

MP attributes backends bit **bit32** blobs  
boolean buffers builders caches **callback**  
callbacks catcodes characters chemistry  
commands containers context converters  
**coroutine** ctxrunner **debug** dir directives  
document documentdata environment **epdf**  
experiments figures **file** floats **font**  
**fontloader** fonts functions global graphics  
**gzip** **img** interactions interfaces **io** jit job  
**lang** languages layouts **lfs** libraries lmx  
logs lpdf **lpeg** **ltn12** **lua** luatex lxml **math**  
mathematics mbox **md5** metapost **mime**  
moduledata modules mp **mplib** noads **node**  
nodes number objects **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)

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

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

# attributes (context)

## colorintents table

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

## colors table

- N attribute
- F cmyk
- F cmyktogray
- F cmyktorgb
- F colorcomponents
- B couple
- D data
- N default
- F defineintermediatecolor
- F definemultitonecolor
- F defineprocesscolor
- F definesimplegray
- F definespotcolor
- F definetransparency
- F enable
- F filter
- F forcedmodel
- F forcesupport
- F formatcolor
- F formatgray
- F getpagecolormodel
- F gray
- F graytohsb
- F handler
- F hstogray
- F hstorgb
- 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 rgbtorgb
- F rgbtohsb
- N selector
- F setlist
- F setmodel
- F setpagecolormodel
- 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

effects

function

table

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

handlers

list

names

table

data table

data table

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

# backends (context)

## **codeinjections** table

F boxresourcedimensions  
F registerboxresource  
F restoreboxresource

## **current** string

## **defaults** table

T codeinjections  
F gethpos  
F getmatrix  
F getpos  
F getvpos  
F hasmatrix  
T nodeinjections  
T registrations  
D tables

## **install** function

## **nodeinjections** table

F restore  
F save  
F transform

## **nothing** function

## **pdf** table

T codeinjections  
F addbookmarks  
F attachmentid  
F clonefield  
F definefield  
F definefieldset  
F defineviewerlayer  
F embedfile  
F enabletags  
F exportformdata  
F getbookmarks  
F getdefaultfieldvalue  
F getfieldcategory  
F getfieldset  
F getformatoption  
F gethpos  
F getmatrix  
F getoutputfilename  
F getpos

F getpreviewfigure  
F getvpos  
F hasmatrix  
F insertrenderingwindow  
F mergebookmarks  
F mergereferences  
F mergeviewerlayers  
F prerollreference  
F presetsymbol  
F presetsymbollist  
F processrendering  
F registerdocumentcloseaction  
F registerdocumentopenaction  
F registeredsymbol  
F registerpagecloseaction  
F registerpageopenaction  
F registersymbol  
F setfieldcalculationset  
F setfigurealternative  
F setfigurecolorspace  
F setfiguremask  
F setformat  
F setformsmethod  
F setpagetransition  
F setupcanvas  
F setupidentity  
F setxmpfile  
F startlayer  
F startunicodetoactualtext  
F stoplayer  
F stopunicodetoactualtext  
F supportedformats  
F unicodetoactualtext  
F useviewerlayer  
F validfield  
F validfieldcategory  
F validfieldset  
S comment  
T nodeinjections  
F addtags  
F annotation

F attachfile	F startstackedlayer	
F changestackedlayer	F stoplayer	
F cmykcolor	F stopstackedlayer	
F comment	F transparency	
F destination	F typesetfield	
F effect	T registrations	
F graycolor	F cmykindexcolor	
F injectbitmap	F cmykspotcolor	
F insertmovie	F getspotcolorreference	
F insertsound	F grayindexcolor	
F insertswf	F grayspotcolor	
F insertu3d	F rgbindexcolor	
F knockout	F rgbspotcolor	
F negative	F spotcolorname	
F overprint	F transparency	
F positive	T tables	
F reference	D vfspecials	
F rgbcolor	<b>registrations</b>	table
F spotcolor	<b>tables</b>	table
F startlayer		

## 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)

**arshift** function

**band** function

**bnot** function

**bor** function

**btest** function

**bxor** function

**extract** function

**lrotate** function

**lshift** function

**replace** function

**rrotate** function

**rshift** 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>tonodes</b>	function
<b>tovpack</b>	function
<b>write</b>	function

## boolean (context)

**tocontext** function

**tonumber** function

# buffers (context)

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

## profiling table

- F add
- F distance
- F fixedprofile
- F get
- F list
- F pagehandler
- F profilebox
- F set

## 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

## cache (context)

<b>ask</b>	boolean	<b>hashed</b>	function
<b>base</b>	string	<b>is_writable</b>	function
<b>collapsecontent</b>	function	<b>loadcontent</b>	function
<b>configfiles</b>	function	<b>loaddata</b>	function
<b>contentstate</b>	function	<b>more</b>	string
<b>defaults</b>	table	<b>relocate</b>	boolean
<b>define</b>	function	<b>savecontent</b>	function
<b>direct</b>	boolean	<b>savedata</b>	function
<b>force</b>	boolean	<b>setfirstwritablefile</b>	function
<b>getfirstreadablefile</b>	function	<b>setluanames</b>	function
<b>getfirstreadablefile_TEST_ME_FIRST</b>	function	<b>tree</b>	string
<b>getreadablepaths</b>	function	<b>treehash</b>	function
<b>getwritablepath</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>	<b>number</b>	<b>linebreaks</b>	<b>table</b>
<b>adobename</b>	function	S ai	
<b>bidirectional</b>	data table	S al	
<b>blockrange</b>	function	S b2	
<b>blocks</b>	data table	S ba	
<b>casemap</b>	table	S bb	
<b>categories</b>	data table	S bk	
<b>category</b>	function	S cb	
<b>categorytags</b>	data table	S cj	
<b>collapsed</b>	data table	S cl	
<b>contextname</b>	function	S cm	
<b>csletters</b>	data table	S cp	
<b>data</b>	data table	S cr	
<b>decomposed</b>	data table	S ex	
<b>description</b>	function	S gl	
<b>descriptions</b>	data table	S h2	
<b>detailtags</b>	data table	S h3	
<b>directions</b>	table	S hl	
<b>encodes</b>	data table	S hy	
<b>entities</b>	data table	S id	
<b>fallbacks</b>	data table	S in	
<b>filters</b>	data table	S is	
<b>fractions</b>	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>lower</b>	function	T compat	
<b>math</b>	table	<b>subscripts</b>	table
<b>mathpairs</b>	data table	<b>superscripts</b>	table
<b>mirrors</b>	table	<b>synonyms</b>	data table
<b>otfscripts</b>	data table	<b>tex</b>	table
<b>ranges</b>	data table	D accentmapping	
<b>registerentities</b>	function	D commandmapping	
<b>remap_hangul_syllable</b>	function	F defineaccents	
<b>setactivecatcodes</b>	function	F safechar	
<b>setlettercatcodes</b>	function	F toutf	
<b>shape</b>	function	F toutfpattern	
<b>shaped</b>	function	<b>textclasses</b>	table
<b>shash</b>	data table	<b>tonumber</b>	function
<b>shchars</b>	data table	<b>ucchars</b>	data table
<b>shcodes</b>	data table	<b>uccode</b>	function
<b>showstring</b>	function	<b>uccodes</b>	data table
<b>specialchars</b>	data table	<b>uhash</b>	data table
<b>specials</b>	data table	<b>unicodechar</b>	function
<b>splits</b>	table	<b>upper</b>	function
T char			

## chemistry (context)

<b>component</b>	function
<b>define</b>	function
<b>definitions</b>	data table
<b>format</b>	string
<b>inlinechemical</b>	function
<b>instance</b>	string
<b>method</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)

**cleanname** function  
**content** function  
**define** function  
**is\_usable** function

**is\_valid** function  
**read** function  
**usecache** boolean  
**write** function

## converters (context)

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

## coroutine (basic lua)

**create**    function  
**resume**    function  
**running**   function

**status**    function  
**wrap**      function  
**yield**     function

# ctxrunner (context)

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



## debug (basic lua)

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

<b>name</b>	string
<b>register</b>	function
<b>report</b>	function
<b>reset</b>	function
<b>show</b>	function
<b>value</b>	function

# document (context)

<b>arguments</b>	data table		D modes	
<b>files</b>	table		D modules	
<b>functions</b>	table	<b>setargument</b>		function
<b>getargument</b>	function	<b>setcommandline</b>		function
<b>getfilename</b>	function	<b>setdefaultargument</b>		function
<b>options</b>	table	<b>setenvironments</b>		function
T commandline		<b>setfilename</b>		function
D environments		<b>setfilenames</b>		function
D modes		<b>setmodes</b>		function
D modules		<b>setmodules</b>		function
T ctxfile		<b>variables</b>		data table
D environments				

## environment (context)

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

## epdf (extra tex)

**Array** function  
**Attribute** function  
**AttributeOwner\_Type** function  
**Attribute\_Type** function  
**Dict** function  
**Object** function

**PDFRectangle** function  
**StructElement\_Type** function  
**open** overloaded function  
**openMemStream** function  
**type** 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>reset</b>	function
<b>show</b>	function
<b>value</b>	function

# figures (context)

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

## font (basic tex)

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

# fontloader (extra tex)

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

# fonts (context)

## analyzers

table

T features

N blwf

N fin2

N fin3

N fina

N half

N init

N isol

N med2

N medi

N pref

N pstf

N rphf

D initializers

D methods

F setstate

T states

N blwf

N fin2

N fin3

N fina

N half

N init

N isol

N mark

N med2

N medi

N pref

N pstf

N rest

N rphf

B useunicodemarks

## checkers

table

F getmissing

F missing

F placeholder

## cid

table

F getmap

F loadfile

## collections

table

F checkenabled

F clonevector

F define

T definitions

F found

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 cleanupable

F collectprocessors

F currentfonthasfeature

D designsizes

D dontembed

F enhanceparameters

N factor

T features

D afm

D ofl

D tfm

F finalize

F getfeatureaction

T handlers

T afm

B autoprefixed

D cache

D features	T handlers
F getkern	F devanagari_remove_joiners
T helpdata	F devanagari_reorder_matras
D bothkerned	F devanagari_reorder_pre_base_reordering_consonants
D leftkerned	F devanagari_reorder_reph
D ligatures	F gpos_context
D rightkerned	F gpos_contextchain
D texligatures	F gpos_cursive
F load	F gpos_mark2base
T readers	F gpos_mark2ligature
F getinfo	F gpos_mark2mark
F loadfont	F gpos_pair
F setfeatures	F gpos_single
B syncspace	F gsub_alternate
N version	F gsub_context
T otf	F gsub_contextchain
F addfeature	F gsub_ligature
F basemodeinitializer	F gsub_multiple
D cache	F gsub_reversecontextchain
F collectlookups	F gsub_single
T coverup	F trigger_space_kerns
T actions	F load
F alternate	F nodemodeinitializer
F chainposition	F packoutlines
F chainsubstitution	D pdfcache
F kern	T readers
F ligature	F addunicodetable
F multiple	D cache
F pair	F cff
F substitution	F checkhash
F register	F cmap
S stepkey	F colr
F dataset	F compact
S defaultbasealternate	F cpal
S defaultnodealternate	F expand
D enhancers	F extend
D features	F gdef
F featuresprocessor	F getcomponents
F getactualtext	F getinfo
F getalternate	F glyf
F getgsub	F gpos
F getkern	F gsub
F getmultiple	F head
F getsubstitution	F hhea

F hmtx	F setdynamics
F kern	F setfeatures
F loadfont	T statistics
F loadshapes	D usedfeatures
F loca	T svg
F math	F storepdfdata
F maxp	F topdf
F name	D svgcache
F os/2	B svgenabled
F pack	T tables
F post	D baselines
F registerextender	D features
F rehash	D featuretypes
T streamreader	D languages
F close	D scripts
F getposition	F unpackoutlines
F look	N version
F open	T pfb
F read2dot14	T tfm
F readbyte	D features
F readbytes	N maxnestingdepth
F readcardinal	N maxnestingsize
F readcardinal1	F setfeatures
F readcardinal2	N version
F readcardinal3	T vf
F readcardinal4	T combinations
F readchar	F combine
F readfixed4	T combiner
F readinteger	D commands
F readinteger1	D helpers
F readinteger2	D math
F readinteger4	D predefined
F readstring	N version
F readtag	D whatever
F setposition	F hashfeatures
F size	F hashinstance
F skip	T hashmethods
F skiplong	F normal
F skipshort	F virtual
F svg	F initializefeatures
N tableversion	T keys
F unpack	T character
N version	S depth
F scriptandlanguage	S height

S italic	S spacestretch
S width	S x_height
T description	S units
T boundingbox	S vfactor
S depth	S xheight
S height	T properties
S width	S autoitalicamount
T parameters	T cidinfo
S ascender	S embedding
S descender	S encodingbytes
S designsized	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	N noffontsloaded
S slantperpoint	N nofsharedfonts
T spacing	N nofsharedhashes
S extra	N nofsharedvectors
S shrink	N privateoffset
S stretch	D privateslots
S width	F readanddefine
T synonyms	F registerfeature
S em	F resetfeature
S ex	B resolvevirtualtoo
S extra_space	F scale
S extraspace	F scaled
S slant	F setfactor
S space	F setfeature
S space_shrink	F setname
S space_stretch	B sharefonts
S spaceshrink	F trytosharefont



N version	
<b>current</b>	function
<b>currentid</b>	function
<b>definers</b>	table
F addlookup	
F analyze	
F applypostprocessors	
F checkedmode	
F checkedscript	
F current	
S defaultlookup	
F define	
F getspecification	
F internal	
F loadfont	
F makespecification	
T methods	
F install	
D variants	
F read	
F register	
F registered	
F registersplit	
F resetnullfont	
F resolve	
T resolvers	
F file	
F name	
F spec	
<b>definetypface</b>	function
<b>encodings</b>	table
T agl	
D ctxcodes	
D extras	
D names	
T synonyms	
N Acyrillic	
N Becyrillic	
N Cdot	
N Checyrillic	
N Decyrillic	
N Djecyrillic	
N Dzecyrillic	
N Dzhecyrillic	

N Ecyrillic
N Edot
N Efcyrillic
N Elcyrillic
N Emcyrillic
N Encyrillic
N Ercyrillic
N Ereversedcyrillic
N Escyrillic
N Fitacyrillic
N Gcedilla
N Gdot
N Gecyrillic
N Gheupturncyrillic
N Gjecyrillic
N Hardsigncyrillic
N IAcyrillic
N IUcyrillic
N Icyrillic
N Idot
N Iecyrillic
N Iicyrillic
N Iishortcyrillic
N Iocyrillic
N Izhitsacyrillic
N Jecyrillic
N Kacyrillic
N Kcedilla
N Khacyrillic
N Kjecyrillic
N Lcedilla
N Ljecyrillic
N Ncedilla
N Njecyrillic
N Ocyrillic
N Odblacute
N Ohm
N Pecyrillic
N Rcedilla
N Shacyrillic
N Shchacyrillic
N Softsigncyrillic
N Tcedilla
N Tecyrillic

