1 attributes backends bibtex blobs boolean buffers builders caches callbacks catcodes characters chemicals commands containers context converters coroutine ctxrunner debug dir directives document documentdata environment epdf experiments figures file floats fontloader fonts global graphics gzip imp interactions interfaces to job languages layouts lfs libraries lmx logs lpdf lpeg ltn12 lua luatex lxml mathematics md5 metapost mime moduledata modules mplib noads mode nodes number o 👱 parametersets 📜 physics profiler regimes resolvers scripts set socket sorters statistics status storage streams string structures tabl tokens tracers trackers typesetters unicode url utilities visualizers xml zip zlib

# ConTEXt MkIV

# global (alias: \_G)

1	table	gcinfo	function
arg	table	getfenv	function
assert	function	getmetatable	function
attributes	table	getreadfilename	function
backends	table	global	table
beginpage	function	graphics	table
bibtex	table	gzip	table
blobs	table	img	table
boolean	table	inspect	function
buffers	table	interactions	table
builders	table	interfaces	table
caches	table	io	table
callback	table	ipairs	function
callbacks	table	job	table
catcodes	table	lang	table
characters	table	languages	table
chemicals	table	layouts	table
collectgarbage	function	lfs	table
commands	table	libraries	table
containers	table	lmx	table
context	function	load	function
converters	table	loadfile	function
coroutine	table	loadstring	function
ctxrunner	table	logs	table
debug	table	lpdf	table
dimen	function	lpeg	table
dir	table	ltn12	table
directives	table	lua	table
document	table	luatex	table
documentdata	table	lxml	table
dofile	function	math	table
endpage	function	mathematics	table
environment	table	md5	table
epdf	table	metapost	table
error	function	mime	table
experiments	table	module	function
figures	table	moduledata	table
file	table	modules	table
floats	table	mplib	table
font	table	newline	function
fontloader	table	newproxy	function
fonts	table	next	function

noads	table	stream
node	table	string
nodes	table	stripm
number	table	struct
os	table	table
outputpagestree	function	tex
package	table	texcon
pairs	function	texio
parametersets	table	tobool
pcall	function	tocont
pdf	table	token
physics	table	tokens
print	function	tonumb
profiler	table	tostri
protect	function	trace_
rawequal	function	traceb
rawget	function	tracer
rawset	function	tracke
regimes	table	type
report_characters	function	typese
require	function	unicod
resolvers	table	unpack
scripts	table	url
select	function	utf
set	table	utilit
setfenv	function	visual:
setmetatable	function	xml
socket	table	xmlcon
sorters	table	xpcall
statistics	table	zip
status	table	zlib

table

storage

table າຣ table ath function table ures table table nfig table table function ean function ext table table function er function ng boolean characters ack function table `s table ers function table etters le table function table table table ies izers table table vert function function table

table

# attributes (context)

colorintanta tabla	F much sat
colorintents table	F pushset
N attribute	F register
D data	D registered
F enable	F registerspotcolor
F handler	F rgb
F register	F rgbtocmyk
D registered	F rgbtogray
colors table	F rgbtohsv
N attribute	N selector
F cmyk	F setlist
F cmyktogray	F setmodel
F cmyktorgb	D sets
F colorcomponents	F spot
B couple	F spotcolorname
D data	F spotcolorparent
N default	F spotcolorvalue
F defineintermediatecolor	B supported
F definemixcolor	F transparencycomponents
F definemultitonecolor	B triggering
F defineprocesscolor	F usecolors
F definesimplegray	F value
F definespotcolor	D values
F definetransparency	B weightgray
F enable	define function
F filter	effects table
F forcedmodel	N attribute
F forcesupport	D data
F formatcolor	F enable
F formatgray	F handler
F gray	F register
F graytohsv	D registered
F handler	D values
F hsvtogray	handlers table
F hsvtorgb	list data table
F iccprofile	names data table
F isblack	negatives table
N main	N attribute
S model	D data
F mpcolor	F enable
F mpoptions	F handler
U none	F register
F popset	D registered

data table numbers ofnode function private function showcurrent 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

F register D registered B supported

U none

B triggering F value

D values

unsetvalue number viewerlayers table

N attribute D data F define F enable

F 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 registeredsymbol F synchronizecolormodel F registerpagecloseaction current string F registerpageopenaction defaults table F registersymbol F setfieldcalculationset T codeiniections T nodeinjections F setfigurealternative T registrations F setfigurecolorspace D tables F setfiguremask install function F setformat nodeinjections table F setformsmethod F restore F setpagetransition F save F setupcanvas F transform F setupidentity nothing function F setxmpfile pdf table F startlayer T codeinjections F stoplayer F addbookmarks F supportedformats F attachmentid F useviewerlaver F clonefield F validfield F definefield F validfieldcategory F definefieldset F validfieldset F defineviewerlaver S comment F embedfile T nodeinjections F enabletags F addtags F exportformdata F attachfile F finalizepage F cmvkcolor F finishreference F comment F getdefaultfieldvalue F destination F effect F getfieldcategory F getfieldset F graycolor F getformatoption F injectbitmap F getoutputfilename F insertmovie F getpreviewfigure F insertsound F insertrenderingwindow F insertswf F mergereferences F insertu3d F knockout F mergeviewerlayers F prerollreference F negative F presetsymbol F overprint F presetsymbollist F positive F reference F processrendering F registerdocumentcloseaction F rgbcolor F registerdocumentopenaction F spotcolor

