MP attributes backends bit32 blobs boolean
buffers builders caches callback callbacks
catcodes characters chemistry commands
containers context converters coroutine
ctxrunner debug dir dircodes directives
document documentdata environment epdf
experiments ffi figures file fio floats font
fonts functions global graphics gzip img
interactions interfaces io job lang languages
layouts lfs libraries lmx logs lpdf lpeg ltn12
lua luatex lxml math mathematics md5 metapost
mime moduledata modules mp mplib noads node
nodes number objects os package pagebuilders
parametersets pdf pdfscanner physics
publications regimes resolvers sandbox scripts
set sio socket sorters statistics status
storage streams string structures table tex
texconditionals texconfig texconstants texifs
texio texisdefined texmodes texsystemmodes
thirddata token tokens tracers trackers
typesetters unicode url userdata utf8
utilities vf visualizers xml zip zlib

ConTEXt MkIV

global (alias: _G)

FFISUPPORTED	function	**documentdata**	table
INITEXMODE	boolean	**dofile**	function
LUAMAJORVERSION	number	**done**	boolean
LUAMINORVERSION	number	**environment**	table
LUATEXCOREVERSION	number	**epdf**	table
LUATEXENGINE	string	**error**	function
LUATEXFUNCTIONALITY	number	**experiments**	table
LUATEXVERSION	number	**ffi**	table
LUAVERSION	number	**ffilib**	function
MP	table	**figures**	table
_LUAVERSION	number	**file**	table
arg	table	**fio**	table
assert	function	**floats**	table
attributes	table	**font**	table
backends	table	**fonts**	table
bit32	table	**frozen**	boolean
blobs	table	**functions**	table
blockrequire	function	**getmetatable**	function
boolean	table	**getpos**	function
buffers	table	**getvpos**	function
builders	table	**global**	table
caches	table	**grammar_parsed_text_one_nop**	userdata
callback	table	**grammar_parsed_text_one_yes**	userdata
callbacks	table	**grammar_parsed_text_two_nop**	userdata
catcodes	table	**grammar_parsed_text_two_yes**	userdata
characters	table	**grammar_unparsed_text_nop**	userdata
checkimage	function	**grammar_unparsed_text_yes**	userdata
chemistry	table	**graphics**	table
collectgarbage	function	**gregorian_to_jalali**	function
commands	table	**gzip**	table
containers	table	**img**	table
context	function	**inspect**	function
converters	table	**interactions**	table
coroutine	table	**interfaces**	table
ctxrunner	table	**io**	table
debug	table	**ipairs**	function
dimen	function	**jalali_to_gregorian**	function
dir	table	**job**	table
dircodes	data table	**lang**	table
directives	table	**languages**	table
document	table	**last**	number

layouts	table	**rawlen**	function
lfs	table	**rawset**	function
libraries	table	**regimes**	table
lmx	table	**require**	function
load	function	**required**	function
loadfile	function	**requireswiglib**	function
loadstring	function	**resolvers**	table
logs	table	**ruledspace**	function
lpdf	table	**sandbox**	table
lpeg	table	**scripts**	table
ltn12	table	**select**	function
lua	table	**set**	table
luatex	table	**setinspector**	function
lxml	table	**setmetatable**	function
math	table	**sio**	table
mathematics	table	**socket**	table
md5	table	**sorters**	table
metapost	table	**statistics**	table
mime	table	**status**	table
module	function	**storage**	table
moduledata	table	**streams**	table
modules	table	**string**	table
mp	function	**structures**	table
mplib	table	**swiglib**	function
next	function	**table**	table
noads	table	**tex**	table
node	table	**texconditionals**	data table
nodes	table	**texconfig**	table
number	table	**texconstants**	data table
objects	table	**texifs**	data table
optionalrequire	function	**texio**	table
os	table	**texisdefined**	function
package	table	**texmodes**	data table
pagebuilders	table	**texsystemmodes**	data table
pairs	function	**thirddata**	table
parametersets	table	**toboolean**	function
pcall	function	**token**	table
pdf	table	**tokens**	table
pdfscanner	table	**tonumber**	function
physics	table	**tostring**	function
print	function	**tracers**	table
publications	table	**trackers**	table
rawequal	function	**type**	function
rawget	function	**typesetters**	table

unicode	table	**v**	number
unpack	function	**vf**	table
url	table	**visualizers**	table
userdata	table	**xml**	table
utf	table	**xpcall**	function
utf8	table	**zip**	table
utilities	table	**zlib**	table

attributes (context)

applyoverloads function
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
- D counts
- B couple
- F currentmodel
- F currentnamedmodel
- 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 graytohsv
- F handler
- F hsvtogray
- F hsvtorgb
- F iccprofile
- F isblack
- N main

- S model
- D models
- F mpcolor
- F mpnamedcolor
- F mpoptions
- F namedcolorattributes
- N none
- F popset
- F processcolorcomponents
- F pushset
- F register
- D registered
- F registerspotcolor
- F rgb
- F rgbtocmyk
- F rgbtogray
- F rgbtohsv
- N selector
- F setlist
- F setmodel
- F setpagecolormodel
- D sets
- F spec
- F spot
- F spotcolorname
- F spotcolorparent
- F spotcolorvalue
- B supported
- F toattributes
- F transparencycomponents
- B triggering
- F usecolors
- D valid
- F value
- D values
- B weightgray

define   function
effects   table
- N attribute
- D data
- F enable

F	handler
F	register
D	registered
D	values

handlers table

list data table

markasoverload function

names data table

negatives table

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

numbers data table

ofnode function

private function

public function

restore function

save function

showcurrent function

states table

F	disabletriggering
F	enabletriggering
F	finalize
F	initialize
F	process
F	selective
F	stacked
F	stacker

system function

tooverloads function

transparencies table

N	attribute
D	data
F	enable
F	forcesupport
F	handler
T	names
N	color
N	colorburn
N	colordodge

N	darken
N	difference
N	exclusion
N	hardlight
N	hue
N	lighten
N	luminosity
N	multiply
N	none
N	normal
N	overlay
N	saturation
N	screen
N	softlight
N	none
F	register
D	registered
B	supported
F	toattribute
B	triggering
F	value
D	values

unsetvalue number

viewerlayers table

N	attribute
F	cleanup
D	data
F	define
F	definedlayoutcomponent
F	enable
F	forcesupport
F	handler
B	hasorder
D	listwise
F	register
D	registered
F	resolve_begin
F	resolve_end
F	resolve_reset
F	resolve_step
D	scopes
F	setfeatures
F	start
F	stop

B supported

D values

backends (context)

codeinjections table

    F boxresourcedimensions

    F registerboxresource

    F restoreboxresource

current string

defaults table

    T codeinjections

      F gethpos

      F getmatrix

      F getpos

      F getvpos

      F hasmatrix

    T nodeinjections

    T registrations

    D tables

included table

    B context

    B date

    B id

    B metadata

    B pdf

install function

nodeinjections table

    F restore

    F save

    F transform

nothing function

pdf table

    T codeinjections

      F addbookmarks

      F analyzenormalsymbol

      F analyzesymbol

      F attachmentid

      F clonefield

      F definefield

      F definefieldset

      F defineviewerlayer

      F embedfile

      F enabletags

      F exportformdata

      F fieldsurrounding

      F getbookmarks

      F getdefaultfieldvalue

      F getfieldcategory

      F getfieldset

      F getformatoption

      F gethpos

      F getinfo

      F getmatrix

      F getoutputfilename

      F getpos

      F getpreviewfigure

      F getvpos

      F hasmatrix

      F insertrenderingwindow

      F mergebookmarks

      F mergecomments

      F mergefields

      F mergereferences

      F mergeviewerlayers

      F prerollreference

      F presetsymbol

      F presetsymbollist

      F processrendering

      F registerdocumentcloseaction

      F registerdocumentopenaction

      F registeredsymbol

      F registerpagecloseaction

      F registerpageopenaction

      F registersymbol

      F setfieldcalculationset

      F setfigurealternative

      F setfigurecolorspace

      F setfiguremask

      F setformat

      F setformsmethod

      F setpagetransition

      F setupcanvas

      F setupidentity

      F setxmpfile

      F startlayer

      F startunicodetoactualtext

F startunicodetoactualtextdirect	F negative	
F stoplayer	F overprint	
F stopunicodetoactualtext	F positive	
F stopunicodetoactualtextdirect	F reference	
F supportedformats	F rgbcolor	
F unicodetoactualtext	F spotcolor	
F useviewerlayer	F startlayer	
F validfield	F startstackedlayer	
F validfieldcategory	F stoplayer	
F validfieldset	F stopstackedlayer	
S comment	F transparency	
T nodeinjections	F typesetfield	
F addtags	T registrations	
F annotation	F cmykindexcolor	
F attachfile	F cmykspotcolor	
F changestackedlayer	F getspotcolorreference	
F cmykcolor	F grayindexcolor	
F comment	F grayspotcolor	
F destination	F rgbindexcolor	
F effect	F rgbspotcolor	
F graycolor	F spotcolorname	
F injectbitmap	F transparency	
F insertmovie	T tables	
F insertsound	D vfspecials	
F insertswf	**registrations**	table
F insertu3d	**tables**	table
F knockout	**timestamp**	function

bit32 (basic lua)

arshift	function	**extract**	function
band	function	**lrotate**	function
bnot	function	**lshift**	function
bor	function	**replace**	function
btest	function	**rrotate**	function
bxor	function	**rshift**	function

blobs (context)

append	function	**strht**	function
dimensions	function	**strwd**	function
dispose	function	**tohpack**	function
new	function	**tonodes**	function
pack	function	**tovpack**	function
strdp	function	**write**	function
strhd	function		

boolean (context)

tocontext   function
tonumber   function

buffers (context)

append	function		F hassomecontent	
assign	function		F next	
collectcontent	function		F place	
erase	function		F reset	
exists	function		F save	
getcontent	function		**prepend**	function
getlines	function		**raw**	function
loadcontent	function		**run**	function
parallel	table		**undent**	function
F define				

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 keeptogether
- F registertogether
- T solutions
  - T splitters
    - F define
    - F optimize
    - T registered

- F reset
- F set
- F split
- F start
- F stop
- F tag

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

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

caches (context)

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

callback (basic tex)

find   function   **register** overloaded function
list   function

callbacks (context)

freeze	function
known	function
list	data table
pop	function
push	function
register	function
report	function
supported	table

B append_to_vlist_filter
B build_page_insert
B buildpage_filter
B call_edit
B contribute_filter
B define_font
B find_cidmap_file
B find_data_file
B find_enc_file
B find_font_file
B find_format_file
B find_image_file
B find_map_file
B find_opentype_file
B find_output_file
B find_pk_file
B find_read_file
B find_truetype_file
B find_type1_file
B find_vf_file
B find_write_file
B finish_pdffile
B finish_pdfpage
B finish_synctex
B glyph_not_found
B glyph_stream_provider
B hpack_filter
B hpack_quality
B hyphenate

B insert_local_par
B kerning
B ligaturing
B linebreak_filter
B mlist_to_hlist
B open_read_file
B post_linebreak_filter
B pre_dump
B pre_linebreak_filter
B pre_output_filter
B process_input_buffer
B process_jobname
B process_output_buffer
B process_rule
B read_cidmap_file
B read_data_file
B read_enc_file
B read_font_file
B read_map_file
B read_opentype_file
B read_pk_file
B read_truetype_file
B read_type1_file
B read_vf_file
B show_error_hook
B show_error_message
B show_lua_error_hook
B show_warning_message
B start_file
B start_page_number
B start_run
B stop_file
B stop_page_number
B stop_run
B vpack_filter
B vpack_quality
B wrapup_run

catcodes (context)

names   data table   **register**   function
numbers   data table

characters (context)

activeoffset	number	T anudatta	
adobename	function	T before_half	
bidi	data table	T before_main	
blockrange	function	T before_postscript	
blocks	data table	T before_subscript	
casemap	table	T below_mark	
categories	data table	T consonant	
category	function	T dependent_vowel	
categorytags	data table	T halant	
classifiers	table	T independent_vowel	
collapsed	data table	T nukta	
contextname	function	T post_mark	
csletters	data table	T pre_mark	
data	data table	T ra	
decomposed	data table	T stress_tone_mark	
description	function	T twopart_mark	
descriptions	data table	T vowel_modifier	
detailtags	data table	**initialize**	function
directions	table	**is_character**	data table
emoji	table	**is_command**	data table
F compact		**is_letter**	data table
F known		**is_mark**	data table
F resolve		**is_punctuation**	data table
emojized	function	**is_spacing**	data table
enccodes	data table	**lcchars**	data table
entities	data table	**lccode**	function
fallbacks	data table	**lccodes**	data table
filters	data table	**lettered**	function
fractions	table	**lhash**	data table
fromnumber	function	**linebreaks**	data table
fschars	data table	**lower**	function
fscodes	data table	**mathlists**	data table
getrange	function	**mirrors**	table
graphemes	data table	**otfscripts**	data table
hangul	data table	**private**	table
indicgroups	table	**ranges**	data table
T above_mark		**registerentities**	function
T after_half		**remap_hangul_syllabe**	function
T after_main		**setactivecatcodes**	function
T after_postscript		**setlettercatcodes**	function
T after_subscript		**shape**	function

shaped	function		D accentmapping
shash	data table		D commandmapping
shchars	data table		F defineaccents
shcodes	data table		F safechar
showstring	function		F toutf
specialchars	data table		F toutfpattern
specials	data table	**textclasses**	table
splits	table	**tonumber**	function
T char		**ucchars**	data table
T compat		**uccode**	function
subscripts	table	**uccodes**	data table
superscripts	table	**uhash**	data table
synonyms	data table	**unicodechar**	function
tex	table	**upper**	function

chemistry (context)

component	function	**molecule**	function
define	function	**moleculeparser**	userdata
definitions	data table	**start**	function
format	string	**stop**	function
inlinechemical	function	**structures**	number
instance	string	**undefine**	function
method	string		

containers (context)

cleanname	function	**is_valid**	function
content	function	**read**	function
define	function	**usecache**	boolean
is_usable	function	**write**	function

converters (context)