N Tsecyrillic	N daletthatafsegol
N Tshsecyrillic	N daletthatafsegolhebrew
N Ucyrillic	N dalethebrew
N Udblacute	N daletthiriq
N Ushortcyrillic	N daletthiriqhebrew
N Vecyrillic	N daletholam
N Yatcyrillic	N daletholamhebrew
N Yericyrillic	N daletpatah
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 daletthatafpatah	N finalpe
N daletthatafpatahhebrew	N finaltsadi

N fivearabic	N hiriq21
N forall	N hiriq2d
N fourarabic	N hiriqhebrew
N gcedilla	N hiriqnarrowhebrew
N gdot	N hiriqqarterhebrew
N gimel	N holam
N gimeldagesh	N holam19
N gravecmb	N holam26
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 kashidaautonosidebearingarabic
N hatafpatah23	N kcedilla
N hatafpatah2f	N lamed
N hatafpatahhebrew	N lameddagesh
N hatafpatahnarrowhebrew	N lamedhebrew
N hatafpatahquarterhebrew	N lamedholam
N hatafqamats	N lamedholamdagesh
N hatafqamats1b	N lamedholamdageshhebrew
N hatafqamats28	N laminitialarabic
N hatafqamats34	N lammeemjeeminitialarabic
N hatafqamatshebrew	N lcedilla
N hatafqamatsnarrowhebrew	N logicalnotreversed
N hatafqamatsquarterhebrew	N mahapakhhebrew
N hatafsegol	N mem
N hatafsegol17	N memdagesh
N hatafsegol24	N merkhahebrew
N hatafsegol30	N merkhakefulahebrew
N hatafsegolhebrew	N middot
N hatafsegolnarrowhebrew	N munahhebrew
N hatafsegolquarterhebrew	N nbspace
N he	N ncedilla
N hedagesh	N newsheqelsign
N hehfinalalttwoarabic	N ninearabic
N het	N noonhehinitialarabic
N hiriq	N nun
N hiriq14	N nundagesh

N odblacute	N qofsego1
N onearabic	N qofsego1hebrew
N overscore	N qofsheva
N patah	N qofshevahebrew
N patah11	N qoftsere
N patah1d	N qubuts
N patah2a	N qubuts18
N patahhebrew	N qubuts25
N patahnarrowhebrew	N qubuts31
N patahquarterhebrew	N qubutshebrew
N pe	N qubutsnarrowhebrew
N pedagesh	N qubutsquarterhebrew
N qamats	N quoteleftreversed
N qamats10	N rafe
N qamats1a	N rcedilla
N qamats1c	N reharabic
N qamats27	N resh
N qamats29	N reshhatafpatah
N qamats33	N reshhatafpatahebrew
N qamatsde	N reshhatafsego1
N qamatshebrew	N reshhatafsego1hebrew
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 reshpatahebrew
N qofdagesh	N reshqamats
N qofhatafpatah	N reshqamatshebrew
N qofhatafpatahebrew	N reshqubuts
N qofhatafsego1	N reshqubutshebrew
N qofhatafsego1hebrew	N reshsego1
N qofhebrew	N reshsego1hebrew
N qofhiriq	N reshsheva
N qofhiriqhebrew	N reshshevahebrew
N qofholam	N reshtsere
N qofholamhebrew	N reviahebrew
N qofpatah	N samekh
N qofpatahebrew	N samekhdagesh
N qofqamats	N segol
N qofqamatshebrew	N segol13
N qofqubuts	N segol1f
N qofqubutshebrew	N segol2c

N segolhebrew  
 N segolnarrowhebrew  
 N segolquarterhebrew  
 N sevenarabic  
 N sfthyphen  
 N shaddaarabic  
 N sheqel  
 N sheva  
 N sheva115  
 N sheva15  
 N sheva22  
 N sheva2e  
 N shevahebrew  
 N shevanarrowhebrew  
 N shevaquarterhebrew  
 N shin  
 N shindagesh  
 N shindageshshindot  
 N shindageshsindot  
 N shinshindot  
 N shinsindot  
 N siluqhebrew  
 N sixarabic  
 N tav  
 N tavgages  
 N tavgagesh  
 N tcedilla  
 N tchehinitialarabic  
 N tet  
 N tetdagesh  
 N tevirhebrew  
 N thousandsseparatorarabic  
 N threearabic  
 N tildecmb  
 N tipehahebrew  
 N tsadi  
 N tsadidagesh  
 N tsere  
 N tsere12  
 N tsere1e  
 N tsere2b  
 N tserehebrew  
 N tserenarrowhebrew  
 N tserequarterhebrew

N twoarabic  
 N udblacute  
 N vav  
 N vavgagesh  
 N vavgagesh65  
 N vavholam  
 N yerahbenyomohebrew

N yod  
 N yoddagesh  
 N zayin  
 N zayindagesh  
 N zdot  
 N zeroarabic

D unicodes

D cache

F is\_known

D known

F load

F make\_unicode\_vector

D math

N version

<b>enhanceid</b>	function
<b>expansions</b>	data table
<b>formats</b>	data table
<b>getalternate</b>	function
<b>getdiscexpansion</b>	function
<b>getkern</b>	function
<b>getmultiple</b>	function
<b>getsubstitution</b>	function
<b>getters</b>	table

T alternate

F opentype

T kern

F opentype

F type1

T multiple

F opentype

T substitution

F opentype

<b>goodies</b>	table
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D colorschemes

T data

T dejavu-math

S author

- S comment
- S copyright
- B initialized
- T mathematics
  - T alternates
    - T dotless
      - N attribute
      - S comment
      - S feature
      - N value
    - T kerns
  - S name
  - S version
- D designsizes
- D filenames
- F getcompositions
- T list
  - F compositions
  - F designsizes
  - F expansions
  - F featureset
  - F filenames
  - F files
  - F mathematics
  - F protrusions
  - F solutions
  - F treatments
  - F typefaces
- F load
- F prepare\_features
- F register
- F registerpostprocessor
- F report
- T suffixes

**handlers**                    table

**hashes**                    table

- D characters
- D csnames
- D descriptions
- D dynamics
- D emwidths
- D exheights
- D extensibles
- D features

- D identifiers
- D italics
- D lastmathids
- D marks
- D modes
- D originals
- D parameters
- T processes
- D properties
- D quads
- D resources
- T setdynamics
- T shapes
- D spaces
- D spacings
- D unicodes
- D variants
- D xheights

**helpers**                    table

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

**infofont**                    function

**iterators**                    table

- F characters
- F descriptions
- F glyphs

**loggers**                    table

- F add\_placeholders
- D category\_to\_placeholder
- F format
- F onetimemessage

F register		<b>reserveid</b>	function
F reportdefinedfonts		<b>select</b>	table
F reportusedfeatures		T alternatives	
<b>mappings</b>	table	F bodyfont	
F addtounicode		T data	
F fromunicode16		F default	
F loadfile		T defaults	
F loadline		T asanamath	
F makenameparser		T options	
D overloads		S extras	
F reset		S features	
F tounicode		S goodies	
F tounicode16		T cambriamath	
F tounicode16sequence		T options	
<b>metapost</b>	table	S extras	
F boundingbox		S features	
F boxtomp		S goodies	
F draw		T dejavumath	
F fill		T options	
F maxbounds		S extras	
F output		S features	
F paths		T latinmodernmath	
F widthline		T options	
F zeroline		S extras	
<b>mp</b>	table	S features	
D cache		S goodies	
B inline		T lucidabrightmathot	
N version		T options	
<b>names</b>	data table	S extras	
<b>nulldata</b>	data table	S features	
<b>protrusions</b>	data table	S goodies	
<b>readers</b>	table	T neoeuler	
F afm		T options	
F check_lua		S extras	
F check_tfm		S features	
F lua		T rm	
F ofm		T features	
F opentype		S sc	
F otf		T ss	
F pfb		T features	
D sequence		S sc	
F tfm		T texgyrebonummath	
F ttc		T options	
F ttf		S extras	

- S features
- T texgyredejavumath
  - T options
    - S extras
    - S features
- T texgyrepagellamath
  - T options
    - S extras
    - S features
- T texgyrescholamath
  - T options
    - S extras
    - S features
- T texgyretermesmath
  - T options
    - S extras
    - S features
- T xitsmath
  - T options
    - S extras
    - S features
    - S goodies
- F definefallbackfamily
- F definefontfamily
- F definefontfamilypreset
- T extras
  - F features
  - F goodies
- F fallback
- T fallbacks
- F features
- F filefallback
- F fontdata
- F fontfallback
- F fontsynonym
- F goodies
- F mathfallback
- T methods
  - F default

- F file
- F name
- F style
- T presets
- F registerfallback
- F registerfiles
- F registerfontalternative
- F registerfontfamily
- F textfallback
- F typeface
- F typescript
- F userdata

## setdiscexpansion function 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 table



# functions (context)

**dummy** function

# graphics (context)

## backgrounds table

- F calculatemultipar
- F fetchmultipar

- F pair
- F path
- F point

## gzip (extra lua)

**close**    function

**lines**    function

**load**    function

**open**    function

**save**    function

**suffix** 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

**linkedList**s data table

**pages** table

- F setpagetransition
- F setupcanvas

**references** table

- F setcloseddocument
- F setclosepage
- F setopendocument
- F setopenpage

**renderings** data table

**soundclips** data table

# interfaces (context)

<b>addvalidkeys</b>	function	F MPplus
<b>cachedsetups</b>	data table	F MPpos
<b>cachesetup</b>	function	F MPposset
<b>checkedspecification</b>	function	F MPr
<b>complete</b>	data table	F MPrest
<b>constants</b>	data table	F MPrs
<b>corenamespaces</b>	data table	F MPul
<b>currentinterface</b>	string	F MPur
<b>currentresponse</b>	string	F MPw
<b>definecommand</b>	function	F MPx
<b>defined</b>	function	F MPxy
<b>doifelsemessage</b>	function	F MPxywhd
<b>elements</b>	data table	F MPy
<b>formats</b>	data table	F Romannumerals
<b>getcheckedparameters</b>	function	F abjadnodotnumerals
<b>getmessage</b>	function	F abjadnumerals
<b>getsetupstring</b>	function	F addcounter
<b>hashedsetups</b>	data table	F addfeature
<b>implement</b>	function	F addgrapheme
<b>interfacedcommand</b>	function	F addlinklistelement
<b>interfaces</b>	table	F addreplacements
<b>invalidkey</b>	function	F addtocolumnset
<b>message</b>	function	F addtojavascriptpreamble
<b>namespaces</b>	table	F addtolist
F define		F addvalidinterfacekeys
F list		F allinputpaths
<b>registernamespace</b>	function	F alphabetic
<b>scanners</b>	table	F analyzefloatmethod
F Alphabetic		F analyzeitemgroup
F Character		F analyzelist
F Characters		F analyzeregister
F MPLIBconvertoutlinetext		F applytobox
F MPc		F applytofirstcharacter
F MPd		F assignbuffer
F MPH		F autofinishstructurelevels
F MPLl		F autonextspace
F MPLr		F autonextstructurelevel
F MPLs		F autosetups
F MPn		F autostarttext
F MPp		F autostoptext
F MPpardata		F averagecharwidth

F bitmapimage	F btxloadreplacementfile
F blockcolumnset	F btxoneorrange
F boxtostring	F btxpreparelistentries
F bposcolumn	F btxremapauthor
F bposcolumnregistered	F btxsavedataset
F btxabbreviatedjournal	F btxsavejournallist
F btxaddentry	F btxsetdataset
F btxaddjournal	F btxsetentry
F btxauthor	F btxsetregister
F btxauthorfield	F btxsetspecification
F btxauthortoregister	F btxsingularorplural
F btxcollectlistentries	F btxtoregister
F btxcurrentfirstnames	F btxusedataset
F btxcurrentinitials	F btxuservariable
F btxcurrentjuniors	F buildtextaccent
F btxcurrentsurnames	F character
F btxcurrentvons	F characters
F btxdetail	F chardescription
F btxdirect	F checkcolumnset
F btxdoif	F checkcountersetup
F btxdoifelse	F checkedconversion
F btxdoifelsecombiinlist	F checkedpagefloat
F btxdoifelsesameasprevious	F checkinjector
F btxdoifelseuservariable	F checkinterfacechain
F btxdoifnot	F checktwopassdata
F btxexpandedjournal	F chemicalcomponent
F btxfetchlistentries	F chinesenumerals
F btxfield	F cleanfontname
F btxfieldname	F cleanupbox
F btxfieldtype	F cleanuplayers
F btxfirstofrange	F clonefield
F btxflush	F collectfloat
F btxflushlistcombi	F collecthelp
F btxflushlistentry	F colorcomponents
F btxflushmarked	F columnsetcurrentcolumn
F btxflushpages	F columnsetgoto
F btxfoundname	F columnsetnoto
F btxfoundtype	F concatcommalist
F btxhandlecite	F consultfloat
F btxhandlenocite	F convertbtxdatasettoxml
F btxlastofrange	F converteddimen
F btxlistvariant	F convertmpstopdf
F btxloaddefinitionfile	F copyposition
F btxloadjournallist	F cos

F cosd	F definelanguage
F countervalue	F definelinefiller
F counttwopassdata	F definelinkedlist
F currentcomponent	F definemarking
F currentdate	F definemetafont
F currentdesignsize	F definemultitonecolorglobal
F currentenvironment	F definenamespace
F currentposthyphenchar	F definenote
F currentprehyphenchar	F defineparallel
F currentproduct	F defineparbuilder
F currentproject	F defineprocesscolordummy
F currentreferenceorder	F defineprocesscolorglobal
F currentsectiontolist	F defineprocesscolorlocal
F datasetvariable	F defineprogram
F dayname	F definereference
F decimals	F defineregister
F decrementcounter	F definerule
F decrementedcounter	F definesectionlevels
F decrementsubcounter	F defineshift
F defineaccents	F definesnapmethod
F defineattribute	F definespotcolorglobal
F definebreakpoint	F definestructureblock
F definebreakpoints	F definestructureset
F definecharacterspacing	F definetransparency
F definechemical	F definetwopasslist
F definecolumnset	F definetypeface
F defineconversion	F defineviewerlayer
F definecounter	F depthnumber
F definedlayoutcomponent	F digits_normal
F definefallbackfamily	F digits_reverse
F definefield	F disableautofontscript
F definefieldset	F disabledirectives
F definefilefallback	F disableexperiments
F definefilesynonym	F disablejobsave
F definefont_one	F disableparbuilder
F definefont_two	F disableregime
F definefontfamily	F disablespellchecking
F definefontfamilypreset	F disablestatetriggering
F definefontfeature	F disablestream
F definefontsolution	F disabletrackers
F definehyphenationfeatures	F discardfromlist
F defineinsertion	F doanalyzeframedbox
F defineintermediatecolor	F doifcommon
F definelabels	F doifcounter



