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

		_	
set	table	tokens	table
setfenv	function	tonumber	function
setmetatable	function	tostring	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
structures	table	utf	table
table	table	utilities	table
tex	table	visualizers	table
texconfig	table	xml	table
texio	table	xpcall	function
toboolean	function	zip	table
tocontext	function	zlib	table
token	table		

## attributes (context)

color	rintents table	F spotcolorval	116
	attribute	B supported	uc
	data	F transparency	components
	enable	B triggering	oomponon ob
	handler	F usecolors	
	register	F value	
	registered	D values	
color	_	B weightgray	
	attribute	define	function
		effects	table
	cmyk cmykt ograv	N attribute	table
	cmyktogray	D data	
	cmyktorgb	F enable	
	colorcomponents	F enable F handler	
	couple data		
_		F register	
	default	D registered	
	defineintermediatecolor	D values handlers	+-61-
	definemultitonecolor		table data table
	defineprocesscolor	list	
	definesimplegray	names	data table
	definespotcolor	negatives	table
	definetransparency	N attribute	
	enable	D data	
	filter	F enable	
	forcedmodel	F handler	
	forcesupport	F register	
	formatcolor	D registered	1
	formatgray	numbers	data table
	gray	ofnode	function
	graytohsv	private	function
	handler	states	table
	hsvtogray	F disabletrigg	
	hsvtorgb	F enabletrigge	ring
	iccprofile	F finalize	
	isblack .	F initialize	
	main	F process	
	model	F selective	
	mpcolor	F stacked	+-bl-
	none	-	table
	register	N attribute	
	registered	D data	
	registerspotcolor	F enable	
	rgb	F forcesupport	
	rgbtocmyk	F handler	
	rgbtogray	U none	
	rgbtohsv	F register	
	selector	D registered	
	setmodel	B supported	
	spot	B triggering	
	spotcolorname	F value	
F	spotcolorparent	D values	

# unsetvalue number viewerlayers table

N attribute

D data

F define F enable

 ${\tt F} \ {\tt forcesupport}$ 

F handler

B hasorder

D listwise

F register

D registered

D scopes

F setfeatures

F start

F stop

B supported

D values

backends (context)

codeinjections table F setxmpfile current string F supportedformats defaults table F useviewerlayer T codeinjections F validfield T nodeinjections F validfieldcategory T registrations F validfieldset D tables S comment install function T nodeinjections nodeinjections table F addtags nothing function F attachfile pdf table F cmykcolor T codeinjections F comment F addbookmarks F destination F adddocumentinfo F effect F addtransparencygroup F graycolor F attachmentid F injectbitmap F clonefield F insertmovie F definefield F insertsound F definefieldset F insertswf F defineviewerlayer F insertu3d F embedfile F knockout F enabletags F negative F finalizepage F overprint F finishreference F positive F getdefaultfieldvalue F reference F getfieldcategory F rgbcolor F getfieldset F spotcolor F getformatoption F startlayer F getoutputfilename F stoplayer F insertrenderingwindow F switchlayer F mergereferences F transparency F mergeviewerlayers F typesetfield F prerollreference T registrations F presetsymbol F cmykindexcolor F presetsymbollist F cmykspotcolor F processrendering F grayindexcolor F registerdocumentcloseaction F grayspotcolor F registerdocumentopenaction F rgbindexcolor F registeredsymbol F rgbspotcolor F registerpagecloseaction F spotcolorname F registerpageopenaction F transparency F registersymbol T tables F setfieldcalculationset T vfspecials F setfigurealternative T black F setfigurecolorspace T blue F setfiguremask T green F setformat T red F setformsmethod F startslant F setpagetransition T stopslant F setupcanvas registrations table tables table F setupidentity

## 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		<pre>load function</pre>
F short		new function
authoryearref	function	singularorplural function
authoryearsref	function	<pre>statistics table</pre>
convert	function	N nofbytes
hacks	table	N nofdefinitions
F add		N nofshortcuts
F doifalreadypla	ced	toxml function
F filterall		

#### blobs (context)

append function
new function

pack function
write function

#### boolean (context)

tocontext function
tonumber function

## buffers (context)

append	function	F	define	
assign	function	F	hassomeconter	nt
collectcontent	function	F	next	
erase	function	F	place	
exists	function	F	reset	
getcontent	function	F	save	
getlines	function	raw		fu
parallel	table			