A	function	**cn-c**	function
A:es	function	**convert**	function
A:ru	function	**decimals**	function
A:sl	function	**define**	function
AK	function	**hexstringtonumber**	function
Alphabetic	function	**hour**	function
Alphabetic:es	function	**i**	function
Alphabetic:ru	function	**isleapyear**	function
Alphabetic:sl	function	**lchexnumber**	function
Character	function	**lchexnumbers**	function
Characters	function	**leapyear**	function
I	function	**lower**	function
KA	function	**max**	function
KR	function	**maxchrs**	function
R	function	**minute**	function
RK	function	**month**	function
Romannumerals	function	**nicenumber**	function
Russiannumerals	function	**nofdays**	function
Sloveniannumerals	function	**number**	function
Spanishnumerals	function	**numbers**	function
Word	function	**octnumber**	function
Words	function	**octstringtonumber**	function
a	function	**ordinal**	function
a:es	function	**r**	function
a:ru	function	**rawcharacter**	function
a:sl	function	**romannumerals**	function
abjadnodotnumerals	function	**russiannumerals**	function
abjadnumerals	function	**second**	function
alphabetic	function	**sequences**	data table
alphabetic:es	function	**settime**	function
alphabetic:ru	function	**sloveniannumerals**	function
alphabetic:sl	function	**spaceddigits**	function
character	function	**spanishnumerals**	function
characters	function	**textime**	function
chineseallnumerals	function	**toabjad**	function
chinesecapnumerals	function	**tochinese**	function
chinesenumerals	function	**toroman**	function
chr	function	**totime**	function
chrs	function	**uchexnumber**	function
cn	function	**uchexnumbers**	function
cn-a	function	**upper**	function

verbose	table	**word**	function
D data		**words**	function
F translate		**year**	function
weekday	function		

coroutine (basic lua)

create	function	**status**	function
isyieldable	function	**wrap**	function
resume	function	**yield**	function
running	function		

ctxrunner (context)

load	function	**prepfiles**	data table
preparedfile	function	**resolve**	function

debug (basic lua)

debug	function		**sethook**	function
gethook	function		**setlocal**	function
getinfo	function		**setmetatable**	function
getlocal	function		**setupvalue**	function
getmetatable	function		**setuservalue**	function
getregistry	function		**traceback**	function
getupvalue	function		**upvalueid**	function
getuservalue	function		**upvaluejoin**	function

dir (context)

collectpattern	function	**globpattern**	function
current	function	**ls**	function
expandname	function	**makedirs**	function
found	function	**mkdirs**	function
glob	function	**pop**	function
globdirs	function	**push**	function
globfiles	function		

directives (context)

data	data table	**name**	string
default	function	**register**	function
disable	function	**report**	function
done	table	**reset**	function
enable	function	**show**	function
list	function	**value**	function

document (context)

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

environment (context)

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

epdf (extra tex)

AttributeOwner_Type	function	**open**	overloaded function
Attribute_Type	function	**openMemStream**	function
Object_Type	function	**type**	function
StructElement_Type	function		

experiments (context)

data	data table		**register**	function
default	function		**report**	function
disable	function		**reset**	function
enable	function		**show**	function
list	function		**value**	function
name	string			

figures (context)

applyratio	function
badname	function
bases	data table
bitmapimage	function
boxnumber	number
cachepaths	data table
check	function
checkers	data table
converters	data table
current	function
defaultdepth	number
defaultheight	number
defaultsearch	boolean
defaultwidth	number
done	function
dummy	function
existers	data table
exists	function
formats	data table
found	data table
get	function
getinfo	function
getpdfinfo	function
getrealpage	function
guess	function
hash	function
identifiers	data table
identify	function
images	table

 F boxes
 F check
 F checksize
 F clone
 F copy
 F immediatewrite
 F immediatewriteobject
 F keys
 F new

 F node
 F ofindex
 F package
 F print
 F scan
 F serialize
 F tonode
 F totable
 F types
 F write

include	function
includers	data table
initialize	function
loaded	data table
localpaths	data table
magics	data table
mergegoodies	function
nofmissing	number
nofprocessed	number
order	data table
paths	data table
patterns	data table
pop	function
preferquality	boolean
programs	data table
push	function
registerpattern	function
registerresource	function
registersuffix	function
resources	data table
scale	function
set	function
setlookups	function
setmemstream	function
setorder	function
setpaths	function
suffixes	data table
used	data table

file (basic lua)

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

fio (extra lua)

checkpermission	function	**readfixed4**	function
getposition	function	**readinteger1**	function
read2dot14	function	**readinteger2**	function
readbytes	function	**readinteger3**	function
readbytetable	function	**readinteger4**	function
readcardinal1	function	**readline**	function
readcardinal2	function	**recordfilename**	function
readcardinal3	function	**setposition**	function
readcardinal4	function	**skipposition**	function
readfixed2	function		

floats (context)

analysemethod	function	**nofstacked**	function
checkedpagefloat	function	**pop**	function
collect	function	**push**	function
consult	function	**resave**	function
flush	function	**save**	function
getvariable	function	**stacked**	function
hasstacked	function		

font (basic tex)

addcharacters	function		**id**	function
current	function		**max**	function
define	function		**nextid**	function
each	function		**read_tfm**	function
fonts	table		**read_vf**	function
frozen	function		**setexpansion**	function
getfont	overloaded function		**setfont**	function

fonts (context)

analyzers	table	F	currentfonthasfeature
D	features	D	designsizes
D	initializers	D	dontembed
D	methods	F	enhanceparameters
F	setstate	T	enhancers
D	states		T afm
B	useunicodemarks		F apply
checkers	table		F patch
F	getmissing		T patches
F	missing		F register
F	placeholder		F report
cid	table		F register
F	getmap		F report
F	loadfile		T otf
collections	table		F addfeature
F	checkenabled		F apply
F	clonevector		F enhance
F	define		F patch
T	definitions		T patches
F	found		F register
F	prepare		F report
F	process		F register
F	registermain		F report
F	report		T tfm
F	reset		F apply
T	vectors		F patch
constructors	table		T patches
F	addcharacters		F register
F	addcoreunicodes		F report
F	aftercopyingcharacters		F register
F	applymanipulators		F report
F	assignmathparameters	N	factor
B	autocleanup	T	features
F	beforecopyingcharacters		D afm
D	cache		D otf
B	cacheintex		D tfm
F	calculatescale	F	finalize
F	checkedfeatures	F	getfeatureaction
F	checkedfilename	F	getmathparameter
F	cleanuptable	F	getprivate
F	collectprocessors	T	handlers

```
T afm                                          F getactualtext
  B autoprefixed                               F getalternate
  D cache                                      F getgsub
  D features                                   F getkern
  F getkern                                    F getmultiple
  T helpdata                                   F getsubstitution
    D bothkerned                             T handlers
    D leftkerned                               F devanagari_remove_joiners
    D ligatures                                F devanagari_reorder_matras
    D rightkerned                              F devanagari_reorder_pre_base_reordering_consonants
    D texligatures                             F devanagari_reorder_reph
  F load                                       F gpos_context
  T readers                                    F gpos_contextchain
    F getinfo                                  F gpos_cursive
    F loadfont                                 F gpos_mark2base
    F loadshapes                               F gpos_mark2ligature
  F setfeatures                                F gpos_mark2mark
  B syncspace                                  F gpos_pair
  N version                                    F gpos_single
T otf                                          F gsub_alternate
  F addfeature                                 F gsub_context
  F basemodeinitializer                        F gsub_contextchain
  D cache                                      F gsub_ligature
  F collectlookups                             F gsub_multiple
  T coverup                                    F gsub_reversecontextchain
    T actions                                  F gsub_single
      F alternate                              F trigger_space_kerns
      F chainposition                        T helpers
      F chainsubstitution                      F blockligatures
      F kern                                   F pardirstate
      F ligature                               F txtdirstate
      F multiple                             F load
      F pair                                 F loadoutlinedata
      F single                               F loadstreamdata
      F substitution                         F modeinitializer
    F register                               D pdfcache
    S stepkey                                F plugininitializer
  F dataset                                  F pluginprocessor
  F datasetpositionprocessor               T plugins
  S defaultbasealternate                   T readers
  S defaultnodealternate                     F addunicodetable
  D features                                 F avar
  F featuresinitializer                      F cbdt
  F featuresprocessor                        F cblc
```

F cff
F cff2
F cffcheck
F checkhash
F cmap
F colr
F compact
F cpal
F ebdt
F eblc
F ebsc
F expand
F extend
F fvar
F gdef
F getcomponents
F getinfo
F glyf
F gpos
T gposhandlers
  F chainedcontext
  F context
  F cursive
  F extension
  F marktobase
  F marktoligature
  F marktomark
  F pair
  F single
F gsub
T gsubhandlers
  F alternate
  F chainedcontext
  F context
  F extension
  F ligature
  F multiple
  F reversechainedcontextsingle
  F single
F gvar
F head
T helpers
  F axistofactors
  F cleanname

F getaxisscale
F getfactors
F getscales
F gotodatatable
F normalizedaxis
T normalizedaxishash
F readvariationdata
F reportskippedtable
F setvariabledata
F hhea
F hmtx
F hvar
F kern
F loadfont
F loadshapes
F loca
F math
F maxp
F mvar
F name
F os/2
F pack
F parsecharstrings
F post
F registerextender
F rehash
F sbix
F stat
T streamreader
  F close
  F getposition
  F getsize
  F look
  F open
  F read2dot14
  F readbyte
  F readbytes
  F readbytetable
  F readcardinal
  F readcardinal1
  F readcardinal2
  F readcardinal2le
  F readcardinal3
  F readcardinal3le

F readcardinal4
F readcardinal4le
F readchar
F readfixed2
F readfixed4
F readinteger
F readinteger1
F readinteger2
F readinteger2le
F readinteger3
F readinteger3le
F readinteger4
F readinteger4le
F readsignedbyte
F readstring
F readtag
F setposition
F size
F skip
F skiplong
F skipposition
F skipshort
F writebyte
F writecardinal2
F writecardinal4
F writestring
F svg
N tableversion
F unifymissing
F unpack
F vhea
F vmtx
F vorg
F vvar
F woff2otf
F registerpalette
F registerplugin
F reorderlookups
T sbix
F topdf
D sbixcache
B sbixenabled
F scriptandlanguage
F setdynamics

F setfeatures
T statistics
D usedfeatures
F storepdfdata
T svg
F filterglyph
F topdf
D svgcache
B svgenabled
T tables
D baselines
D features
D featuretypes
D languages
D scripts
N version
T pfb
F loadvector
T tfm
F addtounicode
D features
N maxnestingdepth
N maxnestingsize
F reencode
F setfeatures
N version
T vf
T combinations
F combine
T combiner
D commands
D helpers
D math
D predefined
N version
D whatever
F hashfeatures
F hashinstance
T hashmethods
F normal
F virtual
F initializefeatures
T keys
T characters

T descriptions		S width
T parameters		S embedding
	S ascender	S encodingbytes
	S descender	S filename
	S designsize	S finalized
	T expansion	S fontname
		S auto	S format
		S shrink	S fullname
		S step	S hasitalics
		S stretch	S hasmath
	S extendfactor	S mathitalics
	S factor	S mode
	S hfactor	S name
	S mathsize	S noglyphnames
	S mode	S nostackmath
	T protrusion	S psname
		S auto	S textitalics
	S quad	S virtualized
	S scaledpoints	D loadedfonts
	S scriptpercentage	S namemode
	S scriptscriptpercentage	N noffontsloaded
	S size	N nofsharedfonts
	S slantfactor	N nofsharedhashes
	S slantperpoint	N nofsharedvectors
	T spacing	N privateoffset
		S extra	D privateslots
		S shrink	F readanddefine
		S stretch	F registerfeature
		S width	F resetfeature
	S units	B resolvevirtualtoo
	S vfactor	F scale
	S width	F scaled
	S xheight	F setfactor
T properties		F setfeature
	S autoitalicamount	F setmathparameter
	S cidinfo	F setname
	T effect	B sharefonts
		S ddelta	F trytosharefont
		S effect	N version
		S factor	**current** function
		S hdelta	**currentid** function
		S hfactor	**definers** table
		S vfactor	F addlookup
		S wdelta	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	
definetypeface	function
encodings	table
T agl	
D ctxcodes	
D extras	
D names	
D synonyms	
D unicodes	
D cache	
F is_known	
D known	
F load	
F make_unicode_vector	
D math	
N version	
enhanceid	function
expansions	data table
formats	data table
getalternate	function
getkern	function
getmultiple	function

getsubstitution	function
getters	table
T alternate	
F opentype	
T kern	
F opentype	
F type1	
T multiple	
F opentype	
T substitution	
F opentype	
goodies	table
D colorschemes	
T data	
T dejavu-math	
S author	
S comment	
S copyright	
B initialized	
T mathematics	
T alternates	
T dotless	
S comment	
S feature	
N value	
T kerns	
S name	
S version	
T schola-math	
S author	
S comment	
S copyright	
B initialized	
T mathematics	
T alternates	
T dotless	
S comment	
S feature	
N value	
T kerns	
S name	
S version	
D designsizes	
D filenames	

