

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

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

# global (alias: \_G)

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

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

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

# backends (context)

**codeinjections** table  
**current** string  
**defaults** table

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

**install** function  
**nodeinjections** table

F restore  
F save  
F transform

**nothing** function  
**pdf** table

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

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

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

**registrations**      table

**tables**              table

## bit (context)

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



## bit32 (basic lua)

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

## blobs (context)

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

## boolean (context)

**tocontext** function

**tonumber** function

# buffers (context)

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

## caches (context)

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

## callback (basic tex)

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

## callbacks (context)

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



## catcodes (context)

**names** data table

**numbers** data table

**register** function

# characters (context)

<b>activeoffset</b>	<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>combined</b>	data table	S cm	
<b>contextname</b>	function	S cp	
<b>csletters</b>	data table	S cr	
<b>data</b>	data table	S ex	
<b>decomposed</b>	data table	S gl	
<b>description</b>	function	S h2	
<b>descriptions</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
<b>math</b>	table
<b>mathpairs</b>	data table
<b>mirrors</b>	table
<b>otfscripts</b>	data table
<b>ranges</b>	data table
<b>registerentities</b>	function
<b>remap_hangul_syllable</b>	function
<b>setactivecatcodes</b>	function
<b>setlettercatcodes</b>	function
<b>shape</b>	function
<b>shaped</b>	function
<b>shash</b>	data table
<b>shchars</b>	data table
<b>shcodes</b>	data table
<b>showstring</b>	function
<b>specialchars</b>	data table
<b>specials</b>	data table
<b>splits</b>	table
T char	
T compat	
<b>subscripts</b>	table
<b>superscripts</b>	table
<b>synonyms</b>	data table
<b>tex</b>	table
D accentmapping	
D commandmapping	
F defineaccents	
F safechar	
F toutf	
F toutfpattern	
<b>textclasses</b>	table
<b>tonumber</b>	function
<b>ucchars</b>	data table
<b>uccode</b>	function
<b>uccodes</b>	data table
<b>uhash</b>	data table
<b>unicodechar</b>	function
<b>upper</b>	function

## chemistry (context)

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

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

## converters (context)

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

## coroutine (basic lua)

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

## ctxrunner (context)

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



## debug (basic lua)

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

## dir (context)

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

## directives (context)

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

## environment (context)

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

## epdf (extra tex)

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

## experiments (context)

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

# figures (context)

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



## file (basic lua)

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

## floats (context)

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

## font (basic tex)

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

## fontloader (extra tex)

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

# fonts (context)

## analyzers table

T features
N blwf
N fina
N half
N init
N isol
N medi
N pref
N pstf
N rphf
D initializers
D methods
F setstate
T states
N blwf
N fina
N half
N init
N isol
N mark
N medi
N pref
N pstf
N rest
N rphf
B useunicodemarks

## checkers table

F getmissing
F missing
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
<b>constructors table</b>
F addcoreunicodes
F aftercopyingcharacters
F applymanipulators
F assignmathparameters
B autocleanup
F beforecopyingcharacters
D cache
B cacheintex
F calculatyscale
F checkedfeatures
F checkedfilename
F checkvirtualids
F cleanupable
F collectprocessors
F currentfonthasfeature
D designsizes
D dontembed
F enhanceparameters
N factor
F finalize
F getfeatureaction
F hashfeatures
F hashinstance
T hashmethods
F normal
F virtual
F initializefeatures
T keys
T character
S depth
S height
S italic
S width
T description
T boundingbox

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

- 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

**definetypface**    function

**encodings**        table

- T agl
  - 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 Tshacyrillic
- N Ucyrillic
- N Udblacute
- N Ushortcyrillic
- N Vecyrillic

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 etnahtaafoukhhebrew
N blackrectangle	N etnahtaafoukhlefthebrew
N blackrightpointingpointer	N etnahtahebrew
N blacksmilingface	N fathaarabic
N blacksquare	N finalkaf
N blackuppointingtriangle	N finalkafdagesh
N bulletinverse	N finalkafhebrew
N cdot	N finalkafqamats
N compass	N finalkafqamatshebrew
N dagesh	N finalkafsheva
N dalet	N finalmem
N daletdagesh	N finalnun
N dalethatafpatah	N finalpe
N dalethatafpatahhebrew	N finaltsadi
N dalethatafsegol	N fivearabic
N dalethatafsegolhebrew	N forall
N dalethebrew	N fourarabic
N dalethiriq	N gcedilla
N dalethiriqhebrew	N gdot
N daletholam	N gimel



N 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 merkhahhebrew
N hatafsegol30	N merkhakefulahebrew
N hatafsegolhebrew	N middot
N hatafsegolnarrowhebrew	N munahhebrew
N hatafsegolquarterhebrew	N nbspace
N he	N ncedilla
N hedagesh	N newsheqelsign
N hehfinalalttwoarabic	N ninearabic
N het	N noonhehinitialarabic
N hiriq	N nun
N hiriq14	N nundagesh
N hiriq21	N odblacute
N hiriq2d	N onearabic
N hiriqhebrew	N overscore
N hiriqnarrowhebrew	N patah
N hiriqquarterhebrew	N patah11
N holam	N patah1d