T blue F startlayer F stoplayer T gray F switchlayer T green F transparency T red F typesetfield T rulecolors T registrations T black T blue F cmykindexcolor F cmykspotcolor T gray T green F getspotcolorreference F grayindexcolor T paleblue F grayspotcolor T palegray F rgbindexcolor T palegreen F rgbspotcolor T palered F spotcolorname T red F transparency F startslant T tables T stopslant

registrations T vfspecials table tables table T black

### bibtex (context)

F filterall

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 doifalreadyplac	ed	toxml	function

### blobs (context)

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

#### boolean (context)

tocontext function
tonumber function

#### buffers (context)

append function F define

assign function F hassomecontent

collectcontentfunctionF nexterasefunctionF placeexistsfunctionF resetgetcontentfunctionF save

getlines function raw function

parallel table

# builders (context)

kernel table	F optimize
F hyphenation	T registered
F kerning	F reset
F ligaturing	F set
F mlist_to_hlist	F split
paragraphs table	F start
T constructors	F stop
N attribute	F tag
F define	vspacing table
F disable	F analyze
F enable	D categories
F handler	F collapsevbox
T methods	T data
F default	D map
F oneline	D skip
D names	D snapmethods
D numbers	F definesnapmethod
F set	B fixed
F start	F pagehandler
F stop	F setmap
F keeptogether	F setskip
F registertogether	F snapbox
T solutions	F tocategories
T splitters	F tocategory
F define	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
${ t getwritable path}$	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
define	function
format	string
inline	function
instance	string
molecule	function

moleculeparseruserdatastartfunctionstopfunctionstructuresnumberundefinefunction

#### commands (context)

Alphabetic	function	autonextspace	function
Character	function	autonextstructurelevel	function
Characters	function	autosetups	function
MPc	function	autostarttext	function
MPd	function	autostoptext	function
MPh	function	bcolumn	function
MP11	function	boolcase	function
MPlr	function	character	function
MPls	function	characters	function
MPn	function	checkcharactersinfont	function
MPp	function	checkcountersetup	function
MPpardata	function	checkedconversion	function
MPplus	function	${\tt checkedpagefloat}$	function
MPpos	function	checktwopassdata	function
MPposset	function	chineseallnumerals	function
MPr	function	chinesecapnumerals	function
MPrest	function	chinesenumerals	function
MPrs	function	cleanfontname	function
MPul	function	clonefield	function
MPur	function	collectfloat	function
MPw	function	collecthelp	function
MPx	function	colorcomponents	function
MPxy	function	consultfloat	function
MPxywhd	function	copyfiletolog	function
MPy	function	copyposition	function
Romannumerals	function	countervalue	function
${\tt abjadnodotnumerals}$	function	counttwopassdata	function
abjadnumerals	function	currentcomponent	function
addcounter	function	currentdate	function
addff	function	currentenvironment	function
addfs	function	currentproduct	function
addlinklistelement	function	currentproject	function
${\tt addtojavascriptpreamble}$	function	currentreferenceorder	function
addtolist	function	currentregime	function
allinputpaths	function	datasetvariable	function
alphabetic	function	dayname	function
${\tt analysefloatmethod}$	function	defineattribute	function
analyzelist	function	definebibtexsession	function
applytochars	function	definebreakpoint	function
applytowords	function	definebreakpoints	function
assignbuffer	function	definecharacterspacing	function
${\tt autofinishstructurelevels}$	function	defineconversion	function

dofinocounton	function	daifalaamultinan	function
defineduique	function	doifelsemultipar	function function
definedviewerlayer	function	doifelseparallel	
definefield	function	doifelsepositionsused	function
definefieldset	function	doifelserangeonpage	function
definefilefallback	function	doifelsereference	function
definefilesynonym	function	doifelsesavedfloat	function
definefont_one	function	doifelsespaces	function
definefont_two	function	doifelsevisualizer	function
definefontfeature	function	doiffieldcategoryelse	function
definefontsolution	function	doiffieldelse	function
defineintermediatecolor	function	doiffieldsetelse	function
definelinkedlist	function	doiffiledefinedelse	function
definemarking	function	doiffileexistelse	function
definemultitonecolor	function	doiffirstcharelse	function
defineparallel	function	doifinputfileelse	function
defineparbuilder	function	doifinsetelse	function
defineprocesscolor	function	doifleapyearelse	function
defineprogram	function	${\tt doiflisthasentry}$	function
definereference	function	${\tt doiflisthasnumberelse}$	function
definesectionlevels	function	${\tt doiflisthaspageelse}$	function
definespotcolor	function	doiflisthastitleelse	function
definestructureblock	function	doiflocfileelse	function
definestructureset	function	doifnot	function
definetransparency	function	doifnotcounter	function
definetwopasslist	function	${\tt doifobjectreferencefoundelse}$	function
defineviewerlayer	function	doifolderversionelse	function
${\tt defrostrandomseed}$	function	${\tt doifoverlappingelse}$	function
digits	function	${\tt doifparentfileelse}$	function
disableparbuilder	function	doifposition	function
disableregime	function	doifpositionelse	function
disablespellchecking	function	doifpositiononpage	function
discardfromlist	function	doifpositionsonsamepageelse	function
${\tt doanalyzeframedbox}$	function	${\tt doifpositions on this page}$	function
doif	function	doifurldefinedelse	function
doifblackelse	function	doprocesstypescriptfile	function
doifcommonelse	function	doreshapeframedbox	function
doifcounter	function	dostarttextfile	function
doifdimenstringelse	function	dostoptextfile	function
doifdrawingblackelse	function	ecolumn	function
doifelse	function	elapsedtime	function
doifelsebuffer	function	enablecolor	function
doifelsecounter	function	enablecolorintents	function
doifelsecurrentfonthasfeature	function	enablefontcolorschemes	function
doifelseintwopassdata	function	enableparbuilder	function
doifelsemarking	function	enableregime	function