F getcompositions

T list

F load

F prepare_features

F register

F registerpostprocessor

F report

T suffixes

handlers   table

hashes   table

D characters

D classes

D csnames

D descriptions

D dynamics

D emwidths

D exheights

D extensibles

D features

D identifiers

D italics

D lastmathids

D marks

D modes

D originals

D parameters

T processes

D properties

D quads

D resources

T setdynamics

T shapes

D spaces

D spacings

T streams

D unicodes

D variants

D xheights

helpers   table

F addextraprivate

F addprivate

F appendcommands

F checkflags

F checkmerge

F checksteps

D commands

F descriptiontoslot

F dimenfactor

F expandglyph

T extraprivates

F fontpatternhassize

F getcoloredglyphs

F getdigitwidth

F getinstancespec

F getparameters

F getprivatecharornode

F getprivatenode

F getprivates

F getprivateslot

F hasprivate

F indextoslot

F name

F nametoslot

F prependcommands

F setdigitwidth

F splitfontpattern

F tochar

infofont   function

iterators   table

F characters

F descriptions

F glyphs

loggers   table

F add_placeholders

D category_to_placeholder

F format

F onetimemessage

F register

F reportdefinedfonts

F reportusedfeatures

mappings   table

F addtounicode

F fromunicode16

F loadfile

F loadline

F makenameparser

D overloads

F reset

F	tounicode	D	extras
F	tounicode16	F	fallback
F	tounicode16sequence	D	fallbacks
metapost	table	F	features
F	boundingbox	F	filefallback
F	boxtomp	F	fontdata
F	draw	F	fontfallback
F	fill	F	fontsynonym
F	maxbounds	F	goodies
F	output	F	mathfallback
F	paths	D	methods
F	widthline	D	presets
F	zeroline	F	registerfallback
mp	table	F	registerfiles
D	cache	F	registerfontalternative
B	inline	F	registerfontfamily
N	version	F	textfallback
names	data table	F	typeface
nulldata	data table	F	typescript
protrusions	data table	F	userdata
readers	table	**specifiers**	table
F	afm	D	contextmerged
F	check_lua	F	contextnumber
F	check_tfm	D	contextnumbers
F	lua	D	contextsetups
F	ofm	F	contexttostring
F	opentype	F	definecontext
F	otf	F	mergecontext
F	pfb	F	presetcontext
D	sequence	F	registercontext
F	tfm	F	showcontext
F	ttc	F	splitcontext
F	ttf	D	synonyms
F	woff	D	variants
reserveid	function	**symbols**	table
select	table	T	emoji
D	alternatives	F	checked
F	bodyfont	F	resolved
D	data	F	uselibrary
F	default	**tables**	table
D	defaults	D	data
F	definefallbackfamily	F	savefont
F	definefontfamily	F	saveoriginal
F	definefontfamilypreset	**tracers**	table

treatments   table

  F applyfixes

  D data

  S filename

  F ignoredfile

  F report

  F trace

typefaces   table

functions (context)

dummy function

graphics (context)

backgrounds table

    F fetchmultipar

    F pair

    F path

    F point

gzip (extra lua)

close	function	**open**	function
lines	function	**save**	function
load	function	**suffix**	function

img (basic tex)

boxes	function	**ofindex**	function
check	function	**package**	function
checksize	function	**print**	function
clone	function	**scan**	function
copy	function	**serialize**	function
immediatewrite	function	**tonode**	function
immediatewriteobject	function	**totable**	function
keys	function	**types**	function
new	function	**write**	function
node	function		

interactions (context)

attachments data table
fields   table
    F clone
    F define
    F defineset
    F insert
general   table
    F getidentity
    F setupidentity
help   table
    F collect
    F reference
    F register
javascripts table
    F addtopreamble
    F code
    D codes
    F flushpreambles

    D functions
    D preambles
    F setpreamble
    F storecode
    F storepreamble
    F usepreamblenow
    F usescripts
linkedlists data table
pages   table
    F setpagetransition
    F setupcanvas
references table
    F setclosedocument
    F setclosepage
    F setopendocument
    F setopenpage
renderings data table
soundclips data table

interfaces (context)

_	data table		
addvalidkeys	function	**registernamespace**	function
cachedsetups	data table	**registerscanner**	function
cachesetup	function	**scanners**	data table
checkedspecification	function	**setconstant**	function
complete	data table	**setcount**	function
constants	data table	**setdimen**	function
corenamespaces	data table	**setelement**	function
currentinterface	string	**setformat**	function
currentresponse	string	**setmacro**	function
definecommand	function	**setmessage**	function
defined	function	**setmessages**	function
doifelsemessage	function	**settranslation**	function
elements	data table	**setupstrings**	data table
formats	data table	**setuserinterface**	function
getcheckedparameters	function	**setvalidkeys**	function
getmessage	function	**setvariable**	function
getnamespace	function	**showmessage**	function
getsetupstring	function	**storedscanners**	data table
hashedsetups	data table	**strings**	table
implement	function	**syntax**	data table
interfacedcommand	function	**tolist**	function
interfaces	table	**translations**	data table
invalidkey	function	**usednamespaces**	data table
message	function	**variables**	data table
namespaces	table	**writestatus**	function

io (basic lua)

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

job (context)

comment	function	F	check
datasets	table	D	collected
D collected		F	count
F extend		F	define
F getdata		F	find
F setdata		F	first
D tobesaved		F	get
disablesave	function	F	getcollected
embedded	table	F	getdata
D collected		F	getfield
D tobesaved		F	gettobesaved
fileobjreferences	table	F	inlist
D collected		F	last
D tobesaved		F	list
files	table	F	save
D collected		F	savetagged
F context		D	tobesaved
B forcerun		**positions**	table
F run		F	b_column
D tobesaved		F	b_region
getrandomseed	function	F	c
initialize	function	D	collected
load	function	F	column
loadother	function	F	copy
objects	table	F	depth
D collected		F	e_column
F get		F	e_region
F number		F	enhance
F page		F	extra
F save		T	free
F set		F	get
D tobesaved		F	getreserved
pack	boolean	F	gettobesaved
packversion	number	F	hangafter
pagestates	table	F	hangindent
D collected		F	height
F extend		F	hsize
F realpage		F	leftskip
F setstate		F	lowerleft
D tobesaved		F	lowerright
passes	table	F	markregionbox

F n		F xy	
F onsamepage		F y	
F overlapping		**register**	function
F p		**save**	function
T page		**structure**	table
F paragraph		D collected	
F parindent		T components	
F position		T tobesaved	
F r		T branches	
F region		S name	
F replace		S type	
F rightskip		**variables**	table
F set		D checksums	
F setall		D collected	
F setregionbox		F getchecksum	
D tobesaved		F makechecksum	
F upperleft		F restore	
F upperright		F save	
S used		F setchecksum	
F whd		D tobesaved	
F width		**version**	number
F x			

lang (basic tex)

clean	function	**id**	function
clear_hyphenation	function	**new**	function
clear_patterns	function	**patterns**	function
exceptions	function	**postexhyphenchar**	function
gethjcode	function	**posthyphenchar**	function
hyphenate	function	**preexhyphenchar**	function
hyphenation	function	**prehyphenchar**	function
hyphenationmin	function	**sethjcode**	function

languages (context)

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

T enablers

B enables

F found

F load

T methods

N threshold

layouts (context)

status table

    F isleftpage

F leftorrightpageaction

lfs (extra lua)

attributes	overloaded function	**mkdir**	overloaded function
chdir	overloaded function	**mkdirs**	function
currentdir	function	**readlink**	overloaded function
dir	overloaded function	**rmdir**	overloaded function
isdir	overloaded function	**setmode**	overloaded function
isfile	overloaded function	**shortname**	overloaded function
isfound	function	**symlinkattributes**	overloaded function
link	overloaded function	**touch**	overloaded function
lock	function	**unlock**	function
lock_dir	overloaded function		

libraries (context)

basiclua	data table	**extratex**	data table
basictex	data table	**functions**	data table
builtin	data table	**globals**	data table
extralua	data table		

lmx (context)

color	function		**loadedfile**	function
convert	function		**make**	function
convertfile	function		**new**	function
convertstring	function		**overloaderror**	function
einject	function		**popupfile**	function
eprint	function		**print**	function
escape	function		**pv**	function
finalized	function		**report**	function
finject	function		**reset**	function
fprint	function		**result**	function
get	function		**set**	function
getvariables	function		**show**	function
htmfile	function		**showdebuginfo**	function
html	table		**showerror**	function
F a			**stripcss**	function
F td			**tv**	function
F th			**type**	function
include	function		**urlescape**	function
inherited	table		**variable**	function
S color-background-four			**variables**	table
S color-background-one			S color-background-blue	
S color-background-three			S color-background-body	
S color-background-two			S color-background-green	
S title			S color-background-main	
initialize	function		S color-background-purple	
inject	function		S color-background-yellow	
lmxfile	function		S title-default	

logs (context)

application	function	**setformats**	function
categories	function	**setformatters**	function
direct	function	**setlogfile**	function
disable	function	**setmessenger**	function
enable	function	**setprocessor**	function
exporters	table	**setprogram**	function
extendbanner	function	**settarget**	function
finalactions	function	**settimedlog**	function
flush	function	**settranslations**	function
help	function	**show**	function
loggingerrors	function	**show_close**	function
messenger	function	**show_load**	function
new	function	**show_open**	function
newline	function	**simple**	function
poptarget	function	**simpleline**	function
pushtarget	function	**simplelines**	function
registerfinalactions	function	**start_page_number**	function
report	function	**starterrorlogging**	function
reportbanner	function	**startfilelogging**	function
reporter	function	**status**	function
reporters	table	**stop_page_number**	function
F banner		**stoperrorlogging**	function
F export		**stopfilelogging**	function
F help		**subdirect**	function
F info		**subreport**	function
F lines		**system**	function
F version		**texerrormessage**	function
reportline	function	**writer**	function
reportlines	function		

lpdf (context)

action	function	**docstring**	function
adddocumentcolorspace	function	**epdf**	table
adddocumentextgstate	function	F contenttotext	
adddocumentpattern	function	F expand	
adddocumentshade	function	F expanded	
addtocatalog	function	F getpagecontent	
addtoinfo	function	F getstructure	
addtonames	function	F load	
addtopageattributes	function	F unload	
addtopageresources	function	**escaped**	function
addtopagesattributes	function	**finalizedocument**	function
addxmpinfo	function	**finalizepage**	function
annotationspecification	function	**finishtransparencycode**	function
array	function	**flags**	table
boolean	function	T annotations	
border	function	N AutoView	
checkedkey	function	N Hidden	
checkedvalue	function	N Invisible	
circularshade	function	N Locked	
cmykcode	function	N LockedContents	
collectedresources	function	N NoRotate	
color	function	N NoView	
colorspace	function	N NoZoom	
colorspaceconstants	data table	N Print	
colorspec	function	N Printable	
colorvalue	function	N ReadOnly	
colorvalues	function	N ToggleNoView	
compresslevel	function	N auto	
constant	function	N hidden	
copyarray	function	N printable	
copyboolean	function	T widgets	
copyconstant	function	N Comb	
copydictionary	function	N CommitOnSelChange	
copyfloat	function	N DoNotScroll	
copyinteger	function	N DoNotSpellCheck	
copynumber	function	N Edit	
copystring	function	N FileSelect	
copyunicode	function	N MultiLine	
delayedobject	function	N NoExport	
destinationspecification	function	N NoToggleToOff	
dictionary	function	N Password	

