1 attributes backends bibtex blobs
boolean buffers builders caches
callback callbacks catcodes characters
chemicals commands containers context
converters coroutine debug dir
directives document documentdata
environment epdf experiments figures
file floats font fontloader fonts
global 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 mplib
noads node nodes number os package
parametersets pdf physics profiler
regimes resolvers scripts set socket
sorters statistics status storage
streams string structures table tex
texconfig texio token tokens tracers
trackers typesetters unicode url
utilities visualizers xml zip zlib

ConTeXt MkIV

global (alias: _G)

1	table		io	table
arg	table		ipairs	function
assert	function		job	table
attributes	table		lang	table
backends	table		languages	table
beginpage	function		layouts	table
bibtex	table		lfs	table
blobs	table		libraries	table
boolean	table		lmx	table
buffers	table		load	function
builders	table		loadfile	function
caches	table		loadstring	function
callback	table		logs	table
callbacks	table		lpdf	table
catcodes	table		lpeg	table
characters	table		ltn12	table
chemicals	table		lua	table
collectgarbage	function		luatex	table
commands	table		lxml	table
containers	table		math	table
context	function		mathematics	table
converters	table		md5	table
coroutine	table		metapost	table
debug	table		mime	table
dimen	function		module	function
dir	table		moduledata	table
directives	table		modules	table
document	table		mplib	table
documentdata	table		newline	function
dofile	function		newproxy	function
endpage	function		next	function
environment	table		noads	table
epdf	table		node	table
error	function		nodes	table
experiments	table		number	table
figures	table		os	table
file	table		outputpagestree	function
floats	table		package	table
font	table		pairs	function
fontloader	table		parametersets	table
fonts	table		pcall	function
gcinfo	function		pdf	table
getfenv	function		physics	table
getmetatable	function		print	function
getreadfilename	function		profiler	table
global	table		protect	function
gzip	table		rawequal	function
img	table		rawget	function
inspect	function		rawset	function
interactions	table		regimes	table
interfaces	table		report_characters	function

require	function	tocontext	function
resolvers	table	token	table
scripts	table	tokens	table
select	function	tonumber	function
set	table	tostring	function
setfenv	function	trace_characters	boolean
setmetatable	function	traceback	function
socket	table	tracers	table
sorters	table	trackers	table
statistics	table	type	function
status	table	typesetters	table
storage	table	unicode	table
streams	table	unpack	function
string	table	url	table
stripmath	function	utf	table
structures	table	utilities	table
table	table	visualizers	table
tex	table	xml	table
texconfig	table	xpcall	function
texio	table	zip	table
toboolean	function	zlib	table

attributes (context)

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

colors   table
- N attribute
- F cmyk
- F cmyktogray
- F cmyktorgb
- F colorcomponents
- B couple
- D data
- N default
- F defineintermediatecolor
- F definemixcolor
- F definemultitonecolor
- F defineprocesscolor
- F definesimplegray
- F definespotcolor
- F definetransparency
- F enable
- F filter
- F forcedmodel
- F forcesupport
- F formatcolor
- F formatgray
- F gray
- F graytohsv
- F handler
- F hsvtogray
- F hsvtorgb
- F iccprofile
- F isblack
- N main
- S model
- F mpcolor
- F mpoptions
- U none
- F popset
- F pushset
- F register
- D registered
- F registerspotcolor
- F rgb
- F rgbtocmyk
- F rgbtogray
- F rgbtohsv
- N selector

- F setlist
- F setmodel
- D sets
- F spot
- F spotcolorname
- F spotcolorparent
- F spotcolorvalue
- B supported
- F transparencycomponents
- B triggering
- F usecolors
- F value
- D values
- B weightgray

define   function

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

handlers   table
list   data table
names   data table
negatives   table
- N attribute
- D data
- F enable
- F handler
- F register
- D registered

numbers   data table
ofnode   function
private   function
states   table
- F disabletriggering
- F enabletriggering
- F finalize
- F initialize
- F process
- F selective
- F stacked

transparencies   table
- N attribute
- D data
- F enable
- F forcesupport
- F handler
- U none

```
F register                          F forcesupport
D registered                        F handler
B supported                         B hasorder
B triggering                        D listwise
F value                             F register
D values                            D registered
unsetvalue      number              D scopes
viewerlayers    table               F setfeatures
    N attribute                     F start
    D data                          F stop
    F define                        B supported
    F enable                        D values
```

backends (context)

codeinjections	table
current	string
defaults	table
T codeinjections	
T nodeinjections	
T registrations	
D tables	
install	function
nodeinjections	table
F restore	
F save	
F transform	
nothing	function
pdf	table
T codeinjections	
F addbookmarks	
F addtransparencygroup	
F attachmentid	
F clonefield	
F definefield	
F definefieldset	
F defineviewerlayer	
F embedfile	
F enabletags	
F finalizepage	
F finishreference	
F getdefaultfieldvalue	
F getfieldcategory	
F getfieldset	
F getformatoption	
F getoutputfilename	
F getpreviewfigure	
F insertrenderingwindow	
F mergereferences	
F mergeviewerlayers	
F prerollreference	
F presetsymbol	
F presetsymbollist	
F processrendering	
F registerdocumentcloseaction	
F registerdocumentopenaction	
F registeredsymbol	
F registerpagecloseaction	
F registerpageopenaction	
F registersymbol	
F setfieldcalculationset	
F setfigurealternative	
F setfigurecolorspace	
F setfiguremask	
F setformat	
F setformsmethod	

F setpagetransition
F setupcanvas
F setupidentity
F setxmpfile
F startlayer
F stoplayer
F supportedformats
F useviewerlayer
F validfield
F validfieldcategory
F validfieldset
S comment
T nodeinjections
F addtags
F attachfile
F cmykcolor
F comment
F destination
F effect
F graycolor
F injectbitmap
F insertmovie
F insertsound
F insertswf
F insertu3d
F knockout
F negative
F overprint
F positive
F reference
F rgbcolor
F spotcolor
F startlayer
F stoplayer
F switchlayer
F transparency
F typesetfield
T registrations
F cmykindexcolor
F cmykspotcolor
F getspotcolorreference
F grayindexcolor
F grayspotcolor
F rgbindexcolor
F rgbspotcolor
F spotcolorname
F transparency
T tables
T vfspecials
T black
T blue

```
T gray                          T palegray
T green                         T palegreen
T red                           T palered
T rulecolors                    T red
  T black                       F startslant
  T blue                        T stopslant
  T gray              registrations    table
  T green             tables           table
  T paleblue
```

bibtex (context)

authorref   function
authors   table
    F concat
    F inverted
    F invertedshort
    F normal
    F normalshort
    F setsettings
    F short
authoryearref   function
authoryearsref   function
convert   function
hacks   table
    F add
    F doifalreadyplaced
    F filterall

    F flush
    F nofregistered
    F process
    F register
    F registerplaced
    F reset
    F resolve
load   function
new   function
singularorplural   function
statistics   table
    N nofbytes
    N nofdefinitions
    N nofshortcuts
toxml   function

blobs (context)

append	function		**new**	function
dimensions	function		**pack**	function
dispose	function		**write**	function

boolean (context)

tocontext function
tonumber   function

buffers (context)

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

builders (context)

kernel   table
- F hyphenation
- F kerning
- F ligaturing
- F mlist_to_hlist

paragraphs table
- T constructors
  - N attribute
  - F disable
  - F enable
  - F handler
  - T methods
    - F default
    - F oneline
  - D names
  - D numbers
  - F register
  - F set
- F keeptogether
- F registertogether
- T solutions
  - T splitters
    - F define

- F disable
- F enable
- F optimize
- F setup
- F split
- F tag

vspacing   table
- F analyze
- D categories
- F collapsevbox
- T data
  - D map
  - D skip
  - D snapmethods
- F definesnapmethod
- B fixed
- F pagehandler
- F setmap
- F setskip
- F snapbox
- 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
list   function
register overloaded function

callbacks (context)

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

catcodes (context)

names   data table
numbers   data table
register function

characters (context)

activeoffset	number	**is_mark**	data table
adobename	function	**is_spacing**	data table
bidi	data table	**lcchars**	data table
blocks	data table	**lccode**	function
casemap	table	**lccodes**	data table
categories	data table	**lettered**	function
category	function	**lower**	function
categorytags	data table	**makeactive**	function
combined	data table	**math**	table
contextname	function	**mathpairs**	data table
data	data table	**ranges**	data table
decomposed	data table	**registerentities**	function
define	function	**remap_hangul_syllabe**	function
description	function	**remapentity**	function
descriptions	data table	**setcodes**	function
directions	data table	**shape**	function
enccodes	data table	**shaped**	function
entities	data table	**shchars**	data table
fallbacks	data table	**shcodes**	data table
filters	data table	**specialchars**	data table
flush	function	**specials**	data table
fromnumber	function	**subscripts**	table
fschars	data table	**superscripts**	table
fscodes	data table	**synonyms**	data table
getrange	function	**tex**	table
graphemes	data table	D accentmapping	
hangul	table	F defineaccents	
F decomposed		F toutf	
F description		**tonumber**	function
F leadconsonant		**ucchars**	data table
T remapped		**uccode**	function
initialize	function	**uccodes**	data table
is_character	data table	**unicodechar**	function
is_command	data table	**upper**	function
is_letter	data table		

chemicals (context)

component	function	**moleculeparser**	userdata
define	function	**start**	function
format	string	**stop**	function
inline	function	**structures**	number
instance	string	**undefine**	function
molecule	function		

commands (context)