N 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 quotelleftreversed
N qamats10	N rafe
N qamats1a	N rcedilla
N qamats1c	N reharabic
N qamats27	N resh
N qamats29	N reshhatafpatah
N qamats33	N reshhatafpatahhebrew
N qamatsde	N reshhatafsegol
N qamatshebrew	N reshhatafsegolhebrew
N qamatsnarrowhebrew	N reshhebrew
N qamatsqatanhebrew	N reshhiqiq
N qamatsqatannarrowhebrew	N reshhiqiqhebrew
N qamatsqatanquarterhebrew	N reshholam
N qamatsqatanwidehebrew	N reshholamhebrew
N qamatsquarterhebrew	N reshpatah
N qof	N reshpatahhebrew
N qofdagesh	N reshqamats
N qofhatafpatah	N reshqamatshebrew
N qofhatafpatahhebrew	N reshqubuts
N qofhatafsegol	N reshqubutshebrew
N qofhatafsegolhebrew	N reshsegol
N qofhebrew	N reshsegolhebrew
N qofhiriq	N reshsheva
N qofhiriqhebrew	N reshshevahebrew
N qofholam	N reshtsere
N qofholamhebrew	N reviahebrew
N qofpatah	N samekh
N qofpatahhebrew	N samekhdagesh
N qofqamats	N segol
N qofqamatshebrew	N segol13
N qofqubuts	N segol1f
N qofqubutshebrew	N segol2c
N qofsegol	N segolhebrew
N qofsegolhebrew	N segolnarrowhebrew
N qofsheva	N segolquarterhebrew
N qofshevahebrew	N sevenarabic
N qoftsere	N sfthyphen
N qubuts	N shaddaarabic

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

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

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

- F spec
- F style
- F registerfallback
- F searchfiles

**specifiers**      table

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

**symbols**      table

- F uselibrary

**tables**      table

**tracers**      table

**treatments**      table

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

**typefaces**      data table

# functions (context)

**dummy** function

# graphics (context)

## **backgrounds** table

F calculatemultipar

F fetchmultipar

F pair

F path

F point



## gzip (extra lua)

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

## img (basic tex)

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

# interactions (context)

**attachments** data table

**fields** table

F clone

F define

F defineset

F insert

**general** table

F getidentity

F setupidentity

**help** table

F collect

F reference

F register

**javascripts** table

F addtopreamble

F code

D codes

F flushpreambles

D functions

D preambles

F setpreamble

F storecode

F storepreamble

F usepreamblenow

F usescripts

**linkedlists** data table

**pages** table

F setpagetransition

F setupcanvas

**references** table

F setcloseddocument

F setclosepage

F setopendocument

F setopenpage

**renderings** data table

**soundclips** data table

# interfaces (context)

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

F btxaddjournal	F btxsingularorplural
F btxauthor	F btxtoregister
F btxauthorfield	F btxusedataset
F btxcollectlistentries	F btxuservariable
F btxcurrentfirstnames	F buildtextaccent
F btxcurrentinitials	F character
F btxcurrentjuniors	F characters
F btxcurrentsurnames	F chardescription
F btxcurrentvons	F checkcounterssetup
F btxdetail	F checkedconversion
F btxdirect	F checkedpagefloat
F btxdoif	F checkinjector
F btxdoifelse	F checknextinjector
F btxdoifelsesameasprevious	F checkpreviousinjector
F btxdoifelseuservariable	F checktwopassdata
F btxdoifnot	F chemicalcomponent
F btxexpandedjournal	F chinesenumerals
F btxfetchlistentries	F cleanfontname
F btxfield	F cleanupbox
F btxfieldname	F cleanuplayers
F btxfieldtype	F clonefield
F btxfirstofrange	F collectfloat
F btxflush	F collecthelp
F btxflushlistentry	F colorcomponents
F btxflushmarked	F concatcommalist
F btxflushpages	F consultfloat
F btxfoundname	F convertbtxdatasettoxml
F btxfoundtype	F convertmpstopdf
F btxhandlecite	F copyposition
F btxhandlenocite	F cos
F btxlastofrange	F cosd
F btxlistvariant	F countervalue
F btxloaddefinitionfile	F counttwopassdata
F btxloadjournalist	F currentcomponent
F btxloadreplacementfile	F currentdate
F btxoneorrange	F currentdesignsize
F btxpreparelistentries	F currentenvironment
F btxremapauthor	F currentposthyphenchar
F btxsavedataset	F currentprehyphenchar
F btxsavejournalist	F currentproduct
F btxsetdataset	F currentproject
F btxsetentry	F currentreferenceorder
F btxsetregister	F currentsectiontolist
F btxsetspecification	F datasetvariable

F dayname	F defineselectfont
F decrementcounter	F defineshift
F decrementedcounter	F definesnapmethod
F decrementsubcounter	F definespotcolorglobal
F defineaccents	F definestructureblock
F defineattribute	F definestructureset
F definebreakpoint	F definetransparency
F definebreakpoints	F definetwopasslist
F definecharacterspacing	F definetypeface
F definechemical	F defineviewerlayer
F defineconversion	F depthnumber
F definecounter	F digits_normal
F definedlayoutcomponent	F digits_reverse
F definefallbackfamily	F disableautofontscript
F definefield	F disabledirectives
F definefieldset	F disableexperiments
F definefilefallback	F disablejobsave
F definefilesynonym	F disableparbuilder
F definefont_one	F disableregime
F definefont_two	F disablespellchecking
F definefontfamily	F disablestatetriggering
F definefontfeature	F disablestream
F definefontsolution	F disabletrackers
F definehyphenationfeatures	F discardfromlist
F defineinsertion	F doanalyzeframedbox
F defineintermediatecolor	F doifcounter
F definelabels	F doifelseblack
F definelanguage	F doifelsebuffer
F definelinkedlist	F doifelsecharinfo
F definemarking	F doifelsecommon
F definemetafont	F doifelsecontinewithfile
F definemultitonecolorglobal	F doifelseconverter
F definenamespace	F doifelsecounter
F definenote	F doifelsecurrentfonthasfeature
F defineparallel	F doifelsedrawingblack
F defineparbuilder	F doifelsefieldcategory
F defineprocesscolordummy	F doifelsefiledefined
F defineprocesscolorglobal	F doifelsefileexist
F defineprocesscolorlocal	F doifelsefirstchar
F defineprogram	F doifelsefontpresent
F definereference	F doifelseinelement
F defineregister	F doifelseinputfile
F definerule	F doifelseinset
F definesectionlevels	F doifelseintwopassdata