N PopUp		**null**	function
N PushButton		**number**	function
N Radio		**objectcompresslevel**	function
N RadiosInUnison		**pagereference**	function
N ReadOnly		**patternstream**	function
N Required		**pdfcolor**	function
N RichText		**pdftimestamp**	function
N Sort		**permitdetail**	function
N file		**protectresources**	boolean
N fixed		**rectangle**	function
N nocheck		**reference**	function
N protected		**registerannotation**	function
N readonly		**registerdestination**	function
N required		**registerdocumentfinalizer**	function
N sorted		**registerpagefinalizer**	function
N unavailable		**registerpattern**	function
flushobject	function	**reserveobject**	function
flushstreamfileobject	function	**rgbcode**	function
flushstreamobject	function	**rotationcm**	function
formats	data table	**setcompression**	function
frompdfdoc	function	**setdates**	function
fromsixteen	function	**settime**	function
getcompression	function	**settrailerid**	function
gethpos	function	**setversion**	function
getmatrix	function	**shareobject**	function
getmetadata	function	**shareobjectreference**	function
getpos	function	**spotcode**	function
getversion	function	**stream**	function
getvpos	function	**string**	function
graycode	function	**toeight**	function
hasmatrix	function	**topdfdoc**	function
id	function	**tosixteen**	function
injectxmpinfo	function	**transform**	function
insertxmpinfo	function	transparency	function
layerreference	function	transparencycode	function
limited	function	**transparencygroups**	table
linearshade	function	B none	
majorversion	function	**transparencyvalue**	function
minorversion	function	**unicode**	function
nametree	function	**verbose**	function

lpeg (basic lua)

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

bytecode	table	F loaded	
bytedata	data table	F required	
bytedone	table	F reset	
B page-cst		F resolvestring	
collectgarbage	function	F resolving	
delay	function	**mask**	string
finalize	function	**messages**	data table
firstbytecode	number	**name**	table
flush	function	**newtable**	function
flushdelayed	function	**numbers**	data table
get_functions_table	function	**registercode**	function
getbytecode	function	**registeredcodes**	function
getcalllevel	function	**registerfinalizer**	function
getluaname	function	**registername**	function
getstacktop	function	**setbytecode**	function
lastbytecode	number	**setluaname**	function
macros	table	**startupfile**	string
B enabled		**version**	string

luatex (context)

cleanuptempfiles	function	F	enable
currentfile	function	F	finish
registerdumpactions	function	F	pause
registerpageactions	function	F	registerdisabler
registerstartactions	function	F	registerenabler
registerstopactions	function	F	resetfilename
registertempfile	function	F	resume
starttime	number	F	setfilename
synctex	table	F	setup
F blockfilename		F	start
F collect		F	stop
F disable		F	wrapup

lxml (context)

addindex	function		**flush**	function
all	function		**flushlinewise**	function
applyfunction	function		**flushsetups**	function
applyselectors	function		**flushspacewise**	function
att	function		~~**get_id**~~	~~function~~
attribute	function		**getid**	function
badinclusions	function		**getindex**	function
chainattribute	function		**id**	function
checkindex	function		**idsplitter**	userdata
collected	function		**include**	function
command	function		**inclusion**	function
concat	function		**inclusions**	function
concatrange	function		**index**	function
content	function		**inlineverbatim**	function
context	function		**installsetup**	function
convert	function		**last**	function
count	function		**lastatt**	function
delete	function		**lastmatch**	function
direct	function		**lastpar**	function
directives	table		**load**	function
F after			**loadbuffer**	function
F before			**loaddata**	function
F handle			**loaded**	table
F load			**main**	function
F setup			**match**	function
displayverbatim	function		**name**	function
doif	function		**namespace**	function
doifelse	function		**nonspace**	function
doifelseempty	function		**par**	function
doifelsetext	function		**param**	function
doifempty	function		**parameter**	function
doifnot	function		**path**	function
doifnotempty	function		**popmatch**	function
doifnottext	function		**pos**	function
doiftext	function		**position**	function
element	function		**pure**	function
elements	function		**pushmatch**	function
entities	data table		**raw**	function
filter	function		**rawroot**	function
filterlist	function		**rawtex**	function
first	function		**refatt**	function

register	function		F	compare
registerentity	function		F	flush
removesetup	function		F	reset
resetcdata	function		F	show
resetsetups	function		F	sort
resolvedentity	function		**splitid**	function
root	function		**startraw**	function
save	function		**startunescaped**	function
serialize	function		**stopraw**	function
setaction	function		**stopunescaped**	function
setatt	function		**store**	function
setattribute	function		**strip**	function
setcdata	function		**stripped**	function
setcommandtonone	function		**tag**	function
setcommandtotext	function		**text**	function
setpar	function		**tobuffer**	function
setparam	function		**tofile**	function
setparameter	function		**toparameters**	function
setsetup	function		**toverbatim**	function
snippet	function		**verbatim**	function
sorters	table		**withindex**	function
F	add		**xmltexhandler**	data table

math (basic lua)

abs	function		**maxinteger**	number
acos	function		**min**	function
asin	function		**mininteger**	number
atan	function		**mod**	function
atan2	function		**modf**	function
ceil	function		**odd**	function
ceiling	function		**pi**	number
cos	function		**pow**	function
cosd	function		**rad**	function
cosh	function		**random**	overloaded function
deg	function		**randomseed**	function
div	function		**round**	function
even	function		**setrandomseedi**	function
exp	function		**sin**	function
floor	function		**sind**	function
fmod	function		**sinh**	function
frexp	function		**sqrt**	function
huge	number		**tan**	function
initialseed	number		**tand**	function
ldexp	function		**tanh**	function
log	function		**tointeger**	function
log10	function		**type**	function
max	function		**ult**	function

mathematics (context)

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

md5 (extra lua)

HEX	function		**hex**	function
crypt	function		**sum**	function
dec	function		**sumHEXA**	overloaded function
decrypt	function		**sumhexa**	overloaded function
exor	function			

metapost (context)

analyzeplugins	function	**getjobdata**	function
checkformat	function	**getstatistics**	function
checktexts	function	**gettext**	function
cm	function	**graphic**	function
collapse	boolean	**graphic_base_pass**	function
colorinitializer	function	**initializescriptrunner**	function
comment	function	**installplugin**	function
convert	function	**instance**	function
defaultformat	string	**intermediate**	table
defaultinstance	string	T actions	
defaultmethod	string	F makempy	
directrun	function	**lastlog**	string
escaped	function	**load**	function
exectime	table	**makempy**	table
extensiondata	data table	N nofconverted	
filterclippath	function	F processgraphics	
flush	function	F registerfile	
flushers	table	**maketext**	function
T pdf		**metafun**	table
F comment		F interpolate	
F flushfigure		F topath	
F startfigure		**method**	number
F stopfigure		**mptopdf**	table
F textfigure		F convertmpstopdf	
flushliteral	function	N nofconverted	
flushnormalpath	function	**n**	number
flushreset	function	**nofscriptruns**	function
fonts	table	**nvformat**	function
F define		**optimize**	boolean
T flusher		**parse**	function
F flushfigure		**pdfliterals**	function
F startfigure		**pluginactions**	function
F stopfigure		**popvariable**	function
N instances		**popvariables**	function
F process		**process**	function
format	function	**processplugins**	function
format_number	function	**processspecial**	function
format_string	function	**properties**	table
formatnumber	function	**pushvariable**	function
getclippath	function	**pushvariables**	function
getextensions	function	**quickanddirty**	function

reducetogray	boolean	**sxsy**	function
reporterror	function	**tex**	table
reset	function	F get	
resetlastlog	function	F reset	
resetplugins	function	F set	
runscript	function	F setfrombuffer	
scripterror	function	**texerrors**	boolean
setextensions	function	**texexp**	function
setoutercolor	function	**textextsdata**	function
settext	function	**theclippath**	function
setvariable	function	**tographic**	function
showlog	boolean	**totable**	function
simple	function	**unload**	function
startgraphic	function	**untagvariable**	function
stopgraphic	function	**variables**	table
svformat	function		

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)

BackSpace	function	**OuterMarginDistance**	function
BaseLineSkip	function	**OuterMarginWidth**	function
BodyFontSize	function	**OverlayDepth**	function
BottomDistance	function	**OverlayHeight**	function
BottomHeight	function	**OverlayLineWidth**	function
BottomSpace	function	**OverlayOffset**	function
CurrentColumn	function	**OverlayWidth**	function
CurrentHeight	function	**PageDepth**	function
CurrentWidth	function	**PageFraction**	function
CutSpace	function	**PageNumber**	function
EmWidth	function	**PageOffset**	function
ExHeight	function	**PaperBleed**	function
FooterDistance	function	**PaperHeight**	function
FooterHeight	function	**PaperWidth**	function
HSize	function	**PrintPaperHeight**	function
HeaderDistance	function	**PrintPaperWidth**	function
HeaderHeight	function	**RealPageNumber**	function
InPageBody	function	**RightEdgeDistance**	function
InnerEdgeDistance	function	**RightEdgeWidth**	function
InnerEdgeWidth	function	**RightMarginDistance**	function
InnerMarginDistance	function	**RightMarginWidth**	function
InnerMarginWidth	function	**SpineWidth**	function
LastPageNumber	function	**StrutDepth**	function
LayoutColumnDistance	function	**StrutHeight**	function
LayoutColumnWidth	function	**SubPageNumber**	function
LayoutColumns	function	**TextHeight**	function
LeftEdgeDistance	function	**TextWidth**	function
LeftEdgeWidth	function	**TopDistance**	function
LeftMarginDistance	function	**TopHeight**	function
LeftMarginWidth	function	**TopSkip**	function
LineHeight	function	**TopSpace**	function
MakeupHeight	function	**VSize**	function
MakeupWidth	function	**_f_**	function
NOfColumns	function	**_get_count_**	function
NOfPages	function	**_get_dimen_**	function
NOfSubPages	function	**_get_toks_**	function
NamedColor	function	**_set_count_**	function
OnOddPage	function	**_set_dimen_**	function
OnRightPage	function	**_set_toks_**	function
OuterEdgeDistance	function	**blob_add**	function
OuterEdgeWidth	function	**blob_dimensions**	function

blob_index	function	**numeric**	function
blob_inject	function	**pair**	function
blob_new	function	**pairpoints**	function
blob_raw_content	function	**path**	function
blob_raw_dimensions	function	**pathpoints**	function
blob_raw_reset	function	**points**	function
blob_raw_toutf	function	**positionanchor**	function
blob_raw_wipe	function	**positionbox**	function
blob_size	function	**positioncurve**	function
blob_width	function	**positionpage**	function
boolean	function	**positionpath**	function
dataset	function	**positionpxy**	function
datasets	table	**positionregion**	function
F load		**positionwhd**	function
defaultcolormodel	function	**positionxy**	function
dimension	function	**prefix**	function
disposehash	function	**print**	function
disposestore	function	**processingmode**	function
finish_saving_data	function	**quadruple**	function
format	function	**quadruplepoints**	function
formatted	function	**quoted**	function
fprint	function	**report**	function
fromstore	function	**save_data**	function
get	table	**setcount**	function
F boolean		**setdimen**	function
F number		**settoks**	function
F numeric		**size**	function
F string		**start_saving_data**	function
get_outline_text	function	**stop_saving_data**	function
getcount	function	**systemmode**	function
getdimen	function	**tb_dimensions**	function
gettoks	function	**texstr**	function
graphformat	function	**texvar**	function
inhash	function	**tohash**	function
integer	function	**tostore**	function
isarray	function	**triplet**	function
mode	function	**tripletpoints**	function
n	function	**tt_dimensions**	function
newhash	function	**tt_initialize**	function
newstore	function	**vprint**	function

mplib (extra tex)

fields	function	**get_numeric**	function
finder	function	**get_string**	function
finders	table	**new**	overloaded function
F file		**pen_info**	function
F mpstemplate		**preprocessed**	function
get_boolean	function	**version**	function
get_number	function		

noads (context)

handlers   table

    F align
    F alternates
    F autofences
    F classes
    F collapse
    F domains
    F families
    F fixscripts
    F italics
    F kernpairs
    F makeup
    F relocate

    F render
    F resize
    F showtree
    F tags
    F unscript
    F variants

process   function
processnested   function
processors   table

    F mlist_to_hlist
    T unscript

processouter   function

node (basic tex)

check_discretionaries	function
check_discretionary	function
copy	function
copy_list	function
count	function
current_attr	function
dimensions	function
direct	table

F check_discretionaries
F check_discretionary
F copy
F copy_list
F count
F current_attr
F dimensions
F effective_glue
F end_of_math
F find_attribute
F first_glyph
F flatten_discretionaries
F flush_list
F flush_node
F flush_properties_table
F free
F get_attribute
F get_properties_table
F get_synctex_fields
F getattributelist
F getboth
F getbox
F getchar
F getcomponents
F getdepth
F getdir
F getdirection
F getdisc
F getfam
F getfield
F getfont
F getglue
F getheight

F getid
F getkern
F getlang
F getleader
F getlist
F getnext
F getnucleus
F getoffsets
F getpenalty
F getprev
F getproperty
F getshift
F getsub
F getsubtype
F getsup
F getwhd
F getwidth
F has_attribute
F has_field
F has_glyph
F hpack
F insert_after
F insert_before
F is_char
F is_direct
F is_glyph
F is_node
F is_zero_glue
F kerning
F last_node
F length
F ligaturing
F new
F protect_glyph
F protect_glyphs
F protrusion_skippable
F rangedimensions
F remove
F set_attribute
F set_properties_mode
F set_synctex_fields