function

#### builders (context)

#### kernel table F hyphenation F kerning F ligaturing F mlist\_to\_hlist paragraphs table ${\tt T} \ {\tt constructors}$ N attribute F disable F enable F handler T methods F default F oneline D names D numbers F register F set ${\tt T}$ solutions T splitters F define F disable

```
F enable
        F optimize
        F setup
        F split
vspacing
               table
    F analyze
    D categories
    F collapsevbox
    T data
      D map
      D skip
      D snapmethods
    {\tt F} \ {\tt 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
${\tt collapsecontent}$	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
${ t getreadable} { t paths}$	function	treehash	function
${ t getwritable path}$	function	${\tt usedpaths}$	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
adobename	function
bidi	data table
blocks	data table
casemap	table
categories	data table
category	function
categorytags	data table
contextname	function
data	data table
define	function
${ t description}$	function
descriptions	data table
directions	data table
enccodes	data table
fallbacks	data table
filters	data table
flush	function
fromnumber	function
fschars	data table
fscodes	data table
getrange	function
graphemes	data table
hangul	table
E docomposed	

F description
F leadconsonant
T remapped

is\_character data table
is\_command data table

is\_letter data table is\_spacing data table lcchars data table lccode function data table lccodes lettered function lower function makeactive function math table mathpairs data table ranges data table remapentity function setcodes function shape function shaped function shchars data table shcodes data table specialchars data table data table synonyms tex table

D accentmapping F defineaccents

F toutf

tonumber function
ucchars data table
uccode function
uccodes data table
unicodechar function
upper function

#### chemicals (context)

component	function
define	function
format	string
inline	function
instance	string
molecule	function

moleculeparseruserdatastartfunctionstopfunctionstructuresnumberundefinefunction

#### commands (context)

Alphabetic	function	definelinkedlist	function
Character	function	definemarking	function
Characters	function	definemultitonecolor	function
MPd	function	defineparallel	function
MPh	function	defineprocesscolor	function
MP11	function	definespotcolor	function
MPlr	function	definetransparency	function
МРр	function	defineviewerlayer	function
MPplus	function	${\tt defrostrandomseed}$	function
MPpos	function	disableregime	function
MPrest	function	${\tt doanalyzeframedbox}$	function
MPul	function	doif	function
MPur	function	doifblackelse	function
MPw	function	doifcommonelse	function
MPx	function	${\tt doifdimenstringelse}$	function
MPxy	function	${\tt doifdrawingblackelse}$	function
MPy	function	doifelse	function
Romannumerals	function	doifelsebuffer	function
${\tt abjadnodotnumerals}$	function	doifelsecurrentfonthasfeature	function
abjadnumerals	function	doifelsemarking	function
addff	function	doifelseparallel	function
addfs	function	doifelsespaces	function
${\tt addlinklistelement}$	function	doifelsevisualizer	function
alphabetic	function	${\tt doiffieldcategoryelse}$	function
applytochars	function	doiffieldelse	function
applytowords	function	doiffieldsetelse	function
assignbuffer	function	doiffiledefinedelse	function
autonextspace	function	doiffileexistelse	function
autosetups	function	doifinputfileelse	function
boolcase	function	doifinsetelse	function
character	function	doifleapyearelse	function
characters	function	doifnot	function
checkedconversion	function	doifolderversionelse	function
checkfilename	function	doifoverlappingelse	function
chineseallnumerals	function	doifparentfileelse	function
chinesecapnumerals	function	doifpositionelse	function
chinesenumerals	function	doifpositionsonsamepageelse	function
cleanfontname	function	doifpositionsonthispageelse	function
clonefield	function	doifsavedfloatelse	function
collecthelp	function	doifurldefinedelse	function
colorcomponents	function	doprocesstypescriptfile	function
copyposition	function	doreadfile	function
currentdate	function	doreshapeframedbox	function
currentregime	function	elapsedtime	function
dayname	function	enablecolor	function
defineattribute	function	enablecolorintents	function
definebibtexsession	function	enableregime	function
defineconversion	function	enabletransparency	function
definefield	function	enhancelinkedlist	function
definefieldset	function	erasebuffer	function
defineintermediatecolor	function	featureattribute	function

feedback	function	mpcolor	function
fetchallmarks	function	nbfs	function
fetchonemark	function	nextparallel	function
fetchtwomarks	function	nofdays	function
firstinlist	function	number	function
fontchar	function	octnumber	function
fontlookupgetkey	function	octstringtonumber	function
fontlookupgetkeyofindex	function	ordinal	function
fontlookupinitialize	function	percentageof	function
fontlookupnoffound	function	placeparallel	function
formatcolor	function	preparebibtexsession	function
formatgray	function	preparedfile	function
freezerandomseed	function	presetsymbollist	function
getbuffer	function	presettabulate	function
getbufferctxlua	function	processbuffer	function
getbuffermkvi	function	processfile	function
getdefaultfieldvalue	function	rawcharacter	function
getfieldcategory	function	readfilename	function
getmarking	function	registerattachment	function
getprivateattribute	function	registerbibtexentry	function
getrandomcounta	function	registerbibtexfile	function
getrandomcountb	function	registerbuttons	function
getrandomseed	function	registercolor	function
grabbuffer	function	registercolorintent	function
helpaction	function	registerhelp	function
helpreference	function	registermaintextcolor	function
hexstringtonumber	function	registersoundclip	function
hour	function	registertransparency	function
hyphenatedlist	function	relatemarking	function
hyphenatedurl	function	${\tt replacepospxywhd}$	function
D characters		resetfontfeature	function
N lefthyphenmin		resetmarking	function
${\tt N}$ righthyphenmin		resetparallel	function
F setcharacters		resettimer	function
insertattachment	function	romannumerals	function
insertcomment	function	runbuffer	function
insertfield	function	savebuffer	function
${\tt insertrenderingwindow}$	function	saveparallel	function
insertsoundclip	function	second	function
isleapyear	function	setclosedocumentaction	function
${ t last existing file}$	function	${ t setclosepageaction}$	function
lchexnumber	function	setcolormodel	function
lchexnumbers	function	setfontfeature	function
leapyear	function	setformat	function
${ t loadctxpreplist}$	function	setformsmethod	function
loadexamodes	function	setmarking	function
${\tt locatefilepath}$	function	${ t set open document action}$	function
logoptionfile	function	setopenpageaction	function
maxreadlevel	function	setpagetransition	function
minute	function	setrandomseed	function
molecule	function	setrastercolor	function
month	function	setrealign	function
monthmnem	function	setreferencearguments	function
monthname	function	setreferenceoperation	function

setupcanvas	function	transparencycomponents	function
setupfontexpansion	function	triggereffect	function
setupfontprotrusion	function	triggernegative	function
setupidentity	function	typebuffer	function
setxmpfile	function	typefile	function
showchardata	function	typestring	function
showfontparameters	function	uchexnumber	function
${ t showhyphenatedinlist}$	function	uchexnumbers	function
splitfilename	function	unicodechar	function
splitfiletype	function	${\tt updatefilenames}$	function
spotcolorname	function	usecolors	function
spotcolorparent	function	uselibrary	function
spotcolorvalue	function	usemodules	function
startregime	function	${\tt usepath}$	function
stopregime	function	${\tt usesubpath}$	function
subff	function	usesymbols	function
subfs	function	usezipfile	function
synchronizemarking	function	weekday	function
testcase	function	weekdayname	function
textime	function	writestatus	function
thesanitizedfilename	function	year	function

#### containers (context)

cleanname	function	is_valid	function
content	function	read	${\tt function}$
define	function	usecache	boolean
is_usable	function	write	${\tt function}$

#### converters (context)

Alphabetic	function	leapyear	function
Character	function	maxchrs	function
Characters	function	minute	function
Romannumerals	function	month	function
${\tt abjadnodotnumerals}$	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)

сосо	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	${ t globpattern}$	function
current	function	ls	function
expandname	function	makedirs	function
glob	function	mkdirs	function
globfiles	function		

#### directives (context)

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

#### document (context)

argumentsdata tablefilestablegetargumentfunctiongetfilenamefunction

setargumentfunctionsetdefaultargumentfunctionsetfilenamefunction

#### environment (context)

le
