function	<b>usesymbols</b>	function
<b>synchronizemarking</b>	function	<b>usetexfile</b>	function
<b>synonymmeaning</b>	function	<b>useurl</b>	function
<b>synonymname</b>	function	<b>usexmlfile</b>	function
<b>taggedmathfunction</b>	function	<b>usezipfile</b>	function
<b>tan</b>	function	<b>utfchar</b>	function
<b>tand</b>	function	<b>utfmathclass</b>	function
<b>testcase</b>	function	<b>utfmathcommand</b>	function
<b>textime</b>	function	<b>utfmathcommandabove</b>	function
<b>thefirstcharacter</b>	function	<b>utfmathcommandbelow</b>	function
<b>theremainingcharacters</b>	function	<b>utfmathfiller</b>	function
<b>thetexdefinition</b>	function	<b>utfmathstretch</b>	function

<b>vboxlisttohbox</b>	function
<b>verbose</b>	function
<b>visual</b>	function
<b>vspacing</b>	function
<b>vspacingcollapse</b>	function
<b>vspacingdefine</b>	function
<b>vspacingsetamount</b>	function
<b>vspacingsnap</b>	function
<b>way</b>	function
<b>weekday</b>	function
<b>weekdayname</b>	function
<b>writestatus</b>	function
<b>x_table_c</b>	function
<b>x_table_cleanup</b>	function
<b>x_table_construct</b>	function
<b>x_table_create</b>	function
<b>x_table_flush</b>	function
<b>x_table_init_construct</b>	function
<b>x_table_init_reflow_height</b>	function
<b>x_table_init_reflow_width</b>	function
<b>x_table_next_row</b>	function
<b>x_table_r</b>	function
<b>x_table_reflow_height</b>	function
<b>x_table_reflow_width</b>	function
<b>x_table_set_construct</b>	function
<b>x_table_set_reflow_height</b>	function
<b>x_table_set_reflow_width</b>	function
<b>year</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>ordinal</b>	function
<b>AK</b>	function	<b>r</b>	function
<b>Alphabetic</b>	function	<b>rawcharacter</b>	function
<b>Character</b>	function	<b>romannumerals</b>	function
<b>Characters</b>	function	<b>second</b>	function
<b>I</b>	function	<b>sequences</b>	data table
<b>KA</b>	function	<b>textime</b>	function
<b>KR</b>	function	<b>toabjad</b>	function
<b>R</b>	function	<b>tochinese</b>	function
<b>RK</b>	function	<b>toroman</b>	function
<b>Romannumerals</b>	function	<b>verbose</b>	table
<b>Word</b>	function	D data	
<b>Words</b>	function	F translate	
<b>a</b>	function	<b>weekday</b>	function
<b>abjadnodotnumerals</b>	function	<b>word</b>	function
<b>abjadnumerals</b>	function	<b>words</b>	function
<b>alphabetic</b>	function	<b>year</b>	function
<b>character</b>	function		
<b>characters</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>maxchrs</b>	function		
<b>minute</b>	function		
<b>month</b>	function		
<b>nofdays</b>	function		
<b>number</b>	function		
<b>numbers</b>	function		
<b>octstringtonumber</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 cmdline	
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>registersuffix</b>	function
<b>bases</b>	data table	<b>resources</b>	data table
<b>bitmapimage</b>	function	<b>scale</b>	function
<b>boxnumber</b>	number	<b>setlookups</b>	function
<b>cachepaths</b>	data table	<b>setorder</b>	function
<b>check</b>	function	<b>setpaths</b>	function
<b>checkers</b>	data table	<b>suffixes</b>	data table
<b>converters</b>	data table	<b>used</b>	data table
<b>current</b>	function		
<b>defaultdepth</b>	number		
<b>defaultheight</b>	number		
<b>defaultsearch</b>	boolean		
<b>defaultwidth</b>	number		
<b>done</b>	function		
<b>dummy</b>	function		
<b>exists</b>	data table		
<b>exists</b>	function		
<b>formats</b>	data table		
<b>found</b>	data table		
<b>get</b>	function		
<b>guess</b>	function		
<b>hash</b>	function		
<b>identifiers</b>	data table		
<b>identify</b>	function		
<b>include</b>	function		
<b>includes</b>	data table		
<b>initialize</b>	function		
<b>loaded</b>	data table		
<b>localpaths</b>	data table		
<b>magics</b>	data table		
<b>mergegoodies</b>	function		
<b>nofprocessed</b>	number		
<b>order</b>	data table		
<b>paths</b>	data table		
<b>patterns</b>	data table		
<b>pop</b>	function		
<b>preferquality</b>	boolean		
<b>programs</b>	data table		
<b>push</b>	function		
<b>registerpattern</b>	function		
<b>registerresource</b>	function		