enablespellchecking	function	getbufferctxlua	function
enabletransparency	function	getbuffermkvi	function
enhancelinkedlist	function	getcommandline	function
enhancelist	function	getctxfile	function
enhancereference	function	getcurrentprefixspec	function
erasebuffer	function	getcurrentreferencemetadata	function
expandcurrentreference	function	getdefaultfieldvalue	function
exportformdata	function	getfieldcategory	function
exportreferences	function	getfirstcharacter	function
featureattribute	function	getfirsttwopassdata	function
featurelist	function	getfloatvariable	function
feedback	function	getinternalreference	function
fetchallmarks	function	getlasttwopassdata	function
fetchmultipar	function	getmarking	function
fetchmultishape	function	getprivateattribute	function
fetchonemark	function	getprivatechar	function
fetchposboxes	function	getprogram	function
fetchtwomarks	function	getrandomcounta	function
filterdefaultreference	function	getrandomcountb	function
filterreference	function	getrandomseed	function
finalizebox	function	getreadfilename	function
findtwopassdata	function	gettexbuffer	function
firstcountervalue	function	gettwopassdata	function
firstinset	function	gettwopassdatalist	function
flushfloat	function	geturl	function
flushpostponedblocks	function	grabbuffer	function
fontchar	function	helpaction	function
fontcollectionclone	function	helpreference	function
fontcollectiondefine	function	hexstringtonumber	function
fontcollectionprepare	function	hour	function
fontcollectionregister	function	hyphenatedlist	function
fontcollectionreport	function	hyphenatedurl	function
fontcollectionreset	function	D characters	
fontlookupgetkey	function	N lefthyphenmin	
${\tt fontlookupgetkeyofindex}$	function	D mapping	
fontlookupinitialize	function	N righthyphenmin	
${\tt fontlookupnoffound}$	function	F setcharacters	
forceendjob	function	incrementedcounter	function
forcequitjob	function	injectcurrentreference	function
format	function	injectreference	function
formatcolor	function	insertattachment	function
formatgray	function	insertcomment	function
freezerandomseed	function	insertfield	function
from	function	${\tt insertrenderingwindow}$	function
getbuffer	function	insertsoundclip	function

4-1	£	all da administra	£
isleapyear	function	objectpage	function
languagenumber	function	octnumber	function
lastcountervalue	function	octstringtonumber	function
lchexnumber	function	ordinal	function
lchexnumbers	function	overloadbookmark	function
leapyear	function	pagestaterealpage	function
listlabel	function	parpos	function
listlocation	function	pdfrotation	function
listprefixednumber	function	percentageof	function
${ t list prefixed page}$	function	pgfxcolorspec	function
listrealpage	function	placeparallel	function
listsize	function	popfloat	function
listtitle	function	popitaliccorrection	function
listuserdata	function	poplist	function
loadexamodes	function	popsectionblock	function
loadfontgoodies	function	pos	function
loadspellchecklist	function	posplus	function
loadtypescriptfile	function	posstrut	function
loadvisualizer	function	poswhd	function
locatefilepath	function	posxy	function
locfilename	function	${\tt prepareMPvariable}$	function
logoptions	function	preparebibtexsession	function
markregionbox	function	preparedfile	function
mathrenderset	function	presetsymbollist	function
maxitemwidth	function	presettabulate	function
minute	function	prevcountervalue	function
molecule	function	processbuffer	function
month	function	processedfile	function
monthmnem	function	processedfiles	function
monthname	function	processfile	function
mpcolor	function	processfilemany	function
mpoptions	function	processfilenone	function
namedstructureuservariable	function	processfileonce	function
namedstructurevariable	function	processlist	function
nbfs	function	pushfloat	function
nextcountervalue	function	pushitaliccorrection	function
nextparallel	function	pushlist	function
nofdays	function	pushsectionblock	function
nofitems	function	rawcharacter	function
nofstackedfloats	function	rawcountervalue	function
noteprefixednumber	function	rawdate	function
notetitle	function	referencepagestate	function
ntimes	function	referencerealpage	function
number	function	registerattachment	function
objectnumber	function	registerbibtexentry	function
· · · <b>J</b> · · · · · · · · · · · · · · · · · · ·		· G== J	_ =====================================