le

# 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)

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

#### file (basic lua)

addsuffix	function	joinpath	function
basename	function	loadchecksum	function
checksum	function	nameonly	function
collapsepath	function	needs_updating	function
сору	function	readdata	function
dirname	function	removesuffix	function
expandname	function	replacesuffix	function
extname	function	robustname	function
is_qualified_path	function	savechecksum	function
is_readable	function	savedata	function
is_rootbased_path	function	${ t split name}$	function
is_writable	function	${ t split path}$	function
isreadable	function	strip	function
iswritable	function	suffix	function
join	function		

## floats (context)

analysemethod	function	resave	function
collect	function	save	function
consult	function	stacked	function
flush	function	${\tt thecheckedpagefloat}$	function
pop	function	thestacked	function
push	function	thevar	function

## font (basic tex)

current	function	id	function
define	function	max	function
each	function	nextid	function
fonts	table	${\tt read\_tfm}$	function
frozen	function	${\tt read\_vf}$	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	B resolvevirtu	altoo
D initializers	F scale	
D methods	F scaled	
F setstate	F setfactor	
B useunicodemarks	F setname	
checkers table	N version	
B delete	current	function
F enable	currentid	function
B enabled	definers	table
F missing	F addlookup	
cid table	F analyze	
F getmap	F applypostpro	cessors
F loadfile	F current	
collections table	S defaultlooku	ıp
F define	F define	
T definitions	F getspecifica	tion
F message	F loadfont	
F prepare	F makespecific	ation
F process	T methods	
F reset	F install	
F stage_one	D variants	
F stage_two	F read	
T vectors	F register	
constructors table	F registered	
F applymanipulators	F registerspli	t
F assignmathparameters	F resetnullfor	ıt
B autocleanup	F resolve	
D cache	T resolvers	
F calculatescale	F file	
F checkedfeatures	F name	
F checkedfilename	F spec	
F cleanuptable	F stage_one	
F collectprocessors	F stage_two	
D designsizes	definetypeface	function
D dontembed	encodings	table
N factor	T agl	
F finalize	D cache	
F getfeatureaction	F is_known	
F hashfeatures	D known	
F hashinstance	F load	
T hashmethods	F make_unicode	vector
F normal	D math	_
F virtual	N version	
F initializefeatures	expansions	data table
D loadedfonts	formats	data table
T mathactions	goodies	table
S namemode	T colorschemes	
F newfeatures	F coloring	
N privateoffset	T data	
F readanddefine	F enable	
F registerfeature	F get	
1 108120011000016	r Ren	

F getcompositions	F combine
T list	T combiner
F compositions	D commands
F expansions	F find
F featureset	D helpers
F files	D math
F mathematics	D predefined
F protrusions	D whatever
F solutions	hashes table
F typefaces	D characters
F prepare_features	T dynamics
F register	D identifiers
F report	D parameters
handlers table	T processes
T afm	D quads
B addkerns	T setdynamics
B addligatures	D xheights
B addtexligatures	helpers table
	F dimenfactor
B autoprefixed D cache	
D features	F gettagrameters
F load	F getparameters F nametoslot
F setfeatures	
	F setdigitwidth iterators table
B syncspace N version	
	F descriptions
T otf	F descriptions
F addfeature	F glyphs
D1	
D cache	loggers table
T chainhandlers	loggers table F format
T chainhandlers F normal	<pre>loggers table    F format    F onetimemessage</pre>
T chainhandlers F normal F verbose	loggers table F format F onetimemessage F register
T chainhandlers F normal F verbose F collectlookups	loggers table F format F onetimemessage F register F reportdefinedfonts
T chainhandlers F normal F verbose F collectlookups F dataset	loggers table F format F onetimemessage F register F reportdefinedfonts F reportusedfeatures
T chainhandlers F normal F verbose F collectlookups F dataset D enhancers	loggers table F format F onetimemessage F register F reportdefinedfonts F reportusedfeatures mappings table
T chainhandlers F normal F verbose F collectlookups F dataset D enhancers D features	loggers table F format F onetimemessage F register F reportdefinedfonts F reportusedfeatures mappings table F addtounicode
T chainhandlers F normal F verbose F collectlookups F dataset D enhancers D features F getalternate	loggers table F format F onetimemessage F register F reportdefinedfonts F reportusedfeatures mappings table F addtounicode F loadfile
T chainhandlers F normal F verbose F collectlookups F dataset D enhancers D features F getalternate T glists	F format F onetimemessage F register F reportdefinedfonts F reportusedfeatures  mappings table F addtounicode F loadfile F loadline
T chainhandlers F normal F verbose F collectlookups F dataset D enhancers D features F getalternate T glists F load	F format F onetimemessage F register F reportdefinedfonts F reportusedfeatures  mappings table F addtounicode F loadfile F loadline F loadlumtable
T chainhandlers F normal F verbose F collectlookups F dataset D enhancers D features F getalternate T glists F load F scriptandlanguage	F format F onetimemessage F register F reportdefinedfonts F reportusedfeatures  mappings table F addtounicode F loadfile F loadline F loadlumtable F makenameparser
T chainhandlers F normal F verbose F collectlookups F dataset D enhancers D features F getalternate T glists F load F scriptandlanguage F setcontextchain	F format F onetimemessage F register F reportdefinedfonts F reportusedfeatures  mappings table F addtounicode F loadfile F loadline F loadlumtable F makenameparser F reset
T chainhandlers F normal F verbose F collectlookups F dataset D enhancers D features F getalternate T glists F load F scriptandlanguage F setcontextchain F setdynamics	F format F onetimemessage F register F reportdefinedfonts F reportusedfeatures mappings table F addtounicode F loadfile F loadline F loadlumtable F makenameparser F reset F tounicode16
T chainhandlers F normal F verbose F collectlookups F dataset D enhancers D features F getalternate T glists F load F scriptandlanguage F setcontextchain F setdynamics F setfeatures	F format F onetimemessage F register F reportdefinedfonts F reportusedfeatures  mappings table F addtounicode F loadfile F loadline F loadlumtable F makenameparser F reset F tounicode16 F tounicode16sequence
T chainhandlers F normal F verbose F collectlookups F dataset D enhancers D features F getalternate T glists F load F scriptandlanguage F setcontextchain F setdynamics F setfeatures T tables	F format F onetimemessage F register F reportdefinedfonts F reportusedfeatures mappings table F addtounicode F loadfile F loadline F loadlumtable F makenameparser F reset F tounicode16 F tounicode16sequence names table
T chainhandlers F normal F verbose F collectlookups F dataset D enhancers D features F getalternate T glists F load F scriptandlanguage F setcontextchain F setdynamics F setfeatures T tables D baselines	F format F onetimemessage F register F reportdefinedfonts F reportusedfeatures mappings table F addtounicode F loadfile F loadline F loadlumtable F makenameparser F reset F tounicode16 F tounicode16sequence names table S basename
T chainhandlers F normal F verbose F collectlookups F dataset D enhancers D features F getalternate T glists F load F scriptandlanguage F setcontextchain F setdynamics F setfeatures T tables D baselines D features	F format F onetimemessage F register F reportdefinedfonts F reportusedfeatures  mappings table F addtounicode F loadfile F loadline F loadlumtable F makenameparser F reset F tounicode16 F tounicode16sequence names table S basename B be_clever
T chainhandlers F normal F verbose F collectlookups F dataset D enhancers D features F getalternate T glists F load F scriptandlanguage F setcontextchain F setdynamics F setfeatures T tables D baselines D features D languages	F format F onetimemessage F register F reportdefinedfonts F reportusedfeatures mappings table F addtounicode F loadfile F loadline F loadlumtable F makenameparser F reset F tounicode16 F tounicode16 F tounicode16sequence names table S basename B be_clever D cache
T chainhandlers F normal F verbose F collectlookups F dataset D enhancers D features F getalternate T glists F load F scriptandlanguage F setcontextchain F setdynamics F setfeatures T tables D baselines D features D languages D scripts	F format F onetimemessage F register F reportdefinedfonts F reportusedfeatures  mappings table F addtounicode F loadfile F loadline F loadlumtable F makenameparser F reset F tounicode16 F tounicode16sequence names table S basename B be_clever D cache F cleanfilename
T chainhandlers F normal F verbose F collectlookups F dataset D enhancers D features F getalternate T glists F load F scriptandlanguage F setcontextchain F setdynamics F setfeatures T tables D baselines D features D languages D scripts N version	F format F onetimemessage F register F reportdefinedfonts F reportusedfeatures  mappings table F addtounicode F loadfile F loadline F loadlumtable F makenameparser F reset F tounicode16 F tounicode16 F tounicode16sequence names table S basename B be_clever D cache F cleanfilename F cleanname
