

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** **newtoken** noads  
**node** nodes number **os** **package** pagebuilders  
parametersets **pdf** pdfscanner physics  
**profiler** publications regimes resolvers  
sandbox scripts set **socket** sorters  
statistics **status** storage streams **string**  
structures **table** **tex** **texconfig** **texio**  
thirddata tokens tracers trackers  
typesetters **unicode** url userdata utilities  
vf visualizers xml **zip** **zlib**

# ConT<sub>E</sub>Xt MkIV

# global (alias: \_G)

MP	table	figures	table
_LUAVERSION	number	file	table
_MAJORVERSION	number	floats	table
_MINORVERSION	number	font	table
arg	table	fontloader	table
assert	function	fonts	table
attributes	table	frozen	boolean
backends	table	functions	table
beginpage	function	gcinfo	function
bit	table	getenv	function
bit32	table	getmetatable	function
blobs	table	getpos	function
boolean	table	getvpos	function
buffers	table	global	table
builders	table	graphics	table
caches	table	gzip	table
callback	table	img	table
callbacks	table	inspect	function
catcodes	table	interactions	table
characters	table	interfaces	table
chemistry	table	io	table
collectgarbage	function	ipairs	function
commands	table	jit	table
containers	table	job	table
context	function	lang	table
converters	table	languages	table
coroutine	table	layouts	table
ctx_doifelse	function	lfs	table
ctxrunner	table	libraries	table
debug	table	lmx	table
dimen	function	load	function
dir	table	loadfile	function
directives	table	loadstring	function
document	table	logs	table
documentdata	table	lpdf	table
dofile	function	lpeg	table
endpage	function	ltn12	table
environment	table	lua	table
epdf	table	luatex	table
error	function	lxml	table
experiments	table	math	table

mathematics	table	setfenv	function
mbox	table	setinspector	function
md5	table	setmetatable	function
metapost	table	socket	table
mime	table	sorters	table
module	function	statistics	table
moduledata	table	status	table
modules	table	storage	table
mp	table	streams	table
mplib	table	string	table
newproxy	function	structures	table
newtoken	table	swiglib	function
next	function	table	table
noads	table	tex	table
node	table	texconfig	table
nodes	table	texio	table
number	table	thirddata	table
optionalrequire	function	toboollean	function
os	table	tokens	table
outputpagestree	function	tonumber	function
package	table	tostring	function
pagebuilders	table	tracers	table
pairs	function	trackers	table
parametersets	table	type	function
pcall	function	typesetters	table
pdf	table	unicode	table
pdfscanner	table	unpack	function
physics	table	url	table
print	function	userdata	table
profiler	table	utf	table
protect	function	utilities	table
publications	table	vf	table
rawequal	function	visualizers	table
rawget	function	xml	table
rawlen	function	xpcall	function
rawset	function	zip	table
regimes	table	zlib	table
require	function		
resolvers	table		
resolvestoredfunction	function		
sandbox	table		
scripts	table		
select	function		
set	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 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

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

# backends (context)

<b>codeinjections</b>	table	F hasmatrix
	F synchronizecolormodel	F insertrenderingwindow
<b>current</b>	string	F mergebookmarks
<b>defaults</b>	table	F mergereferences
	T codeinjections	F mergeviewerlayers
	F gethpos	F prerollreference
	F getmatrix	F presetsymbol
	F getpos	F presetsymbollist
	F getvpos	F processrendering
	F hasmatrix	F registerdocumentcloseaction
	T nodeinjections	F registerdocumentopenaction
	T registrations	F registeredsymbol
	D tables	F registerpagecloseaction
<b>install</b>	function	F registerpageopenaction
<b>nodeinjections</b>	table	F registersymbol
	F restore	F setfieldcalculationset
	F save	F setfigurealternative
	F transform	F setfigurecolorspace
<b>nothing</b>	function	F setfiguremask
<b>pdf</b>	table	F setformat
	T codeinjections	F setformsmethod
	F addbookmarks	F setpagetransition
	F attachmentid	F setupcanvas
	F clonefield	F setupidentity
	F definefield	F setxmpfile
	F definefieldset	F startlayer
	F defineviewerlayer	F stoplayer
	F embedfile	F supportedformats
	F enabletags	F unicodetoactualtext
	F exportformdata	F useviewerlayer
	F getbookmarks	F validfield
	F getdefaultfieldvalue	F validfieldcategory
	F getfieldcategory	F validfieldset
	F getfieldset	S comment
	F getformatoption	T nodeinjections
	F gethpos	F addtags
	F getmatrix	F annotation
	F getoutputfilename	F attachfile
	F getpos	F changestackedlayer
	F getpreviewfigure	F cmykcolor
	F getvpos	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
<b>undent</b>	function

# builders (context)

## **kernel**      table

- F hyphenation
- F kerning
- F ligaturing
- F mlist\_to\_hlist
- T originals
  - F hyphenate
  - F kerning
  - F ligaturing

## **paragraphs**   table

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

- F tag

## **vspacing**      table

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

## caches (context)

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

## callback (basic tex)

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

## callbacks (context)

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



## catcodes (context)

**names** data table

**numbers** data table

**register** function

## characters (context)

<b>activeoffset</b>	number	S ai	
<b>adobename</b>	function	S al	
<b>bidirectional</b>	data table	S b2	
<b>blockrange</b>	function	S ba	
<b>blocks</b>	data table	S bb	
<b>casemap</b>	table	S bk	
<b>categories</b>	data table	S cb	
<b>category</b>	function	S cj	
<b>categorytags</b>	data table	S cl	
<b>collapsed</b>	data table	S cm	
<b>combined</b>	data table	S cp	
<b>contextname</b>	function	S cr	
<b>data</b>	data table	S ex	
<b>decomposed</b>	data table	S gl	
<b>define</b>	function	S h2	
<b>description</b>	function	S h3	
<b>descriptions</b>	data table	S hl	
<b>directions</b>	table	S hy	
<b>encodes</b>	data table	S id	
<b>entities</b>	data table	S in	
<b>fallbacks</b>	data table	S is	
<b>filters</b>	data table	S jl	
<b>fromnumber</b>	function	S jt	
<b>fschars</b>	data table	S jv	
<b>fscodes</b>	data table	S lf	
<b>getrange</b>	function	S nl	
<b>graphemes</b>	data table	S ns	
<b>hangul</b>	data table	S nu	
<b>initialize</b>	function	S op	
<b>is_character</b>	data table	S po	
<b>is_command</b>	data table	S pr	
<b>is_letter</b>	data table	S qu	
<b>is_mark</b>	data table	S ri	
<b>is_punctuation</b>	data table	S sa	
<b>is_spacing</b>	data table	S sg	
<b>lcchars</b>	data table	S sp	
<b>lccode</b>	function	S sy	
<b>lccodes</b>	data table	S wj	
<b>lettered</b>	function	S xx	
<b>lhash</b>	data table	S zw	
<b>linebreaks</b>	table	<b>lower</b>	function