F doifelseleapyear	F dosetpositionbox
F doifselisthasentry	F dosetpositionplus
F doifselisthasnumber	F dosetpositionstrut
F doifselisthaspage	F dosetpositionwhd
F doifselisthastitle	F dostarttextfile
F doifselocfile	F dostoptextfile
F doifselemarking	F elapsedtime
F doifselmessage	F enableasciimode
F doifselobjectreferencefound	F enableautofontscript
F doifselolderversion	F enablebackgroundalign
F doifseloverlapping	F enablebackgroundboxes
F doifselparallel	F enablecolor
F doifselparentfile	F enablecolorintents
F doifselpathexist	F enablecrlf
F doifselposition	F enabledirectives
F doifselpositiononpage	F enableexperiments
F doifselpositionsonsamepage	F enablefontcolorsschemes
F doifselpositionsonthispage	F enableinteraction
F doifselpositionsused	F enableparbuilder
F doifselrangeonpage	F enableregime
F doifselreference	F enablerules
F doifselesame	F enableshifts
F doifselstackedfloats	F enablespellchecking
F doifselssynonymshown	F enablestatetriggering
F doifselssynonymused	F enablestream
F doifseurldefined	F enabletrackers
F doifseutfmathabove	F enabletransparency
F doifseutfmathaccent	F enableutf
F doifseutfmathbelow	F enhancelinkedlist
F doifseutfmathfiller	F enhancelist
F doifsevisualizer	F enhancereference
F doiffielddsetelse	F enhanceregister
F doifnotcounter	F eposcolumn
F doifnotecontent	F eposcolumnregistered
F doifnoteonsamepageasprevious	F erasebuffer
F doifnotsame	F execute
F doifposition	F expandcurrentreference
F doifsame	F exportformdata
F doprocesstypescriptfile	F exportreferences
F doreshapeframedbox	F extendregister
F dosaveposition	F extensiblecode
F dosavepositionplus	F featureattribute
F dosavepositionwhd	F featurelist
F dosetposition	F feedback

F fetchallmarks	F fontcollectionreport
F fetchmultipar	F fontcollectionreset
F fetchmultishape	F fontlookupgetkey
F fetchonemark	F fontlookupgetkeyofindex
F fetchposboxes	F fontlookupinitialize
F fetchtwomarks	F fontlookupnoffound
F figure_check	F forceendjob
F figure_done	F forcequitjob
F figure_dummy	F formatcolor
F figure_identify	F formatgray
F figure_include	F from
F figure_mergegoodies	F getbidimode
F figure_pop	F getbodyfontsizes
F figure_push	F getbuffer
F figure_reset	F getbuffercxtlua
F figure_scale	F getbuffermkvi
F figurefilename	F getcheckedinterfaceparameters
F figurefilepath	F getcurrentprefixspec
F figurefiletype	F getcurrentreferencemetadata
F figurerequest	F getdefaultfieldvalue
F figurestatus	F getdocumentargument
F figureused	F getdocumentfilename
F filterdefaultreference	F getelementtag
F filterreference	F getfieldcategory
F finalizebox	F getfile
F findtwopassdata	F getfirstcharacter
F firstcountervalue	F getfirsttwopassdata
F firstinset	F getfloatvariable
F firstsubcountervalue	F getfullstructurenumber
F flushfloat	F getinternallistreference
F flushlabeledfloat	F getlasttwopassdata
F flushnotes	F getmarking
F flushpageinjectionsafter	F getmessage
F flushpageinjectionsbefore	F getmpextensions
F flushpostponedblocks	F getmprandomnumber
F flushpostponednotes	F getnotestate
F flushstream	F getprivatechar
F flushstreamcopy	F getprogram
F fontchar	F getrandomdimen
F fontcharbyindex	F getrandomfloat
F fontcollectionclone	F getrandomnumber
F fontcollectiondefine	F getrandomseed
F fontcollectionprepare	F getreadfilename
F fontcollectionregister	F getsomefullstructurenumber



F getsomestructurenumber	F languagenumber
F getspecificstructuretitle	F lastcountervalue
F getstructurelevel	F lastsubcountervalue
F getstructurenumber	F lchexnumber
F getsubstring	F lchexnumbers
F gettexbuffer	F leapyear
F gettwopassdata	F linenumbersstageone
F gettwopassdatalist	F linenumbersstagetwo
F geturl	F listgroupindex
F getvisual	F listlabel
F hboxtovbox	F listlocation
F helpaction	F listnamespaces
F helpreference	F listprefixednumber
F hexstringtonumber	F listprefixedpage
F horizontalcode	F listrealpage
F hour	F listsize
F hyphenatedlist	F listtitle
F hyphenatedurl	F listuserdata
F immediatemessage	F loadexamodes
F incrementcounter	F loadfontgoodies
F incrementedcounter	F loadluamodule
F incrementsubcounter	F loadmapfile
F initializejob	F loadmapline
F initializestream	F loadspellchecklist
F initializetexdirectives	F loadtypescriptfile
F initializetextrackers	F loadvisualizer
F injectcurrentreference	F locatefilepath
F injectcurrentreferencehtdp	F locfilename
F injectreference	F lower
F inlinechemical	F lpdf_adddocumentcolorspace
F inputfilebarename	F lpdf_adddocumenttextstate
F inputfilename	F lpdf_adddocumentpattern
F inputfilerealsuffix	F lpdf_adddocumentshade
F inputfilesuffix	F lpdf_addpageattributes
F insertattachment	F lpdf_addpageresources
F insertcomment	F lpdf_addpagesattributes
F insertfield	F lpdf_addtocatalog
F insertionnumber	F lpdf_addtoinfo
F insertrenderingwindow	F lpdf_addtonames
F installedlanguages	F lpdf_collectedresources
F installtexdirective	F lpdf_color
F installtextracker	F luascript
F jobfilename	F luathread
F jobfilesuffix	F lxmlid

