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 exportformdata
        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 paleblue
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
```

bibtex (context)

authorref	function			F	flush
authors	table			F	nofregistered
F	concat			F	process
F	inverted			F	register
F	invertedshort			F	registerplaced
F	normal			F	reset
F	normalshort			F	resolve
F	setsettings		**load**	function	
F	short		**new**	function	
authoryearref	function		**singularorplural**	function	
authoryearsref	function		**statistics**	table	
convert	function		N	nofbytes	
hacks	table		N	nofdefinitions	
F	add		N	nofshortcuts	
F	doifalreadyplaced		**toxml**	function	
F	filterall				

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

doifdrawingblackelse	function	filterreference	function
doifelse	function	finalizebox	function
doifelsebuffer	function	findtwopassdata	function
doifelsecurrentfonthasfeature	function	firstinset	function
doifelseintwopassdata	function	firststructurecounter	function
doifelsemarking	function	flushfloat	function
doifelseparallel	function	flushpostponedblocks	function
doifelsesavedfloat	function	fontchar	function
doifelsespaces	function	fontcollectionclone	function
doifelsestructurecounter	function	fontcollectiondefine	function
doifelsevisualizer	function	fontcollectionprepare	function
doiffieldcategoryelse	function	fontcollectionregister	function
doiffieldelse	function	fontcollectionreport	function
doiffieldsetelse	function	fontcollectionreset	function
doiffiledefinedelse	function	fontlookupgetkey	function
doiffileexistelse	function	fontlookupgetkeyofindex	function
doiffirstcharelse	function	fontlookupinitialize	function
doifinputfileelse	function	fontlookupnoffound	function
doifinsetelse	function	forceendjob	function
doifleapyearelse	function	forcequitjob	function
doiflisthasnumberelse	function	format	function
doiflisthaspageelse	function	formatcolor	function
doiflocfileelse	function	formatgray	function
doifnot	function	freezerandomseed	function
doifnotstructurecounter	function	getbuffer	function
doifolderversionelse	function	getbufferctxlua	function
doifoverlappingelse	function	getbuffermkvi	function
doifparentfileelse	function	getdefaultfieldvalue	function
doifpositionelse	function	getfieldcategory	function
doifpositionsonsamepageelse	function	getfirstcharacter	function
doifpositionsonthispageelse	function	getfirsttwopassdata	function
doifstructurecounter	function	getfloatvariable	function
doifurldefinedelse	function	getlasttwopassdata	function
doprocesstypescriptfile	function	getmarking	function
doreshapeframedbox	function	getprivateattribute	function
dostarttextfile	function	getprivatechar	function
dostoptextfile	function	getrandomcounta	function
elapsedtime	function	getrandomcountb	function
enablecolor	function	getrandomseed	function
enablecolorintents	function	getreadfilename	function
enablefontcolorschemes	function	gettexbuffer	function
enableregime	function	gettwopassdata	function
enablespellchecking	function	gettwopassdatalist	function
enabletransparency	function	geturl	function
enhancelinkedlist	function	grabbuffer	function
enhancelist	function	helpaction	function
erasebuffer	function	helpreference	function
exportformdata	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	

N righthyphenmin		placeparallel	function
F setcharacters		popfloat	function
incrementedstructurecounter	function	popitaliccorrection	function
insertattachment	function	poplist	function
insertcomment	function	prepareMPvariable	function
insertfield	function	preparebibtexsession	function
insertrenderingwindow	function	preparedfile	function
insertsoundclip	function	presetsymbollist	function
isleapyear	function	presettabulate	function
languagenumber	function	prevstructurecounter	function
laststructurecounter	function	processbuffer	function
lchexnumber	function	processedfile	function
lchexnumbers	function	processedfiles	function
leapyear	function	processfile	function
listlabel	function	processfilemany	function
listlocation	function	processfilenone	function
listprefixednumber	function	processfileonce	function
listprefixedpage	function	processlist	function
listrealpage	function	pushfloat	function
listsize	function	pushitaliccorrection	function
listtitle	function	pushlist	function
listuserdata	function	rawcharacter	function
loadctxpreplist	function	rawdate	function
loadexamodes	function	referencepagestate	function
loadfontgoodies	function	referencerealpage	function
loadspellchecklist	function	registerattachment	function
loadtypescriptfile	function	registerbibtexentry	function
loadvisualizer	function	registerbibtexfile	function
locatefilepath	function	registerbookmark	function
locfilename	function	registerbuttons	function
maxitemwidth	function	registercolor	function
minute	function	registercolorintent	function
molecule	function	registeredviewerlayer	function
month	function	registerhelp	function
monthmnem	function	registeritemgroup	function
monthname	function	registermaintextcolor	function
mpcolor	function	registernamespace	function
mpoptions	function	registerpostponedblock	function
namedstructureuservariable	function	registersoundclip	function
namedstructurevariable	function	registerstructureprocessor	function
nbfs	function	registertransparency	function
nextparallel	function	registerunit	function
nextstructurecounter	function	relatemarking	function
nofdays	function	removemissingcharacters	function
nofitems	function	replacemissingcharacters	function
nofstackedfloats	function	replacepospxywhd	function
ntimes	function	resavefloat	function
number	function	resetfontfeature	function
octnumber	function	resetmarking	function
octstringtonumber	function	resetmathitalics	function
ordinal	function	resetnullfont	function
overloadbookmark	function	resetparallel	function
pdfrotation	function	resetstructurecounter	function
percentageof	function	resetstructureprocessor	function

resettimer	function	settagsynonym	function
restartstructurecounter	function	settagtablecell	function
restorecurrentattributes	function	settagtabulatecell	function
restorestructurecounter	function	setupbookmarks	function
romannumerals	function	setupcanvas	function
runbuffer	function	setupcharacterspacing	function
savebuffer	function	setupexport	function
savecurrentattributes	function	setupfontexpansion	function
savefloat	function	setupfontprotrusion	function
saveparallel	function	setupidentity	function
savestructureblock	function	setupitaliccorrection	function
savestructurecounter	function	setxmpfile	function
savetaggedtwopassdata	function	showchardata	function