<b>math</b>	table
<b>mathpairs</b>	data table
<b>mirrors</b>	table
<b>otfscripts</b>	data table
<b>ranges</b>	data table
<b>registerentities</b>	function
<b>remap_hangul_syllabe</b>	function
<b>setcodes</b>	function
<b>shape</b>	function
<b>shaped</b>	function
<b>shash</b>	data table
<b>shchars</b>	data table
<b>shcodes</b>	data table
<b>showstring</b>	function
<b>specialchars</b>	data table
<b>specials</b>	data table
<b>splits</b>	table
T char	
T compat	
<b>subscripts</b>	table
<b>superscripts</b>	table
<b>synonyms</b>	data table
<b>tex</b>	table
D accentmapping	
D commandmapping	
F defineaccents	
F safechar	
F toutf	
F toutfpattern	
<b>textclasses</b>	table
<b>tonumber</b>	function
<b>ucchars</b>	data table
<b>uccode</b>	function
<b>uccodes</b>	data table
<b>uhash</b>	data table
<b>unicodechar</b>	function
<b>upper</b>	function

## 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

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

## coroutine (basic lua)

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

## ctxrunner (context)

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



## debug (basic lua)

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

## dir (context)

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

## directives (context)

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

# document (context)

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

## environment (context)

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

## epdf (extra tex)

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

## experiments (context)

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

## figures (context)

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



## file (basic lua)

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

## floats (context)

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

## font (basic tex)

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

## fontloader (extra tex)

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

# fonts (context)

## **analyzers**            table

T features

N blwf

N fina

N half

N init

N isol

N medi

N pref

N pstf

N rphf

D initializers

D methods

F setstate

T states

N blwf

N fina

N half

N init

N isol

N mark

N medi

N pref

N pstf

N rest

N rphf

B useunicodemarks

## **checkers**            table

F getmissing

F missing

## **cid**                    table

F getmap

F loadfile

## **collections**        table

F checkenabled

F clonevector

F define

T definitions

F prepare

F process

F registermain

F report

F reset

T vectors

## **constructors**        table

F addcoreunicodes

F aftercopyingcharacters

F applymanipulators

F assignmathparameters

B autocleanup

F beforecopyingcharacters

D cache

B cacheintex

F calculatescale

F checkedfeatures

F checkedfilename

F checkvirtualids

F cleanuptable

F collectprocessors

F currentfonthasfeature

D designsizes

D dontembed

F enhanceparameters

N factor

F finalize

F getfeatureaction

F hashfeatures

F hashinstance

T hashmethods

F normal

F virtual

F initializefeatures

T keys

T character

S depth

S height

S italic

S width

T description

T boundingbox

S depth

S height

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

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

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



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

N patahnarrowhebrew	N qubuts31
N patahquarterhebrew	N qubutshebrew
N pe	N qubutsnarrowhebrew
N pedagesh	N qubutsquarterhebrew
N qamats	N quotelleftreversed
N qamats10	N rafe
N qamats1a	N rcedilla
N qamats1c	N reharabic
N qamats27	N resh
N qamats29	N reshhatafpatah
N qamats33	N reshhatafpatahhebrew
N qamatsde	N reshhatafsegol
N qamatshebrew	N reshhatafsegolhebrew
N qamatsnarrowhebrew	N reshhebrew
N qamatsqatanhebrew	N reshhiriq
N qamatsqatannarrowhebrew	N reshhiriqhebrew
N qamatsqatanquarterhebrew	N ressholam
N qamatsqatanwidehebrew	N ressholamhebrew
N qamatsquarterhebrew	N reshpatah
N qof	N reshpatahhebrew
N qofdagesh	N reshqamats
N qofhatafpatah	N reshqamatshebrew
N qofhatafpatahhebrew	N reshqubuts
N qofhatafsegol	N reshqubutshebrew
N qofhatafsegolhebrew	N reshsegol
N qofhebrew	N reshsegolhebrew
N qofhiriq	N reshsheva
N qofhiriqhebrew	N reshshevahebrew
N qofholam	N reshtsere
N qofholamhebrew	N reviahebrew
N qofpatah	N samekh
N qofpatahhebrew	N samekhdagesh
N qofqamats	N segol
N qofqamatshebrew	N segol13
N qofqubuts	N segol1f
N qofqubutshebrew	N segol2c
N qofsegol	N segolhebrew
N qofsegolhebrew	N segolnarrowhebrew
N qofsheva	N segolquarterhebrew
N qofshevahebrew	N sevenarabic
N qoftsere	N sfthyphen
N qubuts	N shaddaarabic
N qubuts18	N sheqel
N qubuts25	N sheva