Alphabetic	function	colorcomponents	function
Character	function	consultfloat	function
Characters	function	copyfiletolog	function
MPd	function	copyposition	function
MPh	function	counttwopassdata	function
MPll	function	currentcomponent	function
MPlr	function	currentdate	function
MPp	function	currentenvironment	function
MPplus	function	currentproduct	function
MPpos	function	currentproject	function
MPrest	function	currentregime	function
MPul	function	dayname	function
MPur	function	defineattribute	function
MPw	function	definebibtexsession	function
MPx	function	defineconversion	function
MPxy	function	definedviewerlayer	function
MPy	function	definefield	function
Romannumerals	function	definefieldset	function
abjadnodotnumerals	function	definefilefallback	function
abjadnumerals	function	definefilesynonym	function
addff	function	definefont_one	function
addfs	function	definefont_two	function
addlinklistelement	function	definefontfeature	function
addstructurecounter	function	defineintermediatecolor	function
addtojavascriptpreamble	function	definelinkedlist	function
allinputpaths	function	definemarking	function
alphabetic	function	definemultitonecolor	function
analysefloatmethod	function	defineparallel	function
applytochars	function	defineprocesscolor	function
applytowords	function	definespotcolor	function
assignbuffer	function	definestructureblock	function
autofinishstructurelevels	function	definestructurecounter	function
autonextspace	function	definestructureset	function
autonextstructurelevel	function	definetransparency	function
autosetups	function	definetwopasslist	function
autostarttext	function	defineviewerlayer	function
autostoptext	function	defrostrandomseed	function
boolcase	function	digits	function
character	function	disableregime	function
characters	function	disablespellchecking	function
checkcharactersinfont	function	doanalyzeframedbox	function
checkedconversion	function	doif	function
checkedpagefloat	function	doifblackelse	function
checktwopassdata	function	doifcommonelse	function
chineseallnumerals	function	doifdimenstringelse	function
chinesecapnumerals	function	doifdrawingblackelse	function
chinesenumerals	function	doifelse	function
cleanfontname	function	doifelsebuffer	function
clonefield	function	doifelsecurrentfonthasfeature	function
collectfloat	function	doifelseintwopassdata	function
collecthelp	function	doifelsemarking	function

doifelseparallel	function	fontcollectionprepare	function
doifelsesavedfloat	function	fontcollectionregister	function
doifelsespaces	function	fontcollectionreport	function
doifelsestructurecounter	function	fontcollectionreset	function
doifelsevisualizer	function	fontlookupgetkey	function
doiffieldcategoryelse	function	fontlookupgetkeyofindex	function
doiffieldelse	function	fontlookupinitialize	function
doiffieldsetelse	function	fontlookupnoffound	function
doiffiledefinedelse	function	forceendjob	function
doiffileexistelse	function	forcequitjob	function
doiffirstcharelse	function	format	function
doifinputfileelse	function	formatcolor	function
doifinsetelse	function	formatgray	function
doifleapyearelse	function	freezerandomseed	function
doiflocfileelse	function	getbuffer	function
doifnot	function	getbufferctxlua	function
doifnotstructurecounter	function	getbuffermkvi	function
doifolderversionelse	function	getdefaultfieldvalue	function
doifoverlappingelse	function	getfieldcategory	function
doifparentfileelse	function	getfirstcharacter	function
doifpositionelse	function	getfirsttwopassdata	function
doifpositionsonsamepageelse	function	getfloatvariable	function
doifpositionsonthispageelse	function	getlasttwopassdata	function
doifstructurecounter	function	getmarking	function
doifurldefinedelse	function	getprivateattribute	function
doprocesstypescriptfile	function	getprivatechar	function
doreshapeframedbox	function	getrandomcounta	function
dostarttextfile	function	getrandomcountb	function
dostoptextfile	function	getrandomseed	function
elapsedtime	function	getreadfilename	function
enablecolor	function	gettexbuffer	function
enablecolorintents	function	gettwopassdata	function
enablefontcolorschemes	function	gettwopassdatalist	function
enableregime	function	geturl	function
enablespellchecking	function	grabbuffer	function
enabletransparency	function	helpaction	function
enhancelinkedlist	function	helpreference	function
erasebuffer	function	hexstringtonumber	function
featureattribute	function	hour	function
featurelist	function	hyphenatedlist	function
feedback	function	hyphenatedurl	function
fetchallmarks	function	D characters	
fetchonemark	function	N lefthyphenmin	
fetchtwomarks	function	D mapping	
filterreference	function	N righthyphenmin	
finalizebox	function	F setcharacters	
findtwopassdata	function	incrementedstructurecounter	function
firstinlist	function	insertattachment	function
firststructurecounter	function	insertcomment	function
flushfloat	function	insertfield	function
flushpostponedblocks	function	insertrenderingwindow	function
fontchar	function	insertsoundclip	function
fontcollectionclone	function	isleapyear	function
fontcollectiondefine	function	languagenumber	function

laststructurecounter	function	referencepagestate	function
lchexnumber	function	referencerealpage	function
lchexnumbers	function	registerattachment	function
leapyear	function	registerbibtexentry	function
loadctxpreplist	function	registerbibtexfile	function
loadexamodes	function	registerbookmark	function
loadfontgoodies	function	registerbuttons	function
loadspellchecklist	function	registercolor	function
loadvisualizer	function	registercolorintent	function
locatefilepath	function	registeredviewerlayer	function
locfilename	function	registerhelp	function
maxitemwidth	function	registeritemgroup	function
minute	function	registermaintextcolor	function
molecule	function	registernamespace	function
month	function	registerpostponedblock	function
monthmnem	function	registersoundclip	function
monthname	function	registerstructureprocessor	function
mpcolor	function	registertransparency	function
mpoptions	function	registerunit	function
namedstructureuservariable	function	relatemarking	function
namedstructurevariable	function	removemissingcharacters	function
nbfs	function	replacemissingcharacters	function
nextparallel	function	replacepospxywhd	function
nextstructurecounter	function	resaustfloat	function
nofdays	function	resetfontfeature	function
nofitems	function	resetmarking	function
nofstackedfloats	function	resetmathitalics	function
number	function	resetnullfont	function
octnumber	function	resetparallel	function
octstringtonumber	function	resetstructurecounter	function
ordinal	function	resetstructureprocessor	function
overloadbookmark	function	resettimer	function
pdfrotation	function	restartstructurecounter	function
percentageof	function	restorecurrentattributes	function
placeparallel	function	restorestructurecounter	function
popfloat	function	romannumerals	function
popitaliccorrection	function	runbuffer	function
prepareMPvariable	function	savebuffer	function
preparebibtexsession	function	savecurrentattributes	function
preparedfile	function	savefloat	function
presetsymbollist	function	saveparallel	function
presettabulate	function	savestructureblock	function
prevstructurecounter	function	savestructurecounter	function
processbuffer	function	savetaggedtwopassdata	function
processedfile	function	savetwopassdata	function
processedfiles	function	second	function
processfile	function	selectstructureblock	function
processfilemany	function	setclosedocumentaction	function
processfilenone	function	setclosepageaction	function
processfileonce	function	setcolormodel	function
pushfloat	function	setfontfeature	function
pushitaliccorrection	function	setfontofid	function
rawcharacter	function	setformat	function
rawdate	function	setformsmethod	function

setmarking	function	stopenvironment	function
setmathalphabet	function	stopproduct	function
setmathalternate	function	stopproject	function
setmathattribute	function	stopregime	function
setmathitalics	function	stoptag	function
setmathstyle	function	stoptext	function
setopendocumentaction	function	stopviewerlayer	function
setopenpageaction	function	storejavascriptcode	function
setownstructurecounter	function	storejavascriptpreamble	function
setpagetransition	function	structureautocatcodedget	function
setrandomseed	function	structurecatcodedget	function
setrealign	function	structurecountersubs	function
setreferencearguments	function	structurecountervalue	function
setreferenceoperation	function	structuregivencatcodedget	function
setstructureblockstate	function	structurenumber	function
setstructurecounter	function	structuretitle	function
settagcombination	function	structureuservariable	function
settagdescription	function	structurevariable	function
settagdescriptionsymbol	function	subff	function
settagfigure	function	subfs	function
settaghighlight	function	synchronizemarking	function
settagitemgroup	function	taggedmathfunction	function
settagproperty	function	testcase	function
settagsorting	function	textime	function
settagsynonym	function	transparencycomponents	function
settagtablecell	function	triggereffect	function
settagtabulatecell	function	triggernegative	function
setupbookmarks	function	truefilename	function
setupcanvas	function	typebuffer	function
setupexport	function	typefile	function
setupfontexpansion	function	typestring	function
setupfontprotrusion	function	uchexnumber	function
setupidentity	function	uchexnumbers	function
setupitaliccorrection	function	unicodechar	function
setxmpfile	function	unit	function
showchardata	function	updatefilenames	function
showfontparameters	function	useMPlibrary	function
showhyphenatedinlist	function	useanyfile	function
showstructurecounter	function	usecldfile	function
splitfilename	function	usecolors	function
spotcolorname	function	usecomponent	function
spotcolorparent	function	useenvironment	function
spotcolorvalue	function	usefile	function
startcolorset	function	usejavascriptpreamble	function
startcomponent	function	usejavascriptscripts	function
startenvironment	function	uselibrary	function
startproduct	function	useluafile	function
startproject	function	usemodules	function
startregime	function	usepath	function
starttag	function	useproduct	function
starttext	function	useproject	function
startviewerlayer	function	usesubpath	function
stopcolorset	function	usesymbols	function
stopcomponent	function	usetexfile	function

useurl	function	**x_table_flush**	function
usexmlfile	function	**x_table_init_construct**	function
usezipfile	function	**x_table_init_reflow_height**	function
utfchar	function	**x_table_init_reflow_width**	function
weekday	function	**x_table_next_row**	function
weekdayname	function	**x_table_reflow_height**	function
widthofstring	function	**x_table_reflow_width**	function
writestatus	function	**x_table_set_construct**	function
x_table_cleanup	function	**x_table_set_reflow_height**	function
x_table_construct	function	**x_table_set_reflow_width**	function
x_table_create	function	**year**	function

containers (context)