F markingnumber	F nextcountervalue
F markingtitle	F nextparallel
F markinjector	F nextsubcountervalue
F markregionbox	F nofdays
F markregionboxcorrected	F nofstackedfloats
F markregionboxtagged	F notedeltapage
F markvisualfonts	F notelistindex
F mathfraction	F notenumberpage
F mathrenderset	F noteprefixednumber
F metapostescaped	F notesymbolpage
F metapostformatted	F notetitle
F metapostgraphformat	F ntimes
F minute	F number
F mixcleanup	F numbers
F mixfinalize	F objectnumber
F mixflushlist	F objectpage
F mixflushrest	F octnumber
F mixgetsplit	F octstringtonumber
F mixsetsplit	F operatingsystem
F mixstate	F ordinal
F molecule	F outputfilename
F month	F overloadbookmark
F monthmnem	F overloaderror
F monthname	F pagestaterealpage
F mpcolor	F parpos
F mpflushliteral	F pdfrotation
F mpflushreset	F pdfstartmatrix
F mpgettext	F pdfstartmirroring
F mpgraphic	F pdfstartrotation
F mpoptions	F pdfstartscaling
F mprunset	F pdfstopmatrix
F mpruntab	F pdfstopmirroring
F mprunvar	F pdfstoprotation
F mpsetclippath	F pdfstopscaling
F mpsetoutercolor	F percentageof
F mpsetsxsy	F pgfxcolorspec
F mpsettext	F pickupbuffer
F mptexget	F pickuppunctuation
F mptexreset	F placeparallel
F mptexset	F popfloat
F mptexsetfrombuffer	F pophyphenation
F namedstructureuservariable	F popitaliccorrection
F namedstructurevariable	F poplist
F nbfs	F poppath

F poprandomseed	F registerbackendsymbol
F popreferenceprefix	F registerbodyfontsize
F popregime	F registerbookmark
F popsectionblock	F registerbuttons
F postponeotes	F registercolorintent
F prefixedconverted	F registeredviewerlayer
F presetsymbollist	F registerfigurepattern
F presettabulate	F registerfiguresuffix
F prevcountervalue	F registerhelp
F previoussubcountervalue	F registerhyphenationexception
F processbodyfontsizes	F registerhyphenationpattern
F processbuffer	F registeritemgroup
F processcolorcomponents	F registerlanguagefeatures
F processedfile	F registerlinenumbers
F processedfiles	F registermaintextcolor
F processfile	F registermpyfile
F processfilemany	F registernamedlua
F processfilenone	F registernamespace
F processfileonce	F registerpostponedblock
F processjob	F registerrendering
F processlist	F registersection
F processregister	F registershownsynonym
F processsplit	F registerstructureprocessor
F processsynonyms	F registersynonym
F profilebox	F registerunit
F purefontname	F registerusedsynonym
F pushfloat	F registeruserdata
F pushhyphenation	F relatemarking
F pushitaliccorrection	F renderingvar
F pushlist	F replacefeature
F pushpath	F replacepospxywhd
F pushrandomseed	F reportstructure
F pushreferenceprefix	F resavefloat
F pushregime	F resetcharacteralign
F pushsectionblock	F resetcounter
F pushstream	F reseteffect
F rawcharacter	F resetfeature
F rawcountervalue	F resetfontfeature
F rawdate	F resetfontsolution
F rawsubcountervalue	F resetinjector
F referencepagedetail	F resetitaliccorrection
F referencepagestate	F resetmapfiles
F referencerealpage	F resetmarking
F registerattachment	F resetmathattributes

F resetmathitalics  
F resetnullfont  
F resetparallel  
F resetpath  
F resetprevdepth  
F resetreference  
F resetscript  
F resetshownsynonyms  
F resetstructureprocessor  
F resetsubcounter  
F resettimer  
F resettrackers  
F resetusedsynonyms  
F restartcounter  
F restartsubcounter  
F restorecounter  
F restorecurrentattributes  
F restorenote  
F reuserandomseed  
F revivefeature  
F romannumerals  
F rounded  
F runbuffer  
F runcontextjob  
F safechar  
F savebuffer  
F savecounter  
F savecurrentattributes  
F savedlistnumber  
F savedlistprefixednumber  
F savedlisttitle  
F savefloat  
F savemargindata  
F savenote  
F saveobject  
F savepagedata  
F savepageinjections  
F saveparallel  
F savespecificfloat  
F savestructureblock  
F savetaggedtwopassdata  
F savetwopassdata  
F savevariable  
F second

F selectstructureblock  
F setactivecatcodes  
F setbreakpoints  
F setcharacteralign  
F setcharactercasing  
F setcharactercleaning  
F setcharacterkerning  
F setcharacterspacing  
F setcharacterstripping  
F setcloseddocumentaction  
F setclosepageaction  
F setcolormodel  
F setcounter  
F setdataset  
F setdigitsmanipulation  
F setdirection  
F setdocumentargument  
F setdocumentcommandline  
F setdocumentctxfile  
F setdocumentdefaultargument  
F setdocumentenvironments  
F setdocumentfilename  
F setdocumentfilenames  
F setdocumentmodes  
F setdocumentmodules  
F seteffect  
F setelementuserproperties  
F setfigurelookuporder  
F setfigurepaths  
F setfirstline  
F setfontfeature  
F setfontofid  
F setfontsolution  
F setformat  
F setformsmethod  
F sethyphenatedurlcharacters  
F sethyphenationfeatures  
F sethyphenationmethod  
F setinitial  
F setinjector  
F setinnerreferencemethod  
F setinsertionlocation  
F setinterfaceconstant  
F setinterfaceelement