registerbibtexfile	function	savetaggedtwopassdata	function
registerbookmark	function	savetwopassdata	function
registerbuttons	function	second	function
registercolor	function	selectstructureblock	function
registercolorintent	function	setbreakpoints	function
registeredviewerlayer	function	setcharactercasing	function
registerhelp	function	setcharactercleaning	function
registeritemgroup	function	setcharacterkerning	function
registermaintextcolor	function	setcharacterspacing	function
registernamespace	function	setcharacterstripping	function
registerpostponedblock	function	setclosedocumentaction	function
registersoundclip	function	setclosepageaction	function
registerstructureprocessor	function	setcolormodel	function
registertransparency	function	setcounter	function
registerunit	function	setdataset	function
relatemarking	function	setdigitsmanipulation	function
removemissingcharacters	function	setdirection	function
replacemissingcharacters	function	setdocumentenvironments	function
replacepospxywhd	function	setdocumentmodes	function
resavefloat	function	setdocumentmodules	function
resetcounter	function	setfigurelookuporder	function
resetfontfeature	function	setfontfeature	function
resetfontsolution	function	setfontofid	function
resetmarking	function	setfontsolution	function
resetmathitalics	function	setformat	function
resetnullfont	function	setformsmethod	function
resetparallel	function	setinternalreference	function
resetreference	function	setmarking	function
resetstructureprocessor	function	setmathalphabet	function
resettimer	function	setmathalternate	function
restartcounter	function	setmathattribute	function
restorecounter	function	setmathitalics	function
restorecurrentattributes	function	setmathstyle	function
romannumerals	function	setnextinternalreference	function
runbuffer	function	setobject	function
savebuffer	function	setopendocumentaction	function
savecounter	function	setopenpageaction	function
savecurrentattributes	function	setowncounter	function
savedlistnumber	function	setpagestate	function
${\tt savedlistprefixed number}$	function	${\tt setpagestaterealpageno}$	function
savedlisttitle	function	setpagetransition	function
savefloat	function	setparbuilder	function
saveobject	function	setpos	function
saveparallel	function	setrandomseed	function
savestructureblock	function	setrealign	function

setreferencearguments	function	starttext	function
setreferenceattribute	function	startviewerlayer	function
setreferenceoperation	function	stopcolorset	function
setsectionblock	function	stopcomponent	function
setstructureblockstate	function	stopenvironment	function
settagcombination	function	stopfontsolution	function
settagdescription	function	stopparbuilder	function
settagdescriptionsymbol	function	stopproduct	function
settagfigure	function	stopproject	function
settaghighlight	function	stopregime	function
settagitemgroup	function	stopsectionlevel	function
settagproperty	function	stoptag	function
settagsorting	function	stoptext	function
settagsynonym	function	stopviewerlayer	function
settagtablecell	function	storejavascriptcode	function
settagtabulatecell	function	storejavascriptpreamble	function
setupbookmarks	function	structureautocatcodedget	function
setupcanvas	function	structurecatcodedget	function
setupcharacterspacing	function	structuregivencatcodedget	function
setupexport	function	structurenumber	function
setupfontexpansion	function	structuretitle	function
setupfontprotrusion	function	structureuservariable	function
setupidentity	function	structurevariable	function
setupitaliccorrection	function	subcountervalues	function
setxmpfile	function	subff	function
showassignerror	function	subfs	function
showattributes	function	synchronizecolormodel	function
showchardata	function	synchronizemarking	function
showcounter	function	taggedmathfunction	function
showfontparameters	function	testcase	function
showhyphenatedinlist	function	textime	function
splitfilename	function	transparencycomponents	function
spotcolorname	function	triggereffect	function
spotcolorparent	function	triggernegative	function
spotcolorvalue	function	truefilename	function
startcolorset	function	typebuffer	function
startcomponent	function	typefile	function
startenvironment	function	typestring	function
startfontsolution	function	uchexnumber	function
startparbuilder	function	uchexnumbers	function
startproduct	function	unicodechar	function
startproject	function	unit	function
startregime	function	updatefilenames	function
startsectionlevel	function	useMPlibrary	function
starttag	function	useanyfile	function
=		- -	

usecldfile	function	vspacing	function
usecolors	function	${\tt vspacingcollapse}$	function
usecomponent	function	vspacingdefine	function
useenvironment	function	vspacingsetamount	function
usefile	function	vspacingsnap	function
${\tt usejavascriptpreamble}$	function	weekday	function
usejavascriptscripts	function	weekdayname	function
uselibrary	function	widthofstring	function
useluafile	function	writestatus	function
usemodules	function	${ t x\_table\_cleanup}$	function
usepath	function	$x_{table\_construct}$	function
useproduct	function	$x_{table\_create}$	function
useproject	function	$x_{table_flush}$	function
usesubpath	function	${\tt x\_table\_init\_construct}$	function
usesymbols	function	x_table_init_reflow_height	function
usetexfile	function	${ t x\_table\_init\_reflow\_width}$	function
useurl	function	x_table_next_row	function
usexmlfile	function	${ t x\_table\_reflow\_height}$	function
usezipfile	function	${ t x\_table\_reflow\_width}$	function
utfchar	function	${\tt x\_table\_set\_construct}$	function
utfmathclass	function	${ t x\_table\_set\_reflow\_height}$	function
utfmathcommand	function	${ t x\_table\_set\_reflow\_width}$	function
utfmathfiller	function	year	function
utfmathstretch	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
${\tt abjadnodotnumerals}$	function	nofdays	function
abjadnumerals	function	number	function
alphabetic	function	octnumber	function
character	function	octstringtonumber	function
characters	function	ordinal	function
${\tt chineseall numerals}$	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

#### ctxrunner (context)

load function
prepfiles data table
resolve 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		

# directives (context)

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

#### document (context)

arguments data table files table getargument function getfilename function options table