F setattributelist	F uses_font	
F setboth	F vpack	
F setbox	F write	
F setchar	**effective_glue**	function
F setcomponents	**end_of_math**	function
F setdepth	**family_font**	function
F setdir	**fields**	function
F setdirection	**find_attribute**	function
F setdisc	**first_glyph**	function
F setfam	**fix_node_lists**	function
F setfield	**flatten_discretionaries**	function
F setfont	**flush_list**	function
F setglue	**flush_node**	function
F setheight	**flush_properties_table**	function
F setkern	**free**	function
F setlang	**get_attribute**	function
F setleader	**get_properties_table**	function
F setlink	**getboth**	function
F setlist	**getchar**	function
F setnext	**getdisc**	function
F setnucleus	**getfield**	function
F setoffsets	**getfont**	function
F setpenalty	**getglue**	function
F setprev	**getid**	function
F setproperty	**getleader**	function
F setshift	**getlist**	function
F setsplit	**getnext**	function
F setsub	**getprev**	function
F setsubtype	**getproperty**	function
F setsup	**getsubtype**	function
F setwhd	**getwhd**	function
F setwidth	**has_attribute**	function
F slide	**has_field**	function
F tail	**has_glyph**	function
F todirect	**hpack**	function
F tonode	**id**	function
F tostring	**insert_after**	function
F traverse	**insert_before**	function
F traverse_char	**is_char**	function
F traverse_id	**is_glyph**	function
F unprotect_glyph	**is_node**	function
F unprotect_glyphs	**is_zero_glue**	function
F unset_attribute	**kerning**	function
F usedlist	**last_node**	function

length	function	**subtype**	function
ligaturing	function	**subtypes**	function
mlist_to_hlist	function	**tail**	function
new	function	**tostring**	function
next	function	**traverse**	function
prev	function	**traverse_char**	function
protect_glyph	function	**traverse_id**	function
protect_glyphs	function	**type**	function
protrusion_skippable	function	**types**	function
rangedimensions	function	**unprotect_glyph**	function
remove	function	**unprotect_glyphs**	function
set_attribute	function	**unset_attribute**	function
set_properties_mode	function	**usedlist**	function
setfield	function	**uses_font**	function
setglue	function	**values**	function
setproperty	function	**vpack**	function
setwhd	function	**whatsits**	function
slide	function	**write**	function

nodes (context)

accentcodes	data table	**disccodes**	data table
aligned	function	**discretionarycodes**	data table
append	function	**effective_glue**	function
apply	function	**end_of_math**	function
applyvisuals	function	**fencecodes**	data table
astable	function	**fields**	function
basepoints	function	**fillcodes**	data table
boundarycodes	data table	**find_attribute**	function
boxes	table	**first_glyph**	function
F dimensions		**firstcharacter**	function
F direct		**firstcharinbox**	function
F found		**firstdirinbox**	function
F reset		**firstglyph**	function
F restore		**flush**	function
F save		**flush_list**	function
builders	table	**flush_node**	function
F buildpage_filter		**free**	function
F vpack_filter		**fullhpack**	function
check_discretionaries	function	**getattr**	function
codes	data table	**getattribute**	function
concat	function	**getbox**	function
copy	function	**getchar**	function
copy_list	function	**getdisc**	function
copy_node	function	**getfield**	function
count	function	**getfont**	function
countall	function	**getglue**	function
current_attr	function	**getid**	function
delete	function	**getleader**	function
destinations	table	**getlist**	function
N attribute		**getnext**	function
T done		**getprev**	function
F handler		**getsubtype**	function
T stack		**getwhd**	function
dimensionfields	data table	**gluecodes**	data table
dimensions	function	**gluevalues**	data table
dir_is_pop	data table	**glyphcodes**	data table
dir_negation	data table	**glyphdir_is_equal**	data table
dircodes	data table	**glyphdir_is_opposite**	data table
directioncodes	data table	**glyphdir_is_orthogonal**	data table
directionvalues	data table	**handlers**	table
dirvalues	data table	F accessibility	

F	alignbackgrounds	**is_char**	function
F	backgrounds	**is_direct**	function
F	characters	**is_display_math**	function
F	checkforleaks	**is_glyph**	function
F	checkglyphs	**is_mirrored**	data table
F	cleanupbox	**is_node**	function
F	cleanuppage	**is_nut**	function
F	export	**is_rotated**	data table
F	finalize	**is_zero_glue**	function
F	flatten	**ischar**	function
F	flattenline	**isglyph**	function
F	migrate	**kerncodes**	data table
F	protectglyphs	**kerning**	function
F	stripping	**keys**	table
F	textbackgrounds	T whatsit	
F	unprotectglyphs	**last_node**	function

has_attribute	function	**leadercodes**	data table
has_field	function	**leftmarginwidth**	function
has_glyph	function	**length**	function
hpack	function	**ligaturing**	function
idstostring	function	**linefillers**	table
ignorablefields	data table	D data	
injections	table	F define	
F copy		F enable	
F getligaindex		F filler	
F getthreshold		F handler	
F handler		**lines**	table
F installgetspaceboth		T boxed	
F installnewkern		F register	
F isspace		F setup	
F keepcounts		F stage_one	
F reset		F stage_two	
F resetcounts		D data	
F setcursive		F finalize	
F setkern		F number	
F setligaindex		N scratchbox	
F setmark		**link**	function
F setmove		**linked**	function
F setposition		**list**	function
F setspacekerns		**listablefields**	data table
insert_after	function	**listcodes**	data table
insert_before	function	**listtoutf**	function
insert_list_after	function	**literalvalues**	data table
installattributehandler	function	**load**	function

locate	function		F first_glyph
margincodes	data table		F firstcharacter
marginkerncodes	data table		F firstcharinbox
markers	table		F firstglyph
F get			F flush
mathcodes	data table		F flush_list
maxboxwidth	function		F flush_node
mlist_to_hlist	function		F free
new	function		F fullhpack
noadcodes	data table		F get_components
noadoptions	table		F get_synctex_fields
N axis			F getattr
N exact			F getattribute
N left			F getattributelist
N middle			F getattrlist
N no_axis			F getboth
N right			F getbox
N set			F getboxglue
N unused_1			F getchar
N unused_2			F getcomponents
nodecodes	data table		F getdepth
nopts	function		F getdir
nuts	table		F getdirection
F append			F getdisc
F apply			F getdiscretionary
F applyvisuals			F getfam
F check_discretionaries			F getfield
F concat			F getfont
F copy			F getglue
F copy_list			F getheight
F copy_no_components			F getid
F copy_node			F getkern
F copy_only_glyphs			F getlang
F copy_properties			F getlanguage
F copyvisual			F getleader
F count			F getlist
F count_components			F getnext
F countall			F getnucleus
F current_attr			F getoffsets
F delete			F getpenalty
F dimensions			F getprev
F effective_glue			F getprop
F end_of_math			F getshift
F find_attribute			F getsub

F getsubtype	F fontkern
F getsup	F fraction
F getsurround	F glue
F getwhd	F gluespec
F getwidth	F glyph
F has_attribute	F hlist
F has_field	F italickern
F has_glyph	F kern
F hpack	F latelua
F insert_after	F lateluafunction
F insert_before	F leader
F insert_list_after	F leftmarginkern
F is_char	F leftskip
F is_direct	F lineskip
F is_display_math	F mathchar
F is_glyph	F mathtextchar
F is_node	F negatedglue
F is_nut	F noad
F is_zero_glue	F pdfannotation
F ischar	F pdfdestination
F isglyph	F pdfdirectliteral
F kerning	F pdfliteral
F last_node	F pdforiginliteral
F leftmarginwidth	F pdfpageliteral
F length	F pdfrawliteral
F ligaturing	F pdfrestore
F link	F pdfsave
F linked	F pdfsetmatrix
F locate	F penalty
F mlist_to_hlist	F radical
F nestedtracedslide	F register
F new	F rightmarginkern
T pool	F rightskip
F accent	F rule
F baselineskip	F shrink
F boundary	F special
F choice	F stretch
F cleanup	F subbox
F delim	F submlist
F delimiter	F temp
F direction	F textdir
F disc	F usage
F emptyrule	F userattributes
F fence	T userids

N margins.inline
N property
N splitters.one
N splitters.two
F userlist
F userlua
F usernumber
F userrule
F userstring
F usertokens
F vlist
F wordboundary
F prepend
F protect_glyph
F protect_glyphs
F protrusion_skippable
F rangedimensions
F rawprop
F reference
F rehpack
F remove
F repackhlist
F replace
F rightmarginwidth
T rules
  F userrule
F set_attribute
F set_components
F set_synctex_fields
F setattr
F setattribute
F setattributelist
F setattributes
F setattrlist
F setboth
F setbox
F setboxglue
F setchar
F setcomponents
F setdepth
F setdir
F setdirection
F setdisc
F setdiscretionary

F setfam
F setfield
F setfont
F setglue
F setheight
F setkern
F setlang
F setlanguage
F setleader
F setlink
F setlist
F setnext
F setnucleus
F setoffsets
F setpenalty
F setprev
F setprop
F setshift
F setsplit
F setsub
F setsubtype
F setsup
F setsurround
F setunsetattributes
F setvisual
F setvisuals
F setwhd
F setwidth
F slide
F somepenalty
F somespace
F splitbox
F tail
F take_components
F takeattr
F takebox
F takelist
F theprop
F tonode
F tonodes
F tonut
F tosequence
F tostring
F tracedslide

F traverse			F baselineskip	
F traverse_char			F cleanup	
F traverse_id			F glyph	
T typesetters			F hlist	
F tohbox			F kern	
F tohpack			F latelua	
F tonodes			F lineskip	
F tovbox			F pdfdirectliteral	
F tovpack			F pdforiginliteral	
F unprotect_glyph			F pdfrestore	
F unprotect_glyphs			F pdfsave	
F unset_attribute			F pdfsetmatrix	
F unsetattribute			F register	
F unsetattributes			F rule	
F untracedslide			F special	
F use_components			F usage	
F usedlist			F usernumber	
F uses_font			F vlist	
F vianodes				

prepend function
print function
processors table

F traverse_id	

(continued)

F vianuts	
F vpack	
F write	

packlist function
pardir_is_equal data table
pardir_is_opposite data table
pardir_is_parallel data table
partextdir_is_equal data table
pdfliteralvalues data table
penaltycodes data table
plugindata table

F finalizer	
F initializer	
S name	
T namespace	
N attribute	
D data	
F enable	
F handler	
F register	
D registered	
D values	
F processor	

points function
pool table

prepend function
print function
processors table

F contribute_filter	
B enabled	
F hpack_filter	
F post_linebreak_filter	
F pre_linebreak_filter	
F tracer	

processranges function
processwords function
properties table

T actions	
F delayed	
F fdelayed	
F immediate	
F attach	
T data	
F delayed	

protect_glyph function
protect_glyphs function
protrusion_skippable function
pts function
radicalcodes data table
rangedimensions function
reference function

references	table		F define	
N attribute			F enable	
T done			F handler	
F handler			**show**	function
T stack			**showboxes**	function
rehpack	function		**showcodes**	function
remove	function		**showlist**	function
repackhlist	function		**showsimplelist**	function
replace	function		**skipcodes**	data table
report	function		**skipvalues**	data table
rightmarginwidth	function		**slide**	function
rulecodes	data table		**snapshots**	table
rules	table		F getparameters	
D data			F getsamples	
F define			F resetsamples	
F enable			F takesample	
F handler			**somepenalty**	function
T ruleactions			**somespace**	function
F box			**splitbox**	function
F draw			**stripdiscretionaries**	function
F fill			**stripping**	table
F mp			T glyphs	
F stroke			F set	
F userrule			**striprange**	function
save	function		**tail**	function
serialize	function		**takeattr**	function
serializebox	function		**takebox**	function
set_attribute	function		**tasks**	table
setattr	function		F actions	
setattribute	function		F appendaction	
setattributes	function		F disableaction	
setboth	function		F disablegroup	
setbox	function		F enableaction	
setboxtonaturalwd	function		F enablegroup	
setfield	function		F freeze	
setglue	function		F freezegroup	
setlink	function		F new	
setlist	function		F prependaction	
setnext	function		F removeaction	
setprev	function		F replaceaction	
setunsetattributes	function		F restart	
setwhd	function		F setaction	
shifts	table		F showactions	
D data			F table	

textdir_is_equal	data table		F	rule
textdir_is_is	data table		F	setlist
textdir_is_opposite	data table		F	setproperties
textdir_is_parallel	data table		F	start
tobasepoints	function		T	steppers
tocentimeters	function		F	check
tociceros	function		F	codes
todidots	function		F	features
todimen	function		F	font
toinches	function		F	glyphs
tomillimeters	function		F	message
tonewciceros	function		F	messages
tonewdidots	function		F	nofsteps
tonode	function		F	register
tonodes	function		F	reset
tonut	function		F	start
topicas	function		F	stop
topoints	function		F	stop
toscaledpoints	function		T	transparencies
tosequence	function		F	reset
tostring	function		F	set
totable	function		F	setlist
totree	function		**traverse**	function
toutf	function		**traverse_char**	function
tracers	table		**traverse_id**	function
T characters			**typesetters**	table
F collect			F	hbox
F equal			F	hpack
F start			F	tohbox
F string			F	tohpack
F unicodes			F	tonodes
T colors			F	tovbox
F reset			F	tovpack
F set			F	vpack
F setlist			**unprotect_glyph**	function
F fontchar			**unprotect_glyphs**	function
T frequencies			**unset_attribute**	function
F register			**unsetattribute**	function
T pool			**unsetattributes**	function
T nodes			**usedlist**	function
F rule			**usercodes**	data table
T nuts			**vianodes**	function
F rule			**vianuts**	function
F resetproperties			**visualizebox**	function

visualizers   table

   F attribute

   T attributes

   F box

   F handler

   F markfonts

   F setfont

   F setlayer

   F setruledglyph

   F setvisual

vpack   function

whatcodes   data table

whatsitcodes   data table

write   function

number (context)

	function	**tocentimeters**	function
basepoints	function	**tociceros**	function
bytetodecimal	function	**tocontext**	function
compactfloat	function	**todidots**	function
decimaltobyte	function	**todimen**	function
dimenfactors	data table	**toevenhex**	function
formatted	function	**toinches**	function
formattedfloat	function	**tomillimeters**	function
maxdimen	number	**tonewciceros**	function
nopts	function	**tonewdidots**	function
percent	function	**tonumberf**	function
points	function	**tonumberg**	function
pts	function	**topicas**	function
signed	function	**topoints**	function
sparseexponent	function	**toscaled**	function
splitdimen	function	**toscaledpoints**	function
tobasepoints	function	**valid**	function
tobitstring	function		

objects (context)

data	table	**page**	function
dimensions	function	**reference**	function
found	function	**register**	function
n	number	**restore**	function

os (basic lua)