F doifelseblack	F doifelsesynonymused
F doifelsebuffer	F doifelseurldefined
F doifelsecharinfont	F doifelseutfmathabove
F doifelsecommon	F doifelseutfmathaccent
F doifelsecontinewithfile	F doifelseutfmathbelow
F doifelseconverter	F doifelseutfmathfiller
F doifelsecounter	F doifelsevisualizer
F doifelsecurrentfonthasfeature	F doiffieldsetelse
F doifelsedrawingblack	F doifinset
F doifelsefieldcategory	F doifnotcommon
F doifelsefiledefined	F doifnotcounter
F doifelsefileexist	F doifnotecontent
F doifelsefirstchar	F doifnoteonsamepageasprevious
F doifelsefontpresent	F doifnotinset
F doifelseinelement	F doifnotsame
F doifelseinputfile	F doifposition
F doifelseinset	F doifsame
F doifelseintwopassdata	F doprocesstypescriptfile
F doifelseleapyear	F doreshapeframedbox
F doifselisthasentry	F dosaveposition
F doifselisthasnumber	F dosavepositionplus
F doifselisthaspage	F dosavepositionwhd
F doifselisthastitle	F dosetposition
F doifselocfile	F dosetpositionbox
F doifselemarking	F dosetpositionplus
F doifselmessage	F dosetpositionstrut
F doifselobject	F dosetpositionwhd
F doifselobjectreference	F dostarttextfile
F doifselolderversion	F dostoptextfile
F doifseloverlapping	F elapsedtime
F doifselparallel	F enableasciimode
F doifselparentfile	F enableautofences
F doifselpathexist	F enableautofontscript
F doifselposition	F enablebackgroundalign
F doifselpositiononpage	F enablebackgroundboxes
F doifselpositionsonsamepage	F enablecolor
F doifselpositionsonthispage	F enablecolorintents
F doifselpositionsused	F enablecrlf
F doifselrangeonpage	F enabledirectives
F doifselreference	F enableexperiments
F doifselrighttoleftinbox	F enablefontcolorchemes
F doifselesame	F enableinteraction
F doifselstackedfloats	F enablelinefillers
F doifselssynonymshown	F enableparbuilder

F enableregime	F figure_scale
F enablerules	F figurefilename
F enableshifts	F figurefilepath
F enablespellchecking	F figurefiletype
F enablestatetriggering	F figurerequest
F enablestream	F figuresetdimensions
F enabletrackers	F figurestatus
F enabletransparency	F figureused
F enableutf	F filterdefaultreference
F enhancelinkedlist	F filterreference
F enhancelist	F finalizebox
F enhancereference	F findregisterinternal
F enhanceregister	F findtwopassdata
F eposcolumn	F finishcolumnsetflush
F eposcolumnregistered	F finishexport
F erasebuffer	F firstcountervalue
F execute	F firstinset
F expandcurrentreference	F firstsubcountervalue
F exportformdata	F flushcolumnsetareas
F exportreferences	F flushcolumnsetcolumn
F extendregister	F flushcolumnsetrest
F extensiblecode	F flushfloat
F fakeword	F flushlabeledfloat
F featureattribute	F flushnotes
F featurelist	F flushpageinjectionsafter
F feedback	F flushpageinjectionsbefore
F fetchallmarks	F flushpostponedblocks
F fetchmultipar	F flushpostponednotes
F fetchmultishape	F flushstream
F fetchonemark	F flushstreamcopy
F fetchposboxes	F fontchar
F fetchtwomarks	F fontcharbyindex
F figure_check	F fontcollectionclone
F figure_done	F fontcollectiondefine
F figure_dummy	F fontcollectionprepare
F figure_flush_registered_pages	F fontcollectionregister
F figure_identify	F fontcollectionreport
F figure_include	F fontcollectionreset
F figure_mergegoodies	F fontlookupgetkey
F figure_nof_registered_pages	F fontlookupgetkeyofindex
F figure_pop	F fontlookupinitialize
F figure_push	F fontlookupnoffound
F figure_register_page	F forceendjob
F figure_reset	F forcequitjob

F formatcolor	F getreadfilename
F formatgray	F getsetupstring
F from	F getsomefullstructurenumber
F frule	F getsomestructurenumber
F getbidimode	F getspecificstructuretitle
F getbodyfontsizes	F getstructurelevel
F getbuffer	F getstructurenumber
F getbuffercxtlua	F getsubstring
F getbuffermkvi	F gettexbuffer
F getcheckedinterfaceparameters	F gettwopassdata
F getcurrentprefixspec	F gettwopassdatalist
F getcurrentreferencemetadata	F geturl
F getdefaultfieldvalue	F getvisual
F getdocumentargument	F hboxtovbox
F getdocumentfilename	F helpaction
F getelementtag	F helpreference
F getfieldcategory	F hexstringtonumber
F getfile	F horizontalcode
F getfirstcharacter	F hour
F getfirsttwopassdata	F hyphenatedlist
F getfloatvariable	F hyphenatedurl
F getfullstructurenumber	F immediatemessage
F getinternalcachedlistreference	F incrementcounter
F getinternallistreference	F incrementedcounter
F getlasttwopassdata	F incrementsubcounter
F getmarking	F initializejob
F getmathdomain	F initializemathdomain
F getmathitalics	F initializemathitalics
F getmessage	F initializestream
F getmpextensions	F initializetexdirectives
F getmprandomnumber	F initializetextrackers
F getnaturaldimensions	F injectcurrentreference
F getnaturalwd	F injectcurrentreferencehtdp
F getnotestate	F injectreference
F getobjectdimensions	F inlinechemical
F getobjectreference	F inputfilebarename
F getobjectreferencepage	F inputfilename
F getprivatechar	F inputfilerealsuffix
F getprivateglyphslot	F inputfilesuffix
F getprogram	F insertattachment
F getrandomdimen	F insertcomment
F getrandomfloat	F insertfield
F getrandomnumber	F insertionnumber
F getrandomseed	F insertrenderingwindow

F installedlanguages	F lpdf_collectedresources
F installtexdirective	F lpdf_color
F installtextracker	F luascript
F jobfilename	F luathread
F jobfilesuffix	F lxmld
F languagenumber	F markcontent
F lastcountervalue	F markingnumber
F lastsubcountervalue	F markingtitle
F lchexnumber	F markinjector
F lchexnumbers	F markregionbox
F leapyear	F markregionboxcorrected
F linenumbersstageone	F markregionboxtagged
F linenumbersstagetwo	F markvisualfonts
F listgroupindex	F mathfraction
F listlabel	F mathrenderset
F listlocation	F message
F listnamespaces	F metapostescaped
F listprefixednumber	F metapostformatted
F listprefixedpage	F metapostgraphformat
F listrealpage	F minute
F listsize	F mixcleanup
F listtitle	F mixfinalize
F listuserdata	F mixflushlist
F loadexamodes	F mixflushrest
F loadfontgoodies	F mixgetsplit
F loadluamodule	F mixsetsplit
F loadmapfile	F mixstate
F loadmapline	F molecule
F loadspellchecklist	F month
F loadtypescriptfile	F monthmnm
F loadvisualizer	F monthname
F locatefilepath	F mpcolor
F locfilename	F mpflushliteral
F lower	F mpflushreset
F lpdf_adddocumentcolorspace	F mpgettext
F lpdf_adddocumenttextgstate	F mpgraphic
F lpdf_adddocumentpattern	F mpoptions
F lpdf_adddocumentshade	F mprunset
F lpdf_addtocatalog	F mpruntab
F lpdf_addtoinfo	F mprunvar
F lpdf_addtonames	F mpsetclippath
F lpdf_addtopageattributes	F mpsetoutercolor
F lpdf_addtopageresources	F mpsetsxsy
F lpdf_addtopagesattributes	F mpsettext

F mptexget	F pgfxcolorspec
F mptexreset	F pickupbuffer
F mptexset	F pickupmarkedcontent
F mptexsetfrombuffer	F pickuppunctuation
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F namedstructurevariable	F popfloat
F naturalwd	F pophyphenation
F nbfs	F popitaliccorrection
F nextcountervalue	F poplist
F nextparallel	F poppath
F nextsubcountervalue	F poprandomseed
F nofconversions	F popreferenceprefix
F nofdays	F popregime
F nofstackedfloats	F popsectionblock
F notedeltapage	F postponeotes
F noteinternal	F prefixedconverted
F notelistindex	F preparecolumnsetflush
F noteprefixednumber	F presetsymbollist
F notetitle	F presettabulate
F ntimes	F prevcountervalue
F number	F previoussubcountervalue
F numbers	F processbodyfontsizes
F octnumber	F processbuffer
F octstringtonumber	F processcolorcomponents
F operatingsystem	F processedfile
F ordinal	F processedfiles
F outputfilename	F processfile
F overloadbookmark	F processfilemany
F overloaderror	F processfilenone
F overloadlowercase	F processfileonce
F overloaduppercase	F processjob
F pageofinternal	F processlist
F pagestaterealpage	F processregister
F parpos	F processsplit
F pdfrotation	F processsynonyms
F pdfstartmatrix	F profilebox
F pdfstartmirroring	F purefontname
F pdfstartrotation	F pushfloat
F pdfstartscaling	F pushhyphenation
F pdfstopmatrix	F pushitaliccorrection
F pdfstopmirroring	F pushlist
F pdfstoprotation	F pushpath
F pdfstopscaling	F pushrandomseed
F percentageof	F pushreferenceprefix

F pushregime	F registeruserdata
F pushsectionblock	F relatemarking
F pushstream	F renderingvar
F putincolumnset	F replacefeature
F rawcharacter	F replacepospxywhd
F rawcountervalue	F reportstructure
F rawdate	F resavefloat
F rawsetupstring	F resetcharacteralign
F rawsubcountervalue	F resetcolumnset
F referencepagedetail	F resetcounter
F referencepagestate	F reseteffect
F referencerealpage	F resetfeature
F registerattachment	F resetfontfeature
F registerbackendsymbol	F resetfontsolution
F registerbodyfontsize	F resetinjector
F registerbookmark	F resetitaliccorrection
F registerbuttons	F resetmapfiles
F registercolorintent	F resetmarking
F registercolumnsetarea	F resetmathattributes
F registeredviewerlayer	F resetmathitalics
F registerfigurepattern	F resetnullfont
F registerfiguresuffix	F resetparallel
F registerfontalternative	F resetpath
F registerfontfamily	F resetprevdepth
F registerhelp	F resetreference
F registerhyphenationexception	F resetscript
F registerhyphenationpattern	F resetshownsynonyms
F registeritemgroup	F resetstructureprocessor
F registerlanguagefeatures	F resetsubcounter
F registerlinenumbering	F resettimer
F registermaintextcolor	F resettrackers
F registermpyfile	F resetusedsynonyms
F registernamedlua	F restartcounter
F registernamespace	F restartsubcounter
F registerobject	F restorecounter
F registerpostponedblock	F restorecurrentattributes
F registerreferencedobject	F restorenote
F registerrendering	F restoreobject
F registersection	F reuserandomseed
F registershownsynonym	F revivefeature
F registerstructureprocessor	F romannumerals
F registersynonym	F rounded
F registerunit	F runbuffer
F registerusedsynonym	F runcontextjob

F safechar	F setdocumentenvironments
F savebuffer	F setdocumentfilename
F savecounter	F setdocumentfilenames
F savecurrentattributes	F setdocumentmodes
F savedlistnumber	F setdocumentmodules
F savedlistprefixednumber	F seteffect
F savedlisttitle	F setelementuserproperties
F savefloat	F setfieldcalculationset
F savemargindata	F setfigurelookuporder
F savenote	F setfigurepaths
F savepagedata	F setfirstline
F savepageinjections	F setfontfeature
F saveparallel	F setfontofid
F savespecificfloat	F setfontsolution
F savestructureblock	F setformat
F savetaggedtwopassdata	F setformsmethod
F savetwopassdata	F sethsizecolumnset
F savevariable	F sethsizecolumnspan
F second	F sethyphenatedurlcharacters
F selectstructureblock	F sethyphenationfeatures
F setactivecatcodes	F sethyphenationmethod
F setbreakpoints	F setinitial
F setcharacteralign	F setinitialsectionblock
F setcharactercasing	F setinjector
F setcharactercleaning	F setinnerreferencemethod
F setcharacterkerning	F setinsertionlocation
F setcharacterspacing	F setinterfaceconstant
F setcharacterstripping	F setinterfaceelement
F setcloseddocumentaction	F setinterfacemessage
F setclosepageaction	F setinterfacemessages
F setcolormodel	F setinterfacevariable
F setcolumnsetarea	F setinternalreference
F setcolumnsetlines	F setitaliccorrection
F setcolumnsetproperties	F setjavascriptpreamble
F setcolumnsetstart	F setjobcomment
F setcounter	F setlanguageexceptions
F setdataset	F setlanguagesynonym
F setdestinationattribute	F setlettercatcodes
F setdigitsmanipulation	F setmapfile
F setdirection	F setmapline
F setdocumentargument	F setmarking
F setdocumentcommandline	F setmathalphabet
F setdocumentctxfile	F setmathalternate
F setdocumentdefaultargument	F setmathattribute

F setmathdirection	F settagitemgroup
F setmathdomain	F settaglist
F setmathitalics	F settagnotation
F setmathstyle	F settagnotationsymbol
F setmpextensions	F settagproperty
F setnaturalwd	F settagproperty_b
F setnegative	F settagproperty_n
F setnextinternalreference	F settagregister
F setnextreferenceorder	F settagsorting
F setnotestate	F settagssubsentencesymbol
F setopendocumentaction	F settagssynonym
F setopenpageaction	F settagtablecell
F setowncounter	F settagtabulatecell
F setownsubcounter	F setupbookmarks
F setpagecolormodel	F setupcanvas
F setpagestate	F setupcharacterspacing
F setpagestaterealpageno	F setupexport
F setpagetransition	F setupfontexpansion
F setparbuilder	F setupfontprotrusion
F setpdfcompression	F setupidentity
F setprofile	F setupinsertion
F setrandomseed	F setupitaliccorrection
F setrealign	F setuplinenumbering
F setrealspaces	F setuserinterface
F setreferencearguments	F setvalidinterfacekeys
F setreferenceoperation	F setvisual
F setregionbox	F setvisualfont
F setregionboxtagged	F setvisuallayer
F setregistermethod	F setvisuals
F setreplacements	F setvsizecolumnset
F setscript	F setxmpfile
F setsectionblock	F showassignerror
F setsectionentry	F showattributes
F setstructureblockstate	F showcounter
F setstructurelevel	F showdebuginfo
F setstructurenumber	F showdirectives
F setsubcounter	F showdiscretionaries
F settagaspect	F showexperiments
F settagcombination	F showhyphenatedinlist
F settagdelimitedsymbol	F showhyphenationtrace
F settagfigure	F showinjector
F settaggedmetadata	F showjustification
F settaghighlight	F showlogcategories
F settagitem	F showmessage