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

converters (context)

Alphabetic	function	leapyear	function
Character	function	maxchrs	function
Characters	function	minute	function
Romannumerals	function	month	function
abjadnodotnumerals	function	nofdays	function
abjadnumerals	function	number	function
alphabetic	function	octnumber	function
character	function	octstringtonumber	function
characters	function	ordinal	function
chineseallnumerals	function	rawcharacter	function
chinesecapnumerals	function	romannumerals	function
chinesenumerals	function	second	function
chr	function	sequences	data table
chrs	function	textime	function
convert	function	toabjad	function
define	function	tochinese	function
hexstringtonumber	function	toroman	function
hour	function	uchexnumber	function
isleapyear	function	uchexnumbers	function
lchexnumber	function	weekday	function
lchexnumbers	function	year	function

coroutine (basic lua)

coco	boolean		**running**	function
create	function		**status**	function
cstacksize	function		**wrap**	function
resume	function		**yield**	function

debug (basic lua)

debug	function	**getupvalue**	function
getfenv	function	**setfenv**	function
gethook	function	**sethook**	function
getinfo	function	**setlocal**	function
getlocal	function	**setmetatable**	function
getmetatable	function	**setupvalue**	function
getregistry	function	**traceback**	function

dir (context)

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

dir (context)

directives (context)

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

document (context)

arguments	data table	**setargument**	function
files	table	**setdefaultargument**	function
getargument	function	**setfilename**	function
getfilename	function		

environment (context)

argument	function	**luafile**	function
arguments	data table	**luafilechunk**	function
engineflags	data table	**originalarguments**	data table
files	table	**outputfilename**	string
filesynonyms	data table	**ownbin**	string
homedir	string	**ownname**	string
initex	boolean	**ownpath**	string
initializearguments	function	**rawarguments**	data table
inputfilebarename	string	**reconstructcommandline**	function
inputfilename	string	**setargument**	function
inputfilesuffix	string	**splitarguments**	function
jobfilename	string	**texfile**	function
jobfilesuffix	string	**texmfos**	string
loadedluacode	function	**texos**	string
loadluafile	function	**texroot**	string

epdf (extra tex)

Annot	function	**Object**	function
Annots	function	**PDFRectangle**	function
Array	function	**open**	function
Dict	function	**type**	function

experiments (context)

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

figures (context)

applyratio	function		**hash**	function
bases	table		**identifiers**	data table
B enabled			**identify**	function
F find			**include**	function
T found			**includers**	data table
T list			**initialize**	function
F locate			**loaded**	data table
F use			**localpaths**	data table
T used			**mergegoodies**	function
bitmapimage	function		**nofprocessed**	number
boxnumber	number		**order**	data table
cachepaths	data table		**paths**	data table
check	function		**patterns**	data table
checkers	data table		**pop**	function
converters	data table		**preferquality**	boolean
current	function		**programs**	data table
defaultdepth	number		**push**	function
defaultheight	number		**registerpattern**	function
defaultsearch	boolean		**registerresource**	function
defaultwidth	number		**registersuffix**	function
done	function		**resources**	data table
dummy	function		**scale**	function
existers	data table		**setlookups**	function
exists	function		**setpaths**	function
formats	data table		**suffixes**	data table
found	data table		**tprint**	function
get	function		**used**	data table

file (basic lua)

addsuffix	function	joinpath	function
basename	function	loadchecksum	function
checksum	function	nameonly	function
collapsepath	function	nametotable	function
copy	function	needs_updating	function
dirname	function	readdata	function
expandname	function	removesuffix	function
extname	function	replacesuffix	function
is_qualified_path	function	robustname	function
is_readable	function	savechecksum	function
is_rootbased_path	function	savedata	function
is_writable	function	splitname	function
isreadable	function	splitpath	function
iswritable	function	strip	function
join	function	suffix	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

font (basic tex)

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

fontloader (extra tex)

apply_afmfile	function	**info**	function
apply_featurefile	function	**open**	function
close	function	**to_table**	function
fields	function	**totable**	function
fullinfo	function		

fontloader (extra tex)

fonts (context)

analyzers   table
- D initializers
- D methods
- F setstate
- B useunicodemarks

checkers   table
- F missing

cid   table
- F getmap
- F loadfile

collections   table
- F clonevector
- F define
- T definitions
- F prepare
- F process
- F registermain
- F report
- F reset
- T vectors

constructors   table
- F applymanipulators
- F assignmathparameters
- B autocleanup
- D cache
- F calculatescale
- F checkedfeatures
- F checkedfilename
- F cleanuptable
- F collectprocessors
- D designsizes
- D dontembed
- F enhanceparameters
- N factor
- F finalize
- F getfeatureaction
- F hashfeatures
- F hashinstance
- T hashmethods
  - F normal
  - F virtual
- F initializefeatures
- T keys
  - T character
    - S depth
    - S height
    - S italic
    - S width
  - T description
    - T boundingbox
    - S depth

- S height
- S width

T parameters
- S ascender
- S descender
- S designsize
- T expansion
  - S auto
  - S shrink
  - S step
  - S stretch
- S extendfactor
- S factor
- S hfactor
- S mathsize
- T protrusion
  - S auto
- S quad
- S scaledpoints
- S scriptpercentage
- S scriptscriptpercentage
- S size
- S slantfactor
- S slantperpoint
- T spacing
  - S extra
  - S shrink
  - S stretch
  - S width
- T synonyms
  - S em
  - S ex
  - S extra_space
  - S extraspace
  - S slant
  - S space
  - S space_shrink
  - S space_stretch
  - S spaceshrink
  - S spacestretch
  - S x_height
- S units
- S vfactor
- S xheight

T properties
- S autoitalicamount
- T cidinfo
- S embedding
- S encodingbytes
- S filename
- S finalized

```
         S fontname                          encodings      table
         S format                                T agl
         S fullname                              D cache
         S hasitalics                            F is_known
         S hasmath                               D known
         S mathitalics                           F load
         S mode                                  F make_unicode_vector
         S name                                  D math
         S noglyphnames                          N version
         S nostackmath                   expansions      data table
         S psname                        formats         data table
         S textitalics                   goodies         table
         S virtualized                           T colorschemes
      D loadedfonts                                 F coloring
      T mathactions                                 T data
      S namemode                                    F enable
      F newfeatures                              F getcompositions
      N privateoffset                            T list
      F readanddefine                               F compositions
      F registerfeature                             F expansions
      B resolvevirtualtoo                           F featureset
      F scale                                       F files
      F scaled                                      F mathematics
      F setfactor                                   F protrusions
      F setname                                     F solutions
      N version                                     F typefaces
current         function                         F load
currentid       function                         F prepare_features
definers        table                            F register
      F addlookup                                 F registerpostprocessor
      F analyze                                  F report
      F applypostprocessors           handlers        table
      F checkedmode                              T afm
      F checkedscript                               B addkerns
      F current                                     B addligatures
      S defaultlookup                               B addtexligatures
      F define                                      B autoprefixed
      F getspecification                            D cache
      F loadfont                                    D features
      F makespecification                           F load
      T methods                                     F setfeatures
        F install                                   B syncspace
        D variants                                  N version
      F read                                     T otf
      F register                                    F addfeature
      F registered                                  D cache
      F registersplit                               T chainhandlers
      F resetnullfont                                 F normal
      F resolve                                       F verbose
      T resolvers                                   F collectlookups
        F file                                      F dataset
        F name                                      S defaultbasealternate
        F spec                                      S defaultnodealternate
definetypeface  function                           D enhancers
```

```
        D features                        F descriptions
        F getalternate                    F glyphs
        T glists                  loggers          table
        F load                            T category_to_placeholder
        F scriptandlanguage               S ll
        F setcontextchain                 S lm
        F setdynamics                     S lo
        F setfeatures                     S lt
        T tables                          S lu
           D baselines                    S mc
           D features                     S me
           D languages                    S mn
           D scripts                      S nd
        N version                         S nl
     T pfb                                S no
     T tfm                                S pc
        D features                        S pd
        F setfeatures                     S pe
     T vf                                 S pf
        T combinations                    S pi
        F combine                         S po
        T combiner                        S ps
           D commands                     S sc
        F find                            S sk
        D helpers                         S sm
        D math                            S so
        D predefined                   F format
        D whatever                     F onetimemessage
hashes          table                  F register
     D characters                       F reportdefinedfonts
     D csnames                          F reportusedfeatures
     D descriptions             mappings          table
     T dynamics                        F addtounicode
     D identifiers                     F fromunicode16
     D italics                        F loadfile
     D marks                          F loadline
     D parameters                     F loadlumtable
     T processes                      F makenameparser
     D properties                     F reset
     D quads                          F tounicode16
     D resources                      F tounicode16sequence
     T setdynamics             names          table
     D xheights                       S basename
helpers          table               B be_clever
     F addprivate                     D cache
     F dimenfactor                    F cleanfilename
     F getdigitwidth                  F cleanname
     F getparameters                  F collect
     F getprivatenode                 F collectfiles
     F hasprivate                     F collectspec
     F nametoslot                     T data
     F setdigitwidth                  B enabled
iterators          table             F exists
     F characters                     T filters
```

```
    F afm                                      F writedata
    F dfont                       protrusions     data table
    T list                        readers         table
    T names                           F afm
    F otf                             F check_lua
    T paths                           F check_tfm
    F pfb                             F dfont
    F ttc                             F lua
    F ttf                             F opentype
S fontconfigfile                      F otf
F getfilename                         F pfb
F getlookupkey                        D sequence
F getlookups                          F tfm
F getpaths                            F ttc
F identify                            F ttf
F is_permitted                    specifiers      table
F list                                D contextmerged
F load                                F contextnumber
B loaded                              D contextnumbers
F lookup                              D contextsetups
F nolookups                           F contexttostring
S osfontdirvariable                   F mergecontext
F readdata                            F presetcontext
F register                            F registercontext
F registered                         F showcontext
F resolve                             F splitcontext
F resolvedspecification               D synonyms
F resolvespec                         D variants
B saved                           symbols         table
F specification                       F uselibrary
D specifications                  tables          table
F splitspec                       tracers         table
N version                         typefaces       data table
```