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

package (basic lua)

config	string		**luapaths**	function
cpath	string		**path**	overloaded string
extralibpath	function		**poplibpath**	function
extralibpaths	function		**popluapath**	function
extraluapath	function		**preload**	table
extraluapaths	function		**pushlibpath**	function
helpers	table		**pushluapath**	function
libpaths	function		**searchers**	table
loaded	table		**searchpath**	function
loaders	table		**seeall**	function
loadlib	function			

pagebuilders (context)

columnsets table

    F add

    F block

    F check

    F currentcolumn

    F define

    F finishflush

    F flushareas

    F flushcolumn

    F flushrest

    F goto

    F noto

    F prepareflush

    F put

    F registerarea

    F reset

    F setarea

    F sethsize

    F sethspan

    F setlines

    F setproperties

    F setstart

    F setvsize

injections table

    F flushafter

    F flushbefore

    F save

mixedcolumns table

    F cleanup

    F finalize

    F getlist

    F getrest

    F getsplit

    F setsplit

pdf (basic tex)

disablecommand	function	**hasmatrix**	function
fontname	function	**immediateobj**	function
fontobjnum	function	**mapfile**	function
fontsize	function	**mapline**	function
getcatalog	function	**maxobjnum**	function
getcompresslevel	function	**newcolorstack**	function
getcreationdate	function	**obj**	function
getdecimaldigits	function	**objtype**	function
getdestmargin	function	**pageref**	function
getgentounicode	function	**print**	function
gethpos	function	**refobj**	function
getignoreunknownimages	function	**registerannot**	overloaded function
getimageresolution	function	**reserveobj**	function
getinclusionerrorlevel	function	**setcatalog**	overloaded function
getinfo	function	**setcompresslevel**	function
getlastannot	function	**setdecimaldigits**	function
getlastlink	function	**setdestmargin**	function
getlastobj	function	**setfontattributes**	function
getlinkmargin	function	**setgentounicode**	function
getmajorversion	function	**setignoreunknownimages**	function
getmatrix	function	**setimageresolution**	function
getminorversion	function	**setinclusionerrorlevel**	function
getnames	function	**setinfo**	overloaded function
getobjcompresslevel	function	**setlinkmargin**	function
getomitcidset	function	**setmajorversion**	function
getorigin	function	**setminorversion**	function
getpageattributes	function	**setnames**	overloaded function
getpageresources	function	**setobjcompresslevel**	function
getpagesattributes	function	**setomitcidset**	function
getpkresolution	function	**setorigin**	function
getpos	function	**setpageattributes**	overloaded function
getretval	function	**setpageresources**	overloaded function
getsuppressoptionalinfo	function	**setpagesattributes**	overloaded function
getthreadmargin	function	**setpkresolution**	function
gettrailer	function	**setsuppressoptionalinfo**	function
gettrailerid	function	**setthreadmargin**	function
getversion	function	**settrailer**	overloaded function
getvpos	function	**settrailerid**	overloaded function
getxformattributes	function	**setxformattributes**	function
getxformmargin	function	**setxformmargin**	function
getxformresources	function		

setxformresources	function
xformname	function

pdfscanner (context)

scan function

physics (context)

units table   D tables

    F registerunit

publications (context)

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

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

lastofrange	function		F refman	
lists	table		F registercleaner	
F collectentries			F xml	
F combiinlist		**loadreplacementfile**	function
F fetchentries		**new**	function
F filterall		**okay**	function
F flushcombi		**oneorrange**	function
F flushentry		**parenttag**	function
F flushtag		**permitted**	function
T methods		**refman_to_btx**	function
F dataset		**resolvedname**	function
F force		**save**	function
F global		**search**	function
F local		**setcategory**	function
F nofregistered		**setspecification**	function
F prepareentries		**singularorplural**	function
F register		**sortedentries**	function
F sameasprevious		**sortmethods**	table
T sorters		T authoryear	
F cite		T sequence	
F dataset		**specifications**	table
F default		T default	
F index		S author	
F list		S comment	
F reference		S copyright	
F short		S name	
F used		S version	
F uservariable		D virtual	
listvariants	table	**splitauthor**	function
F default		**splitoneauthor**	function
F index		**statistics**	table
F num		N nofbytes	
F short		N nofdatasets	
F tag		N nofdefinitions	
load	function	N nofshortcuts	
loadbibdata	function	**tables**	table
loaddefinitionfile	function	D implicits	
loaders	table	D origins	
F bbl		D privates	
F bib		D sets	
F buffer		D specials	
F endnote		D types	
F json		D virtuals	
F lua		**tags**	function

tracers	table		F author	
F showdatasetauthors			F string	
F showdatasetcompleteness		**usedataset**		function
F showdatasetfields		**usedentries**		function
F showentry		**writers**		table
F showfields		F author	
F showhashedauthors		F keyword	
F showtables		F pagenumber	
F showvariants		F range	
typesetters	table			

regimes (context)

backmapping	data table	**mapping**	data table
cleanup	function	**pop**	function
disable	function	**process**	function
enable	function	**push**	function
fromregime	function	**toregime**	function
list	function	**translate**	function

resolvers (context)

allprefixes	function	**findpath**	function
appendhash	function	**findtexfile**	function
automount	function	**findwildcardfile**	function
automounted	table	**findwildcardfiles**	function
booleanvariable	function	**formatofsuffix**	function
cacheversion	string	**formatofvariable**	function
checkedvariable	function	**formats**	data table
cleanedpathlist	function	**foundintree**	function
cleanpath	function	**foundintrees**	function
cleanpathlist	function	**generators**	data table
concatinators	data table	**get_from_content**	function
configbanner	string	**getenv**	function
configurationfiles	function	**getextrapaths**	function
criticalvars	data table	**getfilehashes**	function
dangerous	data table	**gethashes**	function
datastate	function	**getownpath**	function
defaultsuffixes	table	**getreadfilename**	function
dowithfilesandreport	function	**hashers**	data table
dowithfilesintree	function	**homedir**	string
dowithpath	function	**initialized**	function
dowithvariable	function	**inputstack**	table
env	function	**installinputfilehandler**	function
executers	table	**installinputlinehandler**	function
expandbraces	function	**jobpath**	function
expandedpathfromlist	function	**jobs**	table
expandedpathlist	function	F currentcomponent	
expandedpathlistfromvariable	function	F currentenvironment	
expandpath	function	F currentproduct	
expandpathfromvariable	function	F currentproject	
expansion	function	F justacomponent	
extendtexmfvariable	function	D processors	
filtered_from_content	function	F productcomponent	
~~**find_file**~~	~~function~~	F usefile	
~~**find_files**~~	~~function~~	**joinpath**	function
findbinfile	function	**knownvariables**	function
findctxfile	function	**load**	function
finders	data table	**loadbinfile**	function
findfile	function	**loaders**	data table
findfiles	function	**loadlualib**	function
findgivenfile	function	**loadtexfile**	function
findgivenfiles	function	**loadtime**	function

locateformat	function	**savers**	data table
locators	data table	**scandata**	function
luacnffallback	string	**scanfiles**	function
luacnfname	string	**schemes**	table
luacnfspec	string	T cleaners	
luacnfstate	string	F md5	
macros	table	F none	
F convertfile		F strip	
F decodecomment		F cleanname	
F enablecomment		F fetchstring	
F encodecomment		F fetchtable	
F preprocessed		F install	
F processmk		**setdynamic**	function
F processmkvi		**setenv**	function
F version		**setmemstream**	function
maxreadlevel	number	**showpath**	function
methodhandler	function	**simplescanfiles**	function
openbinfile	function	**splitconfigurationpath**	function
openers	data table	**splitexpansions**	function
openfile	function	**splitmethod**	function
opentexfile	function	**splitpath**	function
ownpath	string	**stackpath**	function
popextrapath	function	**starttiming**	function
poppath	function	**stoptiming**	function
prefixes	data table	**suffixes**	data table
prependhash	function	**suffixmap**	data table
pushextrapath	function	**suffixofformat**	function
pushpath	function	**texdatablob**	function
registerextrapath	function	**toppath**	function
registerfile	function	**unexpandedpath**	function
registerfilehash	function	**unexpandedpathlist**	function
registerintrees	function	**unresolve**	function
registermethod	function	**updaterelations**	function
registerzipfile	function	**updatescript**	function
relations	data table	**uselibrary**	function
renew	function	**usertypes**	data table
renewcache	function	**usezipfile**	function
repath	function	**validatedpath**	function
reset	function	**variable**	function
resetextrapaths	function	**variableofformat**	function
resetmemstream	function	**variableofformatorsuffix**	function
resetresolve	function	**wildcardpattern**	function
resolve	function		

sandbox (context)

disablelibraries	function	**possiblepath**	function
disablerunners	function	**redefine**	function
enable	function	**register**	function
filehandlerone	function	**registerbinary**	function
filehandlertwo	function	**registerlibrary**	function
finalizer	function	**registerroot**	function
getrunner	function	**registerrunner**	function
initializer	function	**report**	function
iohandler	function	**setfilenamelogger**	function
logcalls	function	**setlogger**	function
logfiles	function	**setreporter**	function
original	function	**settrace**	function
overload	function	**validfilename**	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

sio (context)

read2dot14	function	**readfixed2**	function
readbytes	function	**readfixed4**	function
readbytetable	function	**readinteger1**	function
readcardinal1	function	**readinteger2**	function
readcardinal2	function	**readinteger3**	function
readcardinal3	function	**readinteger4**	function
readcardinal4	function		

socket (extra lua)

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

S proxy-authenticate		F b64	
S proxy-authorization		F decode	
S range		T decodet	
S received		F base64	
S received-from-mta		F quoted-printable	
S references		F dot	
S referer		F encode	
S remote-mta		T encodet	
S reply-to		F base64	
S reporting-mta		F quoted-printable	
S resent-bcc		F eol	
S resent-cc		F normalize	
S resent-date		F qp	
S resent-from		F qpwrp	
S resent-message-id		F stuff	
S resent-reply-to		F unb64	
S resent-sender		F unqp	
S resent-to		F wrap	
S retry-after		T wrapt	
S return-path		F base64	
S sender		F default	
S server		F quoted-printable	
S smtp-remote-recipient		F text	
S status		F wrp	

newtry   function
protect   function
select   function
sink   function
sinkt   table