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

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
T cidinfo	F checkedscript
S embedding	F current



- S defaultlookup
- F define
- F getspecification
- F internal
- F loadfont
- F makespecification
- T methods
  - F install
  - D variants
- F read
- F register
- F registered
- F registersplit
- F resetnullfont
- F resolve
- T resolvers
  - F file
  - F name
  - F spec

**definetypeface**    function

**encodings**        table

- T agl
- D cache
- F is\_known
- D known
- F load
- F make\_unicode\_vector
- D math
- N version

**expansions**        data table

**formats**           data table

**goodies**           table

- D colorschemes
- D data
- D designsizes
- D filenames
- F getcompositions
- T list
  - F compositions
  - F designsizes
  - F expansions
  - F featureset
  - F filenames
  - F files

- F mathematics
- F protrusions
- F solutions
- F treatments
- F typefaces
- F load
- F prepare\_features
- F register
- F registerpostprocessor
- F report

**handlers**           table

- T afm
  - B addkerns
  - B addligatures
  - B addtexligatures
  - B autoprefixed
  - D cache
  - D features
  - T helpdata
    - D bothkerned
    - D leftkerned
    - D ligatures
    - D rightkerned
    - D texligatures
  - F load
  - F setfeatures
  - B syncspace
  - N version
- T otf
  - F addfeature
  - D cache
  - T chainhandlers
    - F normal
    - F verbose
  - F collectlookups
  - F dataset
  - S defaultbasealternate
  - S defaultnodealternate
  - D enhancers
  - D features
  - F fileformat
  - F getalternate
  - T glists
  - T handlers

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

F add_placeholders		<b>nulldata</b>	data table
T category_to_placeholder		<b>protrusions</b>	data table
S ll		<b>readers</b>	table
S lm		F afm	
S lo		F check_lua	
S lt		F check_tfm	
S lu		F dfont	
S mc		F lua	
S me		F opentype	
S mn		F otf	
S nd		F pfb	
S nl		D sequence	
S no		F tfm	
S pc		F ttc	
S pd		F ttf	
S pe		<b>select</b>	table
S pf		T data	
S pi		F definetypeface	
S po		T fallbacks	
S ps		F filterinput	
S sc		T methods	
S sk		F default	
S sm		F features	
S so		F file	
F format		F goodies	
F onetimemessage		F name	
F register		F selectfont	
F reportdefinedfonts		F simplefonts	
F reportusedfeatures		F spec	
<b>mappings</b>	table	F style	
F addtounicode		F registerfallback	
F fromunicodel6		F searchfiles	
F loadfile		<b>specifiers</b>	table
F loadline		D contextmerged	
F loadlumtable		F contextnumber	
F makenameparser		D contextnumbers	
F reset		D contextsetups	
F tounicodel6		F contexttostring	
F tounicodel6sequence		F definecontext	
<b>mp</b>	table	F mergecontext	
D cache		F presetcontext	
B inline		F registercontext	
N version		F showcontext	
<b>names</b>	data table	F splitcontext	

D synonyms  
D variants  
**symbols** table  
F uselibrary  
**tables** table  
**tracers** table  
**treatments** table  
F applyfixes  
D data  
S filename  
F ignoredfile  
F report  
F trace  
**typefaces** data table