savetwopassdata	function	showfontparameters	function
second	function	showhyphenatedinlist	function
selectstructureblock	function	showstructurecounter	function
setbreakpoints	function	splitfilename	function
setcharactercasing	function	spotcolorname	function
setcharactercleaning	function	spotcolorparent	function
setcharacterkerning	function	spotcolorvalue	function
setcharacterspacing	function	startcolorset	function
setcharacterstripping	function	startcomponent	function
setclosedocumentaction	function	startenvironment	function
setclosepageaction	function	startproduct	function
setcolormodel	function	startproject	function
setdigitsmanipulation	function	startregime	function
setfontfeature	function	starttag	function
setfontofid	function	starttext	function
setformat	function	startviewerlayer	function
setformsmethod	function	stopcolorset	function
setmarking	function	stopcomponent	function
setmathalphabet	function	stopenvironment	function
setmathalternate	function	stopproduct	function
setmathattribute	function	stopproject	function
setmathitalics	function	stopregime	function
setmathstyle	function	stoptag	function
setopendocumentaction	function	stoptext	function
setopenpageaction	function	stopviewerlayer	function
setownstructurecounter	function	storejavascriptcode	function
setpagetransition	function	storejavascriptpreamble	function
setrandomseed	function	structureautocatcodedget	function
setrealign	function	structurecatcodedget	function
setreferencearguments	function	structurecountersubs	function
setreferenceoperation	function	structurecountervalue	function
setstructureblockstate	function	structuregivencatcodedget	function
setstructurecounter	function	structurenumber	function
settagcombination	function	structuretitle	function
settagdescription	function	structureuservariable	function
settagdescriptionsymbol	function	structurevariable	function
settagfigure	function	subff	function
settaghighlight	function	subfs	function
settagitemgroup	function	synchronizemarking	function
settagproperty	function	taggedmathfunction	function
settagsorting	function	testcase	function

textime	function	usesymbols	function
transparencycomponents	function	usetexfile	function
triggereffect	function	useurl	function
triggernegative	function	usexmlfile	function
truefilename	function	usezipfile	function
typebuffer	function	utfchar	function
typefile	function	vspacing	function
typestring	function	vspacingcollapse	function
uchexnumber	function	vspacingdefine	function
uchexnumbers	function	vspacingsetamount	function
unicodechar	function	vspacingsnap	function
unit	function	weekday	function
updatefilenames	function	weekdayname	function
useMPlibrary	function	widthofstring	function
useanyfile	function	writestatus	function
usecldfile	function	x_table_cleanup	function
usecolors	function	x_table_construct	function
usecomponent	function	x_table_create	function
useenvironment	function	x_table_flush	function
usefile	function	x_table_init_construct	function
usejavascriptpreamble	function	x_table_init_reflow_height	function
usejavascriptscripts	function	x_table_init_reflow_width	function
uselibrary	function	x_table_next_row	function
useluafile	function	x_table_reflow_height	function
usemodules	function	x_table_reflow_width	function
usepath	function	x_table_set_construct	function
useproduct	function	x_table_set_reflow_height	function
useproject	function	x_table_set_reflow_width	function
usesubpath	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	**luafilechunk**	function
arguments	data table	**originalarguments**	data table
engineflags	data table	**outputfilename**	string
files	table	**ownbin**	string
filesynonyms	data table	**ownname**	string
homedir	string	**ownpath**	string
initex	boolean	**rawarguments**	data table
initializearguments	function	**reconstructcommandline**	function
inputfilebarename	string	**setargument**	function
inputfilename	string	**splitarguments**	function
inputfilesuffix	string	**texfile**	function
jobfilename	string	**texmfos**	string
jobfilesuffix	string	**texos**	string
loadedluacode	function	**texroot**	string
loadluafile	function	**truefilename**	function
luafile	function		

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		

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                             T designsizes
    N privateoffset                               D data
    F readanddefine                               F filename
    F registerfeature                             F register
    B resolvevirtualtoo                       F getcompositions
    F scale                                   T list
    F scaled                                      F compositions
    F setfactor                                   F designsizes
    F setname                                     F expansions
    N version                                     F featureset
current        function                           F files
currentid      function                           F mathematics
definers       table                              F protrusions
    F addlookup                                   F solutions
    F analyze                                     F typefaces
    F applypostprocessors                     F load
    F checkedmode                             F prepare_features
    F checkedscript                           F register
    F current                                 F registerpostprocessor
    S defaultlookup                           F report
    F define                          handlers       table
    F getspecification                        T afm
    F loadfont                                    B addkerns
    F makespecification                           B addligatures
    T methods                                     B addtexligatures
      F install                                   B autoprefixed
      D variants                                  D cache
    F read                                        D features
    F register                                    F load
    F registered                                  F setfeatures
    F registersplit                               B syncspace
    F resetnullfont                               N version
    F resolve                                 T otf
    T resolvers                                   F addfeature
      F file                                      D cache
      F name                                      T chainhandlers
      F spec                                        F normal
definetypeface  function                            F verbose
```