N sheva115	N yoddagesh
N sheva15	N zayin
N sheva22	N zayindagesh
N sheva2e	N zdot
N shevahebrew	N zeroarabic
N shevanarrowhebrew	D unicodes
N shevaquarterhebrew	D cache
N shin	F is_known
N shindagesh	D known
N shindageshshindot	F load
N shindageshshindot	F make_unicode_vector
N shinshindot	D math
N shinsindot	N version
N siluqhebrew	<b>expansions</b> data table
N sixarabic	<b>formats</b> data table
N tav	<b>goodies</b> table
N tavadages	D colorschemes
N tavadagesh	D data
N tcedilla	D designsizes
N tchehinitialarabic	D filenames
N tet	F getcompositions
N tetdagesh	T list
N tevirhebrew	F compositions
N thousandsseparatorarabic	F designsizes
N threearabic	F expansions
N tildecmb	F featureset
N tipehahebrew	F filenames
N tsadi	F files
N tsadidagesh	F mathematics
N tsere	F protrusions
N tsere12	F solutions
N tsere1e	F treatments
N tsere2b	F typefaces
N tserehebrew	F load
N tserenarrowhebrew	F prepare_features
N tserequarterhebrew	F register
N twoarabic	F registerpostprocessor
N udblacute	F report
N vav	<b>handlers</b> table
N vavdagesh	T afm
N vavdagesh65	B addkerns
N vavholam	B addligatures
N yerahbenyomohebrew	B addtexligatures
N yod	B autoprefixed

D cache	F gsub_ligature
D features	F gsub_multiple
T helpdata	F gsub_reversecontextchain
D bothkerned	F gsub_single
D leftkerned	F load
D ligatures	F scriptandlanguage
D rightkerned	F setcontextchain
D texligatures	F setdynamics
F load	F setfeatures
F setfeatures	T statistics
B syncspace	D usedfeatures
N version	T tables
T otf	D baselines
F addfeature	D features
D cache	D languages
T chainhandlers	D scripts
F normal	N version
F verbose	T pfb
F collectlookups	T tfm
F dataset	D features
S defaultbasealternate	F setfeatures
S defaultnodealternate	T vf
D enhancers	T combinations
D features	F combine
F fileformat	T combiner
F getalternate	D commands
T glists	F find
T handlers	D helpers
F contextchain	D math
F devanagari_remove_joiners	D predefined
F devanagari_reorder_matras	D whatever
F devanagari_reorder_pre_base_reordering_matras	D consonants
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

D modes		F loadlumtable	
D originals		F makenameparser	
D parameters		D overloads	
T processes		F reset	
D properties		F tounicode	
D quads		F tounicode16	
D resources		F tounicode16sequence	
T setdynamics		<b>mp</b>	table
D spaces		D cache	
D spacings		B inline	
D unicodes		N version	
D xheights		<b>names</b>	data table
<b>helpers</b>	table	<b>nulldata</b>	data table
F addprivate		<b>protrusions</b>	data table
F dimenfactor		<b>readers</b>	table
F expandglyph		F afm	
F fontpatternhassize		F check_lua	
F getdigitwidth		F check_tfm	
F getparameters		F dfont	
F getprivatenode		F lua	
F hasprivate		F opentype	
F indextoslot		F otf	
F name		F pfb	
F nametoslot		D sequence	
F setdigitwidth		F tfm	
F splitfontpattern		F ttc	
F tochar		F ttf	
<b>iterators</b>	table	<b>select</b>	table
F characters		T data	
F descriptions		F definetypeface	
F glyphs		T fallbacks	
<b>loggers</b>	table	F filterinput	
F add_placeholders		T methods	
D category_to_placeholder		F default	
F format		F features	
F onetimemessage		F file	
F register		F goodies	
F reportdefinedfonts		F name	
F reportusedfeatures		F selectfont	
<b>mappings</b>	table	F simplefonts	
F addtounicode		F spec	
F fromunicode16		F style	
F loadfile		F registerfallback	
F loadline		F searchfiles	

**specifiers**            table

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

**symbols**            table

- F uselibrary

**tables**            table

**tracers**            table

**treatments**        table

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

**typefaces**        data table

# functions (context)

**dummy** function

# graphics (context)

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



## gzip (extra lua)

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

## img (basic tex)

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

# interactions (context)

**attachments** data table

**fields** table

F clone

F define

F defineset

F insert

**general** table

F getidentity

F setupidentity

**help** table

F collect

F reference

F register

**javascripts** table

F addtopreamble

F code

D codes

F flushpreambles

D functions

D preambles

F setpreamble

F storecode

F storepreamble

F usepreamblenow

F usescripts

**linkedlists** data table

**pages** table

F setpagetransition

F setupcanvas

**references** table

F setclosedocument

F setclosepage

F setopendocument

F setopenpage

**renderings** data table

**soundclips** data table

# interfaces (context)

<b>addvalidkeys</b>	function	F MPw
<b>cachedsetups</b>	data table	F MPx
<b>cachesetup</b>	function	F MPxy
<b>checkedspecification</b>	function	F MPxywhd
<b>complete</b>	data table	F MPy
<b>constants</b>	data table	F addcounter
<b>corenamespaces</b>	data table	F addfeature
<b>definecommand</b>	function	F addtolist
<b>doifelsemessage</b>	function	F analyzelist
<b>elements</b>	data table	F assignbuffer
<b>formats</b>	data table	F autofinishstructurelevels
<b>getcheckedparameters</b>	function	F autonextstructurelevel
<b>getmessage</b>	function	F bposcolumn
<b>hashedsetups</b>	data table	F bposcolumnregistered
<b>implement</b>	function	F btxauthorfield
<b>interfacedcommand</b>	function	F btxdetail
<b>interfaces</b>	table	F btxdirect
<b>invalidkey</b>	function	F btxdoif
<b>is_command</b>	function	F btxdoifelse
<b>namespaces</b>	table	F btxdoifelsesameasprevious
F define		F btxdoifnot
F list		F btxfield
<b>registernamespace</b>	function	F btxfieldname
<b>scanners</b>	table	F btxfieldtype
F MPc		F btxfirstofrange
F MPd		F btxflush
F MPH		F btxfoundname
F MPLl		F btxfoundtype
F MPLr		F btxoneorrange
F MPLs		F btxsingularplural
F MPn		F checkcounterssetup
F MPp		F chemicalcomponent
F MPpardata		F cleanupbox
F MPplus		F colorcomponents
F MPpos		F copyposition
F MPposset		F countervalue
F MPr		F currentbtxfirstnames
F MPrest		F currentbtxinitials
F MPrs		F currentbtxjuniors
F MPul		F currentbtxsurnames
F MPur		F currentbtxvons