F showtrackers	F storeregister
F sin	F strdp
F sind	F strhd
F splitfilename	F strht
F spotcolorname	F strip
F spotcolorparent	F structureautocatcodedget
F spotcolorvalue	F structurecatcodedget
F startactualtext	F structuregivencatcodedget
F startchemical	F structurenumber
F startcolorset	F structuretitle
F startcomponent	F structureuservariable
F startenvironment	F structurevariable
F startfontsolution	F strwd
F startparbuilder	F subcountervalue
F startproduct	F subcountervalues
F startproject	F subsubcountervalues
F startregime	F subtractfeature
F startsectionlevel	F synchronizemarking
F startstream	F synchronizestream
F starttag	F synonymmeaning
F starttag_c	F synonymname
F starttag_d	F systemlog
F starttag_u	F tagmfunctionlab
F starttext	F tagmfunctiontxt
F startviewerlayer	F tan
F step	F tand
F stopactualtext	F texdefinition_one
F stopchemical	F texdefinition_two
F stopcolorset	F textime
F stopcomponent	F thefirstcharacter
F stopenvironment	F themaxboxwidth
F stopfontsolution	F theremainingcharacters
F stopparbuilder	F tochar
F stopproduct	F transparencycomponents
F stopproject	F triggerpagebuilder
F stopregime	F truefilename
F stopsectionlevel	F type
F stopstream	F typebuffer
F stoptag	F typefile
F stoptext	F uchar
F stopviewerlayer	F uchexnumber
F storejavascriptcode	F uchexnumbers
F storejavascriptpreamble	F undefinechemical
F storenote	F unicodechar

F unihex	F vspacecollapseonly
F unit_normal	F vspaceingdefine
F unit_reverse	F vspaceingsetamount
F unloadlanguage	F vspaceingsnap
F upper	F way
F useMPlibrary	F weekday
F useanyfile	F weekdayname
F useanyfileonce	F writestatus
F usecldfile	F x_table_c
F usecldfileonce	F x_table_cleanup
F usecolors	F x_table_construct
F usecomponent	F x_table_create
F useenvironment	F x_table_finish_row
F usefigurebase	F x_table_flush
F usefile	F x_table_init_construct
F usejavascriptpreamble	F x_table_init_reflow_height
F usejavascriptscripts	F x_table_init_reflow_height_option
F useluafile	F x_table_init_reflow_width
F useluafileonce	F x_table_init_reflow_width_option
F uselumodule	F x_table_next_row
F usemodules	F x_table_next_row_option
F usepath	F x_table_r
F useproduct	F x_table_reflow_height
F useproject	F x_table_reflow_width
F usesubpath	F x_table_set_construct
F usesymbols	F x_table_set_reflow_height
F usetexfile	F x_table_set_reflow_width
F usetexfileonce	F xmladdindex
F useurl	F xmlaftersetup
F usexmlfile	F xmlall
F usexmlfileonce	F xmlappendsetup
F usezipfile	F xmlapplyselectors
F utfchar	F xmlatt
F utfmathclass	F xmlattdef
F utfmathcommand	F xmlattribute
F utfmathcommandabove	F xmlattributedef
F utfmathcommandbelow	F xmlbadinclusions
F utfmathcommandfiller	F xmlbeforesetup
F utfmathfiller	F xmlchainatt
F utfmathstretch	F xmlchainattdef
F vboxlisttohbox	F xmlchecknamespace
F verbose	F xmlcommand
F vspaceing	F xmlconcat
F vspaceingcollapse	F xmlconcatrange

F xmlcontext	F xmlloadbuffer
F xmlcount	F xmlloaddata
F xmldelete	F xmlloadaddirectives
F xmldirect	F xmlloadentities
F xmldirectives	F xmlmain
F xmldirectivesafter	F xmlmatch
F xmldirectivesbefore	F xmlname
F xmldisplayverbatim	F xmlnamespace
F xmldoif	F xmlnonspace
F xmldoifelse	F xmlpath
F xmldoifelseempty	F xmlpos
F xmldoifelseselfempty	F xmlprependsetup
F xmldoifelsetext	F xmlpure
F xmldoifempty	F xmlraw
F xmldoifnot	F xmlrawtex
F xmldoifnotempty	F xmlrefatt
F xmldoifnotselfempty	F xmlregisterns
F xmldoifnottext	F xmlreapname
F xmldoifselfempty	F xmlreapnamespace
F xmldoiftext	F xmlremovesetup
F xmlelement	F xmlresetinjectors
F xmlfilter	F xmlresetsetups
F xmlfilterlist	F xmlsave
F xmlfirst	F xmlsetcommandtonone
F xmlflush	F xmlsetcommandtotext
F xmlflushcontext	F xmlsetentity
F xmlflushlinewise	F xmlsetinjectors
F xmlflushpure	F xmlsetsetup
F xmlflushsetups	F xmlsnippet
F xmlflushspacewise	F xmlstartraw
F xmlflushtext	F xmlstarttiming
F xmlfunction	F xmlstopraw
F xmlgetindex	F xmlstoptiming
F xmlinclude	F xmlstrip
F xmlincludeoptions	F xmlstripanywhere
F xmlinclusion	F xmlstripnolines
F xmlinclusions	F xmlstripped
F xmlindex	F xmlstrippednolines
F xmlinlineverbatim	F xmltag
F xmlinstalldirective	F xmltexentity
F xmllast	F xmltext
F xmllastatt	F xmltobuffer
F xmllastmatch	F xmltobufferverbose
F xmlload	F xmltofile

F xmltoparameters		<b>setupstrings</b>	data table
F xmlverbatim		<b>setuserinterface</b>	function
F xmlwithindex		<b>setvalidkeys</b>	function
F year		<b>setvariable</b>	function
<b>setconstant</b>	function	<b>showmessage</b>	function
<b>setcount</b>	function	<b>storedscanners</b>	data table
<b>setdimen</b>	function	<b>strings</b>	table
<b>setelement</b>	function	<b>syntax</b>	data table
<b>setformat</b>	function	<b>tolist</b>	function
<b>setmacro</b>	function	<b>translations</b>	data table
<b>setmessage</b>	function	<b>variables</b>	data table
<b>setmessages</b>	function	<b>writestatus</b>	function
<b>settranslation</b>	function		

## io (basic lua)

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

# jit (context)

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

# job (context)

<b>comment</b>	function	F find	
<b>datasets</b>	table	F first	
D collected		F get	
F extend		F getcollected	
F getdata		F getdata	
F setdata		F getfield	
D tobesaved		F gettobesaved	
<b>disablesave</b>	function	F inlist	
<b>fileobjreferences</b>	table	F last	
D collected		F list	
D tobesaved		F save	
<b>files</b>	table	F savetagged	
D collected		D tobesaved	
F context		<b>positions</b>	table
B forcerun		F b_column	
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_column	
F get		F e_region	
F number		F enhance	
F page		F extra	
F save		F get	
F set		F getreserved	
D tobesaved		F gettobesaved	
<b>pack</b>	boolean	F hangafter	
<b>packversion</b>	number	F hangindent	
<b>pagestates</b>	table	F height	
D collected		F hsize	
F extend		F leftskip	
F realpage		F lowerleft	
F setstate		F lowerright	
D tobesaved		F markregionbox	
<b>passes</b>	table	F n	
F check		F onsamepage	
D collected		F overlapping	
F count		F p	
F define		F page	

F paragraph  
F parindent  
F position  
F r  
F region  
F replace  
F rightskip  
F set  
F setall  
F setdim  
F setregionbox  
D tobesaved  
F upperleft  
F upperright  
S used  
F width  
F x  
F xy  
F y

<b>register</b>	function
<b>save</b>	function
<b>structure</b>	table
D collected	
T components	
T tobesaved	
T branches	
S name	
S type	
<b>variables</b>	table
D checksums	
D collected	
F getchecksum	
F makechecksum	
F restore	
F save	
F setchecksum	
D tobesaved	
<b>version</b>	number



## lang (basic tex)

<b>clean</b>	function
<b>clear_hyphenation</b>	function
<b>clear_patterns</b>	function
<b>exceptions</b>	function
<b>gethjcode</b>	function
<b>hyphenate</b>	function
<b>hyphenation</b>	function
<b>hyphenationmin</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
<b>sethjcode</b>	function

# languages (context)

<b>associate</b>	function	<b>F registerpattern</b>	
<b>associated</b>	data table	<b>F setfeatures</b>	
<b>association</b>	function	<b>installed</b>	function
<b>counters</b>	data table	<b>labels</b>	table
<b>current</b>	function	<b>F define</b>	
<b>data</b>	data table	<b>F split</b>	
<b>decimals</b>	data table	<b>loadable</b>	function
<b>define</b>	function	<b>loadwords</b>	function
<b>expand</b>	function	<b>logger</b>	table
<b>expanders</b>	table	<b>F report</b>	
<b>frequencies</b>	table	<b>numbers</b>	data table
<b>F averagecharwidth</b>		<b>postexhyphenchar</b>	function
<b>F getdata</b>		<b>posthyphenchar</b>	function
<b>getdata</b>	function	<b>preexhyphenchar</b>	function
<b>getnumber</b>	function	<b>prehyphenchar</b>	function
<b>hyphenate</b>	function	<b>registered</b>	data table
<b>hyphenators</b>	table	<b>replacements</b>	table
<b>T dictionaries</b>		<b>F add</b>	
<b>D featuresets</b>		<b>F handler</b>	
<b>F handler</b>		<b>F set</b>	
<b>T methods</b>		<b>serializediscretionary</b>	function
<b>F expanded</b>		<b>setexceptions</b>	function
<b>B none</b>		<b>setsynonym</b>	function
<b>F original</b>		<b>showdiscretionaries</b>	function
<b>F tex</b>		<b>unload</b>	function
<b>F traditional</b>		<b>urls</b>	table
<b>B optimize</b>		<b>D characters</b>	
<b>F popmethod</b>		<b>N lefthyphenmin</b>	
<b>F pushmethod</b>		<b>D mapping</b>	
<b>F setmethod</b>		<b>B packslashes</b>	
<b>F setup</b>		<b>N righthyphenmin</b>	
<b>F showhyphenationtrace</b>		<b>F setcharacters</b>	
<b>T traditional</b>		<b>version</b>	number
<b>F definefeatures</b>		<b>visualizediscretionaries</b>	function
<b>F gettrace</b>		<b>words</b>	table
<b>F hyphenate</b>		<b>F check</b>	
<b>F injecthyphens</b>		<b>T data</b>	
<b>F installmethod</b>		<b>F disable</b>	
<b>F lasttrace</b>		<b>F enable</b>	
<b>F loadpatterns</b>		<b>T enablers</b>	
<b>F registerexception</b>		<b>B enables</b>	

F found

T methods

F load

N threshold

# layouts (context)

<b>status</b>	table	F leftorrightpageaction
	F isleftpage	

## lfs (extra lua)

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

# libraries (context)

**basiclua** data table

**basictex** data table

**builtin** data table

**extralua** data table

**extratex** data table

**functions** data table

**globals** data table

# lmx (context)

<b>color</b>	function
<b>convert</b>	function
<b>convertfile</b>	function
<b>convertstring</b>	function
<b>einject</b>	function
<b>eprint</b>	function
<b>escape</b>	function
<b>finalized</b>	function
<b>finject</b>	function
<b>fprint</b>	function
<b>get</b>	function
<b>getvariables</b>	function
<b>htmfile</b>	function
<b>html</b>	table
F a	
F td	
F th	
<b>include</b>	function
<b>inherited</b>	table
S color-background-four	
S color-background-one	
S color-background-three	
S color-background-two	
S title	
<b>initialize</b>	function
<b>inject</b>	function
<b>lmxfile</b>	function

<b>loadedfile</b>	function
<b>make</b>	function
<b>new</b>	function
<b>overloaderror</b>	function
<b>popupfile</b>	function
<b>print</b>	function
<b>pv</b>	function
<b>report</b>	function
<b>reset</b>	function
<b>result</b>	function
<b>set</b>	function
<b>show</b>	function
<b>showdebuginfo</b>	function
<b>showerror</b>	function
<b>stripcss</b>	function
<b>tv</b>	function
<b>type</b>	function
<b>urlescape</b>	function
<b>variable</b>	function
<b>variables</b>	table
S color-background-blue	
S color-background-body	
S color-background-green	
S color-background-main	
S color-background-purple	
S color-background-yellow	
S title-default	

# logs (context)

<b>application</b>	function
<b>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>finalizedocument</b>	function
<b>adddocumentcolorspace</b>	function	<b>finalizepage</b>	function
<b>adddocumenttextgstate</b>	function	<b>finishtransparencycode</b>	function
<b>adddocumentpattern</b>	function	<b>flushobject</b>	function
<b>adddocumentshade</b>	function	<b>flushstreamfileobject</b>	function
<b>addtocatalog</b>	function	<b>flushstreamobject</b>	function
<b>addtoinfo</b>	function	<b>formats</b>	data table
<b>addtonames</b>	function	<b>frompdfdoc</b>	function
<b>addtopageattributes</b>	function	<b>fromsixteen</b>	function
<b>addtopageresources</b>	function	<b>gethpos</b>	function
<b>addtopagesattributes</b>	function	<b>getmatrix</b>	function
<b>addtxmpinfo</b>	function	<b>getpos</b>	function
<b>annotationspecification</b>	function	<b>getvpos</b>	function
<b>array</b>	function	<b>graycode</b>	function
<b>boolean</b>	function	<b>hasmatrix</b>	function
<b>border</b>	function	<b>id</b>	function
<b>checkedkey</b>	function	<b>injecttxmpinfo</b>	function
<b>checkedvalue</b>	function	<b>inserttxmpinfo</b>	function
<b>circularshade</b>	function	<b>layerreference</b>	function
<b>cmykcode</b>	function	<b>limited</b>	function
<b>collectedresources</b>	function	<b>linearshade</b>	function
<b>color</b>	function	<b>nametree</b>	function
<b>colorspace</b>	function	<b>null</b>	function
<b>colorspaceconstants</b>	data table	<b>number</b>	function
<b>colorspec</b>	function	<b>pagereference</b>	function
<b>colorvalue</b>	function	<b>pdfcolor</b>	function
<b>colorvalues</b>	function	<b>pdftimestamp</b>	function
<b>constant</b>	function	<b>permitdetail</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>setdates</b>	function
F unload		<b>settime</b>	function
<b>escaped</b>	function	<b>settrailerid</b>	function