T commandline
D environments
D modes

able D modules
T ctxfile
on D environments
on D modes

setargument function
setdefaultargument function
setfilename function

D modules

# environment (context)

argument	function	luafile	function
arguments	data table	luafilechunk	function
engineflags	data table	originalarguments	data table
files	table	outputfilename	string
filesynonyms	data table	ownbin	string
getargument	function	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

### epdf (extra tex)

Array function PDFRectangle function
Dict function open function
Object 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		magics	data table
bitmapimage	function	mergegoodies	function
boxnumber	number	nofprocessed	number
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	setorder	function
formats	data table	setpaths	function
found	data table	suffixes	data table
get	function	tprint	function
guess	function	used	data table

## file (basic lua)

addsuffix	function	loadchecksum	function
basename	function	nameonly	function
checksum	function	nametotable	function
collapsepath	function	needs_updating	function
сору	function	needsupdating	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	${\tt splitpath}$	function
iswritable	function	strip	function
join	function	suffix	function
joinpath	function	syncmtimes	function

## floats (context)

${\tt analysemethod}$	function	${\tt nofstacked}$	function
${\tt checkedpagefloat}$	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	${\tt read\_tfm}$	function
frozen	function	${\tt read\_vf}$	function
getfont	function	setfont	function

#### fontloader (extra tex)

${ t apply\_afmfile}$	function	info	function
apply_featurefile	function	open	function
close	function	to_table	function
fields	function	totable	function
fullinfo	function		

#### fonts (context)

_			
analyzers	table		virtual
D initializers		Γi	nitializefeatures
D methods		T k	eys
F setstate		Т	character
B useunicodeman			S depth
checkers	table		S height
F missing			S italic
cid	table		S width
F getmap		T	description
F loadfile			T boundingbox
collections	table		S depth
F clonevector			S height
F define			S width
T definitions		T	parameters
F prepare			S ascender
F process			S descender
F registermain			S designsize
F report			T expansion
F reset			S auto
T vectors			S shrink
constructors	table		S step
F aftercopying	characters		S stretch
F applymanipula	ators		S extendfactor
F assignmathpar	rameters		S factor
B autocleanup			S hfactor
F beforecopying	gcharacters		S mathsize
D cache			T protrusion
F calculatescal	Le		S auto
F checkedfeatur	res		S quad
F checkedfilena	ame		S scaledpoints
F cleanuptable			S scriptpercentage
F collectproces	ssors		${\tt S} \ {\tt scriptscriptpercentage}$
D designsizes			S size
D dontembed			S slantfactor
F enhanceparame	eters		S slantperpoint
N factor			T spacing
F finalize			S extra
F getfeatureact	cion		S shrink
F hashfeatures			S stretch
F hashinstance			S width
T hashmethods			T synonyms
F normal			S em

S ex	current	function
S extra_space	currentid	function
S extraspace	definers	table
S slant	F addlookup	
S space	F analyze	
S space_shrink	F applypostpre	ocessors
S space_stretch	F checkedmode	
S spaceshrink	F checkedscri	pt
S spacestretch	F current	
S x_height	S defaultlook	пр
S units	F define	
S vfactor	F getspecific	ation
S xheight	F loadfont	
T properties	F makespecifi	cation
S autoitalicamount	T methods	
T cidinfo	F install	
S embedding	D variants	
S encodingbytes	F read	
S filename	F register	
S finalized	F registered	
S fontname	F registerspl	it
S format	F resetnullfor	nt
S fullname	F resolve	
S hasitalics	T resolvers	
S hasmath	F file	
S mathitalics	F name	
S mode	F spec	
S name	definetypeface	function
S noglyphnames	encodings	table
S nostackmath	T agl	
S psname	D cache	
S textitalics	F is_known	
S virtualized	D known	
D loadedfonts	F load	
S namemode	F make_unicode	e_vector
F newfeatures	D math	
N privateoffset	N version	
F readanddefine	expansions	data table
F registerfeature	formats	data table
B resolvevirtualtoo	goodies	table
F scale	T colorscheme	S
F scaled	F coloring	
F setfactor	T data	
F setname	F enable	
N version	T designsizes	