F setinterfacemessage	F setscript
F setinterfacemessages	F setsectionblock
F setinterfacevariable	F setsectionentry
F setinternalreference	F setstructureblockstate
F setitaliccorrection	F setstructurelevel
F setjavascriptpreamble	F setstructurenumber
F setjobcomment	F setsubcounter
F setlanguageexceptions	F settagaspect
F setlanguagesynonym	F settagcombination
F setlettercatcodes	F settagdescription
F setmarking	F settagdescriptionsymbol
F setmathalphabet	F settagfigure
F setmathalternate	F settaggedmetadata
F setmathattribute	F settaghighlight
F setmathdirection	F settagitem
F setmathitalics	F settagitemgroup
F setmathstyle	F settaglist
F setmpextensions	F settagproperty
F setnegative	F settagproperty_b
F setnextinternalreference	F settagproperty_n
F setnextreferenceorder	F settagregister
F setnotestate	F settagsorting
F setnotesymbolpage	F settagsynonym
F setobject	F settagtablecell
F setopendocumentaction	F settagtabulatecell
F setopenpageaction	F setupbookmarks
F setowncounter	F setupcanvas
F setownsubcounter	F setupcharacterspacing
F setpagecolormodel	F setupexport
F setpagestate	F setupfontexpansion
F setpagestaterealpageno	F setupfontprotrusion
F setpagetransition	F setupidentity
F setparbuilder	F setupinsertion
F setprofile	F setupitaliccorrection
F setrandomseed	F setuplinenumbers
F setrealign	F setuserinterface
F setrealspaces	F setvalidinterfacekeys
F setreferencearguments	F setvisual
F setreferenceattribute	F setvisualfont
F setreferenceoperation	F setvisuallayer
F setregionbox	F setxmpfile
F setregionboxtagged	F showassignerror
F setregistermethod	F showattributes
F setreplacements	F showcounter

F showdebuginfo	F stopregime
F showdirectives	F stopsectionlevel
F showdiscretionaries	F stopstream
F showexperiments	F stoptag
F showhyphenatedinlist	F stoptext
F showhyphenationtrace	F stopviewerlayer
F showinjector	F storejavascriptcode
F showjustification	F storejavascriptpreamble
F showlogcategories	F storenote
F showmessage	F storeregister
F showtrackers	F strdp
F sin	F strhd
F sind	F strht
F splitfilename	F strip
F spotcolorname	F structureautocatcodedget
F spotcolorparent	F structurecatcodedget
F spotcolorvalue	F structuregivencatcodedget
F startactualtext	F structurenumber
F startchemical	F structuretitle
F startcolorset	F structureuservariable
F startcomponent	F structurevariable
F startenvironment	F strwd
F startfontsolution	F subcountervalue
F startparbuilder	F subcountervalues
F startproduct	F subsubcountervalues
F startproject	F subtractfeature
F startregime	F synchronizemarking
F startsectionlevel	F synchronizestream
F startstream	F synonymmeaning
F starttag	F synonymname
F starttag_c	F systemlog
F starttag_d	F taggedmathfunction
F starttag_u	F tan
F starttext	F tand
F startviewerlayer	F texdefinition_one
F stopactualtext	F texdefinition_two
F stopchemical	F textime
F stopcolorset	F thefirstcharacter
F stopcomponent	F theremainingcharacters
F stopenvironment	F tochar
F stopfontsolution	F transparencycomponents
F stopparbuilder	F truefilename
F stopproduct	F type
F stopproject	F typebuffer

F typefile	F utfmathfiller
F uchar	F utfmathstretch
F uchexnumber	F vboxlisttohbox
F uchexnumbers	F verbose
F undefinechemical	F vspacing
F unicodechar	F vspacingcollapse
F unihex	F vspacingcollapseonly
F unit_normal	F vspacingdefine
F unit_reverse	F vspacingsetamount
F unloadlanguage	F vspacingsnap
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 xmllafterdocumentssetup
F useurl	F xmllaftersetup
F usexmlfile	F xmlall
F usexmlfileonce	F xmlappenddocumentssetup
F usezipfile	F xmlappendsetup
F utfchar	F xmlapplyselectors
F utfmathclass	F xmlatt
F utfmathcommand	F xmlattdef
F utfmathcommandabove	F xmlattribute
F utfmathcommandbelow	F xmlattributedef
F utfmathcommandfiller	F xmlbadinclusions

F xmlbeforedocumentssetup	F xmlinfo
F xmlbeforesetup	F xmlinlineverbatim
F xmlchainatt	F xmlinstalldirective
F xmlchainattdef	F xmllast
F xmlchecknamespace	F xmlload
F xmlcommand	F xmlloadbuffer
F xmlconcat	F xmlloaddata
F xmlconcatrange	F xmlloaddirectives
F xmlcontext	F xmlloadregistered
F xmlcount	F xmlmain
F xmldelete	F xmlmatch
F xmldirect	F xmlname
F xmldirectives	F xmlnamespace
F xmldirectivesafter	F xmlnonamespace
F xmldirectivesbefore	F xmlpos
F xmldisplayverbatim	F xmlprependdocumentssetup
F xmldoif	F xmlprependsetup
F xmldoifelse	F xmlraw
F xmldoifelseempty	F xmlregisterns
F xmldoifelseselfempty	F xmlremapname
F xmldoifelsestext	F xmlremapnamespace
F xmldoifempty	F xmlremoveddocumentssetup
F xmldoifnot	F xmlremovesetup
F xmldoifnotempty	F xmlresetdocumentssetup
F xmldoifnotselfempty	F xmlresetinjectors
F xmldoifnottext	F xmlsave
F xmldoifselfempty	F xmlsetcommandtonone
F xmldoiftext	F xmlsetcommandtotext
F xmlelement	F xmlsetentity
F xmlfilter	F xmlsetfunction
F xmlfilterlist	F xmlsetinjectors
F xmlfirst	F xmlsetsetup
F xmlflush	F xmlsnippet
F xmlflushcontext	F xmlstartraw
F xmlflushdocumentsetups	F xmlstarttiming
F xmlflushlinewise	F xmlstopraw
F xmlflushspacewise	F xmlstoptiming
F xmlfunction	F xmlstrip
F xmlgetindex	F xmlstripanywhere
F xmlinclude	F xmlstripnolines
F xmlincludeoptions	F xmlstripped
F xmlinclusion	F xmlstrippednolines
F xmlinclusions	F xmltag
F xmlindex	F xmltextentity