T chainhandlers F normal F verbose F collectlookups F dataset D enhancers D features F getalternate T glists F load F scriptandlanguage F setcontextchain F setdynamics F setfeatures T tables D baselines D features D languages D scripts N version T pfb	F format F onetimemessage F register F reportdefinedfonts F reportusedfeatures mappings table F addtounicode F loadfile F loadline F loadlumtable F makenameparser F reset F tounicode16 F tounicode16 F tounicode16equence names table S basename B be_clever D cache F cleanfilename F cleanname F collect
T chainhandlers F normal F verbose F collectlookups F dataset D enhancers D features F getalternate T glists F load F scriptandlanguage F setcontextchain F setdynamics F setfeatures T tables D baselines D features D languages D scripts N version T pfb T tfm	F format F onetimemessage F register F reportdefinedfonts F reportusedfeatures  mappings table F addtounicode F loadfile F loadline F loadlumtable F makenameparser F reset F tounicode16 F tounicode16 F tounicode16sequence names table S basename B be_clever D cache F cleanfilename F cleanname F collect F collectfiles
T chainhandlers F normal F verbose F collectlookups F dataset D enhancers D features F getalternate T glists F load F scriptandlanguage F setcontextchain F setdynamics F setfeatures T tables D baselines D features D languages D scripts N version T pfb T tfm D features	F format F onetimemessage F register F reportdefinedfonts F reportusedfeatures  mappings table F addtounicode F loadfile F loadline F loadlumtable F makenameparser F reset F tounicode16 F tounicode16 F tounicode16equence names table S basename B be_clever D cache F cleanfilename F cleanname F collect F collectfiles F collectspec
T chainhandlers F normal F verbose F collectlookups F dataset D enhancers D features F getalternate T glists F load F scriptandlanguage F setcontextchain F setdynamics F setfeatures T tables D baselines D features D languages D scripts N version T pfb T tfm D features F setfeatures F setfeatures F setfeatures	F format F onetimemessage F register F reportdefinedfonts F reportusedfeatures mappings table F addtounicode F loadfile F loadline F loadlumtable F makenameparser F reset F tounicode16 F tounicode16 F tounicode16sequence names table S basename B be_clever D cache F cleanfilename F cleanname F collect F collectfiles F collectspec T data
T chainhandlers F normal F verbose F collectlookups F dataset D enhancers D features F getalternate T glists F load F scriptandlanguage F setcontextchain F setdynamics F setfeatures T tables D baselines D features D languages D scripts N version T pfb T tfm D features	F format F onetimemessage F register F reportdefinedfonts F reportusedfeatures  mappings table F addtounicode F loadfile F loadline F loadlumtable F makenameparser F reset F tounicode16 F tounicode16 F tounicode16equence names table S basename B be_clever D cache F cleanfilename F cleanname F collect F collectfiles F collectspec

T filters	F writedata	
F afm	protrusions	data table
F dfont	readers	table
T list	F afm	
T names	F check_lua	
F otf	F check_tfm	
T paths	F dfont	
F pfb	F lua	
F ttc	F opentype	
F ttf	F otf	
S fontconfigfile	F pfb	
F getfilename	D sequence	
F getlookupkey	F tfm	
F getlookups	F ttc	
F getpaths	F ttf	
F identify	specifiers	table
F is_permitted	D contextmer	ged
F list	F contextnum	per
F load	D contextnum	pers
B loaded	D contextset	ıps
F lookup	F contexttos	tring
F noflookups	F mergeconte	ĸt
S osfontdirvariable	F presetconte	ext
F readdata	F registerco	ntext
F register	F showcontext	t
F registered	F splitconte	ĸt
F resolve	D synonyms	
F resolvedspecification	D variants	
F resolvespec	symbols	table
B saved	F uselibrary	
F specification	tables	table
D specifications	tracers	table
B 3	+	3-4-4-1-7-

F splitspec N version

typefaces

data table

## gzip (extra lua)

close function
lines function
open function

## img (basic tex)

boxes	function	ofindex	function
checksize	function	print	function
clone	function	scan	function
сору	function	serialize	function
immediatewrite	function	totable	function
keys	function	types	function
new	function	write	function
node	function		

#### interactions (context)

D preambles

attachments table F setpreamble F insert F storecode F register F storepreamble fields table F usepreamblenow F clone F usescripts linkedlists table F define F defineset pages table F insert F setpagetransition general table F setupcanvas F getidentity references table F setclosedocument F setupidentity table help F setclosepage F collect  ${\tt F} \ {\tt setopendocument}$ F reference F setopenpage F register renderings table javascripts table F register F addtopreamble F rendering F code F var soundclips table D codes F flushpreambles F insert D functions F register

### interfaces (context)

addvalidkeys	function	F define	
cachedsetups	data table	F list	
cachesetup	function	setconstant	function
complete	data table	setelement	function
constants	data table	setformat	function
definecommand	function	${ t setmessage}$	function
doifelsemessage	function	setmessages	function
elements	data table	settranslation	function
formats	data table	setuserinterface	function
${\tt getcheckedparameters}$	function	setvalidkeys	function
getmessage	function	setvariable	function
hashedsetups	data table	${ t showmessage}$	function
interfacedcommand	function	syntax	data table
interfaces	table	tolist	function
invalidkey	function	translations	data table
is_command	function	variables	data table
namespaces	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	F list		
files	table	F save		
D colle	ected	F savedat	a	
F conte	ext	F savetag	gged	
B force	erun	D tobesay	red	
F run		positions	table	
D tobes	saved	D collect	ced	
initializ	e function	F copy		
load	function	F depth		
objects	table	F extra		
D colle	ected	F height		
F doife	else	F lowerle	eft	
F get		F lowerri	ight	
F numbe	er	F onsame	F onsamepage	
F page		F overlap	F overlapping	
F save		F page	F page	
F set		F position	F position	
D tobes	saved	F replace	F replace	
pack	boolean	D tobesay	D tobesaved	
passes	table	F upperle	eft	
F check		F upperri	ight	
D colle	ected	F width		
F count	;	Fx		
F defin	ie	F xy		
F doifi	nlistelse	F y		
F find		register	function	
F first	:	save	function	
F get		variables	table	
F getco	ollected	ed D checksums		
F getda	ita	D collect	ced	
F getfi	eld	F save		
F getto	besaved	D tobesaved		
F last		version	number	

# lang (basic tex)

clean	function
<pre>clear_hyphenation</pre>	function
clear_patterns	function
exceptions	function
hyphenate	function
hyphenation	function
id	function

function
function

### languages (context)

associate function associated data table association function counters data table function current data table data define function exceptions function getnumber function hyphenate function installed function table labels

F define

lefthyphenmin function loadable function loadwords function table logger

F report

data table numbers

posthyphenchar function prehyphenchar registered righthyphenmin function setdirty synonymversion words

> F check T data F disable F enable T enablers B enables F found F load T methods N threshold

function data table function function number table

## 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
escape	function
get	function
htmfile	function
include	function
lmxfile	function
loadedfile	function
make	function
new	function
overloaderror	function
popupfile	function
print	function

pv	function
reset	function
result	function
set	function
show	function
showdebuginfo	function
showerror	function
tv	function
type	function
urlescape	function
variable	function
variables	data table

# logs (context)

application	function	setmessenger	function
		•	
categories	function	${ t setprogram}$	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
poptarget	function	simplelines	function
pushtarget	function	start_page_number	function
report	function	status	function
report_job_stat	function	stop_page_number	function
reportbanner	function	subdirect	function
reporter	function	subreport	function
reporters	function	system	function
reportline	function	${\tt texerrormessage}$	function
reportlines	function	writer	function
setformats	function		

# lpdf (context)

action	function	injectxmpinfo	function
adddocumentcolorspace	function	insertxmpinfo	function
adddocumentextgstate	function	javascript	function
adddocumentpattern	function	launch	function
adddocumentshade	function	layerreference	function
addtocatalog	function	limited	function
addtoinfo	function	linearshade	function
addtonames	function	link	function
addtopageattributes	function	null	function
addtopageresources	function	number	function
addtopagesattributes	function	object	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	referenceobject	function
collectedresources	function	registerannotation	function