F currentsectiontolist	F doifpositiononpageelse
F decrementcounter	F doifpositionsonsamepageelse
F decrementedcounter	F doifpositionsonthispageelse
F decrementsubcounter	F dosaveposition
F definecounter	F dosavepositionplus
F definefont_one	F dosavepositionwhd
F definefont_two	F dosetposition
F definefontfeature	F dosetpositionbox
F defineintermediatecolor	F dosetpositionplus
F definemarking	F dosetpositionstrut
F definemultitonecolorglobal	F dosetpositionwhd
F defineprocesscolordummy	F enableregime
F defineprocesscolorglobal	F enhancelist
F defineprocesscolorlocal	F eposcolumn
F definesnapmethod	F eposcolumnregistered
F definespotcolorglobal	F erasebuffer
F definetransparency	F featureattribute
F defrostrandomseed	F featurelist
F depthnumber	F feedback
F disableregime	F fetchallmarks
F discardfromlist	F fetchmultipar
F doifblackelse	F fetchmultishape
F doifcounter	F fetchonemark
F doifdrawingblackelse	F fetchposboxes
F doifelsebuffer	F fetchtwomarks
F doifelsecounter	F figure_check
F doifelsecurrentfonthasfeature	F figure_done
F doifelsemarking	F figure_dummy
F doifelsemessage	F figure_identify
F doifelsepositionsused	F figure_include
F doifelserangeonpage	F figure_pop
F doiffileexistelse	F figure_push
F doifinelementelse	F figure_scale
F doiflisthasentry	F figurefilename
F doiflisthasnumberelse	F figurefilepath
F doiflisthaspageelse	F figurefiletype
F doiflisthastitleelse	F figurerequest
F doifnotcounter	F figurestatus
F doifobjectreferencefoundelse	F figureused
F doifoverlappingelse	F finalizebox
F doifparentfileelse	F firstcountervalue
F doifpathexistelse	F firstsubcountervalue
F doifposition	F fontchar
F doifpositionelse	F fontcharbyindex

F formatcolor	F mpgettext
F formatgray	F mpgraphic
F freezerandomseed	F mpoptions
F getbodyfontsizes	F mprunset
F getbuffer	F mpruntab
F getbuffercxtlua	F mprunvar
F getbuffermkvi	F mpsetclippath
F getelementtag	F mpsetoutercolor
F getfullstructurenumber	F mpsetsxsy
F getmarking	F mpsettext
F getmessage	F mptexget
F getmpextensions	F mptexreset
F getrandomdimen	F mptexset
F getrandomfloat	F mptexsetfrombuffer
F getrandomnumber	F namedstructureuservariable
F getrandomseed	F namedstructurevariable
F getsomefullstructurenumber	F nbfs
F getsomestructurenumber	F nextcountervalue
F getspecificstructuretitle	F nextsubcountervalue
F getstructurelevel	F objectnumber
F getstructurenumber	F objectpage
F gettexbuffer	F parpos
F incrementcounter	F pdfrotation
F incrementedcounter	F pdfstartmatrix
F incrementsubcounter	F pdfstartmirroring
F lastcountervalue	F pdfstartrotation
F lastsubcountervalue	F pdfstartscaling
F listgroupindex	F pdfstopmatrix
F listlabel	F pdfstopmirroring
F listlocation	F pdfstoprotation
F listprefixednumber	F pdfstopscaling
F listprefixedpage	F pgfxcolorspec
F listrealpage	F pickupbuffer
F listsize	F poplist
F listtitle	F popregime
F listuserdata	F popsectionblock
F markingnumber	F prefixedconverted
F markingtitle	F prevcountervalue
F markregionbox	F previoussubcountervalue
F markregionboxcorrected	F processbodyfontsizes
F markregionboxtagged	F processbuffer
F mpcolor	F processcolorcomponents
F mpflushliteral	F processlist
F mpflushreset	F processsynonyms

F purefontname	F setfontfeature
F pushlist	F setfontofid
F pushregime	F setinterfaceconstant
F pushsectionblock	F setinterfaceelement
F rawcountervalue	F setinterfacemessage
F rawsubcountervalue	F setinterfacemessages
F registerbodyfontsize	F setinterfacevariable
F registerfigurepattern	F setinternalreference
F registerfiguresuffix	F setmarking
F registerlanguagefeatures	F setmathalphabet
F registermaintextcolor	F setmathattribute
F registernamespace	F setmathstyle
F registersection	F setmpextensions
F registersynonym	F setobject
F registerusedsynonym	F setowncounter
F relatemarking	F setownsubcounter
F replacefeature	F setrandomseed
F replacepospxywhd	F setsectionblock
F reportstructure	F setsectionentry
F resetcounter	F setstructurelevel
F resetfeature	F setstructurenumber
F resetfontfeature	F setsubcounter
F resetmarking	F settagaspect
F resetprevdepth	F settaggedmetadata
F resetsubcounter	F settagproperty
F restartcounter	F settagproperty_b
F restartsubcounter	F settagproperty_n
F restorecounter	F showassignerror
F revivefeature	F showcounter
F runbuffer	F showmessage
F savebuffer	F splitfilename
F savecounter	F spotcolorname
F savedlistnumber	F spotcolorparent
F savedlistprefixednumber	F spotcolorvalue
F savedlisttitle	F startcolorset
F saveobject	F startregime
F savepagedata	F starttag
F setcharactercasing	F starttag_c
F setcolormodel	F starttag_d
F setcounter	F starttag_u
F setelementuserproperties_o	F stopcolorset
F setelementuserproperties_t	F stopregime
F setfigurelookuporder	F stoptag
F setfigurepaths	F structureautocatcodedget

F structurecatcodedget  
F structuregivencatcodedget  
F structurenumber  
F structuretitle  
F structureuservariable  
F structurevariable  
F subcountervalue  
F subcountervalues  
F subsubcountervalues  
F subtractfeature  
F synchronizemarking  
F synonymmeaning  
F synonymname  
F tochar  
F transparencycomponents  
F type  
F typebuffer  
F typefile  
F useMPLibrary  
F usecolors  
F usefigurebase  
F vspacing  
F vspacingcollapse  
F vspacingdefine  
F vspacingsetamount  
F vspacingsnap  
F way  
F writestatus  
F xmllafterdocumentsetup  
F xmllafterssetup  
F xmlall  
F xmlappenddocumentsetup  
F xmlappendsetup  
F xmlatt  
F xmlattdef  
F xmlattribute  
F xmlattributedef  
F xmlbeforedocumentsetup  
F xmlbeforesetup  
F xmlchainatt  
F xmlchainattdef  
F xmlchecknamespace  
F xmlcommand  
F xmlconcat