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

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

img (basic tex)

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

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 check
- F collapse
- F families
- F italics
- F relocate
- F render
- F resize
- F respace
- F tags
- F unscript

- F variants

process   function

processors table
- T collapse
- F mlist_to_hlist
- T relocate
- T render
- T resize
- T respace
- T 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		
F pdfliteral		
F pdfrestore		
F pdfsave		
F pdfsetmatrix		
F penalty		
F register		
F rightmarginkern		
F rightskip		
F rule		
F shrink		
F special		
F stretch		
F temp		
F textdir		
F usage		
T userids		
N margins.inline		
N splitters.one		
N splitters.two		
F userlist		
F usernumber		
F userstring		
F usertokens		
F zeroglue		
print	function	
processors	table	
B enabled		
F hpack_filter		
F post_linebreak_filter		
F pre_linebreak_filter		
F tracer		
processwords	function	
reference	function	
references	table	
N attribute		
T done		
F handler		
T stack		
remove	function	
repackhlist	function	
replace	function	
report	function	
rightmarginwidth	function	
rules	table	
D data		
F define		
F enable		
F handler		
save	function	
serialize	function	
serializebox	function	
setattribute	function	
setattributes	function	

setunsetattributes	function	
shifts	table	
D data		
F define		
F enable		
F handler		
show	function	
showboxes	function	
showcodes	function	
showlist	function	
showsimplelist	function	
skipcodes	data table	
somepenalty	function	
somespace	function	
stripping	table	
T glyphs		
F set		
striprange	function	
tasks	table	
F actions		
F appendaction		
F disableaction		
F disablegroup		
F enableaction		
F enablegroup		
F freeze		
F freezegroup		
F new		
F prependaction		
F removeaction		
F restart		
F showactions		
F table		
textdir_is_equal	data table	
textdir_is_is	data table	
textdir_is_opposite	data table	
textdir_is_parallel	data table	
tonodes	function	
tosequence	function	
totable	function	
toutf	function	
tracers	table	
T characters		
F collect		
F equal		
F indices		
F start		
F string		
F unicodes		
T colors		
F reset		
F set		
F fontchar		
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