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

## io (basic lua)

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

# jit (context)

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

# job (context)

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

- D collected
- F extend
- F getdata
- F setdata
- D tobesaved

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

- D collected
- F context
- B forcerun
- F run
- D tobesaved

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

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

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

- D collected
- F extend
- F realpage
- F setstate
- D tobesaved

**passes**        table

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

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

**positions**    table

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

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

## lang (basic tex)

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

# languages (context)

<b>associate</b>	function	<b>installed</b>	function
<b>associated</b>	data table	<b>labels</b>	table
<b>association</b>	function	<b>define</b>	
<b>counters</b>	data table	<b>split</b>	
<b>current</b>	function	<b>lefthyphenmin</b>	function
<b>data</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>report</b>	
<b>frequencies</b>	table	<b>numbers</b>	data table
<b>averagecharwidth</b>		<b>postexhyphenchar</b>	function
<b>getdata</b>	function	<b>posthyphenchar</b>	function
<b>getnumber</b>	function	<b>preexhyphenchar</b>	function
<b>hyphenate</b>	function	<b>prehyphenchar</b>	function
<b>hyphenators</b>	table	<b>registered</b>	data table
<b>dictionaries</b>		<b>replacements</b>	table
<b>featuresets</b>		<b>add</b>	
<b>handler</b>		<b>handler</b>	
<b>methods</b>		<b>set</b>	
<b>expanded</b>		<b>rightthyphenmin</b>	function
<b>none</b>		<b>serializediscretionary</b>	function
<b>original</b>		<b>setexceptions</b>	function
<b>tex</b>		<b>setsynonym</b>	function
<b>traditional</b>		<b>showdiscretionaries</b>	function
<b>optimize</b>		<b>unload</b>	function
<b>popmethod</b>		<b>version</b>	number
<b>pushmethod</b>		<b>visualizediscretionaries</b>	function
<b>setmethod</b>		<b>words</b>	table
<b>setup</b>		<b>check</b>	
<b>showhyphenationtrace</b>		<b>data</b>	
<b>traditional</b>		<b>disable</b>	
<b>definefeatures</b>		<b>enable</b>	
<b>gettrace</b>		<b>enablers</b>	
<b>hyphenate</b>		<b>enables</b>	
<b>injecthyphens</b>		<b>found</b>	
<b>installmethod</b>		<b>load</b>	
<b>lasttrace</b>		<b>methods</b>	
<b>loadpatterns</b>		<b>threshold</b>	
<b>registerexception</b>			
<b>registerpattern</b>			

# layouts (context)

**status** table

F isleftpage

F leftorrightpagection



## lfs (extra lua)

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

## libraries (context)

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

# lmx (context)

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

F a

F td

F th

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

S color-background-four

S color-background-one

S color-background-three

S color-background-two

S title

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

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

S color-background-blue

S color-background-body

S color-background-green

S color-background-main

S color-background-purple

S color-background-yellow

S title-default

# logs (context)

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

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

# lpdf (context)

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

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

## lpeg (basic lua)

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

# ltn12 (extra lua)

**BLOCKSIZE**    number

**filter**        table

    F chain

    F cycle

**pump**          table

    F all

    F step

**sink**          table

    F chain

    F error

    F file

    F null

    F simplify

    F table

**source**        table

    F cat

    F chain

    F empty

    F error

    F file

    F rewind

    F simplify

    F string



## lua (basic tex)

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

# luatex (context)

<b>cleanup tempfiles</b>	function
<b>registerstartactions</b>	function
<b>registerstopactions</b>	function
<b>registertempfile</b>	function
<b>starttime</b>	number

# lxml (context)

<b>addindex</b>	function	<b>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>info</b>	function
<b>context</b>	function	<b>inlineverbatimim</b>	function
<b>convert</b>	function	<b>installsetup</b>	function
<b>count</b>	function	<b>last</b>	function
<b>delete</b>	function	<b>load</b>	function
<b>direct</b>	function	<b>loadbuffer</b>	function
<b>directives</b>	table	<b>loaddata</b>	function
F after		<b>loaded</b>	table
F before		<b>loadregistered</b>	function
F handle		<b>main</b>	function
F load		<b>match</b>	function
F setup		<b>name</b>	function
<b>displayverbatimim</b>	function	<b>namespace</b>	function
<b>doif</b>	function	<b>nonspace</b>	function
<b>doifelse</b>	function	<b>pos</b>	function
<b>doifelseempty</b>	function	<b>position</b>	function
<b>doifelsestext</b>	function	<b>raw</b>	function
<b>doifempty</b>	function	<b>rawroot</b>	function
<b>doifnot</b>	function	<b>register</b>	function
<b>doifnotempty</b>	function	<b>registerentity</b>	function
<b>doifnottext</b>	function	<b>removesetup</b>	function
<b>doiftext</b>	function	<b>resetcdata</b>	function
<b>element</b>	function	<b>resetsetups</b>	function
<b>elements</b>	function	<b>resolvedentity</b>	function
<b>entities</b>	data table	<b>root</b>	function
<b>filter</b>	function	<b>save</b>	function
<b>filterlist</b>	function	<b>serialize</b>	function
<b>first</b>	function	<b>setaction</b>	function

<b>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>stopraw</b>	function
<b>store</b>	function
<b>strip</b>	function
<b>stripped</b>	function
<b>tag</b>	function
<b>text</b>	function
<b>tobuffer</b>	function
<b>tofile</b>	function
<b>toparameters</b>	function
<b>toverbatim</b>	function
<b>verbatim</b>	function
<b>withindex</b>	function
<b>xmltexhandler</b>	data table