F xmlconcatrange  
F xmlcontext  
F xmlcount  
F xmldelete  
F xmldirect  
F xmldirectives  
F xmldirectivesafter  
F xmldirectivesbefore  
F xmldisplayverbatim  
F xmldoif  
F xmldoifelse  
F xmldoifelseempty  
F xmldoifelseselfempty  
F xmldoifelsetext  
F xmldoifempty  
F xmldoifnot  
F xmldoifnotempty  
F xmldoifnotselfempty  
F xmldoifnottext  
F xmldoifselfempty  
F xmldoiftext  
F xmlelement  
F xmlfilter  
F xmlfilterlist  
F xmlfirst  
F xmlflush  
F xmlflushcontext  
F xmlflushdocumentsetups  
F xmlflushlinewise  
F xmlflushspacewise  
F xmlfunction  
F xmlgetindex  
F xmlinclude  
F xmlincludeoptions  
F xmlinclusion  
F xmlinclusions  
F xmlindex  
F xmlinfo  
F xmlinlineverbatim  
F xmllast  
F xmlload  
F xmlloadbuffer  
F xmlloaddata  
F xmlloaddirectives



F xmlloadregistered	<b>setelement</b>	function
F xmlmain	<b>setformat</b>	function
F xmlmatch	<b>setmacro</b>	function
F xmlname	<b>setmessage</b>	function
F xmlnamespace	<b>setmessages</b>	function
F xmlnonspace	<b>settranslation</b>	function
F xmlpos	<b>setuserinterface</b>	function
F xmlprependdocumentsetup	<b>setvalidkeys</b>	function
F xmlprependsetup	<b>setvariable</b>	function
F xmlraw	<b>showmessage</b>	function
F xmlregisterns	<b>storedscanners</b>	data table
F xmlremapname	<b>syntax</b>	data table
F xmlremapnamespace	<b>tolist</b>	function
F xmlremovedocumentsetup	<b>translations</b>	data table
F xmlremovesetup	<b>variables</b>	data table
F xmlresetdocumentsetups	<b>writestatus</b>	function
F xmlsave		
F xmlsetcommandtonone		
F xmlsetcommandtotext		
F xmlsetentity		
F xmlsetfunction		
F xmlsetsetup		
F xmlsnippet		
F xmlstartraw		
F xmlstarttiming		
F xmlstopraw		
F xmlstoptiming		
F xmlstrip		
F xmlstripanywhere		
F xmlstripnolines		
F xmlstripped		
F xmlstrippednolines		
F xmltag		
F xmltexentity		
F xmltext		
F xmltobuffer		
F xmltobufferverbose		
F xmltofile		
F xmltoparameters		
F xmlverbatim		
F xmlwithindex		
<b>setconstant</b>		function
<b>setcount</b>		function
<b>setdimen</b>		function

## 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>input</b>	overloaded function
<b>lines</b>	overloaded function
<b>loadchunk</b>	function
<b>loaddata</b>	function
<b>loadlines</b>	function
<b>noflines</b>	function
<b>open</b>	overloaded function
<b>output</b>	overloaded 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 funcnk	
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)

<b>comment</b>	function	F getcollected
<b>datasets</b>	table	F getdata
D collected		F getfield
F extend		F gettobesaved
F getdata		F inlist
F setdata		F last
D tobesaved		F list
<b>disablesave</b>	function	F save
<b>files</b>	table	F savetagged
D collected		D tobesaved
F context		<b>positions</b> table
B forcerun		F b_col
F run		F b_region
D tobesaved		F c
<b>initialize</b>	function	D collected
<b>load</b>	function	F column
<b>loadother</b>	function	F copy
<b>objects</b>	table	F depth
D collected		F e_col
F get		F e_region
F number		F enhance
F page		F extra
F save		F get
F set		F getreserved
D tobesaved		F hangafter
<b>pack</b>	boolean	F hangindent
<b>packversion</b>	number	F height
<b>pagestates</b>	table	F hsize
D collected		F leftskip
F extend		F lowerleft
F realpage		F lowerright
F setstate		F markregionbox
D tobesaved		F n
<b>passes</b>	table	F onsamepage
F check		F overlapping
D collected		F p
F count		F page
F define		F paragraph
F find		F parindent
F first		F position
F get		F r

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

## lang (basic tex)

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

# languages (context)

<b>associate</b>	function	<b>numbers</b>	data table
<b>associated</b>	data table	<b>postexhyphenchar</b>	function
<b>association</b>	function	<b>posthyphenchar</b>	function
<b>counters</b>	data table	<b>preexhyphenchar</b>	function
<b>current</b>	function	<b>prehyphenchar</b>	function
<b>data</b>	data table	<b>registered</b>	data table
<b>define</b>	function	<b>replacements</b>	table
<b>expand</b>	function	F add	
<b>expanders</b>	table	F handler	
<b>frequencies</b>	table	F set	
F averagecharwidth		<b>righthyphenmin</b>	function
F getdata		<b>serializediscretionary</b>	function
<b>getdata</b>	function	<b>setexceptions</b>	function
<b>getnumber</b>	function	<b>setsynonym</b>	function
<b>hyphenate</b>	function	<b>unload</b>	function
<b>hyphenators</b>	table	<b>version</b>	number
T dictionaries		<b>visualizediscretionaries</b>	function
D featuresets		<b>words</b>	table
F handler		F check	
F popmethod		T data	
F pushmethod		F disable	
F setmethod		F enable	
T traditional		T enablers	
F definefeatures		B enables	
F gettrace		F found	
F hyphenate		F load	
F injectthyphens		T methods	
F installmethod		N threshold	
F lasttrace			
F loadpatterns			
F registerexception			
F registerpattern			
<b>installed</b>	function		
<b>labels</b>	table		
F define			
F split			
<b>lefthyphenmin</b>	function		
<b>loadable</b>	function		
<b>loadwords</b>	function		
<b>logger</b>	table		
F report			