color	function	registerdocumentfinalizer	function
colorspace	function	${\tt registerpagefinalizer}$	function
colorspec	function	reserveannotation	function
colorvalue	function	reserveobject	function
colorvalues	function	rgbcode	function
constant	function	rotationcm	function
deferredobject	function	shareobject	function
delayedobject	function	${ t share object reference}$	function
dictionary	function	spotcode	function
epdf	table	stream	function
F load		string	function
finalizedocument	function	timestamp	function
finalizepage	function	toeight	function
${ t finishtransparencycode}$	function	tosixteen	function
flushobject	function	transparency	function
formats	data table	transparencycode	function
graycode	function	transparencyvalue	function
id	function	unicode	function
immediateobject	function	verbose	function

# lpeg (basic lua)

C	function	counter	function
Carg	function	endstripper	function
Cb	function	firstofsplit	function
Cc	function	frontstripper	function
Cf	function	is_lpeg	function
Cg	function	keeper	function
Cmt	function	locale	function
Ср	function	match	function
Cs	function	oneof	function
Ct	function	patterns	data table
P	function	print	function
R	function	replacer	function
S	function	${\tt secondofsplit}$	function
UP	function	span	function
UR	function	split	function
US	function	splitat	function
V	function	splitter	function
anywhere	function	stripper	function
balancer	function	texlinesplitter	function
checkedsplit	function	type	function
count	function	version	function

### ltn12 (extra lua)

BLOCKSIZE		F simplify
filter	table	F table
F chain		<pre>source table</pre>
F cycle		F cat
pump	table	F chain
F all		F empty
F step		F error
sink	table	F file
F chain		F rewind
F error		F simplify
F file		F string
F null		

#### lua (basic tex)

bytecode table bytedata data table bytedone table delay function finalize function firstbytecode number flush function getbytecode function getluaname function lastbytecode number messages data table name table data table numbers registercode function registeredcodes function registerfinalizer function registernamefunction setbytecode function setluaname function startupfile string version string

# luatex (context)

${\tt cleanuptempfiles}$	function	showjobstat	function
registerstartactions	function	showtexstat	function
${\tt registerstopactions}$	function	starttime	number
registertempfile	function		

### lxml (context)

addindex	function	load	function
all	function	loadbuffer	function
applyfunction	function	loaddata	function
att	function	loaded	table
attribute	function	loadregistered	function
chainattribute	function	main	function
checkindex	function	match	function
collected	function	name	function
command	function	namespace	function
concat	function	nonspace	function
concatrange	function	pos	function
content	function	position	function
context	function	raw	function
convert	function	rawroot	function
count	function	register	function
delete	function	removesetup	function
direct	function	resetcdata	function
directives	table	resetsetups	function
F after		root	function
F before		serialize	function
F handle		setaction	function
F load		setcdata	function
F setup		$\verb"setcommand to none"$	function
${ t display}{ t verbatim}$	function	${\tt setcommandtotext}$	function
doif	function	setsetup	function
doifelse	function	setverbatim	function
doifelsetext	function	snippet	function
doifnot	function	sorters	table
doifnottext	function	F add	
doiftext	function	F compare	
element	function	F flush	
elements	function	F reset	
filter	function	F show	
filterlist	function	F sort	
first	function	splitid	function
flush	function	startraw	function
flushsetups	function	stopraw	function
<del>get_id</del>	function	store	function
getid	function	strip	function
getindex	function	stripped	function
id	function	tag	function
idsplitter	userdata	text	function
include	function	tofile	function
index	function	toparameters	function
info	function	toverbatim	function
inlineverbatim	function	verbatim	function
installsetup	function	withindex	function
last	function	xmltexhandler	data table

### math (basic lua)

abs	function
acos	function
asin	function
atan	function
atan2	function
ceil	function
cos	function
cosd	function
cosh	function
deg	function
div	function
even	function
exp	function
floor	function
fmod	function
frexp	function
huge	number
ldexp	function
log	function
log10	function

max	function
min	function
mod	function
modf	function
odd	function
pi	number
pow	function
rad	function
random	function
randomseed	function
round	function
setrandomseedi	function
sin	function
sind	function
sinh	function
sqrt	function
tan	function
tand	function
tanh	function

#### mathematics (context)

addfallbacks	function
alphabets	${\tt data}\ {\tt table}$
big	function
checkaccentbaseheight	function
checkprivateparameters	function
classes	data table
define	function
dimensions	function
extrabase	number
extras	table
F add	
F copy	
families	data table
initializeparameters	function
makefont	function
overloadparameters	function

privatebase remapalphabets scaleparameters setalternate syncboth syncname syncstyle toname tostyle utfmathclassutfmathcommand utfmathfiller utfmathstretch xml

number function table

D entities

F registerentities

### md5 (extra lua)

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

## metapost (context)

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

### mime (extra lua)

b64	function	qр	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	1
F base64		F defaul	Lt
F quoted	-printable	F quoted	d-printable
eol	function	F text	
normalize	function	wrp	function

## mplib (extra tex)

fields function
new function

pen\_info function
version function

### noads (context)

 $\begin{array}{c} \textbf{handlers} & \textbf{table} \\ & \textbf{F} \textbf{ check} \end{array}$ 

F collapse

F relocate F resize

F respace

F tags

process function
processors table

T collapse

F mlist\_to\_hlist

T relocate

T resize

T respace

### node (basic tex)

сору	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	<pre>protrusion_skippable</pre>	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	${\tt unprotect\_glyphs}$	function
insert_before	function	${\tt unset\_attribute}$	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
count	function	lines	table
delete	function	T boxed	
destinations	table	F register	
N attribute		F setup	
T done		F stage_one	
F handler		F stage_two	
T stack		F stage_zero	
dimensionfields	data table	D data	
dir_is_pop	data table	F finalize	
dir_negation	data table	F number	
fasthpack	function	N scratchbox	
fields	function	link	function
fillcodes	data table	list	function
firstcharacter	function	listablefields	data table
firstcharinbox	function	listcodes	data table
firstglyph	function	listtoutf	function
getattribute	function	load	function
gluecodes	data table	locate	function
glyphcodes	data table	mathcodes	data table
glyphdir_is_equal	data table	noadcodes	data table
glyphdir_is_opposite	data table	nodecodes	data table
glyphdir_is_orthogonal	data table	${\tt packlist}$	function
handlers	table	pardir_is_equal	data table
F accessibility		pardir_is_opposite	data table
F backgrounds		pardir_is_parallel	data table
F characters		partextdir_is_equal	data table
F checkforleaks		pool	table
F checkglyphs		F baselineskip	
F cleanuppage		F cleanup	
F export		F disc	
F finalize		F glue	
F graphicvadjust		F gluespec	
F migrate		F glyph	
F protectglyphs		F kern	
F stripping		F latelua	
F unprotectglyphs		F leftmarginkern	
has_attribute	function	F leftskip	
idstostring	function	F lineskip	
ignorablefields	data table	F noad	
injections	table	F pdfannotation	
F handler		F pdfdestination	
F setcursive		F pdfdirect	
F setkern		F pdfliteral	

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

F messages
F nofsteps
F register
F reset
F start
F stop
F stop

unsetattributes unsetattributes visualizebox whatcodes whatsitcodes writable\_spec function function function data table data table function

### number (context)

	function	todidots	function
basepoints	function	todimen	function
bit	function	toevenhex	function
bits	function	toinches	function
clearbit	function	tomillimeters	function
dimenfactors	data table	tonewciceros	function
hasbit	function	tonewdidots	function
maxdimen	number	tonumberf	function
percent	function	tonumberg	function
points	function	topicas	function
setbit	function	topoints	function
tobasepoints	function	toscaled	function
tobitstring	function	toscaledpoints	function
tocentimeters	function	toset	function
tociceros	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
${\tt gettimeofday}$	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	prepend to libpath	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

# profiler (extra lua)

pausefunctionstartfunctionresumefunctionstopfunction

# regimes (context)

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

# resolvers (context)

allprefixes	function	getownpath	function
appendhash	function	hashers	data table