S subject	
S te	
S to	
S trailer	
S transfer-encoding	
S upgrade	
S user-agent	

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

skip   function
sleep   function
smtp   table

S vary	
S via	
S warning	
S will-retry-until	
S www-authenticate	
S x-mailer	

http   table

    N TIMEOUT
    S USERAGENT
    F genericform
    F open
    F request

mime   table

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

source	function		**try**	function
sourcet	table		**udp**	function
F by-length			**udp4**	function
F default			**udp6**	function
F http-chunked			**url**	table
F until-closed			F absolute	
tcp	function		F build	
tcp4	function		F build_path	
tcp6	function		F escape	
tp	table		F parse	
N TIMEOUT			F parse_path	
F connect			F unescape	

sorters (context)

basicsorter   function
comparers   table
  F basic
constants   table
  S defaultdigits
  S defaultlanguage
  S defaultmethod
  N digitsmaximum
  N digitsoffset
  N ignoredoffset
  N replacementoffset
  T validmethods
   B ch
   B mc
   B mm
   B pc
   B pm
   B uc
   B zc
   B zm

definitions   data table
firstofsplit   function
packch   function
packuc   function
replacementlist function
setlanguage   function
sort   function
splitters   table
  F utf
strip   function
tracers   data table
update   function

statistics (context)

callbacks	function		**register**	function
checkfmtstatus	function		**resettiming**	function
currenttime	function		**runtime**	function
elapsed	function		**savefmtstatus**	function
elapsedindeed	function		**show**	function
elapsedseconds	function		**starttiming**	function
elapsedtime	function		**stoptiming**	function
enable	boolean		**threshold**	number
formatruntime	function		**timed**	function
hastiming	function		**tracefunction**	function
memused	function			

status (basic tex)

list   function   **setexitcode**   function
resetmessages function

storage (context)

allocate	function	**noftables**	number
data	table	**register**	function
mark	function	**shared**	data table
marked	function	**storedfunctions**	data table
max	number	**strip**	boolean
min	number	**tofmodules**	number
nofmodules	number	**toftables**	number

streams (context)

collect	function	**push**	function
disable	function	**start**	function
enable	function	**stop**	function
flush	function	**synchronize**	function
initialize	function		

string (basic lua)

autodouble	function		**quote**	function
autosingle	function		**quoted**	function
booleanstring	function		**rep**	function
byte	function		**replacenewlines**	function
bytepairs	function		**reverse**	function
bytes	function		**split**	function
bytetable	function		**splitlines**	function
char	function		**splitup**	function
characterpairs	function		**strip**	function
characters	function		**sub**	function
checkedsplit	function		**tformat**	function
collapsespaces	function		**toHEX**	function
containsws	function		**toboolean**	function
count	function		**tobytes**	function
dump	function		**tocontext**	function
escapedpattern	function		**todec**	function
explode	function		**todimen**	function
find	function		**tohex**	function
format	function		**tonodes**	function
formatter	function		**topattern**	function
formatters	function		**totable**	function
fullstrip	function		**toutf**	function
gmatch	function		**tracedchar**	function
gsub	function		**tracedchars**	table
is_boolean	function		**unpack**	function
is_empty	function		**unquote**	function
itself	function		**unquoted**	function
len	function		**upper**	function
limit	function		**utfcharacter**	function
longtostring	function		**utfcharacters**	function
lower	function		**utflength**	function
match	function		**utfpadd**	function
nospaces	function		**utfpadding**	function
nspaces	table		**utfvalue**	function
optionalquoted	function		**utfvalues**	function
pack	function		**valid**	function
packsize	function			

structures (context)

atlocation   function
blocks   table
     D collected
     F define
     F print
     F save
     F select
     F setstate
     D states
     D tobesaved
bookmarks   table
     T extras
       F get
       F mergesections
       F register
       F reset
       F tosections
     F finalize
     F flatten
     F installhandler
     F merge
     S method
     F overload
     F place
     F register
     F setup
counters   table
     F add
     F analyze
     F check
     D collected
     F compact
     F converted
     F currentvalue
     D data
     F define
     F first
     F get
     F last
     F next
     F prev

     F previous
     F raw
     F record
     F reset
     F restart
     F restore
     F save
     F set
     F setlevel
     F setoffset
     F setown
     F setstate
     F setvalue
     T specials
       F userpage
     F subs
     D tobesaved
     F value
     F way
currentsectionnumber   function
descriptions   table
documents   table
     D data
     F initialize
     F preset
     F reset
floats   table
formulas   table
helpers   table
     F analyze
     F formulanumber
     F merged
     F page
     F pageofinternal
     F prefix
     F prefixlastpage
     F prefixpage
     F simplify
     F title
     F touserdata
inserts   table

D	data	F	savedlistnumber
F	define	F	savedlistprefixednumber
F	getdata	F	savedlisttitle
F	getlocation	D	sectionblocks
F	getname	F	sectionnumber
F	getnumber	F	size
F	setlocation	F	title
F	setup	D	tobesaved
D	stored	F	userdata

itemgroups	table	F	uservalue
lists	table	**marks**	table
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	formulanumber	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	**notes**	table
D	names	F	check_spacing
F	number	F	checkpagechange
D	ordered	F	define
F	page	F	doifonsamepageasprevious
F	popnesting	F	get
F	prefix	F	getdeltapage
F	prefixednumber	F	getinternal
F	prefixedpage	F	getn
F	process	F	getstate
D	pushed	F	hascontent
F	pushnesting	F	internal
F	realpage	F	internalid
F	reordered	F	listindex
T	result	T	numbers

F	save	F	resetused
T	sectionblockdata	F	sort
T	bodypart	F	synonym
S	bookmark	D	tobesaved
F	set	**tags**	**table**
F	setblock	F	elementtag
F	setchecker	F	finishexport
F	setentry	F	getid
F	setinitialblock	F	getmetadata
F	setlevel	F	handler
F	setnumber	F	initializeexport
F	structuredata	D	labels
F	title	F	last
D	tobesaved	F	lastinchain
F	typesetnumber	F	locatedtag
F	userdata	T	patterns
B	verbose	U	splitter
sets	**table**	D	properties
F	define	F	registermetadata
F	get	F	restart
F	getall	F	setaspect
D	setlist	F	setattributehash
specials	**table**	F	setcombination
D	collected	F	setconstruct
F	retrieve	F	setfigure
F	store	F	setfloat
D	tobesaved	F	sethighlight
synonyms	**table**	F	setitem
F	analyzed	F	setitemgroup
D	collected	F	setlist
F	compare	F	setnotation
F	define	F	setnotationsymbol
F	filter	F	setproperty
F	finalize	F	setregister
F	flush	F	setsorting
F	isshown	F	setsynonym
F	isused	F	settablecell
F	meaning	F	settabulatecell
F	prepare	F	settagdelimitedsymbol
F	process	F	settagsubsentencesymbol
F	register	F	setupexport
F	registershown	F	setuserproperties
F	registerused	D	specifications
F	resetshown	F	start

F stop   T usewithcare

F strip   T images

D taglist

table (basic lua)

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

tex (basic tex)

attribute	table	**getmuglue**	function
badness	function	**getmuskip**	function
box	table	**getnest**	function
catcode	table	**getpagestate**	function
conditionals	data table	**getsfcode**	function
constants	data table	**getskip**	function
count	table	**gettoks**	function
cprint	function	**getuccode**	function
ctdcatcodes	number	**glue**	table
ctxcatcodes	number	**hashtokens**	function
definefont	function	**ifs**	data table
delcode	table	**inicatcodes**	number
dimen	table	**init_rand**	function
directives	data table	**isattribute**	function
enableprimitives	function	**isbox**	function
error	function	**iscount**	overloaded function
extraprimitives	function	**isdefined**	function
finish	function	**isdimen**	overloaded function
fontidentifier	function	**ismuskip**	overloaded function
fontname	function	**isskip**	overloaded function
force_synctex_line	function	**istoken**	function
force_synctex_tag	function	**istoks**	function
fprint	function	**lccode**	table
get	function	**linebreak**	function
get_synctex_line	function	**lists**	table
get_synctex_mode	function	**lua_math_random**	function
get_synctex_tag	function	**lua_math_randomseed**	function
getattribute	function	**luacatcodes**	number
getbox	function	**mathcode**	table
getboxresourcedimensions	function	**modes**	data table
getcatcode	function	**muglue**	table
getcount	function	**muskip**	table
getdelcode	function	**nest**	table
getdelcodes	function	**nilcatcodes**	number
getdimen	function	**normal_rand**	function
getglue	function	**notcatcodes**	number
getlccode	function	**number**	function
getlist	function	**primitives**	function
getmath	function	**print**	function
getmathcode	function	**prtcatcodes**	number
getmathcodes	function	**resetparagraph**	function

romannumeral	function	**settoks**	function
round	function	**setuccode**	function
run	function	**sfcode**	table
saveboxresource	function	**shipout**	function
scale	function	**show_context**	function
scantoks	function	**skip**	table
set	function	**sp**	function
set_synctex_line	function	**splitbox**	function
set_synctex_mode	function	**sprint**	function
set_synctex_no_files	function	**systemmodes**	data table
set_synctex_tag	function	**takebox**	function
setattribute	function	**texcatcodes**	number
setbox	function	**toks**	table
setcatcode	function	**tpacatcodes**	number
setcount	function	**tpbcatcodes**	number
setdelcode	function	**tprint**	function
setdimen	function	**trackers**	data table
setglue	function	**triggerbuildpage**	function
setlccode	function	**txtcatcodes**	number
setlist	function	**type**	function
setmath	function	**uccode**	table
setmathcode	function	**uniform_rand**	function
setmuglue	function	**uniformdeviate**	function
setmuskip	function	**uprint**	function
setnest	function	**useboxresource**	function
setsfcode	function	**vrbcatcodes**	number
setskip	function	**write**	function

texconfig (basic tex)

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

texio (basic tex)

closeinput function   **write** function
setescape function   **write_nl** function

token (basic tex)

create	function	**scan_argument**	function
get_active	function	**scan_code**	function
get_cmdname	function	**scan_csname**	function
get_command	function	**scan_dimen**	function
get_csname	function	**scan_glue**	function
get_expandable	function	**scan_int**	function
get_id	function	**scan_keyword**	function
get_index	function	**scan_keyword_cs**	function
get_macro	function	**scan_string**	function
get_meaning	function	**scan_token**	function
get_mode	function	**scan_toks**	function
get_next	function	**scan_word**	function
get_protected	function	**set_char**	function
get_tok	function	**set_macro**	function
is_token	function	**type**	function
put_next	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
constant function
converters table
  S toboolean
  S todimen
  S toglue
  S tonumber
  S tostring

defined function
egroup userdata
getters table
  F box
  F count
  F dimen
  F glue
  F macro
  F meaning
  F skip
  F token
hbox userdata
istoken function
letter function
letters function
other function
pickup function
printlist function
scanners table
  F argument
  F boolean
  F code
  F conditional
  F count
  F csname
  F dimen
  F dimension
  F glue
  F integer
  F keyword
  F keywordcs
  F list
  F lxmlid
  F number
  F scanclose
  F scanopen
  F skip
  F string
  F token
  F tokens
  F toks

F word		F scankeyword
scantable function		F scankeywordcs
setters table		F scanlist
F box		T scanners
F char		F argument
F count		F boolean
F dimen		F code
F glue		F conditional
F macro		F count
F skip		F csname
shortcuts table		F dimen
T bits		F dimension
N active		F glue
N alignment		F integer
N begingroup		F keyword
N character		F keywordcs
N close		F list
N comment		F lxmlid
N endgroup		F number
N endofline		F scanclose
N escape		F scanopen
N ignore		F skip
N invalid		F string
N letter		F token
N mathshift		F tokens
N open		F toks
N other		F word
N parameter		F scannumber
N space		F scanopen
N subscript		F scanstring
N superscript		F scanword
N whitespace		F toboolean
N close		F todimen
F inspect		T tokens
N open		F astable
F report		U bgroup
F scanboolean		T collectors
F scanclose		F defaultwords
F scancode		F dowithwords
F scanconditional		F flush
F scancsname		F install
F scandimen		F register
F scandimension		F show
F scaninteger		F test

```
F compile                          F macro
F constant                         F skip
T converters                     T shortcuts
  S toboolean                      N close
  S todimen                        F inspect
  S toglue                         N open
  S tonumber                       F report
  S tostring                       F scanboolean
F defined                          F scanclose
U egroup                           F scancode
T getters                          F scanconditional
  F box                            F scancsname
  F count                          F scandimen
  F dimen                          F scandimension
  F glue                           F scaninteger
  F macro                          F scankeyword
  F meaning                        F scankeywordcs
  F skip                           F scanlist
  F token                          F scannumber
U hbox                             F scanopen
F istoken                          F scanstring
F letter                           F scanword
F letters                          F toboolean
F other                            F todimen
F pickup                           F tonumber
F printlist                        F tostring
F scantable                      U vbox
T setters                        U vtop
  F box                          F tonumber
  F char                         F tostring
  F count                 vbox          userdata
  F dimen                 vtop          userdata
  F glue
```

tracers (context)

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

trackers (context)

data	data table	**name**	string
default	function	**register**	function
disable	function	**report**	function
done	table	**reset**	function
dumphashtofile	function	**savehash**	function
enable	function	**show**	function
list	function	**value**	function

typesetters (context)

alignments   table
    F handler
    F set

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

cases   table
    T actions
    F handler
    F register
    F set

characteralign   table
    F handler
    F resetcharacteralign
    F setcharacteralign

characters   table
    F handler
    T methods
    F replacenbsp
    F replacenbspaces

checkers   table
    F handler
    F reset
    F set

cleaners   table
    F handler
    F set

digits   table
    T actions
    F handler
    F set

directions   table
    F getfences
    F getglobal
    F getmethod
    F handler

    T handlers
    F installhandler
    F processmath
    F set
    F setcolor
    F setmath
    F tomode

firstlines   table
    T actions
      F default
      F line
      F word
    F handler
    F set

fontkerns   table
    F handler

initials   table
    T actions
      F default
    F addanchortoline
    F addtoline
    F calculatedelta
    F checkline
    F handler
    F moveinline
    F normalize
    F set