# functions (context)

**dummy** function

# graphics (context)

## **backgrounds** table

F calculatemultipar

F fetchmultipar

F pair

F path

F point

## gzip (extra lua)

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

## img (basic tex)

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



# interactions (context)

**attachments** data table

**fields** table

F clone

F define

F defineset

F insert

**general** table

F getidentity

F setupidentity

**help** table

F collect

F reference

F register

**javascripts** table

F addtopreamble

F code

D codes

F flushpreambles

D functions

D preambles

F setpreamble

F storecode

F storepreamble

F usepreamblenow

F usescripts

**linkedlists** data table

**pages** table

F setpagetransition

F setupcanvas

**references** table

F setcloseddocument

F setclosepage

F setopendocument

F setopenpage

**renderings** data table

**soundclips** data table

# interfaces (context)

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

## io (basic lua)

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

# jit (context)

<b>arch</b>	string
<b>attach</b>	function
<b>flush</b>	function
<b>off</b>	function
<b>on</b>	function
<b>opt</b>	table
F start	
<b>os</b>	string
<b>status</b>	function
<b>util</b>	table
F funcbc	
F funcinfo	
F funcck	
F funcuvname	
F ircalladdr	
F traceexitstub	
F traceinfo	
F traceir	
F tracek	
F tracemc	
F tracesnap	
<b>version</b>	string
<b>version_num</b>	number

# job (context)

**comment** function

**datasets** table

D collected

F extend

F getdata

F setdata

D tobesaved

**disablesave** function

**files** table

D collected

F context

B forcerun

F run

D tobesaved

**initialize** function

**load** function

**loadother** function

**objects** table

D collected

F get

F number

F page

F save

F set

D tobesaved

**pack** boolean

**packversion** number

**pagestates** table

D collected

F extend

F realpage

F setstate

D tobesaved

**passes** table

F check

D collected

F count

F define

F find

F first

F get

F getcollected

F getdata

F getfield

F gettobesaved

F inlist

F last

F list

F save

F savetagged

D tobesaved

**positions** table

F b\_col

F b\_region

F c

D collected

F column

F copy

F depth

F e\_col

F e\_region

F enhance

F extra

F get

F getreserved

F hangafter

F hangindent

F height

F hsize

F leftskip

F lowerleft

F lowerright

F markregionbox

F n

F onsamepage

F overlapping

F p

F page

F paragraph

F parindent

F position

F r

- F region
- F replace
- F rightskip
- F set
- F setall
- F setdim
- D tobesaved
- F upperleft
- F upperright
- 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	F found
<b>associated</b>	data table	F load
<b>association</b>	function	T methods
<b>counters</b>	data table	N threshold
<b>current</b>	function	
<b>data</b>	data table	
<b>define</b>	function	
<b>frequencies</b>	table	
	F averagecharwidth	
	F getdata	
<b>getnumber</b>	function	
<b>hyphenate</b>	function	
<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>righthyphenmin</b>	function	
<b>setexceptions</b>	function	
<b>setsynonym</b>	function	
<b>unload</b>	function	
<b>version</b>	number	
<b>words</b>	table	
	F check	
	T data	
	F disable	
	F enable	
	T enablers	
	B enables	



# 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>	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)

<b>color</b>	function
<b>convert</b>	function
<b>convertfile</b>	function
<b>convertstring</b>	function
<b>einject</b>	function
<b>eprint</b>	function
<b>escape</b>	function
<b>finalized</b>	function
<b>finject</b>	function
<b>fprint</b>	function
<b>get</b>	function
<b>getvariables</b>	function
<b>htmfile</b>	function
<b>html</b>	table
F a	
F td	
F th	
<b>include</b>	function
<b>inherited</b>	table
S color-background-four	
S color-background-one	
S color-background-three	
S color-background-two	
S title	
<b>initialize</b>	function
<b>inject</b>	function
<b>lmxfile</b>	function
<b>loadedfile</b>	function
<b>new</b>	function
<b>overloaderror</b>	function
<b>popupfile</b>	function
<b>print</b>	function
<b>pv</b>	function
<b>report</b>	function
<b>reset</b>	function
<b>result</b>	function
<b>set</b>	function
<b>show</b>	function
<b>showdebuginfo</b>	function
<b>showerror</b>	function
<b>stripcss</b>	function

<b>tv</b>	function
<b>type</b>	function
<b>urlescape</b>	function
<b>variable</b>	function
<b>variables</b>	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>simplelines</b>	function
<b>categories</b>	function	<b>start_page_number</b>	function
<b>direct</b>	function	<b>status</b>	function
<b>disable</b>	function	<b>stop_page_number</b>	function
<b>enable</b>	function	<b>subdirect</b>	function
<b>exporters</b>	table	<b>subreport</b>	function
<b>extendbanner</b>	function	<b>system</b>	function
<b>flush</b>	function	<b>texerrormessage</b>	function
<b>help</b>	function	<b>writer</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		