## math (basic lua)

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

# mathematics (context)

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

## mbox (context)

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

## md5 (extra lua)

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



# metapost (context)

<b>analyzeplugins</b>	function	<b>gettext</b>	function
<b>checkformat</b>	function	<b>graphic</b>	function
<b>checktexts</b>	function	<b>graphic_base_pass</b>	function
<b>collapse</b>	boolean	<b>initializescriptrunner</b>	function
<b>colorinitializer</b>	function	<b>instance</b>	function
<b>convert</b>	function	<b>intermediate</b>	table
<b>defaultformat</b>	string	T actions	
<b>defaultinstance</b>	string	F makempy	
<b>defaultmethod</b>	string	<b>lastlog</b>	string
<b>directrun</b>	function	<b>load</b>	function
<b>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 convertmpstopdf	
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

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

## mime (extra lua)

**b64** function

**decode** function

**decodet** table

F base64

F quoted-printable

**dot** function

**encode** function

**encodet** table

F base64

F quoted-printable

**eol** function

**normalize** function

**qp** function

**qpwrp** function

**stuff** function

**unb64** function

**unqp** function

**wrap** function

**wrapt** table

F base64

F default

F quoted-printable

F text

**wrp** function

## mp (context)

<b>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>	

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

## mplib (extra tex)

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

## newtoken (basic tex)

<b>create</b>	function
<b>get_next</b>	function
<b>is_token</b>	function
<b>scan_code</b>	function
<b>scan_dimen</b>	function
<b>scan_glue</b>	function
<b>scan_int</b>	function
<b>scan_keyword</b>	function
<b>scan_string</b>	function
<b>scan_token</b>	function
<b>scan_toks</b>	function
<b>scan_word</b>	function
<b>set_macro</b>	function
<b>type</b>	function

# noads (context)

## **handlers**      table

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

## **process**      function

## **processors**   table

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



## node (basic tex)

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

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

# nodes (context)

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

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

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

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

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

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



## number (context)

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

## os (basic lua)

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

## package (basic lua)

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

# pagebuilders (context)

## **injections**    table

F flushafter  
F flushbefore  
F save

## **mixedcolumns**    table

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

## pdf (basic tex)

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

# pdfscanner (context)

**scan** function

# physics (context)

**units** table

F registerunit

D tables

## profiler (extra lua)

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



# publications (context)

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

T 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 fetchentries	
T virtualfields	F filterall	
B authornum	F flushentry	

T methods		<b>setcategory</b>	function
F dataset		<b>setspecification</b>	function
F force		<b>singularorplural</b>	function
F global		<b>sortedentries</b>	function
F local		<b>sortmethods</b>	table
F nofregistered		T authorityyear	
F prepareentries		T sequence	
F register		<b>specifications</b>	table
F sameasprevious		T default	
T sorters		S author	
F dataset		S comment	
F default		S copyright	
F reference		S name	
F short		S version	
F uservariable		D virtual	
<b>listvariants</b>	table	<b>splitauthor</b>	function
F bib		<b>splitoneauthor</b>	function
F default		<b>statistics</b>	table
F num		N nofbytes	
F page		N nofdatasets	
F short		N nofdefinitions	
F yes		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	
<b>okay</b>	function	F showfields	
<b>oneorange</b>	function	F showtables	
<b>parenttag</b>	function	F showvariants	
<b>permitted</b>	function	<b>typesetters</b>	table
<b>refman_to_btx</b>	function	F author	
<b>resolvedname</b>	function	F string	
<b>save</b>	function	<b>usedataset</b>	function
<b>search</b>	function	<b>usedentries</b>	function

**writers**

**table**

F author  
F keyword  
F pagenumber  
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>resetresolve</b>	function
<b>loaders</b>	data table	<b>resolve</b>	function
<b>loadlualib</b>	function	<b>savers</b>	data table
<b>loadtexfile</b>	function	<b>scandata</b>	function
<b>loadtime</b>	function	<b>scanfiles</b>	function
<b>locateformat</b>	function	<b>schemes</b>	table
<b>locators</b>	data table	T cleaners	
<b>luacnfname</b>	string	F md5	
<b>luacnfspec</b>	string	F none	
<b>luacnfstate</b>	string	F strip	
<b>macros</b>	table	F cleanname	
F convertfile		F fetchstring	
F decodecomment		F fetchtable	
F enablecomment		F install	
F encodecomment		<b>setdynamic</b>	function
F preprocessed		<b>setenv</b>	function
F processmk		<b>setinstance</b>	function
F processmkvi		<b>showpath</b>	function
F version		<b>simplescanfiles</b>	function
<b>maxreadlevel</b>	number	<b>splitconfigurationpath</b>	function
<b>methodhandler</b>	function	<b>splitexpansions</b>	function
<b>newinstance</b>	function	<b>splitmethod</b>	function
<b>openbinfile</b>	function	<b>splitpath</b>	function
<b>openers</b>	data table	<b>stackpath</b>	function
<b>openfile</b>	function	<b>suffixes</b>	data table
<b>opentexfile</b>	function	<b>suffixmap</b>	data table
<b>ownpath</b>	string	<b>suffixofformat</b>	function
<b>popextrapath</b>	function	<b>texdatablob</b>	function
<b>poppath</b>	function	<b>toppath</b>	function
<b>prefixes</b>	data table	<b>unexpandedpath</b>	function
<b>prependhash</b>	function	<b>unexpandedpathlist</b>	function
<b>pushextrapath</b>	function	<b>unresolve</b>	function
<b>pushpath</b>	function	<b>updaterelations</b>	function

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



## sandbox (context)

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

# scripts (context)

**autofontfeature**    table

- F disable
- F enable
- F handler

**categorytonumber**   data table

**colors**                data table

**decomposehangul**    function

**defaults**             table

- N inter\_char\_half\_shrink\_factor
- N inter\_char\_half\_stretch\_factor
- N inter\_char\_hangul\_penalty
- N inter\_char\_quarter\_shrink\_factor
- N inter\_char\_quarter\_stretch\_factor
- N inter\_char\_shrink\_factor
- N inter\_char\_stretch\_factor
- N inter\_word\_stretch\_factor