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

## lpeg (basic lua)

<b>B</b>	function	<b>finder</b>	function
<b>C</b>	function	<b>firstofsplit</b>	function
<b>Carg</b>	function	<b>frontstripper</b>	function
<b>Cb</b>	function	<b>instringchecker</b>	function
<b>Cc</b>	function	<b>is_lpeg</b>	function
<b>Cf</b>	function	<b>keeper</b>	function
<b>Cg</b>	function	<b>locale</b>	function
<b>Cmt</b>	function	<b>match</b>	function
<b>Cp</b>	function	<b>oneof</b>	function
<b>Cs</b>	function	<b>patterns</b>	data table
<b>Ct</b>	function	<b>pcode</b>	function
<b>P</b>	function	<b>print</b>	function
<b>R</b>	function	<b>ptree</b>	function
<b>S</b>	function	<b>replacer</b>	function
<b>UP</b>	function	<b>secondofsplit</b>	function
<b>UR</b>	function	<b>setmaxstack</b>	function
<b>US</b>	function	<b>split</b>	function
<b>V</b>	function	<b>splitat</b>	function
<b>afterprefix</b>	function	<b>splitter</b>	function
<b>anywhere</b>	function	<b>stripper</b>	function
<b>append</b>	function	<b>times</b>	function
<b>balancer</b>	function	<b>tsplitat</b>	function
<b>beforesuffix</b>	function	<b>tsplitter</b>	function
<b>checkedsplit</b>	function	<b>type</b>	function
<b>counter</b>	function	<b>utfchartabletopattern</b>	function
<b>endstripper</b>	function	<b>version</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>lastbytecode</b>	number
<b>bytedata</b>	data table	<b>mask</b>	string
<b>bytedone</b>	table	<b>messages</b>	data table
B page-cst		<b>name</b>	table
<b>collectgarbage</b>	function	<b>numbers</b>	data table
<b>delay</b>	function	<b>registercode</b>	function
<b>finalize</b>	function	<b>registeredcodes</b>	function
<b>firstbytecode</b>	number	<b>registerfinalizer</b>	function
<b>flush</b>	function	<b>registername</b>	function
<b>flushdelayed</b>	function	<b>setbytecode</b>	function
<b>get_functions_table</b>	function	<b>setluaname</b>	function
<b>getbytecode</b>	function	<b>startupfile</b>	string
<b>getluaname</b>	function	<b>version</b>	string

# luatex (context)

**cleanuptempfiles**      function  
**registerdumpactions**    function  
**registerpageactions**    function  
**registerstartactions**   function

**registerstopactions**    function  
**registertempfile**       function  
**starttime**               number

# lxml (context)

<b>addindex</b>	function	<b>flush</b>	function
<b>all</b>	function	<b>flushlinewise</b>	function
<b>applyfunction</b>	function	<b>flushsetups</b>	function
<b>applyselectors</b>	function	<b>flushspacewise</b>	function
<b>att</b>	function	<b>get_id</b>	function
<b>attribute</b>	function	<b>getid</b>	function
<b>badinclusions</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>inlineverbatim</b>	function
<b>context</b>	function	<b>installsetup</b>	function
<b>convert</b>	function	<b>last</b>	function
<b>count</b>	function	<b>lastatt</b>	function
<b>delete</b>	function	<b>lastmatch</b>	function
<b>direct</b>	function	<b>load</b>	function
<b>directives</b>	table	<b>loadbuffer</b>	function
F after		<b>loaddata</b>	function
F before		<b>loaded</b>	table
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>path</b>	function
<b>doifelseempty</b>	function	<b>pos</b>	function
<b>doifsetext</b>	function	<b>position</b>	function
<b>doifempty</b>	function	<b>pure</b>	function
<b>doifnot</b>	function	<b>raw</b>	function
<b>doifnotempty</b>	function	<b>rawroot</b>	function
<b>doifnottext</b>	function	<b>rawtex</b>	function
<b>doiftext</b>	function	<b>refatt</b>	function
<b>element</b>	function	<b>register</b>	function
<b>elements</b>	function	<b>registerentity</b>	function
<b>entities</b>	data table	<b>removesetup</b>	function
<b>filter</b>	function	<b>resetcdata</b>	function
<b>filterlist</b>	function	<b>resetsetups</b>	function
<b>first</b>	function	<b>resolvedentity</b>	function

<b>root</b>	function
<b>save</b>	function
<b>serialize</b>	function
<b>setaction</b>	function
<b>setcdata</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>startunesaped</b>	function
<b>stopraw</b>	function
<b>stopunesaped</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>withindex</b>	function
<b>xmltexhandler</b>	data table



## math (basic lua)

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

# mathematics (context)

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

## mbox (context)

<b>parse</b>	function
<b>parse_from</b>	function
<b>parse_header</b>	function
<b>parse_headers</b>	function

<b>parse_message</b>	function
<b>split_headers</b>	function
<b>split_mbox</b>	function
<b>split_message</b>	function

## md5 (extra lua)

<b>HEX</b>	function
<b>crypt</b>	function
<b>dec</b>	function
<b>decrypt</b>	function

<b>exor</b>	function
<b>hex</b>	function
<b>sum</b>	function
<b>sumhexa</b>	function

# metapost (context)

<b>analyzeplugins</b>	function	<b>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>escaped</b>	function	<b>makempy</b>	table
<b>exectime</b>	table	N nofconverted	
<b>extensiondata</b>	data table	F processgraphics	
<b>filterclippath</b>	function	F registerfile	
<b>flush</b>	function	<b>maketext</b>	function
<b>flushers</b>	table	<b>metafun</b>	table
T pdf		F interpolate	
F comment		F topath	
F flushfigure		<b>method</b>	number
F startfigure		<b>mptopdf</b>	table
F stopfigure		F convertmptstopdf	
F textfigure		N nofconverted	
<b>flushliteral</b>	function	<b>n</b>	number
<b>flushnormalpath</b>	function	<b>nvformat</b>	function
<b>flushreset</b>	function	<b>optimize</b>	boolean
<b>fonts</b>	table	<b>parse</b>	function
F define		<b>pdfliterals</b>	function
T flusher		<b>pluginactions</b>	function
F flushfigure		<b>process</b>	function
F startfigure		<b>processplugins</b>	function
F stopfigure		<b>processspecial</b>	function
N instances		<b>properties</b>	table
F process		<b>quickanddirty</b>	function
<b>format</b>	function	<b>reducetogray</b>	boolean
<b>format_number</b>	function	<b>reporterror</b>	function
<b>format_string</b>	function	<b>reset</b>	function
<b>formatnumber</b>	function	<b>resetlastlog</b>	function
<b>getclippath</b>	function	<b>resetplugins</b>	function
<b>getextensions</b>	function	<b>runscript</b>	function
<b>getjobdata</b>	function	<b>scripterror</b>	function
<b>getstatistics</b>	function	<b>setextensions</b>	function

**setoutercolor**

**settext**

**showlog**

**simple**

**svformat**

**tex**

F get

F reset

F set

function

function

boolean

function

function

table

F setfrombuffer

**texerrors**

**texttextsdata**

**theclippath**

**totable**

**unload**

**untagvariable**

**variables**

boolean

function

function

function

function

function

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>BackSpace</b>	function	<b>OverlayDepth</b>	function
<b>BaselineSkip</b>	function	<b>OverlayHeight</b>	function
<b>BodyFontSize</b>	function	<b>OverlayLineWidth</b>	function
<b>BottomDistance</b>	function	<b>OverlayOffset</b>	function
<b>BottomHeight</b>	function	<b>OverlayWidth</b>	function
<b>BottomSpace</b>	function	<b>PageDepth</b>	function
<b>CurrentColumn</b>	function	<b>PageFraction</b>	function
<b>CurrentHeight</b>	function	<b>PageNumber</b>	function
<b>CurrentWidth</b>	function	<b>PageOffset</b>	function
<b>CutSpace</b>	function	<b>PaperBleed</b>	function
<b>EmWidth</b>	function	<b>PaperHeight</b>	function
<b>ExHeight</b>	function	<b>PaperWidth</b>	function
<b>FooterDistance</b>	function	<b>PrintPaperHeight</b>	function
<b>FooterHeight</b>	function	<b>PrintPaperWidth</b>	function
<b>HSize</b>	function	<b>RealPageNumber</b>	function
<b>HeaderDistance</b>	function	<b>RightEdgeDistance</b>	function
<b>HeaderHeight</b>	function	<b>RightEdgeWidth</b>	function
<b>InPageBody</b>	function	<b>RightMarginDistance</b>	function
<b>InnerEdgeDistance</b>	function	<b>RightMarginWidth</b>	function
<b>InnerEdgeWidth</b>	function	<b>SpineWidth</b>	function
<b>InnerMarginDistance</b>	function	<b>StrutDepth</b>	function
<b>InnerMarginWidth</b>	function	<b>StrutHeight</b>	function
<b>LastPageNumber</b>	function	<b>TextHeight</b>	function
<b>LayoutColumnDistance</b>	function	<b>TextWidth</b>	function
<b>LayoutColumnWidth</b>	function	<b>TopDistance</b>	function
<b>LayoutColumns</b>	function	<b>TopHeight</b>	function
<b>LeftEdgeDistance</b>	function	<b>TopSkip</b>	function
<b>LeftEdgeWidth</b>	function	<b>TopSpace</b>	function
<b>LeftMarginDistance</b>	function	<b>VSize</b>	function
<b>LeftMarginWidth</b>	function	<b>_f_</b>	function
<b>LineHeight</b>	function	<b>boolean</b>	function
<b>MakeupHeight</b>	function	<b>dataset</b>	function
<b>MakeupWidth</b>	function	<b>datasets</b>	table
<b>NOfColumns</b>	function	<b>F load</b>	
<b>NOfPages</b>	function	<b>defaultcolormodel</b>	function
<b>OnOddPage</b>	function	<b>format</b>	function
<b>OnRightPage</b>	function	<b>formatted</b>	function
<b>OuterEdgeDistance</b>	function	<b>get</b>	table
<b>OuterEdgeWidth</b>	function	<b>F boolean</b>	
<b>OuterMarginDistance</b>	function	<b>F number</b>	
<b>OuterMarginWidth</b>	function	<b>F numeric</b>	



<code>F string</code>		<code>quoted</code>	<code>function</code>
<code>get_outline_text</code>	<code>function</code>	<code>report</code>	<code>function</code>
<code>graphformat</code>	<code>function</code>	<code>size</code>	<code>function</code>
<code>n</code>	<code>function</code>	<code>triplet</code>	<code>function</code>
<code>numeric</code>	<code>function</code>	<code>tt_dimensions</code>	<code>function</code>
<code>pair</code>	<code>function</code>	<code>tt_initialize</code>	<code>function</code>
<code>path</code>	<code>function</code>		
<code>print</code>	<code>function</code>		
<code>quadruple</code>	<code>function</code>		

## mplib (extra tex)

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

# noads (context)

**handlers**            table

- F alternates
- F autofences
- F classes
- F collapse
- F domains
- F families
- F italics
- F relocate
- F render
- F resize
- F showtree
- F tags

F unscript

F variants

**process**            function

**processnested**    function

**processors**        table

T autofences

T collapse

F mlist\_to\_hlist

T relocate

T render

T resize

T unscript

**processouter**      function

# node (basic tex)

<b>copy</b>	<b>function</b>	F insert_before
<b>copy_list</b>	<b>function</b>	F is_char
<b>count</b>	<b>function</b>	F is_direct
<b>current_attr</b>	<b>function</b>	F is_glyph
<b>dimensions</b>	<b>function</b>	F is_node
<b>direct</b>	<b>table</b>	F is_zero_glue
F copy		F kerning
F copy_list		F last_node
F count		F length
F current_attr		F ligaturing
F dimensions		F new
F do_ligature_n		F protect_glyph
F effective_glue		F protect_glyphs
F end_of_math		F protrusion_skippable
F find_attribute		F remove
F first_glyph		F set_attribute
F flush_list		F set_properties_mode
F flush_node		F setboth
F flush_properties_table		F setbox
F free		F setchar
F get_attribute		F setdisc
F get_properties_table		F setfield
F getboth		F setglue
F getbox		F setleader
F getchar		F setlink
F getdisc		F setlist
F getfield		F setnext
F getfont		F setprev
F getglue		F setproperty
F getid		F setsubtype
F getleader		F slide
F getlist		F tail
F getnext		F todirect
F getprev		F tonode
F getproperty		F toString
F getsubtype		F traverse
F has_attribute		F traverse_char
F has_field		F traverse_id
F has_glyph		F unprotect_glyphs
F hpack		F unset_attribute
F insert_after		F usedlist

F vpack		<b>is_zero_glue</b>	function
F write		<b>kerning</b>	function
<b>do_ligature_n</b>	function	<b>last_node</b>	function
<b>effective_glue</b>	function	<b>length</b>	function
<b>end_of_math</b>	function	<b>ligaturing</b>	function
<b>family_font</b>	function	<b>mlist_to_hlist</b>	function
<b>fields</b>	function	<b>new</b>	function
<b>find_attribute</b>	function	<b>next</b>	function
<b>first_glyph</b>	function	<b>prev</b>	function
<b>flush_list</b>	function	<b>protect_glyph</b>	function
<b>flush_node</b>	function	<b>protect_glyphs</b>	function
<b>flush_properties_table</b>	function	<b>protrusion_skippable</b>	function
<b>free</b>	function	<b>remove</b>	function
<b>get_attribute</b>	function	<b>set_attribute</b>	function
<b>get_properties_table</b>	function	<b>set_properties_mode</b>	function
<b>getboth</b>	function	<b>setboth</b>	function
<b>getchar</b>	function	<b>setfield</b>	function
<b>getdisc</b>	function	<b>setglue</b>	function
<b>getfield</b>	function	<b>setlink</b>	function
<b>getfont</b>	function	<b>setnext</b>	function
<b>getglue</b>	function	<b>setprev</b>	function
<b>getid</b>	function	<b>setProperty</b>	function
<b>getleader</b>	function	<b>slide</b>	function
<b>getlist</b>	function	<b>subtype</b>	function
<b>getnext</b>	function	<b>subtypes</b>	function
<b>getprev</b>	function	<b>tail</b>	function
<b>getproperty</b>	function	<b>tostring</b>	function
<b>getsubtype</b>	function	<b>traverse</b>	function
<b>has_attribute</b>	function	<b>traverse_char</b>	function
<b>has_field</b>	function	<b>traverse_id</b>	function
<b>has_glyph</b>	function	<b>type</b>	function
<b>hpack</b>	function	<b>types</b>	function
<b>id</b>	function	<b>unprotect_glyphs</b>	function
<b>insert_after</b>	function	<b>unset_attribute</b>	function
<b>insert_before</b>	function	<b>usedlist</b>	function
<b>is_char</b>	function	<b>vpack</b>	function
<b>is_glyph</b>	function	<b>whatsits</b>	function
<b>is_node</b>	function	<b>write</b>	function