# layouts (context)

**status** table

F isleftpage

F lefttorrightpageection



## lfs (extra lua)

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

## libraries (context)

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

# lmx (context)

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

F a  
F td  
F th

**include** function  
**inherited** table  
S color-background-four  
S color-background-one  
S color-background-three  
S color-background-two  
S title

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

**stripcss** function  
**tv** function  
**type** function  
**urlescape** function  
**variable** function  
**variables** table  
S color-background-blue  
S color-background-body  
S color-background-green  
S color-background-main  
S color-background-purple  
S color-background-yellow  
S title-default

# logs (context)

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

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

# lpdf (context)

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

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

## lpeg (basic lua)

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

## ltn12 (extra lua)

**BLOCKSIZE** number

**filter** table

F chain

F cycle

**pump** table

F all

F step

**sink** table

F chain

F error

F file

F null

F simplify

F table

**source** table

F cat

F chain

F empty

F error

F file

F rewind

F simplify

F string



## lua (basic tex)

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

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

## math (basic lua)

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

# mathematics (context)

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

## mbox (context)

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

## md5 (extra lua)

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



# metapost (context)

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

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

## mime (extra lua)

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

## mp (context)

<b>_f_</b>	function
<b>dataset</b>	function
<b>datasets</b>	table
<b>F load</b>	
<b>format</b>	function
<b>get</b>	table
<b>F boolean</b>	
<b>F number</b>	
<b>F numeric</b>	
<b>F string</b>	
<b>n</b>	function
<b>numeric</b>	function
<b>pair</b>	function
<b>path</b>	function
<b>print</b>	function
<b>quadruple</b>	function
<b>quoted</b>	function
<b>size</b>	function
<b>triplet</b>	function

## mplib (extra tex)

<b>fields</b>	function
<b>finder</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>	overloaded function
<b>pen_info</b>	function
<b>preprocessed</b>	function
<b>version</b>	function

## newtoken (basic tex)

<b>create</b>	function
<b>get_next</b>	function
<b>is_token</b>	function
<b>scan_code</b>	function
<b>scan_dimen</b>	function
<b>scan_glue</b>	function
<b>scan_int</b>	function
<b>scan_keyword</b>	function
<b>scan_string</b>	function
<b>scan_token</b>	function
<b>scan_toks</b>	function
<b>scan_word</b>	function
<b>set_macro</b>	function
<b>type</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>idstostring</b>	function
<b>free</b>	function	<b>ignorablefields</b>	data table

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

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

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

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

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

## 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>	overloaded function		
<b>rename</b>	overloaded 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	S editor
<b>analyze</b>	function	S journal
<b>anywhere</b>	function	S keywords
<b>authorcache</b>	table	S number
<b>authorcollapsers</b>	data table	S pages
<b>casters</b>	table	S title
F author		S volume
F keyword		S year
F pagenumber		T optional
F range		T required
<b>citevariants</b>	table	T sets
F author		T author
F authornum		T virtual
F authoryear		T book
F authoryears		S category
F category		T extra
F default		T fields
F entry		S address
F index		S author
F key		S edition
F keywords		S editor
F num		S keywords
F page		S number
F serial		S publisher
F short		S subtitle
F tag		S title
F type		S volume
F year		S year
<b>collected</b>	data table	T optional
<b>components</b>	table	T required
F author		T sets
<b>concatstate</b>	function	T author
<b>converttoxml</b>	function	T editionset
<b>currentspecification</b>	table	T virtual
S author		T demo-a
T categories		S category
T article		T extra
S category		T fields
T extra		S author
T fields		S institution
S author		S organization



S subtitle		T gskip	
S title		T kind	
S year		T list	
T optional		T system	
T required		T order	
T sets		<b>enhancers</b>	table
T author		F details	
T virtual		F order	
T demo-b		F suffixes	
S category		<b>finder</b>	function
T extra		<b>found</b>	function
T fields		<b>get</b>	function
S author		<b>getcasted</b>	function
S institution		<b>getdetail</b>	function
S organization		<b>getdirect</b>	function
S subtitle		<b>getfaster</b>	function
S title		<b>getfield</b>	function
S year		<b>getfuzzy</b>	function
T optional		<b>getindex</b>	function
T required		<b>inspectors</b>	data table
T sets		<b>journals</b>	table
T authors		F abbreviated	
T virtual		F add	
S comment		F expanded	
S copyright		F load	
T fields		F save	
S name		<b>lists</b>	table
T types		F collectentries	
S author		F fetchentries	
S editor		F filterall	
S keywords		F flushentry	
S number		T methods	
S page		F dataset	
S pages		F force	
S volume		F global	
S version		F local	
T virtual		F nofregistered	
<b>datasets</b>	table	F prepareentries	
<b>detailed</b>	table	F register	
<b>endnotes_to_btx</b>	function	F sameasprevious	
<b>enhancer</b>	table	T sorters	
S arguments		F dataset	
T askip		F default	
B dirty		F reference	

F short		N nofdatasets	
F uservariable		N nofdefinitions	
<b>listvariants</b>	table	N nofshortcuts	
F bib		<b>tables</b>	table
F default		D implicits	
F num		D origins	
F page		D privates	
F short		D sets	
F yes		D specials	
<b>load</b>	function	D types	
<b>loadbibdata</b>	function	D virtuals	
<b>loaders</b>	table	<b>tags</b>	function
F bbl		<b>tracers</b>	table
F bib		F showdatasetauthors	
F buffer		F showdatasetcompleteness	
F endnote		F showdatasetfields	
F lua		F showentry	
F refman		F showfields	
F registercleaner		F showtables	
F xml		F showvariants	
<b>new</b>	function	<b>typesetters</b>	table
<b>okay</b>	function	F author	
<b>parenttag</b>	function	F string	
<b>permitted</b>	function	<b>usedentries</b>	function
<b>refman_to_btx</b>	function	<b>writers</b>	table
<b>resolvedname</b>	function	F author	
<b>save</b>	function	F keyword	
<b>search</b>	function	F pagenumber	
<b>setcategory</b>	function	F range	
<b>setspecification</b>	function		
<b>singularorplural</b>	function		
<b>sortedentries</b>	function		
<b>sortmethods</b>	table		
T authorityyear			
T sequence			
<b>specifications</b>	table		
T default			
S author			
S comment			
S copyright			
S name			
S version			
<b>statistics</b>	table		
N nofbytes			