# lpdf (context)

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

<b>transparencygroups</b>	table
<b>transparencyvalue</b>	function
<b>unicode</b>	function
<b>verbose</b>	function

B none

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

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>setalternate</b>	function
<b>alphabets</b>	data table	<b>setitalics</b>	function
<b>big</b>	function	<b>syncboth</b>	function
<b>boldmap</b>	table	<b>syncname</b>	function
<b>categories</b>	table	<b>syncstyle</b>	function
D functions		<b>toname</b>	function
<b>checkaccentbaseheight</b>	function	<b>tostyle</b>	function
<b>checkprivateparameters</b>	function	<b>tweakaftercopyingfont</b>	function
<b>classes</b>	data table	<b>tweakbeforecopyingfont</b>	function
<b>codes</b>	data table	<b>tweaks</b>	table
<b>define</b>	function	<b>utfmathaccent</b>	function
<b>dimensions</b>	function	<b>utfmathclass</b>	function
<b>extensiblecode</b>	function	<b>utfmathcommand</b>	function
<b>extensibles</b>	data table	<b>utfmathfiller</b>	function
<b>extrabase</b>	number	<b>utfmathstretch</b>	function
<b>extras</b>	table		
F add			
F copy			
<b>fallbacks</b>	table		
F apply			
F install			
<b>fallbackstyleattr</b>	function		
<b>families</b>	data table		
<b>gaps</b>	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		
<b>resetitalics</b>	function		
<b>scaleparameters</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)

<b>HEX</b>	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>edefsxxy</b>	function	<b>llx</b>	number
<b>escaped</b>	function	<b>lly</b>	number
<b>exectime</b>	table	<b>load</b>	function
<b>extensiondata</b>	data table	<b>makemply</b>	table
<b>filterclippath</b>	function	N nofconverted	
<b>finder</b>	function	F processgraphics	
<b>flush</b>	function	F registerfile	
<b>flushers</b>	table	<b>metafun</b>	table
T pdf		F interpolate	
F comment		F topath	
F flushfigure		<b>method</b>	number
F startfigure		<b>mptopdf</b>	table
F stopfigure		F convertmptstopdf	
F textfigure		N nofconverted	
<b>flushliteral</b>	function	<b>multipass</b>	boolean
<b>flushnormalpath</b>	function	<b>n</b>	number
<b>flushreset</b>	function	<b>nvformat</b>	function
<b>fonts</b>	table	<b>optimize</b>	boolean
F define		<b>parse</b>	function
T flusher		<b>pdf literals</b>	function
F flushfigure		<b>pluginactions</b>	function
F startfigure		<b>process</b>	function
F stopfigure		<b>processplugins</b>	function
N instances		<b>processspecial</b>	function
F process		<b>quickanddirty</b>	function
<b>format</b>	function	<b>reducetogray</b>	boolean
<b>format_number</b>	function	<b>reporterror</b>	function
<b>format_string</b>	function	<b>reset</b>	function
<b>formatnumber</b>	function	<b>resetlastlog</b>	function
<b>getclippath</b>	function	<b>resetplugins</b>	function
<b>getextensions</b>	function	<b>resettex texts</b>	function

<b>runscript</b>	function
<b>scripterror</b>	function
<b>setextensions</b>	function
<b>setoutercolor</b>	function
<b>settext</b>	function
<b>settexttexts</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>texttextsdata</b>	function
<b>theclippath</b>	function
<b>totable</b>	function
<b>unload</b>	function
<b>untagvariable</b>	function
<b>urx</b>	number
<b>ury</b>	number
<b>variables</b>	table

## mime (extra lua)

**b64** function

**decode** function

**decodet** table

F base64

F quoted-printable

**dot** function

**encode** function

**encodet** table

F base64

F quoted-printable

**eol** function

**normalize** function

**qp** function

**qpwrp** function

**stuff** function

**unb64** function

**unqp** function

**wrap** function

**wrapt** table

F base64

F default

F quoted-printable

F text

**wrp** function

## mp (context)

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

## mplib (extra tex)

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

# noads (context)

**handlers**      table

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

**process**          function

**processors**    table

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

## node (basic tex)

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



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

# nodes (context)

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

<b>injections</b>	table	<b>markers</b>	table
F handler		F get	
F installnewkern		<b>mathcodes</b>	data table
F setcursive		<b>maxboxwidth</b>	function
F setkern		<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>kerning</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	
<b>load</b>	function	F getsubtype	
<b>locate</b>	function	F has_attribute	
<b>margincodes</b>	data table	F has_field	