gzip (extra lua)

close function
lines function
open   function

gzip (extra lua)

close function
lines function
open   function

img (basic tex)

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

interactions (context)

attachments table
    F insert
    F register
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 table
pages table
    F setpagetransition
    F setupcanvas
references table
    F setclosedocument
    F setclosepage
    F setopendocument
    F setopenpage
renderings table
    F register
    F rendering
    F var
soundclips table
    F insert
    F register

interfaces (context)

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

io (basic lua)

ask	function		**out**	table
bytes	function		F inhibit	
characters	function		D modes	
checkopeners	function		F permit	
close	function		**output**	function
exists	function		**pathseparator**	string
fileseparator	string		**popen**	overloaded function
finalizeopeners	function		**read**	function
flush	function		**readnumber**	function
inp	table		**readstring**	function
F inhibit			**registeropener**	function
D modes			**savedata**	function
F permit			**size**	function
input	function		**stderr**	userdata
lines	function		**stdin**	userdata
loaddata	function		**stdout**	userdata
noflines	function		**tmpfile**	function
open	function		**type**	function
open_ro	function		**write**	function

job (context)

comment	function
disablesave	function
files	table
D collected	
F context	
B forcerun	
F run	
D tobesaved	
initialize	function
load	function
loadother	function
objects	table
D collected	
F doifelse	
F get	
F number	
F page	
F save	
F set	
D tobesaved	
pack	boolean
passes	table
F check	
D collected	
F count	
F define	
F find	
F first	
F get	
F getcollected	
F getdata	
F getfield	
F gettobesaved	
F inlist	
F last	
F list	
F save	
F savetagged	
D tobesaved	

positions	table
D collected	
F copy	
F depth	
F extra	
F height	
F lowerleft	
F lowerright	
F onsamepage	
F overlapping	
F page	
F position	
F replace	
F setall	
F setdim	
F setraw	
D tobesaved	
F upperleft	
F upperright	
F v	
F width	
F x	
F xy	
F y	
register	function
save	function
structure	table
D collected	
T tobesaved	
T branches	
S name	
S type	
variables	table
D checksums	
D collected	
F save	
D tobesaved	
version	number

lang (basic tex)

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

languages (context)

associate	function		**numbers**	data table
associated	data table		**posthyphenchar**	function
association	function		**prehyphenchar**	function
counters	data table		**registered**	data table
current	function		**righthyphenmin**	function
data	data table		**setdirty**	function
define	function		**synonym**	function
exceptions	function		**version**	number
getnumber	function		**words**	table
hyphenate	function		F	check
installed	function		T	data
labels	table		F	disable
F	define		F	enable
F	split		T	enablers
lefthyphenmin	function		B	enables
loadable	function		F	found
loadwords	function		F	load
logger	table		T	methods
F	report		N	threshold

layouts (context)

status   table
    F isleftpage
    F leftorrightpagection

lfs (extra lua)

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

lfs (extra lua)

libraries (context)

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

lmx (context)

convert	function		**pv**	function
escape	function		**reset**	function
get	function		**result**	function
htmfile	function		**set**	function
include	function		**show**	function
lmxfile	function		**showdebuginfo**	function
loadedfile	function		**showerror**	function
make	function		**tv**	function
new	function		**type**	function
overloaderror	function		**urlescape**	function
popupfile	function		**variable**	function
print	function		**variables**	data table

logs (context)

application	function	**setmessenger**	function
categories	function	**setprogram**	function
direct	function	**settarget**	function
disable	function	**settranslations**	function
enable	function	**show**	function
extendbanner	function	**show_close**	function
flush	function	**show_load**	function
help	function	**show_open**	function
messenger	function	**simple**	function
new	function	**simpleline**	function
newline	function	**simplelines**	function
poptarget	function	**start_page_number**	function
pushtarget	function	**status**	function
report	function	**stop_page_number**	function
report_job_stat	function	**subdirect**	function
reportbanner	function	**subreport**	function
reporter	function	**system**	function
reportline	function	**texerrormessage**	function
reportlines	function	**writer**	function
setformats	function		

lpdf (context)

action	function	id	function
adddocumentcolorspace	function	injectxmpinfo	function
adddocumentextgstate	function	insertxmpinfo	function
adddocumentpattern	function	javascript	function
adddocumentshade	function	launch	function
addtocatalog	function	layerreference	function
addtoinfo	function	limited	function
addtonames	function	linearshade	function
addtopageattributes	function	link	function
addtopageresources	function	null	function
addtopagesattributes	function	number	function
addxmpinfo	function	pagedestination	function
array	function	pagereference	function
boolean	function	pdfcolor	function
checkedkey	function	pdftimestamp	function
checkedvalue	function	protectresources	boolean
circularshade	function	reference	function
cmykcode	function	registerannotation	function
collectedresources	function	registerdocumentfinalizer	function
color	function	registerpagefinalizer	function
colorspace	function	reserveannotation	function
colorspec	function	reserveobject	function
colorvalue	function	rgbcode	function
colorvalues	function	rotationcm	function
constant	function	shareobject	function
delayedobject	function	shareobjectreference	function
dictionary	function	spotcode	function
epdf	table	stream	function
F load		string	function
finalizedocument	function	timestamp	function
finalizepage	function	toeight	function
finishtransparencycode	function	tosixteen	function
flushobject	function	transparency	function
flushstreamfileobject	function	transparencycode	function
flushstreamobject	function	transparencyvalue	function
formats	data table	unicode	function
graycode	function	verbose	function

lpeg (basic lua)

C	function	endstripper	function
Carg	function	firstofsplit	function
Cb	function	frontstripper	function
Cc	function	is_lpeg	function
Cf	function	keeper	function
Cg	function	locale	function
Cmt	function	match	function
Cp	function	oneof	function
Cs	function	patterns	data table
Ct	function	print	function
P	function	replacer	function
R	function	secondofsplit	function
S	function	span	function
UP	function	split	function
UR	function	splitat	function
US	function	splitter	function
V	function	stripper	function
anywhere	function	tsplitat	function
append	function	tsplitter	function
balancer	function	type	function
checkedsplit	function	utfchartabletopattern	function
count	function	version	function
counter	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	**messages**	data table
bytedata	data table	**name**	table
bytedone	table	**numbers**	data table
collectgarbage	function	**registercode**	function
delay	function	**registeredcodes**	function
finalize	function	**registerfinalizer**	function
firstbytecode	number	**registername**	function
flush	function	**setbytecode**	function
flushdelayed	function	**setluaname**	function
getbytecode	function	**startupfile**	string
getluaname	function	**version**	string
lastbytecode	number		

luatex (context)

cleanuptempfiles	function	**showjobstat**	function
registerstartactions	function	**showtexstat**	function
registerstopactions	function	**starttime**	number
registertempfile	function		

lxml (context)