## regimes (context)

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

# resolvers (context)

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

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

<b>usezipfile</b>	function
<b>validatedpath</b>	function
<b>variable</b>	function
<b>variableofformat</b>	function
<b>variableofformatorsuffix</b>	function
<b>wildcardpattern</b>	function

## sandbox (context)

<b>binaryhandler</b>	function
<b>disablerunners</b>	function
<b>enable</b>	function
<b>filehandlerone</b>	function
<b>filehandlertwo</b>	function
<b>finalizer</b>	function
<b>initializer</b>	function
<b>iohandler</b>	function
<b>logcalls</b>	function
<b>logfiles</b>	function
<b>original</b>	function
<b>overload</b>	function
<b>possiblepath</b>	function
<b>redefine</b>	function
<b>register</b>	function
<b>registerbinary</b>	function
<b>registerroot</b>	function
<b>registerrunner</b>	function
<b>report</b>	function
<b>run</b>	function
<b>runhandler</b>	function
<b>setfilenamelogger</b>	function
<b>setlogger</b>	function
<b>setreporter</b>	function
<b>settrace</b>	function
<b>validfilename</b>	function

# scripts (context)

<b>autofontfeature</b>	table
F disable	
F enable	
F handler	
<b>categorytonumber</b>	data table
<b>colors</b>	data table
<b>decomposehangul</b>	function
<b>defaults</b>	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	
<b>handlers</b>	data table
<b>hash</b>	table
<b>injectors</b>	data table
<b>installdataset</b>	function
<b>installmethod</b>	function
<b>numbertocategory</b>	data table
<b>numbertodataset</b>	data table
<b>numbertohandler</b>	data table
<b>reset</b>	function
<b>set</b>	function
<b>splitters</b>	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)

<b>basicsorter</b>	function
<b>comparers</b>	table
F basic	
<b>constants</b>	table
S defaultdigits	
S defaultlanguage	
S defaultmethod	
N digitmaximum	
N digitoffset	
N ignoredoffset	
N replacementoffset	
T validmethods	
B ch	
B mc	
B mm	
B pc	
B pm	
B uc	
B zc	
B zm	
<b>definitions</b>	data table
<b>firstofsplit</b>	function
<b>setlanguage</b>	function
<b>sort</b>	function
<b>splitters</b>	table
F utf	
<b>strip</b>	function
<b>tracers</b>	data table
<b>update</b>	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>storedfunctions</b>	data table
<b>strip</b>	boolean
<b>tofmodules</b>	number
<b>toftables</b>	number

## streams (context)

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



## string (basic lua)

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

# structures (context)

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

F touserdata  
**inserts** table  
 D data  
 F define  
 F getdata  
 F getlocation  
 F getname  
 F getnumber  
 F setlocation  
 F setup  
 D stored  
**itemgroups** table  
**lists** table  
 F addto  
 F analyze  
 B autoreorder  
 D cached  
 D collected  
 F discard  
 F enhance  
 T enhancers  
 F filter  
 F formulanumber  
 F getresult  
 F groupindex  
 F hasnumberdata  
 F haspagedata  
 F hastitledata  
 F iscached  
 D kinds  
 F label  
 F location  
 D names  
 F number  
 D ordered  
 F page  
 F popnesting  
 F prefix  
 F prefixednumber  
 F prefixedpage  
 F process  
 D pushed  
 F pushnesting  
 F realpage

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

F splitprefix	F unique
F splitreference	F userdata
F synchronizepage	<b>sections</b> table
T testrunners	F autodepth
F inner	F cct
F special	D collected
F special operation	F current
F special operation with arguments	F currentblock
T testspecials	F currentid
F deltapage	F currentlevel
F i	F currentsectionindex
F internal	F depthnumber
F page	F finddata
F realpage	F findnumber
F section	F fullnumber
F userpage	F getcurrentlevel
D tobereferred	F getlevel
D tobesaved	F getnumber
T urls	F internalreference
T data	D levelmap
F define	D levels
F get	F load
D usedinternals	F matchingtilldepth
D usedviews	F numberatdepth
F valid	F numbers
F whatfrom	F popblock
<b>registers</b> table	F prefixedconverted
F analyze	F pushblock
D collected	F register
F compare	D registered
F define	F reportstructure
F enhance	F save
F extend	T sectionblockdata
F filter	T bodypart
F filtercollected	S bookmark
F finalize	F set
F flush	F setblock
F get	F setchecker
F prepare	F setentry
F process	F setlevel
F setmethod	F setnumber
F sort	F structuredata
F store	F title
D tobesaved	D tobesaved

- 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 tobesaved
- synonyms**              table
  - 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
- tags**                    table
  - F elementtag
  - F getid
  - F handler
  - D labels
  - F last
  - F lastinchain
  - F locatedtag
  - T patterns
  - U splitter
  - D properties
  - F registermetadata
  - F restart
  - F setaspect
  - F setattributehash

- F setcombination
- F setdescription
- F setdescriptionsymbol
- F setfigure
- F sethighlight
- F setitemgroup
- F setlist
- F setproperty
- F setregister
- F setsorting
- F setsynonym
- F settablecell
- F settabulatecell
- F setuserproperties
- D specifications
- F start
- F stop
- D taglist

## table (basic lua)

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

## tex (basic tex)

<b>attribute</b>	table	<b>isdefined</b>	function
<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>prtcacodes</b>	number
<b>getdelcode</b>	function	<b>romannumeral</b>	function
<b>getdimen</b>	function	<b>round</b>	function
<b>getlccode</b>	function	<b>run</b>	function
<b>getlist</b>	function	<b>scale</b>	function
<b>getmath</b>	function	<b>set</b>	function
<b>getmathcode</b>	function	<b>set_experimental_code</b>	function
<b>getnest</b>	function	<b>setattribute</b>	function
<b>getsfcode</b>	function	<b>setbox</b>	function
<b>getskip</b>	function	<b>setcatcode</b>	function
<b>gettoks</b>	function	<b>setcount</b>	function
<b>getuccode</b>	function	<b>setdelcode</b>	function
<b>hashtokens</b>	function	<b>setdimen</b>	function
<b>ifs</b>	data table	<b>setlccode</b>	function
<b>inicalcodes</b>	number	<b>setlist</b>	function
<b>init_rand</b>	function	<b>setmath</b>	function
<b>iscount</b>	function	<b>setmathcode</b>	function