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		F	keep-open
_DEBUG	boolean		**skip**	function
bind	function		**sleep**	function
choose	function		**smtp**	table
connect	function		S	DOMAIN
dns	table		N	PORT
F	gethostname		S	SERVER
F	tohostname		N	TIMEOUT
F	toip		S	ZONE
ftp	table		F	message
S	PASSWORD		F	open
N	PORT		F	send
N	TIMEOUT		**source**	function
S	USER		**sourcet**	table
F	command		F	by-length
F	get		F	default
F	open		F	http-chunked
F	put		F	until-closed
gettime	function		**tcp**	function
http	table		**tp**	table
N	PORT		N	TIMEOUT
N	TIMEOUT		F	connect
S	USERAGENT		**try**	function
F	open		**udp**	function
F	request		**url**	table
newtry	function		F	absolute
protect	function		F	build
select	function		F	build_path
sink	function		F	escape
sinkt	table		F	parse
F	close-when-done		F	parse_path
F	default		F	unescape
F	http-chunked			

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 addto		
F restore			F analyze		
F save			D cached		
F set			D collected		
F setlevel			F doifstoredelse		
F setoffset			F enhance		
F setown			T enhancers		
F setstate			F filter		
F setvalue			F filtercollected		
F show			F formulanumber		
T specials			F hasnumberdata		
F userpage			F haspagedata		
F subs			D internals		
D tobesaved			F label		

```
    F location                          F internal
    F number                            F internalid
    D ordered                           F listindex
    F page                              F number
    F popnesting                        F ordered
    F prefix                            F postpone
    F prefixednumber                    F resetpostponed
    F prefixedpage                      F restore
    F process                           F save
    D pushed                            F setstate
    F pushnesting                       F setsymbolpage
    F realpage                          D states
    T result                            F store
    F savednumber                       F title
    F savedprefixednumber        pages                    table
    F savedtitle                        F analyze
    F sectionnumber                     D collected
    F size                              F is_odd
    F title                             F number
    D tobesaved                         F save
    F userdata                          D tobesaved
    F uservalue                  references               table
marks                    table          F analyze
    D data                              F checkedfile
    F define                            F checkedfileorurl
    F exists                            F checkedprogram
    F fetch                             F checkedrealpage
    F fetchallmarks                     F checkedurl
    F fetched                           D collected
    F fetchonemark                      U componentsplitter
    F fetchtwomarks                     F currentmetadata
    F get                               F currentorder
    F number                            D currentset
    F relate                            F define
    F reset                             D defined
    F set                               D derived
    F show                              F doifelse
    F synchronize                       F enableinteraction
    F title                             F enhance
    T tracers                           D executers
       F showtable                      F expandcurrent
notes                    table          F export
    F checkpagechange                   T files
    F define                               T data
    F deltapage                            F define
    F doifcontent                          F get
    F doifonsamepageasprevious          F filter
    F flush                             D filters
    F flushpostponed                    F from
    F get                               F get
    F getn                              F getcurrentmetadata
    F getnumberpage                     F getcurrentprefixspec
    F getstate                          F getinnermethod
    F getsymbolpage                     F getinternalreference
```

```
D handlers                                    F section
F identify                                    F userpage
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 register		
D registered		
F reportstructure		
F save		
F set		
F setblock		
F setchecker		
F setlevel		
F setnumber		
F somelevel		
F startautolevel		
F stopautolevel		
F structuredata		
F title		
D tobesaved		
F typesetnumber		
F userdata		
B verbose		
F way		
sets	table	
F define		
F get		
F getall		
D setlist		
specials	table	
D collected		
F retrieve		
F store		
D tobesaved		
synonyms	table	
F analyzed		
D collected		
F compare		
F define		
F filter		
F finalize		
F flush		

F meaning		
F prepare		
F process		
F register		
F registerused		
F sort		
F synonym		
D tobesaved		
tags	table	
T data		
F detailedtag		
F getid		
F handler		
D labels		
F last		
F lastinchain		
T metadata		
D properties		
F registerdata		
F registermetadata		
F restart		
F setattributehash		
F setcombination		
F setdescription		
F setdescriptionsymbol		
F setfigure		
F sethighlight		
F setitemgroup		
F setproperty		
F setsorting		
F setsynonym		
F settablecell		
F settabulatecell		
F start		
F stop		
D taglist		
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			

token (basic tex)

tokens (context)

bgroup	table		T show_methods
collectors	table		F a
	T data		F b
	F defaultwords		F c
	F dowithwords		F showtoken
	F flush		F test
	F handle		F trace
	F install	**egroup**	table
	F register	**hbox**	table
	T registered	**letter**	function
	T remapper	**letters**	function
	F convert	**other**	function
	T data	**vbox**	table
	F store	**vtop**	table
	F show		

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

alignments   table
- F handler
- F set

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

F upper		**lshow**	function
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

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

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			