addindex	function		**last**	function
all	function		**load**	function
applyfunction	function		**loadbuffer**	function
att	function		**loaddata**	function
attribute	function		**loaded**	table
chainattribute	function		**loadregistered**	function
checkindex	function		**main**	function
collected	function		**match**	function
command	function		**name**	function
concat	function		**namespace**	function
concatrange	function		**nonspace**	function
content	function		**pos**	function
context	function		**position**	function
convert	function		**raw**	function
count	function		**rawroot**	function
delete	function		**register**	function
direct	function		**registerentity**	function
directives	table		**removesetup**	function
F after			**resetcdata**	function
F before			**resetsetups**	function
F handle			**resolvedentity**	function
F load			**root**	function
F setup			**serialize**	function
displayverbatim	function		**setaction**	function
doif	function		**setcdata**	function
doifelse	function		**setcommandtonone**	function
doifelsetext	function		**setcommandtotext**	function
doifnot	function		**setsetup**	function
doifnottext	function		**snippet**	function
doiftext	function		**sorters**	table
element	function		F add	
elements	function		F compare	
entities	data table		F flush	
filter	function		F reset	
filterlist	function		F show	
first	function		F sort	
flush	function		**splitid**	function
flushlinewise	function		**startraw**	function
flushsetups	function		**stopraw**	function
flushspacewise	function		**store**	function
~~**get_id**~~	~~function~~		**strip**	function
getid	function		**stripped**	function
getindex	function		**tag**	function
id	function		**text**	function
idsplitter	userdata		**tofile**	function
include	function		**toparameters**	function
index	function		**toverbatim**	function
info	function		**verbatim**	function
inlineverbatim	function		**withindex**	function
installsetup	function		**xmltexhandler**	data table

math (basic lua)

abs	function	max	function
acos	function	min	function
asin	function	mod	function
atan	function	modf	function
atan2	function	odd	function
ceil	function	pi	number
cos	function	pow	function
cosd	function	rad	function
cosh	function	random	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
ldexp	function	tand	function
log	function	tanh	function
log10	function		

mathematics (context)

addfallbacks	function	**overloadparameters**	function
alphabets	data table	**privatebase**	number
big	function	**remapalphabets**	function
boldmap	table	**renderings**	table
categories	table	D mappings	
D functions		D numbers	
checkaccentbaseheight	function	D sets	
checkprivateparameters	function	**renderset**	function
classes	data table	**resetitalics**	function
codes	data table	**scaleparameters**	function
define	function	**setalternate**	function
dimensions	function	**setitalics**	function
extrabase	number	**syncboth**	function
extras	table	**syncname**	function
F add		**syncstyle**	function
F copy		**toname**	function
families	data table	**tostyle**	function
gaps	table	**utfmathclass**	function
getboth	function	**utfmathcommand**	function
getstyle	function	**utfmathfiller**	function
initializeparameters	function	**utfmathstretch**	function
makefont	function		

md5 (extra lua)

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

metapost (context)

analyzeplugins	function		**makempy**	table
checkformat	function		N nofconverted	
checktexts	function		F processgraphics	
colorinitializer	function		**metafun**	table
convert	function		F interpolate	
defaultformat	string		F topath	
directrun	function		**method**	number
edefsxsy	function		**mptopdf**	table
escaped	function		F convertmpstopdf	
exectime	table		N nofconverted	
filterclippath	function		**multipass**	boolean
finder	function		**n**	number
flush	function		**optimize**	boolean
flushers	table		**parse**	function
T pdf			**pdfliterals**	function
F comment			**pluginactions**	function
F flushfigure			**process**	function
F startfigure			**processplugins**	function
F stopfigure			**reducetogray**	boolean
F textfigure			**reporterror**	function
flushliteral	function		**reset**	function
flushnormalpath	function		**resetlastlog**	function
flushreset	function		**resetplugins**	function
format	function		**resettextexts**	function
formatnumber	function		**setoutercolor**	function
getclippath	function		**settext**	function
gettext	function		**showlog**	boolean
graphic	function		**tex**	table
graphic_base_pass	function		F get	
graphic_extra_pass	function		F reset	
intermediate	table		F set	
T actions			**texerrors**	boolean
F makempy			**textextsdata**	function
B needed			**theclippath**	function
lastlog	string		**totable**	function
load	function		**unload**	function

mime (extra lua)

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

mplib (extra tex)

fields	function		**pen_info**	function
new	function		**version**	function

noads (context)

handlers table	F variants
F check	**process** function
F collapse	**processors** table
F families	T collapse
F italics	F mlist_to_hlist
F relocate	T relocate
F render	T render
F resize	T resize
F respace	T respace
F tags	T unscript
F unscript	

node (basic tex)

copy	function	ligaturing	function
copy_list	function	mlist_to_hlist	function
count	function	new	function
current_attr	function	next	function
dimensions	function	prev	function
do_ligature_n	function	protect_glyphs	function
family_font	function	protrusion_skippable	function
fields	function	remove	function
first_character	function	set_attribute	function
first_glyph	function	slide	function
flush_list	function	subtype	function
free	function	tail	function
has_attribute	function	traverse	function
has_field	function	traverse_id	function
hpack	function	type	function
id	function	types	function
insert_after	function	unprotect_glyphs	function
insert_before	function	unset_attribute	function
is_node	function	usedlist	function
kerning	function	vpack	function
last_node	function	whatsits	function
length	function	write	function

nodes (context)

after	function		F setmark	
aligned	function		F setpair	
astable	function	**installattributehandler**	function	
before	function	**is_display_math**	function	
builders	table	**is_mirrored**	data table	
F buildpage_filter		**is_rotated**	data table	
F vpack_filter		**kerncodes**	data table	
codes	data table	**leftmarginwidth**	function	
concat	function	**lines**	table	
count	function	T boxed		
delete	function	F register		
destinations	table	F setup		
N attribute		F stage_one		
T done		F stage_two		
F handler		F stage_zero		
T stack		D data		
dimensionfields	data table	F finalize		
dir_is_pop	data table	F number		
dir_negation	data table	N scratchbox		
fasthpack	function	**link**	function	
fields	function	**list**	function	
fillcodes	data table	**listablefields**	data table	
firstcharacter	function	**listcodes**	data table	
firstcharinbox	function	**listtoutf**	function	
firstglyph	function	**load**	function	
getattribute	function	**locate**	function	
gluecodes	data table	**mathcodes**	data table	
glyphcodes	data table	**noadcodes**	data table	
glyphdir_is_equal	data table	**nodecodes**	data table	
glyphdir_is_opposite	data table	**packlist**	function	
glyphdir_is_orthogonal	data table	**pardir_is_equal**	data table	
handlers	table	**pardir_is_opposite**	data table	
F accessibility		**pardir_is_parallel**	data table	
F backgrounds		**partextdir_is_equal**	data table	
F characters		**penaltycodes**	data table	
F checkforleaks		**pool**	table	
F checkglyphs		F baselineskip		
F cleanuppage		F cleanup		
F export		F disc		
F finalize		F fontkern		
F migrate		F glue		
F protectglyphs		F gluespec		
F stripping		F glyph		
F unprotectglyphs		F kern		
has_attribute	function	F latelua		
idstostring	function	F leftmarginkern		
ignorablefields	data table	F leftskip		
injections	table	F lineskip		
F handler		F noad		
F setcursive		F pdfannotation		
F setkern		F pdfdestination		

F	pdfdirect		**setunsetattributes**	function
F	pdfliteral		**shifts**	table
F	pdfrestore		D data	
F	pdfsave		F define	
F	pdfsetmatrix		F enable	
F	penalty		F handler	
F	register		**show**	function
F	rightmarginkern		**showboxes**	function
F	rightskip		**showcodes**	function
F	rule		**showlist**	function
F	shrink		**showsimplelist**	function
F	special		**skipcodes**	data table
F	stretch		**somepenalty**	function
F	temp		**somespace**	function
F	textdir		**stripping**	table
F	usage		F enable	
T	userids		T glyphs	
	N margins.inline		**striprange**	function
	N splitters.one		**tasks**	table
	N splitters.two		F actions	
F	userlist		F appendaction	
F	usernumber		F disableaction	
F	userstring		F disablegroup	
F	usertokens		F enableaction	
F	zeroglue		F enablegroup	
print		function	F freeze	
processors		table	F freezegroup	
B	enabled		F new	
F	hpack_filter		F prependaction	
F	post_linebreak_filter		F removeaction	
F	pre_linebreak_filter		F restart	
F	tracer		F showactions	
processwords		function	F table	
reference		function	**textdir_is_equal**	data table
references		table	**textdir_is_is**	data table
N	attribute		**textdir_is_opposite**	data table
T	done		**textdir_is_parallel**	data table
F	handler		**tonodes**	function
T	stack		**tosequence**	function
remove		function	**totable**	function
repackhlist		function	**toutf**	function
replace		function	**tracers**	table
report		function	T characters	
rightmarginwidth		function	F collect	
rules		table	F equal	
D	data		F indices	
F	define		F start	
F	enable		F string	
F	handler		F unicodes	
save		function	T colors	
serialize		function	F reset	
serializebox		function	F set	
setattribute		function	F fontchar	
setattributes		function	F start	

```
T steppers                              F start
  F check                                 F stop
  F codes                                 F stop
  F features                            unsetattribute        function
  F glyphs                              unsetattributes       function
  F message                             visualizebox          function
  F messages                            whatcodes             data table
  F nofsteps                            whatsitcodes          data table
  F register                            writable_spec         function
  F reset
```

number (context)

	function	**tociceros**	function
basepoints	function	**todidots**	function
bit	function	**todimen**	function
bits	function	**toevenhex**	function
clearbit	function	**toinches**	function
dimenfactors	data table	**tomillimeters**	function
hasbit	function	**tonewciceros**	function
maxdimen	number	**tonewdidots**	function
nopts	function	**tonumberf**	function
percent	function	**tonumberg**	function
points	function	**topicas**	function
pts	function	**topoints**	function
setbit	function	**toscaled**	function
tobasepoints	function	**toscaledpoints**	function
tobitstring	function	**toset**	function
tocentimeters	function		

os (basic lua)