D data	F load
F filename	F scriptandlanguage
F register	F setcontextchain
F getcompositions	F setdynamics
T list	F setfeatures
F compositions	T tables
F designsizes	D baselines
F expansions	D features
F featureset	D languages
F files	D scripts
F mathematics	N version
F protrusions	T pfb
F solutions	T tfm
F typefaces	D features
F load	F setfeatures
F prepare_features	T vf
F register	T combinations
F registerpostprocessor	F combine
F report	T combiner
handlers table	D commands
T afm	F find
B addkerns	D helpers
B addligatures	D math
B addligatures B addtexligatures	D math D predefined
B addtexligatures	D predefined
B addtexligatures B autoprefixed	D predefined D whatever
B addtexligatures B autoprefixed D cache	D predefined D whatever hashes table
B addtexligatures B autoprefixed D cache D features	D predefined D whatever hashes table D characters
B addtexligatures B autoprefixed D cache D features F load	D predefined D whatever hashes table D characters D csnames
B addtexligatures B autoprefixed D cache D features F load F setfeatures	D predefined D whatever hashes table D characters D csnames D descriptions
B addtexligatures B autoprefixed D cache D features F load F setfeatures B syncspace	D predefined D whatever hashes table D characters D csnames D descriptions T dynamics D emwidths D exheights
B addtexligatures B autoprefixed D cache D features F load F setfeatures B syncspace N version	D predefined D whatever hashes table D characters D csnames D descriptions T dynamics D emwidths
B addtexligatures B autoprefixed D cache D features F load F setfeatures B syncspace N version T otf	D predefined D whatever hashes table D characters D csnames D descriptions T dynamics D emwidths D exheights
B addtexligatures B autoprefixed D cache D features F load F setfeatures B syncspace N version T otf F addfeature D cache T chainhandlers	D predefined D whatever hashes table D characters D csnames D descriptions T dynamics D emwidths D exheights D identifiers D italics D lastmathids
B addtexligatures B autoprefixed D cache D features F load F setfeatures B syncspace N version T otf F addfeature D cache T chainhandlers F normal	D predefined D whatever hashes table D characters D csnames D descriptions T dynamics D emwidths D exheights D identifiers D italics D lastmathids D marks
B addtexligatures B autoprefixed D cache D features F load F setfeatures B syncspace N version T otf F addfeature D cache T chainhandlers F normal F verbose	D predefined D whatever hashes table D characters D csnames D descriptions T dynamics D emwidths D exheights D identifiers D italics D lastmathids D marks D parameters
B addtexligatures B autoprefixed D cache D features F load F setfeatures B syncspace N version T otf F addfeature D cache T chainhandlers F normal F verbose F collectlookups	D predefined D whatever hashes table D characters D csnames D descriptions T dynamics D emwidths D exheights D identifiers D italics D lastmathids D marks D parameters T processes
B addtexligatures B autoprefixed D cache D features F load F setfeatures B syncspace N version T otf F addfeature D cache T chainhandlers F normal F verbose F collectlookups F dataset	D predefined D whatever  hashes table  D characters D csnames D descriptions T dynamics D emwidths D exheights D identifiers D italics D lastmathids D marks D parameters T processes D properties
B addtexligatures B autoprefixed D cache D features F load F setfeatures B syncspace N version T otf F addfeature D cache T chainhandlers F normal F verbose F collectlookups F dataset S defaultbasealternate	D predefined D whatever  hashes table  D characters D csnames D descriptions T dynamics D emwidths D exheights D identifiers D italics D lastmathids D marks D parameters T processes D properties D quads
B addtexligatures B autoprefixed D cache D features F load F setfeatures B syncspace N version T otf F addfeature D cache T chainhandlers F normal F verbose F collectlookups F dataset S defaultbasealternate S defaultnodealternate	D predefined D whatever hashes table  D characters D csnames D descriptions T dynamics D emwidths D exheights D identifiers D italics D lastmathids D marks D parameters T processes D properties D quads D resources
B addtexligatures B autoprefixed D cache D features F load F setfeatures B syncspace N version T otf F addfeature D cache T chainhandlers F normal F verbose F collectlookups F dataset S defaultbasealternate S defaultnodealternate D enhancers	D predefined D whatever hashes table  D characters D csnames D descriptions T dynamics D emwidths D exheights D identifiers D italics D lastmathids D marks D parameters T processes D properties D quads D resources T setdynamics
B addtexligatures B autoprefixed D cache D features F load F setfeatures B syncspace N version T otf F addfeature D cache T chainhandlers F normal F verbose F collectlookups F dataset S defaultbasealternate S defaultnodealternate D enhancers D features	D predefined D whatever  hashes table  D characters D csnames D descriptions T dynamics D emwidths D exheights D identifiers D italics D lastmathids D marks D parameters T processes D properties D quads D resources T setdynamics D whatever  table  table
B addtexligatures B autoprefixed D cache D features F load F setfeatures B syncspace N version T otf F addfeature D cache T chainhandlers F normal F verbose F collectlookups F dataset S defaultbasealternate S defaultnodealternate D enhancers	D predefined D whatever hashes table  D characters D csnames D descriptions T dynamics D emwidths D exheights D identifiers D italics D lastmathids D marks D parameters T processes D properties D quads D resources T setdynamics

E dimensio et en	E landlumtahla
F dimenfactor	F loadlumtable
F getdigitwidth	F makenameparser
F getparameters	F reset
F getprivatenode	F tounicode16
F hasprivate	F tounicode16sequence names table
F nametoslot	
F setdigitwidth iterators table	S basename B be_clever
F characters	D cache
F descriptions	F cleanfilename
F glyphs	F cleanname
loggers table	F collect
T category_to_placeholder	F collectfiles
S 11	F collectspec
S 1m	T data
S 10	B enabled
S 1t	F exists
S lu	T filters
S mc	F afm
S me	F dfont
S mn	T list
S nd	T names
S nl	F otf
S no	T paths
S pc	F pfb
S pd	F ttc
S pe	F ttf
S pf	S fontconfigfile
S pi	F getfilename
S po	F getlookupkey
S ps	F getlookups
S sc	F getpaths
S sk	F identify
S sm	F is_permitted
S so	F list
F format	F load
F onetimemessage	B loaded
F register	F lookup
F reportdefinedfonts	F noflookups
F reportusedfeatures	S osfontdirvariable
mappings table	F readdata
F addtounicode	F register
F fromunicode16	F registered
F loadfile	F resolve
F loadline	F resolvedspecification