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

F tonut		<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 pdfliteral	
F tonodes		F pdfsetmatrix	
F tovpack		F register	
F tovpackfast		F rule	
F vpack		F special	
F unprotect_glyphs		F usage	
F unset_attribute		T userids	
F unsetattribute		N margins.inline	
F unsetattributes		N property	
F untracedslide		N splitters.one	
F usedlist		N splitters.two	
F vianodes		F usernumber	
F vianuts		<b>prepend</b>	function
F vpack		<b>print</b>	function
F writable_spec		<b>processors</b>	table
F write		B enabled	
<b>packlist</b>	function	F hpack_filter	
<b>pardir_is_equal</b>	data table	F post_linebreak_filter	
<b>pardir_is_opposite</b>	data table	F pre_linebreak_filter	
<b>pardir_is_parallel</b>	data table	F tracer	
<b>partextdir_is_equal</b>	data table	<b>processwords</b>	function
<b>penaltycodes</b>	data table	<b>properties</b>	table
<b>plugindata</b>	table	T actions	
F finalizer		F delayed	
F initializer		F fdelayed	
S name		F immediate	
T namespace		F attach	
N attribute		T data	
D data		F delayed	
F enable		<b>protect_glyphs</b>	function
F handler		<b>protrusion_skippable</b>	function
F register		<b>pts</b>	function
D registered		<b>reference</b>	function
D values		<b>references</b>	table
F processor		N attribute	

T done		F set	
F handler		<b>striprange</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 restart	
<b>setattr</b>	function	F setaction	
<b>setattribute</b>	function	F showactions	
<b>setattributes</b>	function	F table	
<b>setbox</b>	function	<b>texmdir_is_equal</b>	data table
<b>setfield</b>	function	<b>texmdir_is_is</b>	data table
<b>setunsetattributes</b>	function	<b>texmdir_is_opposite</b>	data table
<b>shifts</b>	table	<b>texmdir_is_parallel</b>	data table
D data		<b>tobasepoints</b>	function
F define		<b>tocentimeters</b>	function
F enable		<b>tociceros</b>	function
F handler		<b>todidots</b>	function
<b>show</b>	function	<b>todimen</b>	function
<b>showboxes</b>	function	<b>toinches</b>	function
<b>showcodes</b>	function	<b>tomillimeters</b>	function
<b>showlist</b>	function	<b>tonewciceros</b>	function
<b>showsimplelist</b>	function	<b>tonewdidots</b>	function
<b>skipcodes</b>	data table	<b>tonode</b>	function
<b>slide</b>	function	<b>tonodes</b>	function
<b>snapshots</b>	table	<b>tonut</b>	function
F getparameters		<b>topicas</b>	function
F getsamples		<b>topoints</b>	function
F resetsamples		<b>toscaledpoints</b>	function
F takesample		<b>tosequence</b>	function
<b>somepenalty</b>	function	<b>tostring</b>	function
<b>somespace</b>	function	<b>totable</b>	function
<b>stripping</b>	table	<b>totree</b>	function
T glyphs		<b>toutf</b>	function

**tracers****table****traverse\_id**  
**typesetters****function**  
**table**

T characters

F collect

F equal

F indices

F start

F string

F unicodes

T colors

F reset

F set

F setlist

F fontchar

T frequencies

F register

T pool

T nodes

F rule

T nuts

F rule

F resetproperties

F rule

F setlist

F setproperties

F start

T steppers

F check

F codes

F features

F font

F glyphs

F message

F messages

F nofsteps

F register

F reset

F start

F stop

F stop

T transparencies

F reset

F set

F setlist

**traverse****function**

F hpack

F tohpack

F tohpackfast

F tonodes

F tovpack

F tovpackfast

F vpack

**unprotect\_glyphs****unset\_attribute****unsetattribute****unsetattributes****usedlist****vianodes****vianuts****visualizebox****visualizers**