__getenv__	function		rename	function
__setenv__	function		resolvers	table
binsuffix	string		resultof	function
clock	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
getenv	overloaded function		times	function
gettimeofday	function		timezone	function
launch	function		tmpdir	function
libsuffix	string		tmpname	function
name	string		type	string
platform	string		uname	function
remove	function		uuid	function

package (basic lua)

appendtolibpath	function		**loaders**	table
clibpaths	function		**loadlib**	function
config	string		**path**	string
cpath	string		**preload**	table
libpaths	function		**prependtolibpath**	function
loaded	table		**seeall**	function

pdf (basic tex)

immediateobj	function		**pageresources**	string
mapfile	function		**pagesattributes**	string
mapline	function		**pdfmapfile**	function
maxobjnum	function		**pdfmapline**	function
obj	function		**print**	function
objtype	function		**refobj**	function
pageattributes	string		**registerannot**	function
pageref	function		**reserveobj**	function

physics (context)

units table
- T tables
  - T shortcuts
    - T operators
      - S *
      - S .
      - S /
      - S :
    - T prefixes
      - S E
      - S G
      - S M
      - S P
      - S T
      - S Y
      - S Z
      - S a
      - S c
      - S d
      - S da
      - S f
      - S h
      - S k
      - S m
      - S n
      - S p
      - S u
      - S y
      - S z
    - T suffixes
      - S +1
      - S +2
      - S +3
      - S -1
      - S -2
      - S -3
      - S 1
      - S 2
      - S 3
      - S ^+1
      - S ^+2
      - S ^+3
      - S ^-1
      - S ^-2
      - S ^-3
      - S ^1
      - S ^2
      - S ^3
    - T units
      - S A
      - S B

  - S Hz
  - S W
  - S b
  - S g
  - S h
  - S hz
  - S l
  - S lx
  - S m
  - S n
  - S s
  - S t
  - S v
  - S ℃
  - S
  - T units
    - T operators
      - S OutOf
      - S Per
      - S Solidus
      - S Times
    - T packaged
      - S Micron
      - S mmHg
    - T prefixes
      - S Atto
      - S Centi
      - S Deca
      - S Deci
      - S Exa
      - S Exbi
      - S Femto
      - S Gibi
      - S Giga
      - S Hecto
      - S Kibi
      - S Kilo
      - S Mebi
      - S Mega
      - S Micro
      - S Milli
      - S Nano
      - S Pebi
      - S Peta
      - S Pico
      - S Root
      - S Tebi
      - S Tera
      - S Yobi
      - S Yocto
      - S Yotta

S Zebi
S Zepto
S Zetta
T suffixes
  S Cubic
  S ICubic
  S ILinear
  S ISquare
  S Inverse
  S Linear
  S Square
T symbols
  S %
  S ArcMinute
  S ArcSecond
  S Degree
  S Degrees
  S Percent
  S Permille
  S Promille
  S °
  S
  S
T units
  S AMU
  S Ampere
  S Angstrom
  S Astronomical Unit
  S Atm
  S Atmosphere
  S Atomic Mass Unit
  S Bar
  S Barn
  S Baud
  S Bel
  S Bequerel
  S Bit
  S Byte
  S Cal
  S Calorie
  S Candela
  S Celsius
  S Coulomb
  S Dalton
  S Day
  S Degree Celsius
  S Degree Fahrenheit
  S Degrees Celsius
  S Degrees Fahrenheit
  S Dyne
  S Electron Volt
  S Erg
  S Erlang

S Fahrenheit
S Farad
S Foot
S Gal
S Gauss
S Gon
S Grad
S Gram
S Gray
S Hectare
S Henry
S Hertz
S Hg
S Hour
S Inch
S Joule
S Katal
S Kelvin
S Knot
S Liter
S Litre
S Lumen
S Lux
S Maxwell
S Meter
S Metre
S Metric Ton
S Minute
S Mol
S Mole
S Nautical Mile
S Neper
S Newton
S Oersted
S Ohm
S Pascal
S Phot
S Poise
S Radian
S Rev
S Revolution
S Second
S Siemens
S Sievert
S Steradian
S Stilb
S Stokes
S Tesla
S Tonne
S Volt
S Watt
S Weber
S eV

profiler (extra lua)

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

profiler (extra lua)

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

regimes (context)

disable	function	**process**	function
enable	function	**push**	function
pop	function	**translate**	function

resolvers (context)

allprefixes	function	getownpath	function
appendhash	function	getreadfilename	function
automount	function	hashers	data table
automounted	table	homedir	string
booleanvariable	function	installinputfilehandler	function
cacheversion	string	installinputlinehandler	function
checkedvariable	function	instance	table
cleanpath	function	D data	
cleanpathlist	function	B diskcache	
concatinators	data table	D environment	
configbanner	string	D expansions	
criticalvars	data table	D fakepaths	
dangerous	data table	D files	
datastate	function	B force_suffixes	
defaultsuffixes	table	D found	
dowithfilesandreport	function	D foundintrees	
dowithfilesintree	function	D hashed	
dowithpath	function	D hashes	
dowithvariable	function	D lists	
env	function	B loaderror	
executers	table	D order	
F check		B remember	
F execute		B renewcache	
F finalize		B renewtree	
F register		B savelists	
expandbraces	function	D setups	
expandedpathfromlist	function	D specification	
expandedpathlist	function	D variables	
expandedpathlistfromvariable	function	jobs	table
expandpath	function	F currentcomponent	
expandpathfromvariable	function	F currentenvironment	
expansion	function	F currentproduct	
extendtexmfvariable	function	F currentproject	
~~find_file~~	~~function~~	F justacomponent	
~~find_files~~	~~function~~	D processors	
findbinfile	function	F productcomponent	
findctxfile	function	F usefile	
finders	data table	joinpath	function
findfile	function	load	function
findfiles	function	loadbinfile	function
findgivenfile	function	loaders	data table
findgivenfiles	function	loadlualib	function
findpath	function	loadtexfile	function
findtexfile	function	loadtime	function
findwildcardfile	function	locateformat	function
findwildcardfiles	function	locators	data table
formatofsuffix	function	luacnfname	string
formatofvariable	function	luacnfspec	string
formats	data table	luacnfstate	string
generators	data table	macros	table
getenv	function	F convertfile	

	F decodecomment	**schemes**	table
	F enablecomment	T cleaners	
	F encodecomment	F md5	
	F preprocessed	F none	
	F processmkvi	F strip	
	F version	F cleanname	
maxreadlevel	number	F install	
methodhandler	function	N threshold	
newinstance	function	**setenv**	function
openbinfile	function	**setinstance**	function
openers	data table	**settrace**	function
openfile	function	**showpath**	function
opentexfile	function	**simplescanfiles**	function
ownpath	string	**splitconfigurationpath**	function
prefixes	data table	**splitexpansions**	function
prependhash	function	**splitmethod**	function
registerextrapath	function	**splitpath**	function
registerfile	function	**suffixes**	data table
registerfilehash	function	**suffixmap**	data table
registerintrees	function	**suffixofformat**	function
registermethod	function	**texdatablob**	function
registerzipfile	function	**unexpandedpath**	function
relations	data table	**unexpandedpathlist**	function
renew	function	**unresolve**	function
repath	function	**updaterelations**	function
reset	function	**updatescript**	function
resetextrapath	function	**usezipfile**	function
resetresolve	function	**validatedpath**	function
resolve	function	**variable**	function
savers	data table	**variableofformat**	function
scandata	function	**variableofformatorsuffix**	function
scanfiles	function	**wildcardpattern**	function

scripts (context)

categorytonumber	data table	**numbertocategory**	data table
colors	data table	**numbertodataset**	data table
handlers	data table	**preprocess**	function
hash	table	**reset**	function
installdataset	function	**set**	function
installmethod	function		

set (context)

contains	function	**tonumber**	function
create	function	**totable**	function
tolist	function		

socket (extra lua)

BLOCKSIZE   number
_DEBUG   boolean
bind   function
choose   function
connect   function
dns   table
    F gethostname
    F tohostname
    F toip
ftp   table
    S PASSWORD
    N PORT
    N TIMEOUT
    S USER
    F command
    F get
    F open
    F put
gettime   function
http   table
    N PORT
    N TIMEOUT
    S USERAGENT
    F open
    F request
newtry   function
protect   function
select   function
sink   function
sinkt   table
    F close-when-done
    F default
    F http-chunked