automount	function	homedir	string
automounted	table	${\tt installinputfilehandler}$	function
booleanvariable	function	${\tt installinputlinehandler}$	function
cacheversion	string	instance	table
checkedvariable	function	D data	
cleanpath	function	B diskcache	
cleanpathlist	function	D environment	
concatinators	data table	D expansions	
configbanner	string	D fakepaths	
criticalvars	data table	D files	
dangerous	data table	B force_suffixes	
datastate	function	D found	
defaultsuffixes	table	D foundintrees	
${\tt dowithfiles} {\tt andreport}$	function	D hashed	
dowithfilesintree	function	D hashes	
${\tt dowithpath}$	function	D lists	
dowith variable	function	B loaderror	
env	function	D order	
executers	table	B remember	
F check		B renewcache	
F execute		B savelists	
F finalize		D setups	
F register		D specification	
expandbraces	function	D variables	
${\tt expandedpathfromlist}$	function	joinpath	function
${\tt expandedpathlist}$	function	load	function
${\tt expanded} path {\tt listfrom} variable$	function	loadbinfile	function
${\tt expandpath}$	function	loaders	data table
${\tt expandpathfromvariable}$	function	loadlualib	function
expansion	function	loadtexfile	function
${\tt extendtexmfvariable}$	function	locateformat	function
<pre>find_file</pre>	<b>function</b>	locators	data table
<pre>find_files</pre>	<u>function</u>	luacnfname	string
findbinfile	function	luacnfspec	string
findctxfile	function	luacnfstate	string
finders	data table	macros	table
findfile	function	F convertfile	
findfiles	function	F preprocessed	
findgivenfile	function	F processmkvi	
findgivenfiles	function	F version	
findpath	function	maxreadlevel	number
findtexfile	function	methodhandler	function
findwildcardfile	function	newinstance	function
findwildcardfiles	function	openbinfile	function
formatofsuffix	function	openers	data table
formatofvariable	function	openfile	function
formats	data table	opentexfile	function
generators	data table	ownpath	string
getenv	function	prefixes	data table

prependhash	function	setenv	function
${\tt registerextrapath}$	function	setinstance	function
registerfile	function	settrace	function
registerfilehash	function	showpath	function
registerintrees	function	${\tt splitconfiguration}{\tt path}$	function
registermethod	function	splitexpansions	function
registerzipfile	function	splitmethod	function
relations	data table	splitpath	function
repath	function	suffixes	data table
reset	function	suffixmap	data table
resetextrapath	function	suffixofformat	function
resetresolve	function	texdatablob	function
resolve	function	unexpandedpath	function
savers	data table	${\tt unexpandedpathlist}$	function
scanfiles	function	unresolve	function
schemes	table	updaterelations	function
T cleaners		updatescript	function
F md5		usezipfile	function
F none		validatedpath	function
F strip		variable	function
F cleanname		variableofformat	function
F install		${\tt variable of formator suffix}$	function
N threshold		wildcardpattern	function

### scripts (context)

categorytonumber data table cjk table colors data table handlers data table hash table installdataset function

installmethod numbertocategory data table numbertodataset preprocess reset set

 ${\tt function}$ data table function function function

### set (context)

contains function
create function
tolist function

tonumber function
totable function

# socket (extra lua)

BLOCKSIZE	number	F keep-	open
_DEBUG	boolean	skip	function
bind	function	sleep	function
choose	function	smtp	table
connect	function	S DOMAI	N
dns	table	N PORT	
F gethos	tname	S SERVE	R
F tohost	name	N TIMEO	UT
F toip		S ZONE	
ftp	table	F messa	ge
S PASSWO	RD	F open	
N PORT		F send	
N TIMEOU	T	source	function
S USER		sourcet	table
F comman	d	F by-le	ngth
F get		F defau	lt
F open		F http-	chunked
F put		F until	-closed
gettime	function	tcp	function
http	table	tp	table
N PORT		N TIMEO	UT
N TIMEOU	T	F conne	ct
S USERAG	ENT	try	function
F open		udp	function
F reques	t	url	table
newtry	function	F absol	ute
protect	function	F build	
select	function	F build	_path
sink	function	F escap	е
sinkt	table	F parse	
F close-	when-done	F parse	_path
F defaul	t	F unesc	ape
F http-c	hunked		

#### sorters (context)

r basic

constants table

S defaultdigits

S defaultlanguage

S defaultmethod

N digitsmaximum

N digitsoffset

N ignoredoffset

 ${\tt N}$  replacementoffset

definitions data table
firstofsplit function
setlanguage function
sort function
splitters table

F utf

stripfunctiontracersdata tableupdatefunction

#### statistics (context)

checkfmtstatus	function
elapsedindeed	function
elapsedseconds	function
elapsedtime	function
enable	boolean
formatruntime	function
hastiming	function
memused	function
register	function
reportstorage	function

resettiming function runtime function savefmtstatus function show function  ${ t showjobstat}$ function starttiming function stoptiming function threshold number timed function status (basic tex)

list function

# storage (context)

allocate function
data table
evaluators table
mark function
marked function
max number

min number
nofmodules number
noftables number
register function
shared data table

### 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
bytepairs	$ \hbox{function} $
bytes	$ \hbox{function} $
char	$ \hbox{function} $
characterpairs	$ \hbox{function} $
characters	$ \hbox{function} $
checkedsplit	${\tt function}$
count	${\tt function}$
dump	$ \hbox{function} $
escapedpattern	${\tt function}$
explode	$ \hbox{function} $
find	$ \hbox{function} $
format	$ \hbox{function} $
gfind	$ \hbox{function} $
gmatch	$ \hbox{function} $
gsub	$ \hbox{function} $
is_boolean	${\tt function}$
is_empty	${\tt function}$
len	$ \hbox{function} $
limit	function

function
function

### structures (context)

atlocation	function	D tobesaved	
blocks	table	F trace	
D collected	table	F value	
		currentsectionnumber	function
F define			table
F print		descriptions documents	
F save			table
F select		T data	
F setstate		S block	
D states		T blocks	
D tobesaved		T checkers	
bookmarks	table	N depth	
F finalize		T forced	
F flatten		T numbers	
S method		T ownnumbers	
F overload		T status	
F place		F initialize	
F register		F reset	
F setup		floats	table
counters	table	formulas	table
F add		F current	
F analyze		F simplify	
F check		F store	
D collected		helpers	table
F compact		F analyze	
F converted		F formulanumber	
F current		F merged	
D data		F page	
F define		F prefix	
F doifelse		F prefixlastpage	
F first		F prefixpage	
F get		F simplify	
F last		F title	
F next		F touserdata	
F prefixedconverted		itemgroups	table
F prev		F maxwidth	
F previous		F nofitems	
F raw		F register	
F record		lists	table
F reset		F analyze	00000
F restart		D cached	
F restore		D collected	
F save		F doifstoredelse	
F set		F enhance	
F setlevel		T enhancers	
F setlevel F setoffset		F filter	
F setown		F filtercollected	
F setstate		F formulanumber	
F setvalue		D internals	
T specials		F location	
F userpage		F number	
F subs		D ordered	

T.	page		T.	listindex	
	popnesting			' number	
				ordered	
	prefix				
	prefixednumber			postpone	
	prefixedpage			resetpostponed	
	process			restore	
	push			save	
	pushed			setstate	
	pushnesting			setsymbolpage	
	realpage			states	
	result			store	
	savednumber			title	
	savedprefixednumber	•	page		table
	savedtitle			analyze	
	sectionnumber		_	collected	
	size			is_odd	
	title			number	
	tobesaved			save	
	userdata			tobesaved	
_	uservalue		_	essors	table
mark	5	table	F	apply	
	data			ignore	
F	define		F	register	
F	exists		F	reset	
F	fetch		F	split	
F	fetchallmarks			sprint	
F	fetched			rences	table
F	fetchonemark		F	analyze	
F	fetchtwomarks		F	checkedfile	
	get		F	checkedfileorurl	
F	number		F	checkedprogram	
F	relate		F	checkedurl	
F	reset			collected	
F	set		F	currentmetadata	
F	show		F	currentorder	
F	synchronize			currentset	
F	title		F	define	
Т	tracers		D	defined	
	F showtable			derived	
note		table		doifelse	
	checkpagechange			enableinteraction	
	define		F	enhance	
	deltapage		D	executers	
F	doifcontent			expandcurrent	
F	doifonsamepageaspre	evious	F	export	
F	flush		D	exporters	
F	flushpostponed		Т	files	
F	get			T data	
F	getn			F define	
F	getnumberpage			F get	
F	getstate		F	filter	
F	getsymbolpage		D	filters	
F	internal		F	from	
F	internalid		F	get	

E mat assessment materials to	E
F getcurrentmetadata	F page
F getcurrentprefixspec	F realpage
F getinnermethod	F userpage D tobereferred
F getinternalreference	
D handlers	D tobesaved
F identify	T urls
F import	T data
D imported	F define
F inject	F get
F injectcurrentset	F whatfrom
D internals	registers table
F load	F analyze
F mark	F analyzed
D pages	D collected
T programs	F compare
T data	F define
F define	F enhance
F get	F extend
F realpage	F filter
F realpageofpage	F filtercollected
D referred	F finalize
F referredpage	F flush
F registerfinalizer	F prepare
F registerinitializer	F process
F registerpage	F sort
F reportproblems	F store
F reset	D tobesaved
F reset T resolvers	
T resolvers	D tobesaved F unique F userdata