F resolvespec F ttf B saved specifiers table F specification D contextmerged D specifications F contextnumber F splitspec D contextnumbers N version D contextsetups F writedata F contexttostring data table protrusions F mergecontext readers table F presetcontext Fafm F registercontext F check\_lua F showcontext F check\_tfm F splitcontext F dfont D synonyms F lua D variants F opentype symbols table F otf F uselibrary F pfb tables table tracers table D sequence typefaces

data table

F tfm

F ttc

## graphics (context)

backgrounds table
 F calculatemultipar
 F fetchmultipar

F pair
F path
F point

## gzip (extra lua)

close function
lines function
open function

## img (basic tex)

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

#### interactions (context)

D preambles

attachments	table	F	setpreamb	le
F insert		F	storecode	
F register		F	storeprea	mble
fields	table	F	usepreamb	lenow
F clone		F	usescript	s
F define		linke	edlists	table
F defineset		pages	3	table
F insert		F	setpagetr	ansition
general	table	F	setupcanv	as
F getidenti	ty	refer	rences	table
F setupiden	tity	F	setclosed	ocument
help	table	F	setclosep	age
F collect		F	setopendo	cument
F reference		F	setopenpa	ge
F register		rende	erings	table
javascripts	table	F	register	
F addtoprea	mble	F	rendering	
F code		F	var	
D codes		sound	lclips	table
F flushprea	mbles	F	insert	
D functions		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	${ t showmessage}$	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	o_limiters	table
bytes	function	T paranoid	
characters	function	open	overloaded function
close	function	open_ro	function
exists	function	output	function
fileseparator	string	pathseparator	string
flush	function	popen	overloaded function
$i_limiter$	function	read	function
$i_limiters$	table	readnumber	function
T paranoid		readstring	function
input	function	savedata	function
limiter	function	size	function
lines	function	stderr	userdata
loadchunk	function	stdin	userdata
loaddata	function	stdout	userdata
loadlines	function	tmpfile	function
noflines	function	type	function
o_limiter	function	write	function

#### job (context)

function comment F getfield table datasets F gettobesaved D collected F inlist F extend F last F getdata F list F setdata F save D tobesaved F savetagged disablesave function D tobesaved files table positions table D collected F b\_col F context F b\_region B forcerun Fс F run D collected D tobesaved F column initialize function F copy load function F depth loadother function F e col table objects F e\_region D collected F enhance F get F extra F number F get F getreserved F page F save F hangafter F set F hangindent D tobesaved F height boolean F hsize pagestates table F leftskip D collected F lowerleft F extend F lowerright F realpage F markregionbox F setstate Fn D tobesaved F onsamepage passes table F overlapping F check Fр D collected F page F count F paragraph F define F parindent F find F position F first Fr F get F region F getcollected F replace F getdata F rightskip

F set	
F setall	
F setdim	
D tobesaved	1
F upperleft	;
F upperrigh	nt
F width	
F x	
F xy	
F y	
register	function
save	function
structure	table

D	collected	
T	component	s
Т	tobesaved	
	T branche	s
	S name	
	S type	
varia	bles	table
D	checksums	
D	collected	
F	save	
D	tobesaved	
versi	on	${\tt number}$

## 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 data table associated association function data table counters current function data table data define function function exceptions function getnumber hyphenate function installed function labels table F define F split lefthyphenmin function loadable function

function

table

loadwords

F report

logger

numbers posthyphenchar prehyphenchar registered righthyphenmin setdirty synonym version words

data table function function data table function function function number table

F check T data F disable F enable T enablers B enables F found F load T methods 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)

function	setmessenger	function
function	setprogram	function
function	settarget	function
function	settranslations	function
function	show	function
function	show_close	function
function	show_load	function
function	show_open	function
function	simple	function
function	simpleline	function
function	simplelines	function
function	start_page_number	function
function	status	function
function	stop_page_number	function
function	subdirect	function
function	subreport	function
function	system	function
function	texerrormessage	function
function	writer	function
function		
	function	function setprogram function settarget function settranslations function show function show_close function show_load function show_open function simple function simpleline function simplelines function start_page_number function status function subdirect function subreport function system function writer

# lpdf (context)

action	function	graycode	function
adddocumentcolorspace	function	id	function
adddocumentextgstate	function	injectxmpinfo	function
adddocumentpattern	function	insertxmpinfo	function
adddocumentshade	function	javascript	function
addtocatalog	function	launch	function
addtoinfo	function	layerreference	function
addtonames	function	limited	function
addtopageattributes	function	linearshade	function
addtopageresources	function	link	function
addtopagesattributes	function	null	function
addxmpinfo	function	number	function
array	function	pagedestination	function
boolean	function	pagereference	function
checkedkey	function	pdfcolor	function
checkedvalue	function	<del>-</del>	function
circularshade	function	pdftimestamp	boolean
	function	protectresources reference	function
cmykcode collectedresources	function		function
	function	registerannotation	
color	function	registerdocumentfinalizer	function
colorspace		registerpagefinalizer	function
colorspaceconstants	table	reserveannotation	function
T all		reserveobject	function
T cmyk		rgbcode	function
T gray		rotationcm	function
T rgb	c	shareobject	function
colorspec	function	shareobjectreference	function
colorvalue	function	spotcode	function
colorvalues	function	stream	function
constant	function	string	function
delayedobject	function	timestamp	function
dictionary	function	toeight	function
epdf	table	tosixteen	function
F load		transparency	function
finalizedocument	function	transparencycode	function
finalizepage	function	transparencygroups	table
finishtransparencycode	function	B none	
flushobject	function	transparencyvalue	function
flushstreamfileobject	function	unicode	function
flushstreamobject	function	verbose	function
formats	data table		