    F keep-open
skip   function
sleep   function
smtp   table
    S DOMAIN
    N PORT
    S SERVER
    N TIMEOUT
    S ZONE
    F message
    F open
    F send
source   function
sourcet   table
    F by-length
    F default
    F http-chunked
    F until-closed
tcp   function
tp   table
    N TIMEOUT
    F connect
try   function
udp   function
url   table
    F absolute
    F build
    F build_path
    F escape
    F parse
    F parse_path
    F unescape

sorters (context)

comparers	table	**definitions**	data table
F basic		**firstofsplit**	function
constants	table	**setlanguage**	function
S defaultdigits		**sort**	function
S defaultlanguage		**splitters**	table
S defaultmethod		F utf	
N digitsmaximum		**strip**	function
N digitsoffset		**tracers**	data table
N ignoredoffset		**update**	function
N replacementoffset			

statistics (context)

checkfmtstatus	function		**resettiming**	function
elapsedindeed	function		**runtime**	function
elapsedseconds	function		**savefmtstatus**	function
elapsedtime	function		**show**	function
enable	boolean		**showjobstat**	function
formatruntime	function		**starttiming**	function
hastiming	function		**stoptiming**	function
memused	function		**threshold**	number
register	function		**timed**	function
reportstorage	function			

status (basic tex)

list function

storage (context)

allocate	function		**min**	number
data	table		**nofmodules**	number
evaluators	table		**noftables**	number
mark	function		**register**	function
marked	function		**shared**	data table
max	number			

streams (context)

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

string (basic lua)

byte	function	match	function
bytepairs	function	quote	function
bytes	function	quoted	function
char	function	rep	function
characterpairs	function	reverse	function
characters	function	split	function
checkedsplit	function	splitlines	function
count	function	splitup	function
dump	function	strip	function
escapedpattern	function	sub	function
explode	function	toboolean	function
find	function	tocontext	function
format	function	todimen	function
gfind	function	topattern	function
gmatch	function	toutf	function
gsub	function	unquote	function
is_boolean	function	unquoted	function
is_empty	function	upper	function
len	function	utfcharacters	function
limit	function	utfsplitlines	function
lower	function	utfvalues	function

structures (context)

atlocation	function		F value	
blocks	table		**currentsectionnumber**	function
D collected			**descriptions**	table
F define			**documents**	table
F print			T data	
F save			S block	
F select			T blocks	
F setstate			T checkers	
D states			N depth	
D tobesaved			T forced	
bookmarks	table		T numbers	
F finalize			T ownnumbers	
F flatten			T status	
S method			F initialize	
F overload			F preset	
F place			F reset	
F register			**floats**	table
F setup			**formulas**	table
counters	table		F current	
F add			F simplify	
F analyze			F store	
F check			**helpers**	table
D collected			F analyze	
F compact			F formulanumber	
F converted			F merged	
F current			F page	
D data			F prefix	
F define			F prefixlastpage	
F first			F prefixpage	
F get			F simplify	
F last			F title	
F next			F touserdata	
F prev			**itemgroups**	table
F previous			F maxwidth	
F raw			F nofitems	
F record			F register	
F reset			**lists**	table
F restart			F analyze	
F restore			D cached	
F save			D collected	
F set			F doifstoredelse	
F setlevel			F enhance	
F setoffset			T enhancers	
F setown			F filter	
F setstate			F filtercollected	
F setvalue			F formulanumber	
F show			D internals	
T specials			F label	
F userpage			F location	
F subs			F number	
D tobesaved			D ordered	

F page
F popnesting
F prefix
F prefixednumber
F prefixedpage
F process
F push
D pushed
F pushnesting
F realpage
T result
F savednumber
F savedprefixednumber
F savedtitle
F sectionnumber
F size
F title
D tobesaved
F userdata
F uservalue

marks   table

D data
F define
F exists
F fetch
F fetchallmarks
F fetched
F fetchonemark
F fetchtwomarks
F get
F number
F relate
F reset
F set
F show
F synchronize
F title
T tracers
  F showtable

notes   table

F checkpagechange
F define
F deltapage
F doifcontent
F doifonsamepageasprevious
F flush
F flushpostponed
F get
F getn
F getnumberpage
F getstate
F getsymbolpage
F internal
F internalid

F listindex
F number
F ordered
F postpone
F resetpostponed
F restore
F save
F setstate
F setsymbolpage
D states
F store
F title

pages   table

F analyze
D collected
F is_odd
F number
F save
D tobesaved

references   table

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

```
F import                              D tobereferred
F inject                              D tobesaved
F injectcurrentset                    T urls
D internals                             T data
F load                                  F define
F loadpresets                           F get
F mark                                  F whatfrom
D pages                            registers              table
U prefixsplitter                        F analyze
T productdata                           F analyzed
  T componentreferences                 D collected
  T components                          F compare
  T productreferences                   F define
T programs                              F enhance
  T data                                F extend
  F define                              F filter
  F get                                 F filtercollected
F realpageofpage                        F finalize
U referencesplitter                     F flush
D referred                              F prepare
F referredpage                          F process
F registerfinalizer                     F sort
F registerinitializer                   F store
F registerpage                          D tobesaved
F reportproblems                        F unique
F reset                                 F userdata
T resolvers                        sections               table
  F reference                           F autodepth
  F section                             F cct
D runners                               T collected
F set                                   F current
F setandgetattribute                    F currentblock
F setcomponent                          F currentid
F setinnermethod                        F currentlevel
F setinternalreference                  F defineautolevels
F setnextinternal                       F depthnumber
F setnextorder                          F finddata
D specials                              F findnumber
F splitcomponent                        F fullnumber
F splitprefix                           F getcurrentlevel
F splitreference                        F getlevel
T testrunners                           F getnumber
  F inner                               F internalreference
  F special                             D levelmap
  F special operation                   D levels
  F special operation with arguments    F load
T testspecials                          F matchingtilldepth
  F deltapage                           F numberatdepth
  F i                                   F numbers
  F internal                            F popblock
  F page                                F prefixedconverted
  F realpage                            F pushblock
  F section                             F register
  F userpage                            D registered
```

```
     F reportstructure              F prepare
     F save                         F process
     F set                          F register
     F setblock                     F registerused
     F setchecker                   F sort
     F setlevel                     F synonym
     F setnumber                    D tobesaved
     F somelevel             tags                    table
     F startautolevel               T data
     F stopautolevel                F detailedtag
     F structuredata                F getid
     F title                        F handler
     D tobesaved                    D labels
     F typesetnumber                F last
     F userdata                     F lastinchain
     B verbose                      T metadata
     F way                          D properties
sets                 table          F registerdata
     F define                       F registermetadata
     F get                          F restart
     F getall                       F setattributehash
     D setlist                      F setcombination
specials             table          F setdescription
     D collected                    F setdescriptionsymbol
     F retrieve                     F setfigure
     F store                        F sethighlight
     D tobesaved                    F setitemgroup
synonyms             table          F setproperty
     F analyzed                     F setsorting
     D collected                    F setsynonym
     F compare                      F settablecell
     F define                       F settabulatecell
     F filter                       F start
     F finalize                     F stop
     F flush                        D taglist
     F meaning                      T userdata
```

table (basic lua)

append	function	print	function
are_equal	function	remove	function
compact	function	reversed	function
concat	function	sequenced	function
contains	function	serialize	function
copy	function	setmetatablecall	function
count	function	setmetatableindex	function
derive	function	setmetatablekey	function
fastcopy	function	setmetatablenewindex	function
flattened	function	setn	function
foreach	function	sort	function
foreachi	function	sortedhash	function
fromhash	function	sortedhashkeys	function
getmetatablekey	function	sortedkeys	function
getn	function	sortedpairs	function
has_one_entry	function	strip	function
identical	function	sub	function
imerge	function	swapped	function
imerged	function	tocontext	function
insert	function	tofile	function
is_empty	function	tohandle	function
keys	function	tohash	function
loweredkeys	function	toxml	function
maxn	function	unique	function
merge	function	unnest	function
merged	function	unpack	function
prepend	function		

tex (basic tex)

attribute	table		number	function
badness	function		pdffontname	function
box	table		pdffontobjnum	function
catcode	table		pdffontsize	function
conditionals	data table		pdfpageref	function
constants	data table		pdfxformname	function
count	table		primitives	function
ctxcatcodes	number		print	function
definefont	function		printlist	function
delcode	table		prtcatcodes	number
dimen	table		romannumeral	function
enableprimitives	function		round	function
error	function		run	function
extraprimitives	function		scale	function
finish	function		set	function
fontidentifier	function		setattribute	function
fontname	function		setbox	function
fprint	function		setcatcode	function
get	function		setcount	function
getattribute	function		setdelcode	function
getbox	function		setdimen	function
getcatcode	function		setfalse	function
getcount	function		setlccode	function
getdelcode	function		setlist	function
getdimen	function		setmath	function
getlccode	function		setmathcode	function
getlist	function		setnest	function
getmath	function		setsfcode	function
getmathcode	function		setskip	function
getnest	function		settoks	function
getsfcode	function		settrue	function
getskip	function		setuccode	function
gettoks	function		sfcode	table
getuccode	function		shipout	function
hashtokens	function		skip	table
ifs	data table		sp	function
inicatcodes	number		sprint	function
iscount	function		systemmodes	data table
isdimen	function		texcatcodes	number
isskip	function		toks	table
istoken	function		tpacatcodes	number
lccode	table		tpbcatcodes	number
linebreak	function		tprint	function
lists	table		txtcatcodes	number
luacatcodes	number		type	function
mathcode	table		uccode	table
modes	data table		uniformdeviate	function
nest	table		uprint	function
nilcatcodes	number		vrbcatcodes	number
notcatcodes	number		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	function	**shell_escape**	string
kpse_init	boolean	**stack_size**	number
max_in_open	number		

texio (basic tex)

write   function
write_nl function

texio (basic tex)

write   function
write_nl function

token (basic tex)

command_id	function		**get_next**	function
command_name	function		**is_activechar**	function
create	function		**is_expandable**	function
csname_id	function		**is_protected**	function
csname_name	function		**lookup**	function
expand	function			

tokens (context)

bgroup   table
collectors table
   T data
   F defaultwords
   F dowithwords
   F flush
   F handle
   F install
   F register
   T registered
   T remapper
     F convert
     T data
     F store
   F show