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

italics   table
    F enablemath
    F enabletext
    F forcevariant
    F handler
    F reset
    F set

kerns table

D factors

F handler

F keepligature

B keeptogether

D mapping

F set

manipulators table

F apply

F applyspecification

T methods

  F Word

  F Words

  F abbreviatedjournal

  F expandedjournal

  F lowercase

  F stripperiod

  F uppercase

T patterns

  U list

  U pair

F splitspecification

margins table

F finalhandler

F globalhandler

F localhandler

F save

marksuspects function

paragraphs table

F addanchortoline

F addtoline

F calculatedelta

F checkline

F handler

F moveinline

F normalize

F set

periodkerns table

D factors

F handler

D mapping

F set

processors table

F apply

F register

F reset

F split

F startapply

F stopapply

F stripped

F tostring

rubies table

F attach

F check

showsuspects function

spacings table

F define

F handler

D mapping

T numbers

  T frenchpunctuation

    T characters

    S name

    N number

F reset

F set

F setup

wrappers table

F handler

xtables table

F cleanup

F construct

F create

F finish_row

F flush

F initialize_construct

F initialize_reflow_height

F initialize_reflow_width

F next_row

F reflow_height

F reflow_width

F set_construct

F set_reflow_height

F set_reflow_width

unicode (extra lua)

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

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

latin1   table
- F byte
- F char
- F dump
- F find
- F format
- F gfind
- F gmatch
- F gsub

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

toutf32string function

utf8   table
- F byte
- F char
- F characters
- F chrlen
- F count
- F dump
- F filetype
- F find
- F format
- F gfind
- F gmatch
- F gsub
- F is_valid
- F len
- F length
- F lower
- F magic
- F match
- F remapper
- F rep
- F replacer
- F reverse
- F split
- F splitlines
- F sub
- F subtituter
- F tocodes
- F toeight
- F toentities
- F tostring
- F totable
- F upper

F ustring

F utf16_to_utf8_be

F utf16_to_utf8_be_t

F utf16_to_utf8_le

F utf16_to_utf8_le_t

F utf16_to_utf8_t

F utf32_to_utf8_be

F utf32_to_utf8_be_t

F utf32_to_utf8_le

F utf32_to_utf8_le_t

F utf32_to_utf8_t

F utf8_to_utf16

F utf8_to_utf16_be

F utf8_to_utf16_le

F utf8_to_utf8_t

F values

F xstring

url (context)

addscheme	function	**hashed**	function
barepath	function	**hasscheme**	function
construct	function	**query**	function
decode	function	**split**	function
encode	function	**toquery**	function
escape	function	**unescape**	function
filename	function	**unescapeget**	function

utf8 (context)

char	function		**codes**	function
charpattern	string		**len**	function
codepoint	function		**offset**	function

utilities (context)

debugger   table
- F disable
- F enable
- F savestats
- F showstats
- F showtraceback

files   table
- F close
- F getposition
- F getsize
- F look
- F open
- F read2dot14
- F readbyte
- F readbytes
- F readbytetable
- F readcardinal
- F readcardinal1
- F readcardinal2
- F readcardinal2le
- F readcardinal3
- F readcardinal3le
- F readcardinal4
- F readcardinal4le
- F readchar
- F readfixed2
- F readfixed4
- F readinteger
- F readinteger1
- F readinteger2
- F readinteger2le
- F readinteger3
- F readinteger3le
- F readinteger4
- F readinteger4le
- F readsignedbyte
- F readstring
- F readtag
- F setposition
- F size
- F skip

- F skiplong
- F skipposition
- F skipshort
- F writebyte
- F writecardinal2
- F writecardinal4
- F writestring

formatters   table
- F formatcolumns
- F list
- F stripzeros

garbagecollector   table
- F check
- N criterium
- B enabled

lua   table
- B alwaysstripcode
- F checkmemory
- F compile
- F loadedluacode
- F loadstring
- F loadstripped
- N nofstrippedbytes
- N nofstrippedchunks
- F registerfinalizer
- 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                                    T modern-light,latin-modern-light-designsize,latin-mod
    F simplehashed                              B latin-modern-light
    F strip                                      B latin-modern-light-designsize
    F unpack                                     B modern-light
    N version                                  T modern-mono,modern-base-mono
parsers          table                          B modern-base-mono
    F add_settings_to_array                      B modern-mono
    F arguments_to_table                       T modern-variable,latin-modern-variable-designsize,lat
    F array_to_string                            B latin-modern-variable
    F csvsplitter                                B latin-modern-variable-designsize
    F getparameters                              B modern-variable
    F groupedsplitat                           T modernvariable,modern-variable
    F hash_to_string                             B modern-variable
    T hashes                                     B modernvariable
     T settings_to_set                         T modernvariablelight,modern-variable-light
       T min,max,fit,broad,auto                   B modern-variable-light
         B auto                                    B modernvariablelight
         B broad                                 T serif,sans,mono
         B fit                                     B mono
         B max                                     B sans
         B min                                     B serif
       T modern,latin-modern                    T text,hidden,paper,page,leftpage,rightpage
         B latin-modern                            B hidden
         B modern                                  B leftpage
       T modern,latin-modern,modern-variable,latin-modern-variable,mod Bepage condensed,latin-modern-condensed
         B latin-modern                            B paper
         B latin-modern-condensed                  B rightpage
         B latin-modern-variable                   B text
         B modern                                F iterator
         B modern-condensed                      F keq_to_hash
         B modern-variable                       F listitem
       T modern,latin-modern-designsize,latin-modern    F make_settings_to_hash_pattern
         B latin-modern                          F mergehashes
         B latin-modern-designsize               F options_to_array
         B modern                                F options_to_hash
       T modern,modern-base                      T patterns
         B modern                                U settings_to_array
         B modern-base                           U settings_to_hash_a
       T modern-condensed,latin-modern-condensed-designsize,latin-U settingsden_hash,mdodern-light-condensed,latin-modern-li
         B latin-modern-condensed                U settings_to_hash_c
         B latin-modern-condensed-designsize     U settings_to_hash_d
         B latin-modern-light-condensed          U unittotex
         B modern-condensed                    F process_stripped_settings
         B modern-light-condensed              F rfc4180splitter
```

F runtime	F tostring
F settings_to_array	**setters** table
F settings_to_array_obey_fences	F disable
F settings_to_array_with_repeat	F enable
F settings_to_hash	F initialize
F settings_to_hash_colon_too	F list
F settings_to_hash_strict	F new
F settings_to_hash_tolerant	F register
F settings_to_numbers	F report
F settings_to_set	F reset
F simple_hash_to_string	F show
F splitmethod	**stacker** table
F splitthousands	F new
F stepper	**storage** table
F stripped_settings_to_array	F allocate
F unittotex	F checked
F unittoxml	F mark
randomizer table	F marked
F get	F setinitializer
F getnumber	F sparse
F getseed	**streams** table
F popseed	F close
F pushseed	F getposition
F reuseseed	F look
F setseed	F open
F setseedi	F read2dot14
report function	F read2dot4
sequencers table	F readbyte
F appendaction	F readbytes
F appendgroup	F readbytetable
F compile	F readcardinal
F disableaction	F readcardinal1
F disablegroup	F readcardinal2
F enableaction	F readcardinal2LE
F enablegroup	F readcardinal3
D functions	F readcardinal3le
F localize	F readcardinal4
F new	F readchar
F nodeprocessor	F readfixed2
F prependaction	F readfixed4
F prependgroup	F readinteger
F removeaction	F readinteger1
F replaceaction	F readinteger2
F setkind	F readinteger2le

strings table

F readinteger3
F readinteger3le
F readinteger4
F readinteger4le
F readsignedbyte
F readstring
F setposition
F size
F skip
F skipbytes
F skiplong
F skipshort

strings table

F collapsecrlf
T formatters
  F add
  F new
F newcollector
F newrepeater
F nice
T striplinepatterns
  U collapse
  U prune
  U prune and collapse

U prune and no empty
U retain
U retain and collapse
U retain and no empty
F striplines
F striplong
F tabtospace
T tracers

tables table

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

templates table

F load
F replace
F replacer
F resolve

vf (context)

char	function		**pdf**	function
down	function		**pop**	function
fontid	function		**push**	function
image	function		**right**	function
node	function		**rule**	function
nop	function		**special**	function

visualizers (context)

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

xml (context)

addentitiesdoctype	function	F padding	
addspecialcode	function	F stylevalue	
after	function	F todimension	
all	function	**defaulthandlers**	table
applylpath	function	D file	
applyselector	function	D parsedxml	
assign	function	D string	
attribute	function	D tex	
badinclusions	function	D texline	
before	function	D texspace	
body	function	D verbose	
builtinentities	table	**defaultprotocol**	string
B amp		**delete**	function
B apos		**delete_element**	~~function~~
B gt		**despecialized**	function
B lt		**each**	function
B quot		**each_element**	~~function~~
cdata	function	**elements**	function
cdatatotext	function	**elementtocdata**	function
checkbom	function	**empty**	function
checkerror	function	**entities**	data table
checknamespace	function	**erase**	function
checkns	function	**errorhandler**	function
cleansed	function	**escaped**	function
collect	function	**expressions**	table
collect_elements	~~function~~	F boolean	
collect_tags	function	F child	
collect_texts	~~function~~	F contains	
collected	function	F count	
collecttexts	function	F error	
content	function	F find	
convert	function	F hasclass	
copy	function	F idstring	
count	function	F lower	
cprint	function	F name	
css	table	F number	
F applyselector		F oneof	
F colorspecification		F print	
F dimension		F quit	
F fontspecification		F tag	
F mappedstylevalue		F text	

F undefined	
F upper	
fillin	function
filter	function
finalizers	table
F paragraphs	
T tex	
F all	
F attribute	
F chainattribute	
F chainpath	
F command	
F concat	
F concatrange	
F context	
F count	
F ctxtext	
F default	
F first	
F function	
F index	
F last	
F lettered	
F lower	
F lowerall	
F match	
F name	
F param	
F parameter	
F position	
F reverse	
F stripped	
F tag	
F tags	
F text	
F upper	
F upperall	
F xml	
T xml	
F all	
F att	
F attribute	
F attributes	
F cdata	

F chainattribute	
F count	
F default	
F elements	
F empty	
F first	
F function	
F index	
F last	
F lowerall	
F match	
F name	
F position	
F reverse	
F table	
F tag	
F tags	
F text	
F texts	
F upperall	
first	function
found	function
functions	table
F classes	
F hasclass	
getbuffer	function
gethandlers	function
gethandlersfunction	function
helpers	table
F recursetext	
include	function
inclusion	function
inclusions	function
index	function
inheritedconvert	function
inject	function
~~inject_element~~	~~function~~
~~inject_element_after~~	~~function~~
~~inject_element_before~~	~~function~~
injectafter	function
injectbefore	function
insert	function
insert_element	function
~~insert_element_after~~	~~function~~

insert_element_before	function		**registerns**	function
insertafter	function		**reindex**	function
insertbefore	function		**remap_name**	function
insertcdata	function		**remap_namespace**	function
insertcomment	function		**remap_tag**	function
inspect	function		**remapname**	function
is_valid	function		**remapnamespace**	function
kind	function		**remaptag**	function
last	function		**rename**	function
lastmatch	function		**renamespace**	function
load	function		**reparsedentitypeg**	userdata
lpath	function		**replace**	function
lpathcached	function		**replace_element**	function
lpathcalls	function		**resetinjectors**	function
lshow	function		**resolvens**	function
makestandalone	function		**root**	function
match	function		**save**	function
name	function		**selection**	function
newhandlers	function		**separate**	function
nodesettostring	function		**serialize**	function
originalload	function		**serializetotext**	function
package	function		**setcdata**	function
parent	function		**setcomment**	function
parsedentitypeg	userdata		**sethandlersfunction**	function
pihandlers	table		**setinjectors**	function
F injector			**setproperty**	function
F tex			**settings**	function
placeholders	table		**specialcodes**	table
F unknown_any_entity			S "	
F unknown_dec_entity			S #	
F unknown_hex_entity			S $	
popmatch	function		S %	
position	function		S &	
privatecodes	table		S '	
privatetoken	function		S <	
process	function		S >	
process_attributes	function		S \	
process_elements	function		S {	
processattributes	function		S |	
profiled	table		S }	
pure	function		S ~	
pushmatch	function		**specialhandler**	table
raw	function		**sprint**	function
registerentity	function		**string**	function

strip	function	**toxml**	function
~~strip_whitespace~~	~~function~~	**tprint**	function
stripelement	function	**traverse**	function
stripleadingspaces	function	**unescaped**	function
table	function	**unescapedentitylpeg**	userdata
text	function	**unprivatized**	function
textonly	function	**unspecialized**	function
texttocdata	function	**withelement**	function
tocdata	function	**withelements**	function
toelement	function	**wrap**	function
tostring	function	**xmlns**	table
totable	function		

zip (extra lua)

archives	table	**openarchive**	function
close	function	**openfile**	function
closearchive	function	**registeredfiles**	table
open	overloaded function	**type**	function

zlib (extra lua)

adler32	function		**decompress**	function
compress	function		**decompressobj**	function
compressobj	function		**version**	function
crc32	function			