F box

F handler

F markfonts

F setfont

F setlayer

F setvisual

**vpack****whatcodes****whatsitcodes****writable\_spec****write**

function

function

function

function

function

function

function

function

table

function

data table

data table

function

function

## 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

## 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 setmethod	
<b>analyze</b>	function	T sorters	
<b>authors</b>	table	F author	
F concat		F dataset	
F inverted		F reference	
F invertedshort		F short	
F normal		<b>listvariants</b>	table
F normalshort		F default	
F preparedsort		F num	
F setsettings		F short	
F short		<b>load</b>	function
F sorted		<b>loadbibdata</b>	function
F splitstring		<b>loaders</b>	table
<b>citeconcat</b>	function	F bib	
<b>citevariants</b>	table	F endnote	
F author		F lua	
F authornum		F refman	
F authoryear		F xml	
F authoryears		<b>markasupdated</b>	function
F default		<b>new</b>	function
F num		<b>refman_to_btx</b>	function
F page		<b>singularorplural</b>	function
F serial		<b>statistics</b>	table
F short		N nofbytes	
<b>collected</b>	data table	N nofdatasets	
<b>converttoxml</b>	function	N nofdefinitions	
<b>datasets</b>	table	N nofshortcuts	
<b>endnotes_to_btx</b>	function	<b>tracers</b>	table
<b>enhance</b>	function	T categories	
<b>getindex</b>	function	T article	
<b>listconcat</b>	function	T optional	
<b>lists</b>	table	T required	
F collectentries		T book	
F doifalreadyplaced		T optional	
F fetchentries		T required	
F filterall		T booklet	
F flushentries		T optional	
F nofregistered		T required	
F register		T inbook	
F registerplaced		T optional	
F resolve		T required	



- T incollection
  - T optional
  - T required
- T inproceedings
  - T optional
  - T required
- T manual
  - T optional
  - T required
- T mastersthesis
  - T optional
  - T required
- T misc
  - T optional
  - T required
- T phdthesis
  - T optional
  - T required
- T proceedings
  - T optional
  - T required
- T techreport
  - T optional
  - T required
- T unpublished
  - T optional
  - T required
- T citevariants
- T fields
- T listvariants
- F showdatasetcompleteness
- F showdatasetfields

## regimes (context)

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

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

<code>variableofformatorsuffix</code>	function
<code>wildcardpattern</code>	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)

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

**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>toboolean</b>	function
<b>autosingle</b>	function	<b>tocontext</b>	function
<b>booleanstring</b>	function	<b>todimen</b>	function
<b>byte</b>	function	<b>tonodes</b>	function
<b>bytepairs</b>	function	<b>topattern</b>	function
<b>bytes</b>	function	<b>totable</b>	function
<b>char</b>	function	<b>toutf</b>	function
<b>characterpairs</b>	function	<b>tracedchar</b>	function
<b>characters</b>	function	<b>tracedchars</b>	table
<b>checkedsplit</b>	function	<b>unquote</b>	function
<b>collapsespaces</b>	function	<b>unquoted</b>	function
<b>count</b>	function	<b>upper</b>	function
<b>dump</b>	function	<b>utfcharacters</b>	function
<b>escapedpattern</b>	function	<b>utfvalues</b>	function
<b>explode</b>	function	<b>valid</b>	function
<b>find</b>	function		
<b>format</b>	function		
<b>formatter</b>	function		
<b>formatters</b>	function		
<b>fullstrip</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>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		
<b>tformat</b>	function		

# structures (context)

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



F setup	
D stored	
<b>itemgroups</b>	<b>table</b>
F maxwidth	
F nofitems	
F register	
<b>lists</b>	<b>table</b>
F addto	
F analyze	
B autoreorder	
D cached	
D collected	
F discard	
F enhance	
T enhancers	
F filter	
F filtercollected	
F formulainumber	
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	
<b>marks</b>	<b>table</b>
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	
<b>notes</b>	<b>table</b>
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	
F postpone	
F resetpostponed	
F restore	
F save	
F setstate	
F setsymbolpage	
D states	
F store	
<b>pages</b>	<b>table</b>

- F analyze
- D collected
- F is\_odd
- N nopages
- F number
- F save
- D tobesaved