# nodes (context)

<b>accentcodes</b>	data table	<b>fullhpack</b>	function
<b>aligned</b>	function	<b>getbox</b>	function
<b>append</b>	function	<b>getchar</b>	function
<b>astable</b>	function	<b>getdisc</b>	function
<b>basepoints</b>	function	<b>getfield</b>	function
<b>boundarycodes</b>	data table	<b>getfont</b>	function
<b>builders</b>	table	<b>getglue</b>	function
F buildpage_filter		<b>getid</b>	function
F vpack_filter		<b>getleader</b>	function
<b>codes</b>	data table	<b>getlist</b>	function
<b>concat</b>	function	<b>getnext</b>	function
<b>copy</b>	function	<b>getprev</b>	function
<b>copy_list</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>handlers</b>	table
T stack		F accessibility	
<b>dimensionfields</b>	data table	F alignbackgrounds	
<b>dimensions</b>	function	F backgrounds	
<b>dir_is_pop</b>	data table	F characters	
<b>dir_negation</b>	data table	F checkforleaks	
<b>disccodes</b>	data table	F checkglyphs	
<b>discretionarycodes</b>	data table	F cleanupbox	
<b>do_ligature_n</b>	function	F cleanuppage	
<b>effective_glue</b>	function	F export	
<b>end_of_math</b>	function	F finalize	
<b>fencecodes</b>	data table	F migrate	
<b>fields</b>	function	F protectglyphs	
<b>fillcodes</b>	data table	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>firstdirinbox</b>	function	<b>has_glyph</b>	function
<b>firstglyph</b>	function	<b>hpack</b>	function
<b>flush_list</b>	function	<b>idstring</b>	function
<b>flush_node</b>	function	<b>ignorablefields</b>	data table
<b>free</b>	function	<b>injections</b>	table

F copy		F setup	
F getligaindex		F stage_one	
F handler		F stage_two	
F installnewkern		D data	
F keepcounts		F finalize	
F reset		F number	
F resetcounts		N scratchbox	
F setcursive		<b>link</b>	function
F setkern		<b>linked</b>	function
F setligaindex		<b>list</b>	function
F setmark		<b>listablefields</b>	data table
F setpair		<b>listcodes</b>	data table
F setspacekerns		<b>listtoutf</b>	function
<b>insert_after</b>	function	<b>load</b>	function
<b>insert_before</b>	function	<b>locate</b>	function
<b>insert_list_after</b>	function	<b>margincodes</b>	data table
<b>installattributehandler</b>	function	<b>marginkerncodes</b>	data table
<b>is_char</b>	function	<b>markers</b>	table
<b>is_direct</b>	function	F get	
<b>is_display_math</b>	function	<b>mathcodes</b>	data table
<b>is_glyph</b>	function	<b>maxboxwidth</b>	function
<b>is_mirrored</b>	data table	<b>mlist_to_hlist</b>	function
<b>is_node</b>	function	<b>new</b>	function
<b>is_nut</b>	function	<b>noadcodes</b>	data table
<b>is_rotated</b>	data table	<b>nodecodes</b>	data table
<b>is_zero_glue</b>	function	<b>nopts</b>	function
<b>ischar</b>	function	<b>nuts</b>	table
<b>isglyph</b>	function	F append	
<b>kerncodes</b>	data table	F concat	
<b>kerning</b>	function	F copy	
<b>keys</b>	table	F copy_list	
T whatsit		F copy_properties	
<b>last_node</b>	function	F copyvisual	
<b>leadercodes</b>	data table	F count	
<b>leftmarginwidth</b>	function	F current_attr	
<b>ligaturing</b>	function	F delete	
<b>linefillers</b>	table	F dimensions	
D data		F do_ligature_n	
F define		F effective_glue	
F enable		F end_of_math	
F handler		F first_glyph	
<b>lines</b>	table	F firstcharacter	
T boxed		F firstcharinbox	
F register		F firstglyph	

F flush_list	F mlist_to_hlist
F flush_node	F nestedtracedslide
F free	F new
F fullhpack	T pool
F getattr	F baselineskip
F getattribute	F boundary
F getboth	F cleanup
F getbox	F disc
F getchar	F emptyrule
F getdisc	F fontkern
F getfield	F glue
F getfont	F gluespec
F getglue	F glyph
F getid	F hlist
F getleader	F italicern
F getlist	F kern
F getnext	F latelua
F getprev	F lateluafunction
F getprop	F leftmarginkern
F getskip	F leftskip
F getsubtype	F lineskip
F has_attribute	F negatedglue
F has_field	F noad
F has_glyph	F pdfannotation
F hpack	F pdfdestination
F insert_after	F pdfdirect
F insert_before	F pdfliteral
F insert_list_after	F pdfrestore
F is_char	F pdfsave
F is_direct	F pdfsetmatrix
F is_display_math	F penalty
F is_glyph	F register
F is_node	F rightmarginkern
F is_nut	F rightskip
F is_zero_glue	F rule
F ischar	F shrink
F isglyph	F special
F kerning	F stretch
F last_node	F temp
F leftmarginwidth	F textdir
F ligaturing	F usage
F link	F userattributes
F linked	T userids
F locate	N margins.inline



N property  
 N splitters.one  
 N splitters.two  
 F userlist  
 F userlua  
 F usernumber  
 F userrule  
 F userstring  
 F usertokens  
 F vlist  
 F wordboundary  
 F zeroglue  
 F prepend  
 F protect\_glyph  
 F protect\_glyphs  
 F protrusion\_skippable  
 F rawprop  
 F reference  
 F rehpick  
 F remove  
 F repackhlist  
 F replace  
 F rightmarginwidth  
 F set\_attribute  
 F setattr  
 F setattribute  
 F setattributes  
 F setboth  
 F setbox  
 F setchar  
 F setdisc  
 F setfield  
 F setglue  
 F setleader  
 F setlink  
 F setlist  
 F setnext  
 F setprev  
 F setprop  
 F setsubtype  
 F setunsetattributes  
 F setvisual  
 F setvisuals  
 F slide

F somepenalty  
 F somespace  
 F splitbox  
 F tail  
 F takebox  
 F takelist  
 F theprop  
 F tonode  
 F tonodes  
 F tonut  
 F tosequence  
 F toString  
 F tracedslide  
 F traverse  
 F traverse\_char  
 F traverse\_id  
 T typesetters  
 F tohbox  
 F tohpack  
 F tonodes  
 F to vbox  
 F tovpack  
 F unprotect\_glyphs  
 F unset\_attribute  
 F unsetattribute  
 F unsetattributes  
 F untracedslide  
 F usedlist  
 F vianodes  
 F vianuts  
 F vpack  
 F write

**packlist**  
**pardir\_is\_equal**  
**pardir\_is\_opposite**  
**pardir\_is\_parallel**  
**partextdir\_is\_equal**  
**penaltycodes**  
**plugindata**

F finalizer  
 F initializer  
 S name  
 T namespace  
 N attribute

function  
 data table  
 data table  
 data table  
 data table  
 data table  
 table

D data		<b>protect_glyphs</b>	function
F enable		<b>protrusion_skippable</b>	function
F handler		<b>pts</b>	function
F register		<b>radicalcodes</b>	data table
D registered		<b>reference</b>	function
D values		<b>references</b>	table
F processor		N attribute	
<b>points</b>	function	T done	
<b>pool</b>	table	F handler	
F baselineskip		T stack	
F cleanup		<b>rehpack</b>	function
F glyph		<b>remove</b>	function
F kern		<b>repackhlist</b>	function
F latelua		<b>replace</b>	function
F lateluafunction		<b>report</b>	function
F lineskip		<b>rightmarginwidth</b>	function
F pdfdirect		<b>rulecodes</b>	data table
F pdfliteral		<b>rules</b>	table
F pdfrestore		D data	
F pdfsave		F define	
F pdfsetmatrix		F enable	
F register		F handler	
F rule		T ruleactions	
F special		F draw	
F usage		F fill	
F usernumber		F mp	
<b>prepend</b>	function	F stroke	
<b>print</b>	function	F userrule	
<b>processors</b>	table	<b>save</b>	function
B enabled		<b>serialize</b>	function
F hpack_filter		<b>serializebox</b>	function
F post_linebreak_filter		<b>set_attribute</b>	function
F pre_linebreak_filter		<b>setattributes</b>	function
F tracer		<b>setbox</b>	function
<b>processwords</b>	function	<b>setboxtonaturalwd</b>	function
<b>properties</b>	table	<b>setfield</b>	function
T actions		<b>setglue</b>	function
F delayed		<b>setunsetattributes</b>	function
F fdelayed		<b>shifts</b>	table
F immediate		D data	
F attach		F define	
T data		F enable	
F delayed		F handler	
<b>protect_glyph</b>	function	<b>show</b>	function

<b>showboxes</b>	function	<b>tociceros</b>	function
<b>showcodes</b>	function	<b>todidots</b>	function
<b>showlist</b>	function	<b>todimen</b>	function
<b>showsimplelist</b>	function	<b>toinches</b>	function
<b>skipcodes</b>	data table	<b>tomillimeters</b>	function
<b>slide</b>	function	<b>tonewciceros</b>	function
<b>snapshots</b>	table	<b>tonewdidots</b>	function
F getparameters		<b>tonode</b>	function
F getsamples		<b>tonodes</b>	function
F resetsamples		<b>tonut</b>	function
F takesample		<b>topicas</b>	function
<b>somepenalty</b>	function	<b>topoints</b>	function
<b>somespace</b>	function	<b>toscaledpoints</b>	function
<b>splitbox</b>	function	<b>tosequence</b>	function
<b>stripdiscretionaries</b>	function	<b>tostring</b>	function
<b>stripping</b>	table	<b>totable</b>	function
T glyphs		<b>totree</b>	function
F set		<b>toutf</b>	function
<b>striprange</b>	function	<b>tracers</b>	table
<b>tail</b>	function	T characters	
<b>takebox</b>	function	F collect	
<b>tasks</b>	table	F equal	
F actions		F start	
F appendaction		F string	
F disableaction		F unicodes	
F disablegroup		T colors	
F enableaction		F reset	
F enablegroup		F set	
F freeze		F setlist	
F freezegroup		F fontchar	
F new		T frequencies	
F prependaction		F register	
F removeaction		T pool	
F replaceaction		T nodes	
F restart		F rule	
F setaction		T nuts	
F showactions		F rule	
F table		F resetproperties	
<b>textdir_is_equal</b>	data table	F rule	
<b>textdir_is_is</b>	data table	F setlist	
<b>textdir_is_opposite</b>	data table	F setproperties	
<b>textdir_is_parallel</b>	data table	F start	
<b>tobasepoints</b>	function	T steppers	
<b>tocentimeters</b>	function	F check	

F codes		<b>unprotect_glyphs</b>	function
F features		<b>unset_attribute</b>	function
F font		<b>unsetattribute</b>	function
F glyphs		<b>unsetattributes</b>	function
F message		<b>usedlist</b>	function
F messages		<b>usercodes</b>	data table
F nofsteps		<b>vianodes</b>	function
F register		<b>vianuts</b>	function
F reset		<b>visualizebox</b>	function
F start		<b>visualizers</b>	table
F stop		F box	
F stop		F handler	
T transparencies		F markfonts	
F reset		F setfont	
F set		F setlayer	
F setlist		F setvisual	
<b>traverse</b>	function	<b>vpack</b>	function
<b>traverse_char</b>	function	<b>whatcodes</b>	data table
<b>traverse_id</b>	function	<b>whatsitcodes</b>	data table
<b>typesetters</b>	table	<b>whatsitters</b>	table
F hbox		T getters	
F hpack		T dimensions	
F tohbox		T width	
F tohpack		T setters	
F tonodes		T dimensions	
F toinbox		T width	
F tovpack		<b>write</b>	function
F vpack			

## number (context)

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

## objects (context)

<b>data</b>	table	<b>page</b>	function
<b>dimensions</b>	function	<b>reference</b>	function
<b>found</b>	function	<b>register</b>	function
<b>n</b>	number	<b>restore</b>	function

## os (basic lua)

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

## package (basic lua)

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



# pagebuilders (context)

## columnsets      table

- F add
- F block
- F check
- F currentcolumn
- F define
- F finishflush
- F flushareas
- F flushcolumn
- F flushrest
- F goto
- F noto
- F prepareflush
- F put
- F registerarea
- F reset
- F setarea

- F sethsize
- F sethspace
- F setlines
- F setproperties
- F setstart
- F setvsize

## 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>fontname</b>	function	<b>immediateobj</b>	function
<b>fontobjnum</b>	function	<b>mapfile</b>	function
<b>fontsize</b>	function	<b>mapline</b>	function
<b>getcatalg</b>	function	<b>maxobjnum</b>	function
<b>getcompresslevel</b>	function	<b>newcolorstack</b>	function
<b>getdecimaldigits</b>	function	<b>obj</b>	function
<b>getdestmargin</b>	function	<b>objtype</b>	function
<b>gethpos</b>	function	<b>pageref</b>	function
<b>getignoreunknownimages</b>	function	<b>print</b>	function
<b>getinclusionerrorlevel</b>	function	<b>refobj</b>	function
<b>getinfo</b>	function	<b>registerannot</b>	overloaded function
<b>getlastannot</b>	function	<b>reserveobj</b>	function
<b>getlastlink</b>	function	<b>setcatalg</b>	overloaded function
<b>getlastobj</b>	function	<b>setcompresslevel</b>	function
<b>getlinkmargin</b>	function	<b>setdecimaldigits</b>	function
<b>getmajorversion</b>	function	<b>setdestmargin</b>	function
<b>getmatrix</b>	function	<b>setignoreunknownimages</b>	function
<b>getminorversion</b>	function	<b>setinclusionerrorlevel</b>	function
<b>getnames</b>	function	<b>setinfo</b>	overloaded function
<b>getobjcompresslevel</b>	function	<b>setlinkmargin</b>	function
<b>getorigin</b>	function	<b>setmajorversion</b>	function
<b>getpageattributes</b>	function	<b>setminorversion</b>	function
<b>getpageresources</b>	function	<b>setnames</b>	overloaded function
<b>getpagesattributes</b>	function	<b>setobjcompresslevel</b>	function
<b>getpkresolution</b>	function	<b>setorigin</b>	function
<b>getpos</b>	function	<b>setpageattributes</b>	overloaded function
<b>getretval</b>	function	<b>setpageresources</b>	overloaded function
<b>getsuppressoptionalinfo</b>	function	<b>setpagesattributes</b>	overloaded function
<b>getthreadmargin</b>	function	<b>setpkresolution</b>	function
<b>gettrailer</b>	function	<b>setsuppressoptionalinfo</b>	function
<b>gettrailerid</b>	function	<b>setthreadmargin</b>	function
<b>getversion</b>	function	<b>settrailer</b>	overloaded function
<b>getvpos</b>	function	<b>settrailerid</b>	function
<b>getxformattributes</b>	function	<b>setxformattributes</b>	function
<b>getxformmargin</b>	function	<b>setxformmargin</b>	function
<b>getxformresources</b>	function	<b>setxformresources</b>	function
<b>hasmatrix</b>	function	<b>xformname</b>	function