	F unique
T resolvers F description	F unique F userdata sections table
T resolvers F description F float	F unique F userdata
T resolvers F description F float F formula	F unique F userdata sections table F autodepth
T resolvers F description F float F formula F note	F unique F userdata sections table F autodepth F cct
T resolvers F description F float F formula F note F reference	F unique F userdata sections table F autodepth F cct T collected
T resolvers F description F float F formula F note F reference F section	F unique F userdata sections table F autodepth F cct T collected F current
T resolvers F description F float F formula F note F reference F section D runners F sectionnumber	F unique F userdata  sections table F autodepth F cct T collected F current F currentblock F currentid
T resolvers F description F float F formula F note F reference F section D runners F sectionnumber F sectionpage	F unique F userdata  sections table F autodepth F cct T collected F current F currentblock F currentid F currentlevel
T resolvers F description F float F formula F note F reference F section D runners F sectionnumber F sectionpage F sectiontitle	F unique F userdata  sections table F autodepth F cct T collected F current F currentblock F currentid F currentlevel F defineautolevels
T resolvers F description F float F formula F note F reference F section D runners F sectionnumber F sectionpage F sectiontitle F set	F unique F userdata  sections table  F autodepth F cct T collected F current F currentblock F currentid F currentlevel F defineautolevels F depthnumber
T resolvers F description F float F formula F note F reference F section D runners F sectionnumber F sectionpage F sectiontitle F set F setandgetattribute	F unique F userdata  sections table F autodepth F cct T collected F current F currentblock F currentid F currentlevel F defineautolevels F depthnumber F findnumber
T resolvers F description F float F formula F note F reference F section D runners F sectionnumber F sectionpage F sectiontitle F set F setandgetattribute F setinnermethod	F unique F userdata  sections table  F autodepth F cct T collected F current F currentblock F currentid F currentlevel F defineautolevels F depthnumber F findnumber F fullnumber
T resolvers F description F float F formula F note F reference F section D runners F sectionnumber F sectionpage F sectiontitle F set F setandgetattribute F setinnermethod F setinternalreference	F unique F userdata  sections table  F autodepth F cct T collected F current F currentblock F currentid F currentlevel F defineautolevels F depthnumber F findnumber F getcurrentlevel
T resolvers F description F float F formula F note F reference F section D runners F sectionnumber F sectionpage F sectiontitle F set F setandgetattribute F setinnermethod F setinternalreference F setnextinternal	F unique F userdata  sections table  F autodepth F cct T collected F current F currentblock F currentid F currentlevel F defineautolevels F depthnumber F findnumber F getcurrentlevel F getlevel
T resolvers F description F float F formula F note F reference F section D runners F sectionnumber F sectionpage F sectiontitle F set F setandgetattribute F setinnermethod F setinternalreference F setnextorder	F unique F userdata  sections table  F autodepth F cct T collected F current F currentblock F currentid F currentlevel F defineautolevels F depthnumber F findnumber F fullnumber F getcurrentlevel F getlevel F getlevel F getnumber
T resolvers F description F float F formula F note F reference F section D runners F sectionnumber F sectionpage F sectiontitle F set F setandgetattribute F setinnermethod F setinternalreference F setnextinternal F setnextorder D specials	F unique F userdata  sections table  F autodepth F cct T collected F current F currentblock F currentid F currentlevel F defineautolevels F depthnumber F findnumber F fullnumber F getcurrentlevel F getlevel F getnumber D levelmap
T resolvers F description F float F formula F note F reference F section D runners F sectionnumber F sectionpage F sectiontitle F set F setandgetattribute F setinnermethod F setinternalreference F setnextinternal F setnextorder D specials F split	F unique F userdata  sections table  F autodepth F cct T collected F current F currentblock F currentid F currentlevel F defineautolevels F depthnumber F findnumber F fullnumber F getcurrentlevel F getlevel F getlevel F getnumber D levelmap D levels
T resolvers F description F float F formula F note F reference F section D runners F sectionnumber F sectionpage F sectiontitle F set F setandgetattribute F setinnermethod F setinternalreference F setnextinternal F setnextorder D specials F split T testrunners	F unique F userdata  sections table  F autodepth F cct T collected F current F currentblock F currentid F currentlevel F defineautolevels F depthnumber F findnumber F fullnumber F getcurrentlevel F getlevel F getlevel F getnumber D levels F load
F description F float F formula F note F reference F section D runners F sectionnumber F sectionpage F sectiontitle F set F setandgetattribute F setinnermethod F setinternalreference F setnextinternal F setnextorder D specials F split T testrunners F inner	F unique F userdata  sections table  F autodepth F cct T collected F current F currentblock F currentid F currentlevel F defineautolevels F depthnumber F findnumber F fullnumber F getcurrentlevel F getlevel F getnumber D levelmap D levels F load F matchingtilldepth
T resolvers F description F float F formula F note F reference F section D runners F sectionnumber F sectionpage F sectiontitle F set F setandgetattribute F setinnermethod F setinternalreference F setnextinternal F setnextorder D specials F split T testrunners F inner F special	F unique F userdata  sections table  F autodepth F cct T collected F current F currentblock F currentid F currentlevel F defineautolevels F depthnumber F findnumber F fullnumber F getcurrentlevel F getlevel F getlevel F getnumber D levelmap D levels F load F matchingtilldepth F numberatdepth
T resolvers F description F float F formula F note F reference F section D runners F sectionnumber F sectionpage F sectiontitle F set F setandgetattribute F setinnermethod F setinternalreference F setnextinternal F setnextorder D specials F split T testrunners F inner F special F special operation	F unique F userdata  sections table  F autodepth F cct T collected F current F currentlock F currentid F currentlevel F defineautolevels F depthnumber F findnumber F fullnumber F getcurrentlevel F getlevel F getnumber D levelmap D levels F load F matchingtilldepth F numbers
T resolvers F description F float F formula F note F reference F section D runners F sectionnumber F sectionpage F sectiontitle F set F setandgetattribute F setinnermethod F setinternalreference F setnextinternal F setnextorder D specials F split T testrunners F inner F special operation F special operation F special operation with arguments	F unique F userdata  sections table  F autodepth F cct T collected F current F currentlock F currentid F currentlevel F defineautolevels F depthnumber F findnumber F fullnumber F getcurrentlevel F getlevel F getnumber D levelmap D levels F load F matchingtilldepth F numbers F popblock
T resolvers F description F float F formula F note F reference F section D runners F sectionnumber F sectionpage F sectiontitle F set F setandgetattribute F setinnermethod F setinternalreference F setnextinternal F setnextorder D specials F split T testrunners F inner F special operation F special operation with arguments T testspecials	F unique F userdata  sections table  F autodepth F cct T collected F current F currentlock F currentlevel F defineautolevels F depthnumber F findnumber F fullnumber F getcurrentlevel F getlevel F getnumber D levelmap D levels F load F matchingtilldepth F numbers F popblock F pushblock
T resolvers F description F float F formula F note F reference F section D runners F sectionnumber F sectionpage F sectiontitle F set F setandgetattribute F setinnermethod F setinternalreference F setnextinternal F setnextorder D specials F split T testrunners F inner F special operation F special operation F special operation with arguments	F unique F userdata  sections table  F autodepth F cct T collected F current F currentlock F currentid F currentlevel F defineautolevels F depthnumber F findnumber F fullnumber F getcurrentlevel F getlevel F getnumber D levelmap D levels F load F matchingtilldepth F numbers F popblock

F set		F	filter	
F setblock		F	finalize	
F setchecker		F	flush	
F setlevel		F	meaning	
F setnumber		F	prepare	
F somelevel		F	process	
F startautolevel		F	register	
F stopautolevel		F	registerused	
F structuredata		F	sort	
F title		F	synonym	
D tobesaved		D	tobesaved	
F typesetnumber		tags		table
F userdata		Т	data	
B verbose		F	getid	
F way		F	handler	
sets	4-1-7-			
5005	table	D	labels	
F define	table		labels last	
	table	F		
F define	table	F F	last	