## references

## table

- F analyze
- F checkedfile
- F checkedfileorurl
- F checkedprogram
- F checkedrealpage
- F checkedurl
- D collected
- U componentsplitter
- F currentmetadata
- F currentorder
- D currentset
- F define
- D defined
- D derived
- F enableinteraction
- F enhance
- D executors
- F expandcurrent
- F export
- T files
  - T data
    - F define
    - F get
- F filter
- F filterdefault
- D filters
- D flaginternals
- F from
- F get
- F getcurrentmetadata
- F getcurrentprefixspec
- F getinnermethod
- F getinternallistreference
- F getinternalreference
- D handlers
- F identify

- F import
- F inject
- F injectcurrentset
- S innermethod
- D internals
- F load
- F loadpresets
- F mark
- D pages
- U prefixsplitter
- D productdata
- T programs
  - T data
    - F define
    - F get
- F realpageofpage
- U referencesplitter
- D referred
- F referredpage
- F registerfinalizer
- F registerinitializer
- F registerpage
- F reportproblems
- F reset
- D runners
- F set
- F setandgetattribute
- F setcomponent
- F setinnermethod
- F setinternalreference
- F setnextinternal
- F setnextorder
- D specials
- F splitcomponent
- F splitprefix
- F splitreference
- 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**                      table

- F analyze
- D collected
- F compare
- F define
- F enhance
- F extend
- F filter
- F filtercollected
- F finalize
- F flush
- F prepare
- F process
- F setmethod
- F sort
- F store
- D tobесaved
- F unique
- F userdata

**sections**                      table

- F autodepth
- F cct
- D collected
- F current
- F currentblock
- F currentid
- F currentlevel
- 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 tobесaved
- F typesetnumber
- F userdata
- B verbose

**sets**                                      table

- F define
- F get
- F getall
- D setlist

**specials**                                      table

- D collected
- F retrieve
- F store
- D tobесaved

## **synonyms**

F analyzed  
D collected  
F compare  
F define  
F filter  
F finalize  
F flush  
F meaning  
F prepare  
F process  
F register  
F registerused  
F sort  
F synonym  
D tobesaved

## **table**

D taglist  
T userdata

## **tags**

T data  
F detailedtag  
F getid  
F handler  
D labels  
F last  
F lastinchain  
T metadata  
D properties  
F registerdata  
F registermetadata  
F restart  
F setattributehash  
F setcombination  
F setdescription  
F setdescriptionsymbol  
F setfigure  
F sethighlight  
F setitemgroup  
F setproperty  
F setsorting  
F setsynonym  
F settablecell  
F settabulatecell  
F start  
F stop

## **table**

## table (basic lua)

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

## tex (basic tex)

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

<b>setmathcode</b>	function
<b>setnest</b>	function
<b>setsfcode</b>	function
<b>setskip</b>	function
<b>settoks</b>	function
<b>setuccode</b>	function
<b>sfcode</b>	table
<b>shipout</b>	function
<b>show_context</b>	function
<b>skip</b>	table
<b>sp</b>	function
<b>sprint</b>	function
<b>systemmodes</b>	data table
<b>takebox</b>	function
<b>texcatcodes</b>	number
<b>toks</b>	table
<b>tpacatcodes</b>	number
<b>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>	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)

## **alignments** table

F handler  
F set

## **breakpoints** table

F define  
F handler  
D mapping  
T methods  
T numbers  
F set  
F setreplacement

## **cases** table

T actions  
F handler  
F register  
F set

## **characteralign** table

F handler  
F resetcharacteralign  
F setcharacteralign

## **characters** table

F handler  
F replacensp  
F replacenspaces

## **checkers** table

F handler  
F reset  
F set

## **cleaners** table

F handler  
F set

## **digits** table

T actions  
F handler  
F set

## **directions** table

F getfences  
F getglobal  
F getmethod  
F handler  
T handlers

F installhandler

F processmath

F set

F setcolor

F setmath

F tomode

## **firstlines** table

T actions  
F default  
F line  
F word

F handler

F set

## **initials** table

T actions  
F default

F handler

F set

## **italics** table

F forcevariant

F handler

F reset

F set

## **kerns** table

D factors

F handler

F keepligature

B keptogether

D mapping

F set

## **margins** table

F finalhandler

F globalhandler

F ha

F localhandler

F save

## **processors** table

F apply

F register

F reset

F split

F startapply

F stopapply

F stripped

F toString

## **spacings**                      table

F define

F handler

D mapping

T numbers

  T frenchpunctuation

    T characters

      S name

      N number

F reset

F set

F setup

## **xtables**                      table

F cleanup

F construct

F create

F flush

F initialize\_construct

F initialize\_reflow\_height

F initialize\_reflow\_width

F next\_row

F reflow\_height

F reflow\_width

F set\_construct

F set\_reflow\_height

F set\_reflow\_width

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

## url (context)

<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 manipulated  
U manipulation  
T manipulators  
F lowercase  
F stripperperiod  
F uppercase  
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 splitthousands  
F stepper  
F stripped\_settings\_to\_array  
F unittotex  
F unittotxml