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

## texconfig (basic tex)

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

## texio (basic tex)

`write`      function

`write_nl`   function

# tokens (context)

**astable**      function  
**bgroup**        userdata  
**bits**          table

N active  
N alignment  
N begingroup  
N character  
N close  
N comment  
N endgroup  
N endofline  
N escape  
N ignore  
N invalid  
N letter  
N mathshift  
N open  
N other  
N parameter  
N space  
N subscript  
N superscript  
N whitespace

**collectors** table

T data  
F defaultwords  
F dowithwords  
F flush  
F install  
F register  
T registered  
F show  
F test

**compile**      function

**converters** table

S todimen  
S toglue  
S tonumber  
S tostring

**egroup**        userdata

**getters**       table

F box  
F count  
F dimen  
F token

**hbox**          userdata

**istoken**       function

**letter**        function

**letters**       function

**other**         function

**pickup**        function

**printlist**    function

**scanners**     table

F boolean  
F code  
F count  
F dimen  
F dimension  
F glue  
F integer  
F keyword  
F lxmlid  
F number  
F scanclose  
F scanopen  
F skip  
F string  
F token  
F tokens  
F toks  
F word

**scantable**    function

**setters**       table

F box  
F count  
F dimen  
F macro

**shortcuts**    table

T bits  
N active  
N alignment  
N begingroup

N character	F tokens
N close	F toks
N comment	F word
N endgroup	F scannumber
N endofline	F scanopen
N escape	F scanstring
N ignore	F scanword
N invalid	F todimen
N letter	T tokens
N mathshift	F astable
N open	U bgroup
N other	T collectors
N parameter	F defaultwords
N space	F dowithwords
N subscript	F flush
N superscript	F install
N whitespace	F register
N close	F show
F inspect	F test
N open	F compile
F report	T converters
F scanboolean	S todimen
F scanclose	S toglue
F scancode	S tonumber
F scandimen	S tostring
F scandimension	U egroup
F scaninteger	T getters
F scankeyword	F box
T scanners	F count
F boolean	F dimen
F code	F token
F count	U hbox
F dimen	F istoken
F dimension	F letter
F glue	F letters
F integer	F other
F keyword	F pickup
F lxmld	F printlist
F number	F scantable
F scanclose	T setters
F scanopen	F box
F skip	F count
F string	F dimen
F token	F macro

- T shortcuts
  - N close
  - F inspect
  - N open
  - F report
  - F scanboolean
  - F scanclose
  - F scancode
  - F scandimen
  - F scandimension
  - F scaninteger
  - F scankeyword
  - F scannumber
  - F scanopen
  - F scanstring
  - F scanword
  - F todimen
  - F tonumber
  - F tostring
- U vbox
- U vtop
- F tonumber
- F tostring
- vbox**            userdata
- vtop**            userdata

## 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

## **injectors**      table

F check  
T list  
F mark  
F reset  
F set  
F show

## **italics**      table

F forcevariant  
F handler  
F reset  
F set

## **kerns**      table

D factors  
F handler  
F keepligature  
B keptogether  
D mapping  
F set

## **manipulators**      table

F apply  
F applyspecification  
T methods

F Word	F construct
F Words	F create
F abbreviatedjournal	F finish_row
F expandedjournal	F flush
F lowercase	F initialize_construct
F stripperperiod	F initialize_reflow_height
F uppercase	F initialize_reflow_width
T patterns	F next_row
U list	F reflow_height
U pair	F reflow_width
F splitspecification	F set_construct
<b>margins</b> table	F set_reflow_height
F finalhandler	F set_reflow_width
F globalhandler	
F ha	
F localhandler	
F save	
<b>marksuspects</b> function	
<b>processors</b> table	
F apply	
F register	
F reset	
F split	
F startapply	
F stopapply	
F stripped	
F tostring	
<b>showsuspects</b> function	
<b>spacings</b> table	
F define	
F handler	
D mapping	
T numbers	
T frenchpunctuation	
T characters	
S name	
N number	
F reset	
F set	
F setup	
<b>wrappers</b> table	
F handler	
<b>xtables</b> table	
F cleanup	

## unicode (extra lua)

### ascii table

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

### grapheme table

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

### latin1 table

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

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

### utf8 table

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

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

## url (context)

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

## utilities (context)

**debugger** table

- F disable
- F enable
- F savestats
- F showstats
- F showtraceback

**formatters** table

- F formatcolumns
- F list
- F stripzeros

**garbagecollector** table

- F check
- N criterium
- B enabled

**lua** table

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

**packers** table

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

N version

**parsers** table

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

**report** function

**sequencers** table

- F appendaction
- F appendgroup

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

## 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	
<del><b>collect_elements</b></del>	<del>function</del>	F find	
<b>collect_tags</b>	function	F idstring	
<del><b>collect_texts</b></del>	<del>function</del>	F lower	
<b>collected</b>	function	F name	
<b>collecttexts</b>	function	F number	
<b>content</b>	function	F oneof	
<b>convert</b>	function	F print	
<b>copy</b>	function	F quit	
<b>count</b>	function	F tag	
<b>cprint</b>	function	F text	
<b>css</b>	table	F undefined	
F colorspecification		F upper	
F dimension		<b>fillin</b>	function
F fontspecification		<b>filter</b>	function
F padding		<b>finalizers</b>	table
<b>defaulthandlers</b>	table	F paragraphs	
D file		T tex	
D parsedxml		F all	
D string		F attribute	

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

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

## zip (extra lua)

<b>archives</b>	table
<b>close</b>	function
<b>closearchive</b>	function
<b>open</b>	overloaded 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