**handlers**            data table

**hash**                  table

**injectors**            data table

**installdataset**      function

**installmethod**       function

**numbertocategory**    data table

**numbertodataset**    data table

**numbertohandler**    data table

**reset**                function

**set**                   function

**splitters**            data table

## set (context)

**contains** function

**create** function

**tolist** function

**tonumber** function

**totable** function

# socket (extra lua)

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

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

## http table

N PORT  
 N TIMEOUT  
 S USERAGENT  
 F open  
 F request

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

## sinkt table

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

## skip function

## sleep function

## smtp table

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

## source function

## sourcet table

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

## tcp function

## tcp6 function

## tp table

N TIMEOUT  
 F connect

## try function

## udp function

## udp6 function

## url table

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

# sorters (context)

**basicsorter**      function

**comparers**        table

    F basic

**constants**        table

    S defaultdigits

    S defaultlanguage

    S defaultmethod

    N digitmaximum

    N 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

**setlanguage**     function

**sort**             function

**splitters**        table

    F utf

**strip**            function

**tracers**         data table

**update**          function

## statistics (context)

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

status (basic tex)

**list** function



## storage (context)

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

## streams (context)

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

## string (basic lua)

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

# structures (context)

<b>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 prefix
D data		F prefixlastpage
F define		F prefixpage
F first		F simplify
F get		F title
F last		F touserdata
F next		<b>inserts</b> table
F prev		D data

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 tobesaved	
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 getn	
F prefixednumber		F getnumberpage	
F prefixedpage		F getstate	
F process		F getsymbolpage	
D pushed		F hascontent	
F pushnesting		F internal	
F realpage		F internalid	
F reordered		F listindex	
T result		F ordered	
F savedlistnumber		F postpone	

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

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

table

- F setmethod
- F sort
- F store
- D tobesaved
- F unique
- F userdata

**sections**

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

table

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



## table (basic lua)

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

## tex (basic tex)

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

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

## texconfig (basic tex)

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

## texio (basic tex)

`write`      function

`write_nl`   function

# tokens (context)

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

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

**collectors** table

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

**compile** function  
**converters** table

S toboolean  
S todimen  
S toglue  
S tonumber  
S tostring

**egroup** userdata

**getters** table

F box  
F count  
F dimen  
F token

**hbox** userdata

**istoken** function

**letter** function

**letters** function

**other** function

**pickup** function

**printlist** function

**scanners** table

F boolean  
F code  
F conditional  
F count  
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 dimen  
F macro

**shortcuts** table

T bits

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

F other  
F pickup  
F printlist  
F scantable  
T setters  
  F box  
  F count  
  F dimen  
  F macro  
T shortcuts  
  N close  
  F inspect  
  N open  
  F report  
  F scanboolean  
  F scanclose  
  F scancode  
  F scanconditional  
  F scandimen  
  F scandimension  
  F scaninteger  
  F scankeyword  
  F scanlist  
  F scannumber  
  F scanopen  
  F scanstring  
  F scanword  
  F toboolean  
  F todimen  
  F tonumber  
  F tostring  
U vbox  
U vtop  
F tonumber  
F tostring  
**vbox**           userdata  
**vtop**           userdata



# tracers (context)

<b>count</b>	function
<b>cs</b>	function
<b>dimen</b>	function
<b>knownlist</b>	function
<b>lists</b>	table

T context

T internals

T scratch

<b>name</b>	function
<b>primitive</b>	function
<b>prnterror</b>	function
<b>showlines</b>	function
<b>strings</b>	table

S undefined

<b>toks</b>	function
<b>type</b>	function

## trackers (context)

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

# typesetters (context)

<b>alignments</b>	table		
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>	table
T numbers		T actions	
F set		F default	
F setreplacement		F line	
<b>cases</b>	table	F word	
T actions		F handler	
F handler		F set	
F register		<b>initials</b>	table
F set		T actions	
<b>characteralign</b>	table	F default	
F handler		F handler	
F resetcharacteralign		F set	
F setcharacteralign		<b>injectors</b>	table
<b>characters</b>	table	F check	
F handler		T list	
F replacensp		F mark	
F replacenspaces		F reset	
<b>checkers</b>	table	F set	
F handler		F show	
F reset		<b>italics</b>	table
F set		F forcevariant	
<b>cleaners</b>	table	F handler	
F handler		F reset	
F set		F set	
<b>digits</b>	table	<b>kerns</b>	table
T actions		D factors	
F handler		F handler	
F set		F keeppligature	
<b>directions</b>	table	B keptogether	
F getfences		D mapping	
F getglobal		F set	
F getmethod		<b>manipulators</b>	table
F handler		F apply	
T handlers		F applyspecification	
		T methods	

F Word		F construct
F Words		F create
F abbreviatedjournal		F finish_row
F expandedjournal		F flush
F lowercase		F initialize_construct
F stripperperiod		F initialize_reflow_height
F uppercase		F initialize_reflow_width
T patterns		F next_row
U list		F reflow_height
U pair		F reflow_width
F splitspecification		F set_construct
<b>margins</b>	<b>table</b>	F set_reflow_height
F finalhandler		F set_reflow_width
F globalhandler		
F ha		
F localhandler		
F save		
<b>marksuspects</b>	<b>function</b>	
<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		

# 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>hasscheme</b>	function
<b>query</b>	function
<b>split</b>	function
<b>toquery</b>	function
<b>unescapeget</b>	function

# utilities (context)

## debugger table

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

## formatters table

- F formatcolumns
- F list
- F stripzeros

## garbagecollector table

- F check
- N criterium
- B enabled

## lua table

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

## packers table

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

N version

## parsers table

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

## report function

## sequencers table

- F appendaction



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

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

## xml (context)

<b>addentitiesdoctype</b>	function	D 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	
D parsedxml		F all	

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

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

## zip (extra lua)

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

## zlib (extra lua)

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