# pdfscanner (context)

**scan** function

# physics (context)

**units** table

F registerunit

D tables

## profiler (extra lua)

**pause**    function  
**resume**   function

**start**    function  
**stop**     function

# publications (context)

<b>addtexentry</b>	function	S author
<b>analyze</b>	function	T categories
<b>anywhere</b>	function	T article
<b>authorcache</b>	data table	S category
<b>authorcollapsers</b>	data table	T extra
<b>authorhashers</b>	table	T fields
F invertedshort		S author
F normal		S editor
F normalinverted		S journal
F normalshort		S keywords
F short		S number
<b>authormap</b>	data table	S pages
<b>authortoregister</b>	function	S title
<b>casters</b>	table	S volume
F author		S year
F keyword		T optional
F pagenumber		T required
F range		T sets
<b>checkeddataset</b>	function	T author
<b>citevariants</b>	table	T virtual
F author		T book
F authornum		S category
F authoryear		T extra
F authoryears		T fields
F category		S address
F default		S author
F entry		S edition
F index		S editor
F keywords		S keywords
F num		S number
F page		S publisher
F short		S subtitle
F tag		S title
F textnum		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

T demo-a	T virtualfields	
S category	B authornum	
T extra	B authoryear	
T fields	B authoryears	
S author	B num	
S institution	B suffix	
S organization	<b>datasets</b>	table
S subtitle	<b>detailed</b>	table
S title	<b>endnotes_to_btx</b>	function
S year	<b>enhancer</b>	table
T optional	S arguments	
T required	T askip	
T sets	B dirty	
T author	T gskip	
T virtual	T kind	
T demo-b	T list	
S category	T system	
T extra	T order	
T fields	<b>enhancers</b>	table
S author	F details	
S institution	F order	
S organization	F suffixes	
S subtitle	<b>finder</b>	function
S title	<b>firstofrange</b>	function
S year	<b>found</b>	function
T optional	<b>get</b>	function
T required	<b>getcasted</b>	function
T sets	<b>getdetail</b>	function
T authors	<b>getdirect</b>	function
T virtual	<b>getfaster</b>	function
S comment	<b>getfield</b>	function
S copyright	<b>getfuzzy</b>	function
T fields	<b>getindex</b>	function
S name	<b>inspectors</b>	data table
T types	<b>journals</b>	table
S author	F abbreviated	
S editor	F add	
S keywords	F expanded	
S number	F load	
S page	F save	
S pages	<b>lastofrange</b>	function
S volume	<b>lists</b>	table
S version	F collectentries	
D virtual	F combiinlist	

F fetchentries		<b>okay</b>	function
F filterall		<b>oneorange</b>	function
F flushcombi		<b>parenttag</b>	function
F flushentry		<b>permitted</b>	function
T methods		<b>refman_to_btx</b>	function
F dataset		<b>resolvedname</b>	function
F force		<b>save</b>	function
F global		<b>search</b>	function
F local		<b>setcategory</b>	function
F nofregettered		<b>setspecification</b>	function
F prepareentries		<b>singularorplural</b>	function
F register		<b>sortedentries</b>	function
F sameasprevious		<b>sortmethods</b>	table
T sorters		T authoryear	
F cite		T sequence	
F dataset		<b>specifications</b>	table
F default		T default	
F index		S author	
F list		S comment	
F reference		S copyright	
F short		S name	
F used		S version	
F uservariable		D virtual	
<b>listvariants</b>	table	<b>splitauthor</b>	function
F default		<b>splitoneauthor</b>	function
F index		<b>statistics</b>	table
F num		N nofbytes	
F page		N nofdatasets	
F short		N nofdefinitions	
F tag		N nofshortcuts	
<b>load</b>	function	<b>tables</b>	table
<b>loadbibdata</b>	function	D implicits	
<b>loaddefinitionfile</b>	function	D origins	
<b>loaders</b>	table	D privates	
F bbl		D sets	
F bib		D specials	
F buffer		D types	
F endnote		D virtuals	
F lua		<b>tags</b>	function
F refman		<b>tracers</b>	table
F registercleaner		F showdatasetauthors	
F xml		F showdatasetcompleteness	
<b>loadreplacementfile</b>	function	F showdatasetfields	
<b>new</b>	function	F showentry	



F showfields		<b>usedataset</b>	function
F showhashedauthors		<b>usedentries</b>	function
F showtables		<b>writers</b>	table
F showvariants		F author	
<b>typesetters</b>	table	F keyword	
F author		F pagenumber	
F string		F range	

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

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

**autofontfeature**    table

    F disable

    F enable

    F handler

**categorytonumber**   data table

**colors**             data table

**decomposehangul**    function

**defaults**           table

    N inter\_char\_half\_shrink\_factor

    N inter\_char\_half\_stretch\_factor

    N inter\_char\_hangul\_penalty

    N inter\_char\_quarter\_shrink\_factor

    N inter\_char\_quarter\_stretch\_factor

    N inter\_char\_shrink\_factor

    N inter\_char\_stretch\_factor

    N inter\_word\_stretch\_factor

**handlers**           data table

**hash**               table

**injectors**          data table

**installdataset**     function

**installmethod**     function

**numbertocategory**   data table

**numbertodataset**   data table

**numbertohandler**   data table

**reset**              function

**set**                function

**splitters**          data table

## set (context)

**contains**    function

**create**     function

**tolist**     function

**tonumber**   function

**totable**    function



# socket (extra lua)

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

F getaddrinfo  
F gethostname  
F getnameinfo  
F tohostname  
F toip

**ftp** table

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

**gettime** function

**headers** table

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

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

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

**http**      **table**

N PORT  
 N TIMEOUT  
 S USERAGENT  
 F open  
 F request

**newtry**      **function**

**protect**      **function**  
**select**      **function**  
**sink**      **function**  
**sinkt**      **table**

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

**skip**      **function**  
**sleep**      **function**  
**smtp**      **table**

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

**source**      **function**  
**sourcet**      **table**

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

**tcp**      **function**  
**tcp6**      **function**  
**tp**      **table**

N TIMEOUT  
 F connect

**try**      **function**  
**udp**      **function**  
**udp6**      **function**  
**url**      **table**

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

# sorters (context)

**basicsorter**      function

**comparers**        table

    F basic

**constants**        table

    S defaultdigits

    S defaultlanguage

    S defaultmethod

    N digitmaximum

    N digitoffset

    N ignoredoffset

    N replacementoffset

    T validmethods

        B ch

        B mc

        B mm

        B pc

    B pm

    B uc

    B zc

    B zm

**definitions**      data table

**firstofsplit**     function

**packch**            function

**packuc**            function

**setlanguage**      function

**sort**                function

**splitters**         table

    F utf

**strip**              function

**tracers**           data table

**update**            function

## statistics (context)

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

## status (basic tex)

**list**                    function

**resetmessages**    function

## storage (context)

<b>allocate</b>	function	<b>noftables</b>	number
<b>data</b>	table	<b>register</b>	function
<b>mark</b>	function	<b>shared</b>	data table
<b>marked</b>	function	<b>storedfunctions</b>	data table
<b>max</b>	number	<b>strip</b>	boolean
<b>min</b>	number	<b>tofmodules</b>	number
<b>nofmodules</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>optionalquoted</b>	function
<b>autosingle</b>	function	<b>quote</b>	function
<b>booleanstring</b>	function	<b>quoted</b>	function
<b>byte</b>	function	<b>rep</b>	function
<b>bytepairs</b>	function	<b>replacenewlines</b>	function
<b>bytes</b>	function	<b>reverse</b>	function
<b>char</b>	function	<b>split</b>	function
<b>characterpairs</b>	function	<b>splitlines</b>	function
<b>characters</b>	function	<b>splitup</b>	function
<b>checkedsplit</b>	function	<b>strip</b>	function
<b>collapsespaces</b>	function	<b>sub</b>	function
<b>count</b>	function	<b>tformat</b>	function
<b>dump</b>	function	<b>toHEX</b>	function
<b>escapedpattern</b>	function	<b>toboollean</b>	function
<b>explode</b>	function	<b>tobytes</b>	function
<b>find</b>	function	<b>tocontext</b>	function
<b>format</b>	function	<b>todec</b>	function
<b>formatter</b>	function	<b>todimen</b>	function
<b>formatters</b>	function	<b>tohex</b>	function
<b>fullstrip</b>	function	<b>tonodes</b>	function
<b>gmatch</b>	function	<b>topattern</b>	function
<b>gsub</b>	function	<b>totable</b>	function
<b>is_boolean</b>	function	<b>toutf</b>	function
<b>is_empty</b>	function	<b>tracedchar</b>	function
<b>itself</b>	function	<b>tracedchars</b>	table
<b>len</b>	function	<b>unquote</b>	function
<b>limit</b>	function	<b>unquoted</b>	function
<b>longtostring</b>	function	<b>upper</b>	function
<b>lower</b>	function	<b>utfcharacters</b>	function
<b>match</b>	function	<b>utfvalues</b>	function
<b>nspace</b>	table	<b>valid</b>	function



# structures (context)

<b>atlocation</b>	function	F previous
<b>blocks</b>	table	F raw
D collected		F record
F define		F reset
F print		F restart
F save		F restore
F select		F save
F setstate		F set
D states		F setlevel
D tobesaved		F setoffset
<b>bookmarks</b>	table	F setown
T extras		F setstate
F get		F setvalue
F mergesections		T specials
F register		F userpage
F reset		F subs
F tosections		D tobesaved
F finalize		F value
F flatten		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		<b>helpers</b> table
F check		F analyze
D collected		F formulanumber
F compact		F merged
F converted		F page
F currentvalue		F pageofinternal
D data		F prefix
F define		F prefixlastpage
F first		F prefixpage
F get		F simplify
F last		F title
F next		F touserdata
F prev		<b>inserts</b> table

D data		F savedlistnumber	
F define		F savedlistprefixednumber	
F getdata		F savedlisttitle	
F getlocation		D sectionblocks	
F getname		F sectionnumber	
F getnumber		F size	
F setlocation		F title	
F setup		D tobесaved	
D stored		F userdata	
		F uservalue	
<b>itemgroups</b>	<b>table</b>	<b>marks</b>	<b>table</b>
<b>lists</b>	<b>table</b>		
F addto		D data	
F analyze		F define	
B autoreorder		F exists	
D cached		F fetch	
D collected		F fetchallmarks	
F discard		F fetched	
F enhance		F fetchonemark	
T enhancers		F fetchtwomarks	
F filter		F get	
F formulainumber		F number	
F getresult		F relate	
F groupindex		F reset	
F hasnumberdata		F set	
F haspagedata		F show	
F hastitledata		F synchronize	
F iscached		F title	
D kinds		T tracers	
F label		F showtable	
F location		<b>notes</b>	<b>table</b>
D names		F checkpagechange	
F number		F define	
D ordered		F doifonsamepageasprevious	
F page		F get	
F popnesting		F getdeltapage	
F prefix		F getinternal	
F prefixednumber		F getn	
F prefixedpage		F getstate	
F process		F hascontent	
D pushed		F internal	
F pushnesting		F internalid	
F realpage		F listindex	
F reordered		F ordered	
T result		F postpone	

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

F setreferencerealpage

D specials

F splitcomponent

F splitprefix

F splitreference

F synchronizepage

T testrunners

F inner

F special

F special operation

F special operation with arguments

T testspecials

F deltapage

F i

F internal

F page

F realpage

F section

F userpage

D tobereferred

D tobesaved

D tracedpages

T urls

T data

F define

F found

F get

D usedinternals

D usedviews

F valid

## registers

table

F analyze

D collected

F compare

F define

F enhance

F extend

F filter

F filtercollected

F finalize

F findinternal

F flush

F get

F prepare

F process

F setmethod

F sort

F store

D tobesaved

F unique

F userdata

## sections

table

F autodepth

F cct

D collected

F current

F currentblock

F currentid

F currentlevel

F currentsectionindex

F depthnumber

F finddata

F findnumber

F fullnumber

F getcurrentlevel

F getlevel

F getnumber

F internalreference

D levelmap

D levels

F load

F matchingtilldepth

F numberatdepth

F numbers

F popblock

F prefixedconverted

F pushblock

F register

D registered

F reportstructure

F save

T sectionblockdata

T bodypart

S bookmark

F set

F setblock

F setchecker

F setentry

F setinitialblock	F elementtag
F setlevel	F finishexport
F setnumber	F getid
F structuredata	F handler
F title	D labels
D tobesaved	F last
F typesetnumber	F lastinchain
F userdata	F locatedtag
B verbose	T patterns
<b>sets</b>	U splitter
F define	D properties
F get	F registermetadata
F getall	F restart
D setlist	F setaspect
<b>specials</b>	F setattributefield
D collected	F setcombination
F retrieve	F setfigure
F store	F sethighlight
D tobesaved	F setitem
<b>synonyms</b>	F setitemgroup
F analyzed	F setlist
D collected	F setnotation
F compare	F setnotationsymbol
F define	F setproperty
F filter	F setregister
F finalize	F setsorting
F flush	F setsynonym
F isshown	F settablecell
F isused	F settabulatecell
F meaning	F settagdelimitedsymbol
F prepare	F settagsubsentencesymbol
F process	F setupexport
F register	F setuserproperties
F registershown	D specifications
F registerused	F start
F resetshown	F stop
F resetused	F strip
F sort	D taglist
F synonym	T usewithcare
D tobesaved	T images
<b>tags</b>	