**report**  
**sequencers**      function  
table

F appendaction  
F appendgroup  
F compile  
F disableaction  
F disablegroup  
F enableaction  
F enablegroup  
D functions  
F localize  
F new  
F nodeprocessor  
F prependaction  
F prependgroup  
F removeaction  
F setkind  
F toString

**setters**      table

F disable  
F enable  
F initialize  
F list  
F new  
F register  
F report  
F reset  
F show

**stacker**      table

F new

**storage**      table

F allocate  
F checked  
F mark  
F marked  
F setinitializer  
F sparse

**strings**      table

F collapseCrLf  
T formatters  
F add  
F new  
F newrepeater  
F nice

T striplinepatterns  
U prune  
U prune and collapse  
U prune and no empty  
U retain  
U retain and collapse  
U retain and no empty

F striplines  
F striplong  
F tabtospace  
T tracers

**tables**      table

F accesstable  
F definedtable  
F definetable  
F encapsulate  
F insertaftervalue  
F insertbeforevalue  
F migratetable  
F removevalue

**templates**      table

F load  
F replace  
F replacer  
F resolve

## 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>index</b>	function
F position	<b>inheritedconvert</b>	function
F reverse	<b>inject</b>	function
F stripped	<b>inject_element</b>	function
F tag	<b>inject_element_after</b>	function
F tags	<b>inject_element_before</b>	function
F text	<b>injectafter</b>	function
F upper	<b>injectbefore</b>	function
F upperall	<b>insert</b>	function
T xml	<b>insert_element</b>	function
F all	<b>insert_element_after</b>	function
F att	<b>insert_element_before</b>	function
F attribute	<b>insertafter</b>	function
F attributes	<b>insertbefore</b>	function
F cdata	<b>insertcomment</b>	function
F chainattribute	<b>inspect</b>	function
F count	<b>is_valid</b>	function
F default	<b>kind</b>	function
F elements	<b>last</b>	function
F empty	<b>load</b>	function
F first	<b>lpath</b>	function
F function	<b>lpathcached</b>	function
F index	<b>lpathcalls</b>	function
F last	<b>lshow</b>	function
F lowerall	<b>makestandalone</b>	function
F match	<b>match</b>	function
F name	<b>name</b>	function
F position	<b>newhandlers</b>	function
F reverse	<b>nodesettostring</b>	function



<b>originalload</b>	function	<b>stripelement</b>	function
<b>package</b>	function	<b>stripleadingspaces</b>	function
<b>parent</b>	function	<b>table</b>	function
<b>parsedentitylpeg</b>	userdata	<b>text</b>	function
<b>pihandlers</b>	table	<b>textonly</b>	function
<b>placeholders</b>	table	<b>texttocdata</b>	function
F unknown_any_entity		<b>tocdata</b>	function
F unknown_dec_entity		<b>toelement</b>	function
F unknown_hex_entity		<b>tostring</b>	function
<b>position</b>	function	<b>toxml</b>	function
<b>privatecodes</b>	table	<b>tprint</b>	function
<b>privatetoken</b>	function	<b>traverse</b>	function
<b>process</b>	function	<b>unescaped</b>	function
<b>process_attributes</b>	function	<b>unprivatized</b>	function
<b>process_elements</b>	function	<b>withelement</b>	function
<b>processattributes</b>	function	<b>withelements</b>	function
<b>profiled</b>	table	<b>wrap</b>	function
<b>raw</b>	function	<b>xmlns</b>	table
<b>registerentity</b>	function		
<b>registerns</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>resolvns</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>sethandlersfunction</b>	function		
<b>setproperty</b>	function		
<b>settings</b>	function		
<b>specialhandler</b>	table		
<b>sprint</b>	function		
<b>string</b>	function		
<b>strip</b>	function		
<b>strip_whitespace</b>	function		

## 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