F define F get	table	F F D	last lastinchain	
F define F get F getall	table	F F D F	last lastinchain properties	
F define F get F getall D setlist		F F D F F	lastinchain properties registerdata	
F define F get F getall D setlist specials		F F D F F	last lastinchain properties registerdata setdescriptionid	
F define F get F getall D setlist specials D collected		F F D F F F	last lastinchain properties registerdata setdescriptionid setitemgroup	
F define F get F getall D setlist specials D collected F retrieve	table	F F D F F F F	last lastinchain properties registerdata setdescriptionid setitemgroup setsorting	
F define F get F getall D setlist specials D collected F retrieve F store		F F D F F F F	last lastinchain properties registerdata setdescriptionid setitemgroup setsorting setsynonym	
F define F get F getall D setlist specials D collected F retrieve F store D tobesaved	table	F F D F F F F F	last lastinchain properties registerdata setdescriptionid setitemgroup setsorting setsynonym settagproperty	

T userdata

F compare

 ${\tt F} \ {\tt define}$ 

### table (basic lua)

append	function	print	function
are_equal	function	remove	function
compact	function	reversed	function
concat	function	sequenced	function
contains	function	serialize	function
сору	function	setmetatablecall	function
count	function	${\tt setmetatableindex}$	function
derive	function	${ t setmetatablekey}$	function
fastcopy	function	${\tt setmetatablenewindex}$	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
maxn	function	toxml	function
merge	function	unnest	function
merged	function	unpack	function
prepend	function		

### tex (basic tex)

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

# texconfig (basic tex)

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

### texio (basic tex)

write function
write\_nl function

#### token (basic tex)

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

#### tokens (context)

bgroup table

collectors table

T data

F defaultwords

F dowithwords

F flush

F handle

F install

F register

T registered

T remapper

F convert

T data

F store

F show

T show\_methods
F a
F b
F c
F showtoken
F test
F trace
egroup tabl

egroup table
hbox table
letter function
letters function
other function
vbox table
vtop table

#### tracers (context)

count function
cs function
dimen function
knownlist function
lists table

T context
T internals
T scratch

name function
primitive function
printerror function
showlines function
strings table

S undefined

toks function
type function

# trackers (context)

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

# typesetters (context)

alignments	table	F handler	
F handler		F process	
F set		F set	
breakpoints	table	hpack	function
N attribut	ce	kerns	table
F enable		D factors	
F handler		F handler	
D mapping		B keepliga	ature
T methods		B keeptoge	ether
F set		D mapping	
F setrepla	acement	F set	
cases	table	margins	table
T actions		F finalhar	ndler
F handler		F globalha	andler
F set		F localhar	ndler
cleaners	table	F save	
F handler		spacings	table
F set		N attribut	te
digits	table	F handler	
T actions		D mapping	
N attribut	se	F set	
F handler		F setup	
F set		tonodes	function
directions	table	vpack	function

### unicode (extra lua)

F format

ascii	table	Eafind	
	capie	F gfind	
F byte		F gmatch	
F char		F gsub	
F dump		F len	
F find		F lower	
F format		F match	
F gfind		F rep	
F gmatch		F reverse	
F gsub		F sub	
F len		F upper	c
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 upper	
latin1	table	utf8_to_utf16	function
F byte		utf8_to_utf8	function
F char		utfcodes	function
F dump		utfname	table
F find		utftype	function

# url (context)

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

# utilities (context)

F disable F enable		F appendgroup F autocompile	
F savestats		F compile	
F showstats		F disableaction	
formatters	table	F disablegroup	
F formatcolumns		F enableaction	
F list		F enablegroup	
F stripzeros		D functions	
garbagecollector	table	F localize	
F check		F nodeprocessor	
N criterium		F prependaction	
B enabled		F prependgroup	
lua	table	F removeaction	
F compile		F reset	
packers	table	F setkind	
F hashed		F tostring	
F new		setters	table
F pack		F disable	
F simplehashed		F enable	
F strip		F initialize	
F unpack		F list	
N version		F new	
parsers	table	F register	
F add_settings_t		F reset	
F arguments_to_t		F show	4-1-1-
F array_to_strin	g	storage	table
F getparameters		F allocate	
F hash_to_string F listitem		F checked F mark	
F make_settings_	to hash pattorn	r mark F marked	
T patterns	to_nasn_pattern	F setinitialize	r
U settings_to_	arrav	F sparse	L
U settings_to_	-	strings	table
U settings_to_		F collapsecrif	JUDIC
U settings_to_		F striplong	
F settings_to_ar		F tabtospace	
F settings_to_ha		tables	table
F settings_to_ha		Faccesstable	00020
F settings_to_ha		F definetable	
F settings_to_se	_	F insertafterva	lue
_	_string	F insertbeforev	alue
F simple_hash_to	_string function	F insertbeforev F removevalue	alue
_	<del>-</del>		alue

# visualizers (context)

data table	${ t signal pattern}$	userdata
function	specifications	data table
function	visualize	function
function	visualizebuffer	function
function	visualizefile	function
function	visualizestring	function
function	write	function
function	writeargument	function
function	writedefault	function
function	${\tt writeemptyline}$	function
function	writenewline	function
function	writespace	function
string		
	function	function specifications function visualize function visualizebuffer function visualizefile function visualizestring function write function writeargument function writedefault function writeemptyline function writenewline function writespace

# xml (context)

after	function	F quit	
all	function	F tag	
${ t applylpath}$	function	F text	
assign	function	F undefined	
attribute	function	F upper	
before	function	fillin	function
body	function	filter	function
checkbom	function	finalizers	table
checkerror	function	T tex	
checknamespace	function	F all	
checkns	function	F attribute	
cleansed	function	F bibtexconcat	
collect	function	F bibtexshort	
collect_elements	<u>function</u>	F chainattribute	
collect_tags	function	F command	
collect_texts	<u>function</u>	F concat	
collected	function	F concatrange	
collecttexts	function	F context	
content	function	F count	
convert	function	F ctxtext	
copy	function	F default	
count	function	F first	
cprint	function	F function	
${\tt defaulthandlers}$	table	F index	
D file		F last	
D parsedxml		F lettered	
D string		F lower	
D tex		F match	
D verbose		F name	
defaultprotocol	string	F position	
delete	function	F reverse	
delete_element	function	F stripped	
each	function	F tag	
each_element	function	F tags	
elements	function	F text	
empty	function	F upper	
entities	data table	T xml	
erase	function	F all	
escaped	function	F att	
expressions	table	F attribute	
F boolean		F attributes	
F child		F chainattribute	
F contains		F count	
F count		F default	
F error		F elements	
F find		F empty	
F lower		F first	
F name		F function	
F number		Findex	
F oneof		F last	
F print		F match	

_			<b>C</b>
F name		position	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	$\frac{\texttt{remap\_namespace}}{\texttt{namespace}}$	function
getbuffer	function	$\frac{\texttt{remap\_tag}}{\texttt{tag}}$	<u>function</u>
gethandlers	function	remapname	function
${\tt gethandlersfunction}$	function	${\tt remapnamespace}$	function
include	function	${\tt remaptag}$	function
index	function	renamespace	function
inheritedconvert	function	replace	function
inject	function	replace_element	function
inject_element	function	${ t resolved}$	function
inject_element_after	function	resolvens	function
inject_element_before	<u>function</u>	root	function
injectafter	function	save	function
injectbefore	function	selection	function
insert	function	serialize	function
insert_element	function	sethandlersfunction	function
insert_element_after	<u>function</u>	setproperty	function
insert_element_before	function	settings	function
insertafter	function	specialhandler	table
insertbefore	function	sprint	function
is_valid	function	string	function
last	function	strip	function
load	function	strip_whitespace	function
lpath	function	stripelement	function
lpathcached	function	stripleadingspaces	function
lpathcalls	function	table	function
lshow	function	text	function
makestandalone	function	textonly	function
match	function	tocdata	function
name	function	toelement	function
newhandlers	function	tostring	function
nodesettostring	function	toxml	function
originalload	function	tprint	function
package	function	traverse	function
-	function		function
parent parsedentitylpeg	userdata	unescaped withelement	function
pihandlers	table	withelements	function
-	table		function
placeholders	Capte	wrap xmlns	table
F unknown_dec_entity		хштпр	rabie
F unknown_hex_entity			

# zip (extra lua)

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

### zlib (extra lua)

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