   T show_methods
     F a
     F b
     F c
   F showtoken
   F test
   F trace
egroup   table
hbox   table
letter   function
letters   function
other   function
vbox   table
vtop   table

tracers (context)

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

trackers (context)

data	data table		**name**	string
disable	function		**register**	function
dumphashtofile	function		**report**	function
enable	function		**savehash**	function
list	function		**show**	function

typesetters (context)

alignments   table
    F handler
    F set
breakpoints   table
    N attribute
    F enable
    F handler
    D mapping
    T methods
    F set
    F setreplacement
cases   table
    T actions
    F handler
    F set
characters   table
    F handler
cleaners   table
    F handler
    F set
digits   table
    T actions
    N attribute
    F handler
    F set
directions   table
    F handler
    F process
    F set
hpack   function
italics   table
    F forcevariant
    F handler
    F reset
    F set
kerns   table
    D factors
    F handler
    B keepligature
    B keeptogether
    D mapping
    F set
margins   table

    F finalhandler
    F globalhandler
    F ha
    F localhandler
    F save
paragraphs   table
    N attribute
    T droppers
      F freeze
      F set
    F handler
    F set
processors   table
    F apply
    F register
    F reset
    F split
    F startapply
    F stopapply
    F stripped
    F tostring
spacings   table
    N attribute
    F handler
    D mapping
    F set
    F setup
tonodes   function
vpack   function
xtables   table
    F cleanup
    F construct
    F create
    F flush
    F initialize_construct
    F initialize_reflow_height
    F initialize_reflow_width
    F next_row
    F reflow_height
    F reflow_width
    F set_construct
    F set_reflow_height
    F set_reflow_width

unicode (extra lua)

ascii	table		F gmatch	
F byte			F gsub	
F char			F len	
F dump			F lower	
F find			F match	
F format			F rep	
F gfind			F reverse	
F gmatch			F sub	
F gsub			F upper	
F len			**ustring**	function
F lower			**utf16_to_utf8**	function
F match			**utf16_to_utf8_be**	function
F rep			**utf16_to_utf8_le**	function
F reverse			**utf32_to_utf8**	function
F sub			**utf32_to_utf8_be**	function
F upper			**utf32_to_utf8_le**	function
filetype	function		**utf8**	table
grapheme	table		F byte	
F byte			F char	
F char			F dump	
F dump			F find	
F find			F format	
F format			F gfind	
F gfind			F gmatch	
F gmatch			F gsub	
F gsub			F len	
F len			F lower	
F lower			F match	
F match			F rep	
F rep			F reverse	
F reverse			F string	
F sub			F sub	
F upper			F toentities	
latin1	table		F upper	
F byte			**utf8_to_utf16**	function
F char			**utf8_to_utf8**	function
F dump			**utfcodes**	function
F find			**utfname**	table
F format			**utftype**	function
F gfind			**xstring**	function

url (context)

addscheme	function		**hasscheme**	function
construct	function		**query**	function
filename	function		**split**	function
hashed	function			

utilities (context)

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

formatters   table
- F formatcolumns
- F list
- F stripzeros

garbagecollector   table
- F check
- N criterium
- B enabled

lua   table
- F compile

packers   table
- F hashed
- F new
- F pack
- F simplehashed
- F strip
- F unpack
- N version

parsers   table
- F add_settings_to_array
- F arguments_to_table
- F array_to_string
- F getparameters
- F hash_to_string
- F listitem
- F make_settings_to_hash_pattern
- T patterns
  - U settings_to_array
  - U settings_to_hash_a
  - U settings_to_hash_b
  - U settings_to_hash_c
- F settings_to_array
- F settings_to_hash
- F settings_to_hash_strict
- F settings_to_hash_tolerant
- F settings_to_set
- F simple_hash_to_string

report   function

sequencers   table
- F appendaction
- F appendgroup

- F autocompile
- F compile
- F disableaction
- F disablegroup
- F enableaction
- F enablegroup
- D functions
- F localize
- F nodeprocessor
- F prependaction
- F prependgroup
- F removeaction
- F reset
- F setkind
- F tostring

setters   table
- F disable
- F enable
- F initialize
- F list
- F new
- F register
- F reset
- F show

storage   table
- F allocate
- F checked
- F mark
- F marked
- F setinitializer
- F sparse

strings   table
- F collapsecrlf
- F newrepeater
- F nice
- F striplong
- F tabtospace

tables   table
- F accesstable
- F definetable
- F encapsulate
- F insertaftervalue
- F insertbeforevalue
- F migratetable
- F removevalue

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

addentitiesdoctype	function	**entities**	data table
after	function	**erase**	function
all	function	**escaped**	function
applylpath	function	**expressions**	table
assign	function	F boolean	
attribute	function	F child	
before	function	F contains	
body	function	F count	
builtinentities	table	F error	
B amp		F find	
B apos		F lower	
B gt		F name	
B lt		F number	
B quot		F oneof	
cdata	function	F print	
cdatatotext	function	F quit	
checkbom	function	F tag	
checkerror	function	F text	
checknamespace	function	F undefined	
checkns	function	F upper	
cleansed	function	**fillin**	function
collect	function	**filter**	function
~~collect_elements~~	~~function~~	**finalizers**	table
collect_tags	function	T tex	
~~collect_texts~~	~~function~~	F all	
collected	function	F attribute	
collecttexts	function	F bibtexconcat	
content	function	F bibtexshort	
convert	function	F chainattribute	
copy	function	F command	
count	function	F concat	
cprint	function	F concatrange	
css	table	F context	
F colorspecification		F count	
F fontspecification		F ctxtext	
F padding		F default	
defaulthandlers	table	F first	
D file		F function	
D parsedxml		F index	
D string		F last	
D tex		F lettered	
D texline		F lower	
D texspace		F match	
D verbose		F name	
defaultprotocol	string	F position	
delete	function	F reverse	
~~delete_element~~	~~function~~	F stripped	
each	function	F tag	
~~each_element~~	~~function~~	F tags	
elements	function	F text	
empty	function	F upper	

```
    T xml                                        makestandalone          function
        F all                                    match                   function
        F att                                    name                    function
        F attribute                              newhandlers             function
        F attributes                             nodesettostring         function
        F cdata                                  originalload            function
        F chainattribute                         package                 function
        F count                                  parent                  function
        F default                                parsedentitylpeg        userdata
        F elements                               pihandlers              table
        F empty                                  placeholders            table
        F first                                      F unknown_any_entity
        F function                                   F unknown_dec_entity
        F index                                      F unknown_hex_entity
        F last                                   position                function
        F match                                  privatecodes            table
        F name                                   privatetoken            function
        F position                               process                 function
        F reverse                                process_attributes      function
        F table                                  process_elements        function
        F tag                                    processattributes       function
        F tags                                   profiled                table
        F text                                   raw                     function
        F texts                                  registerentity          function
first                   function                 registerns              function
found                   function                 remap_name              function
functions               table                    remap_namespace         function
getbuffer               function                 remap_tag               function
gethandlers             function                 remapname                function
gethandlersfunction     function                 remapnamespace          function
include                 function                 remaptag                 function
index                   function                 renamespace             function
inheritedconvert        function                 replace                  function
inject                  function                 replace_element          function
inject_element          function                 resolvens               function
inject_element_after    function                 root                     function
inject_element_before   function                 save                     function
injectafter             function                 selection                function
injectbefore            function                 serialize                function
insert                  function                 setcdata                 function
insert_element          function                 sethandlersfunction      function
insert_element_after    function                 setproperty              function
insert_element_before   function                 settings                 function
insertafter             function                 specialhandler           table
insertbefore            function                 sprint                   function
insertcomment           function                 string                   function
inspect                 function                 strip                    function
is_valid                function                 strip_whitespace         function
last                    function                 stripelement             function
load                    function                 stripleadingspaces       function
lpath                   function                 table                    function
lpathcached             function                 text                     function
lpathcalls              function                 textonly                 function
lshow                   function                 tocdata                  function
```

toelement	function	**unprivatized**	function
tostring	function	**withelement**	function
toxml	function	**withelements**	function
tprint	function	**wrap**	function
traverse	function	**xmlns**	table
unescaped	function		

zip (extra lua)

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

zlib (extra lua)

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