## table (basic lua)

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

## tex (basic tex)

<b>attribute</b>	table	<b>gettoks</b>	function
<b>badness</b>	function	<b>getuccode</b>	function
<b>box</b>	table	<b>glue</b>	table
<b>catcode</b>	table	<b>hashtokens</b>	function
<b>conditionals</b>	data table	<b>ifs</b>	data table
<b>constants</b>	data table	<b>inimatcodes</b>	number
<b>count</b>	table	<b>init_rand</b>	function
<b>cprint</b>	function	<b>isattribute</b>	function
<b>ctdcatcodes</b>	number	<b>isbox</b>	function
<b>ctxcatcodes</b>	number	<b>iscount</b>	overloaded function
<b>definefont</b>	function	<b>isdefined</b>	function
<b>delcode</b>	table	<b>isdimen</b>	overloaded function
<b>dimen</b>	table	<b>ismuskip</b>	overloaded function
<b>directives</b>	data table	<b>isskip</b>	overloaded function
<b>enableprimitives</b>	function	<b>istoken</b>	function
<b>error</b>	function	<b>istoks</b>	function
<b>extraprimitives</b>	function	<b>lccode</b>	table
<b>finish</b>	function	<b>linebreak</b>	function
<b>fontidentifier</b>	function	<b>lists</b>	table
<b>fontname</b>	function	<b>lua_math_random</b>	function
<b>fprint</b>	function	<b>lua_math_randomseed</b>	function
<b>get</b>	function	<b>luacatcodes</b>	number
<b>getattribute</b>	function	<b>mathcode</b>	table
<b>getbox</b>	function	<b>modes</b>	data table
<b>getboxresourcedimensions</b>	function	<b>muglue</b>	table
<b>getcatcode</b>	function	<b>muskip</b>	table
<b>getcount</b>	function	<b>nest</b>	table
<b>getdelcode</b>	function	<b>nilcatcodes</b>	number
<b>getdelcodes</b>	function	<b>normal_rand</b>	function
<b>getdimen</b>	function	<b>notcatcodes</b>	number
<b>getglue</b>	function	<b>number</b>	function
<b>getlccode</b>	function	<b>primitives</b>	function
<b>getlist</b>	function	<b>print</b>	function
<b>getmath</b>	function	<b>prtcacodes</b>	number
<b>getmathcode</b>	function	<b>resetparagraph</b>	function
<b>getmathcodes</b>	function	<b>romannumeral</b>	function
<b>getmuglue</b>	function	<b>round</b>	function
<b>getmuskip</b>	function	<b>run</b>	function
<b>getnest</b>	function	<b>saveboxresource</b>	function
<b>getsfcode</b>	function	<b>scale</b>	function
<b>getskip</b>	function	<b>scantoks</b>	function

<b>set</b>	function	<b>skip</b>	table
<b>setattribute</b>	function	<b>sp</b>	function
<b>setbox</b>	function	<b>splitbox</b>	function
<b>setcatcode</b>	function	<b>sprint</b>	function
<b>setcount</b>	function	<b>systemmodes</b>	data table
<b>setdelcode</b>	function	<b>takebox</b>	function
<b>setdimen</b>	function	<b>texcatcodes</b>	number
<b>setglue</b>	function	<b>toks</b>	table
<b>setlccode</b>	function	<b>tpacatcodes</b>	number
<b>setlist</b>	function	<b>tpbcatcodes</b>	number
<b>setmath</b>	function	<b>tprint</b>	function
<b>setmathcode</b>	function	<b>trackers</b>	data table
<b>setmuglue</b>	function	<b>triggerbuildpage</b>	function
<b>setmuskip</b>	function	<b>txtcatcodes</b>	number
<b>setnest</b>	function	<b>type</b>	function
<b>setsfcode</b>	function	<b>uccode</b>	table
<b>setskip</b>	function	<b>uniform_rand</b>	function
<b>settoks</b>	function	<b>uniformdeviate</b>	function
<b>setuccode</b>	function	<b>uprint</b>	function
<b>sfcode</b>	table	<b>useboxresource</b>	function
<b>shipout</b>	function	<b>vrbcatcodes</b>	number
<b>show_context</b>	function	<b>write</b>	function



## texconfig (basic tex)

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

## texio (basic tex)

**setescape** function  
**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 endoffline  
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  
**constant** function  
**converters** table

S toboolean  
S todimen  
S toglue  
S tonumber  
S tostring

**defined** function  
**egroup** userdata  
**getters** table

F box  
F count  
F dimen  
F glue  
F skip  
F token

**hbox** userdata  
**istoken** function  
**letter** function  
**letters** function  
**other** function  
**pickup** function  
**printlist** function  
**scanners** table

F boolean  
F code  
F conditional  
F count  
F csname  
F dimen  
F dimension  
F glue  
F integer  
F keyword  
F list  
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 conditional
F dimen	F count
F glue	F csname
F macro	F dimen
F skip	F dimension
<b>shortcuts</b> table	F glue
T bits	F integer
N active	F keyword
N alignment	F list
N begingroup	F lxmlid
N character	F number
N close	F scanclose
N comment	F scanopen
N endgroup	F skip
N endofline	F string
N escape	F token
N ignore	F tokens
N invalid	F toks
N letter	F word
N mathshift	F scannumber
N open	F scanopen
N other	F scanstring
N parameter	F scanword
N space	F toboolean
N subscript	F todimen
N superscript	T tokens
N whitespace	F astable
N close	U bgroup
F inspect	T collectors
N open	F defaultwords
F report	F dowithwords
F scanboolean	F flush
F scanclose	F install
F scancode	F register
F scanconditional	F show
F scanscname	F test
F scandimen	F compile
F scandimension	F constant
F scaninteger	T converters
F scankeyword	S toboolean
F scanlist	S todimen
T scanners	S toglue
F boolean	S tonumber
F code	S tostring

F defined	N open	
U egroup	F report	
T getters	F scanboolean	
F box	F scanclose	
F count	F scancode	
F dimen	F scanconditional	
F glue	F scansname	
F skip	F scandimen	
F token	F scandimension	
U hbox	F scaninteger	
F istoken	F scankeyword	
F letter	F scanlist	
F letters	F scannumber	
F other	F scanopen	
F pickup	F scanstring	
F printlist	F scanword	
F scantable	F toboolean	
T setters	F todimen	
F box	F tonumber	
F count	F tostring	
F dimen	U vbox	
F glue	U vtop	
F macro	F tonumber	
F skip	F tostring	
T shortcuts	<b>vbox</b>	userdata
N close	<b>vtop</b>	userdata
F inspect		

# tracers (context)

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

## trackers (context)

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

# typesetters (context)

<b>alignments</b>	table			T handlers
F handler				F installhandler
F set				F processmath
<b>breakpoints</b>	table			F set
F define				F setcolor
F handler				F setmath
D mapping				F tomode
T methods				<b>firstlines</b>
T numbers				table
F set				T actions
F setreplacement				F default
				F line
<b>cases</b>	table			F word
T actions				F handler
F handler				F set
F register				<b>initials</b>
F set				table
<b>characteralign</b>	table			T actions
F handler				F default
F resetcharacteralign				F addanchortoline
F setcharacteralign				F addtoline
<b>characters</b>	table			F calculatedelta
F handler				F checkline
T methods				F handler
F replacensp				F moveinline
F replacenspaces				F normalize
<b>checkers</b>	table			F set
F handler				<b>injectors</b>
F reset				table
F set				F check
<b>cleaners</b>	table			T list
F handler				F mark
F set				F reset
<b>digits</b>	table			F set
T actions				F show
F handler				<b>italics</b>
F set				table
<b>directions</b>	table			F enablemath
F getfences				F enabletext
F getglobal				F forcevariant
F getmethod				F handler
F handler				F reset
				F set
				<b>kerns</b>
				table
				D factors



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

# unicode (extra lua)

## ascii table

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

## grapheme table

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

## latin1 table

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

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

## utf8 table

F byte  
F char  
F characters  
F chrln  
F count  
F dump  
F filetype  
F find  
F format  
F gfind  
F gmatch  
F gsub  
F is\_valid  
F len  
F length  
F lower  
F magic  
F match  
F remapper  
F rep  
F replacer  
F reverse  
F split  
F splitlines  
F sub  
F substituter  
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>hascheme</b>	function
<b>query</b>	function
<b>split</b>	function
<b>toquery</b>	function
<b>unescapeget</b>	function

# utilities (context)

<b>debugger</b>	table	
F disable		B alwaysstripcode
F enable		F compile
F savestats		F loadedluacode
F showstats		F loadstripped
F showtraceback		N nofstrippedbytes
		N nofstrippedchunks
<b>files</b>	table	B stripcode
F close		T strippedchunks
F getposition		F strippedloadstring
F look		T suffixes
F open		S lua
F read2dot14		S luc
F readbyte		S lui
F readbytes		S luj
F readcardinal		S luv
F readcardinal1		S tma
F readcardinal2		S tmc
F readcardinal3		S tua
F readcardinal4		S tuc
F readchar		
F readfixed4		<b>packers</b> table
F readinteger		F hashed
F readinteger1		F new
F readinteger2		F pack
F readinteger4		F simplehashed
F readstring		F strip
F readtag		F unpack
F setposition		N version
F size		<b>parsers</b> table
F skip		F add_settings_to_array
F skiplong		F arguments_to_table
F skipshort		F array_to_string
<b>formatters</b>	table	F csvsplitter
F formatcolumns		F getparameters
F list		F groupedsplitat
F stripzeros		F hash_to_string
<b>garbagecollector</b>	table	T hashes
F check		T settings_to_set
N criterium		T max,fit,broad,auto
B enabled		B auto
<b>lua</b>	table	B broad
		B fit

B max		F disablegroup	
T text,hidden,paper,page,leftpage,rightpage		F enableaction	
B hidden		F enablegroup	
B leftpage		D functions	
B page		F localize	
B paper		F new	
B rightpage		F nodeprocessor	
B text		F prependaction	
F iterator		F prependgroup	
F keq_to_hash		F removeaction	
F listitem		F replaceaction	
F make_settings_to_hash_pattern		F setkind	
F mergehashes		F tostring	
F options_to_array		<b>setters</b>	table
F options_to_hash		F disable	
T patterns		F enable	
U settings_to_array		F initialize	
U settings_to_hash_a		F list	
U settings_to_hash_b		F new	
U settings_to_hash_c		F register	
U unittotex		F report	
F process_stripped_settings		F reset	
F rfc4180splitter		F show	
F runtime		<b>stacker</b>	table
F settings_to_array		F new	
F settings_to_array_obey_fences		<b>storage</b>	table
F settings_to_array_with_repeat		F allocate	
F settings_to_hash		F checked	
F settings_to_hash_strict		F mark	
F settings_to_hash_tolerant		F marked	
F settings_to_set		F setinitializer	
F simple_hash_to_string		F sparse	
F splitmethod		<b>streams</b>	table
F splitthousands		F close	
F stepper		F getposition	
F stripped_settings_to_array		F look	
F unittotex		F open	
F unittotxml		F read2dot14	
<b>report</b>	function	F readbyte	
<b>sequencers</b>	table	F readbytes	
F appendaction		F readcardinal	
F appendgroup		F readcardinal1	
F compile		F readcardinal2	
F disableaction		F readcardinal3	

F readcardinal4	U prune and collapse
F readchar	U prune and no empty
F readfixed4	U retain
F readinteger	U retain and collapse
F readinteger1	U retain and no empty
F readinteger2	F striplines
F readinteger4	F striplong
F readstring	F tabtospace
F setposition	T tracers
F size	<b>tables</b> table
F skip	F accesstable
F skipbytes	F definedtable
F skiplong	F definetable
F skipshort	F encapsulate
<b>strings</b> table	F insertaftervalue
F collapsecrlf	F insertbeforevalue
T formatters	F migratetable
F add	F removevalue
F new	F replacevalue
F newrepeater	<b>templates</b> table
F nice	F load
T striplinepatterns	F replace
U collapse	F replacer
U prune	F resolve

## vf (context)

<b>char</b>	function
<b>down</b>	function
<b>fontid</b>	function
<b>image</b>	function
<b>node</b>	function
<b>nop</b>	function

<b>pop</b>	function
<b>push</b>	function
<b>right</b>	function
<b>rule</b>	function
<b>special</b>	function



## visualizers (context)

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

## xml (context)

<b>addentitiesdoctype</b>	function	D parsedxml	
<b>addspecialcode</b>	function	D string	
<b>after</b>	function	D tex	
<b>all</b>	function	D texline	
<b>applylpath</b>	function	D texspace	
<b>assign</b>	function	D verbose	
<b>attribute</b>	function	<b>defaultprotocol</b>	string
<b>badinclusions</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	

F all	F match	
F attribute	F name	
F chainattribute	F position	
F chainpath	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>lastmatch</b>	function
F last	<b>load</b>	function
F lowerall	<b>lpath</b>	function

<b>lpathcached</b>	function	<b>selection</b>	function
<b>lpathcalls</b>	function	<b>separate</b>	function
<b>lshow</b>	function	<b>serialize</b>	function
<b>makestandalone</b>	function	<b>setcdata</b>	function
<b>match</b>	function	<b>setcomment</b>	function
<b>name</b>	function	<b>sethandlersfunction</b>	function
<b>newhandlers</b>	function	<b>setinjectors</b>	function
<b>nodesettostring</b>	function	<b>setproperty</b>	function
<b>originalload</b>	function	<b>settings</b>	function
<b>package</b>	function	<b>specialcodes</b>	table
<b>parent</b>	function	S "	
<b>parsedentitylpeg</b>	userdata	S #	
<b>pihandlers</b>	table	S \$	
F injector		S %	
<b>placeholders</b>	table	S &	
F unknown_any_entity		S '	
F unknown_dec_entity		S <	
F unknown_hex_entity		S >	
<b>position</b>	function	S \	
<b>privatecodes</b>	table	S {	
<b>privatetoken</b>	function	S	
<b>process</b>	function	S }	
<b>process_attributes</b>	function	S ~	
<b>process_elements</b>	function	<b>specialhandler</b>	table
<b>processattributes</b>	function	<b>sprint</b>	function
<b>profiled</b>	table	<b>string</b>	function
<b>raw</b>	function	<b>strip</b>	function
<b>registerentity</b>	function	<b>strip_whitespace</b>	function
<b>registers</b>	function	<b>stripelement</b>	function
<b>reindex</b>	function	<b>stripleadingspaces</b>	function
<b>remap_name</b>	function	<b>table</b>	function
<b>remap_namespace</b>	function	<b>text</b>	function
<b>remap_tag</b>	function	<b>textonly</b>	function
<b>remapname</b>	function	<b>texttocdata</b>	function
<b>remapnamespace</b>	function	<b>tocdata</b>	function
<b>remaptag</b>	function	<b>toelement</b>	function
<b>renamespace</b>	function	<b>tostring</b>	function
<b>reparsedentitylpeg</b>	userdata	<b>totable</b>	function
<b>replace</b>	function	<b>toxml</b>	function
<b>replace_element</b>	function	<b>tprint</b>	function
<b>resetinjectors</b>	function	<b>traverse</b>	function
<b>resolvens</b>	function	<b>unescaped</b>	function
<b>root</b>	function	<b>unescapedentitylpeg</b>	userdata
<b>save</b>	function	<b>unprivatized</b>	function

**unspecialized**  
**with****element**  
**with****elements**

function  
function  
function

**wrap**  
**xmlns**

function  
table

## zip (extra lua)

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