# lpeg (basic lua)

С	function	endstripper	function
Carg	function	firstofsplit	function
СЪ	function	frontstripper	function
Сс	function	is_lpeg	function
Cf	function	keeper	function
Cg	function	locale	function
Cmt	function	match	function
Ср	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	${\tt utfchartabletopattern}$	function
count	function	version	function
counter	function		

# ltn12 (extra lua)

BLOCKSIZE filter	number table		simplif	у
111061	capie	г	table	
F chain		sour	ce	table
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	simplif	у
F file		F	string	
F null				

## lua (basic tex)

bytecode	table
bytedata	data table
bytedone	table
collectgarbage	function
delay	function
finalize	function
firstbytecode	number
flush	function
flushdelayed	function
getbytecode	function
getluaname	function
lastbytecode	number

messages	data table
name	table
numbers	data table
registercode	function
registeredcodes	function
registerfinalizer	function
registername	function
setbytecode	function
setluaname	function
startupfile	string
version	string

#### luatex (context)

cleanuptempfilesfunctionshowjobstatfunctionregisterstartactionsfunctionshowtexstatfunctionregisterstopactionsfunctionstarttimenumberregistertempfilefunction

## lxml (context)

addindex	function	getindex	function
all	function	id	function
applyfunction	function	idsplitter	userdata
att	function	include	function
attribute	function	index	function
chainattribute	function	info	function
checkindex	function	inlineverbatim	function
collected	function	installsetup	function
command	function	last	function
concat	function	load	function
concatrange	function	loadbuffer	function
content	function	loaddata	function
context	function	loaded	table
convert	function	loadregistered	function
count	function	main	function
delete	function	match	function
direct	function	name	function
directives	table	namespace	function
F after	table	nonspace	function
F before		pos	function
F handle		position	function
F load		raw	function
F setup		rawroot	function
displayverbatim	function	register	function
doif	function	registerentity	function
doifelse	function	removesetup	function
doifelsetext	function	resetcdata	function
doifnot	function	resetsetups	function
doifnottext	function	resolvedentity	function
doiftext	function	root	function
element	function	serialize	function
elements	function	setaction	function
entities	data table	setcdata	function
filter	function	setcommandtonone	function
filterlist	function	setcommandtotext	function
first	function	setsetup	function
flush		-	
	function	snippet	Tiinction
	function	snippet sorters	function table
flushlinewise	function	sorters	table
flushlinewise flushsetups	function function	sorters F add	
flushlinewise flushsetups flushspacewise	function	sorters F add F compare	
flushlinewise flushsetups	function function function	sorters F add	

F show		tag	function
F sort		text	function
splitid	function	tofile	function
startraw	function	toparameters	function
stopraw	function	toverbatim	function
store	function	verbatim	function
strip	function	withindex	function
stripped	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	${\tt setrandomseedi}$	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
fallbacks	table	tostyle	function
F apply		${\tt tweakaftercopyingfont}$	function
F install		${\tt tweakbefore} {\tt copyingfont}$	function
families	data table	tweaks	table
gaps	table	F fixbadprime	
getboth	function	utfmathclass	function
getstyle	function	${\tt utfmathcommand}$	function
${\tt initialize}$ parameters	function	utfmathfiller	function
makefont	function	utfmathstretch	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	${ t mptopdf}$	table
escaped	function	F convertmpstopdf	
exectime	table	N nofconverted	
${ t filterclippath}$	function	${ t multipass}$	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	
<pre>graphic_extra_pass</pre>	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 decode	function function	qp qpwrp	function 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	ŀ
F base64		F default	
F quoted	-printable	F quoted-printable	
eol	function	F text	
normalize	function	wrp	function

## mplib (extra tex)

fields function
new function

pen\_info function
version function

## noads (context)

handlers	table	F variants		
F check		<pre>process function</pre>		
F colla	pse	processors table		
F families		T collapse		
F itali	cs	F mlist_to_hlist		
F reloc	ate	T relocate		
F rende	r	T render		
F resiz	е	T resize		
F respa	ce	T respace		
F tags		T unscript		
F unscr	ipt			

## node (basic tex)

	£+ :	14	e
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	${\tt unprotect\_glyphs}$	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 stripping	
aligned	function	F unprotectglyphs	
astable	function	has_attribute	function
before	function	idstostring	function
builders	table	ignorablefields	data table
F buildpage_filter		injections	table
F vpack_filter		F handler	
codes	data table	F setcursive	
concat	function	F setkern	
count	function	F setmark	
delete	function	F setpair	
destinations	table	${\tt installattributehandler}$	function
N attribute		${ t is\_display\_math}$	function
T done		is_mirrored	data table
F handler		is_rotated	data table
T stack		kerncodes	data table
dimensionfields	data table	${\tt leftmarginwidth}$	function
dir_is_pop	data table	lines	table
dir_negation	data table	T boxed	
${ t fasthpack}$	function	F register	
fields	function	F setup	
fillcodes	data table	F stage_one	
firstcharacter	function	F stage_two	
firstcharinbox	function	F stage_zero	
${ t firstglyph}$	function	D data	
getattribute	function	F finalize	
gluecodes	data table	F number	
glyphcodes	data table	N scratchbox	
glyphdir_is_equal	data table	link	function
glyphdir_is_opposite	data table	list	function
${ t glyphdir_is\_orthogonal}$	data table	listablefields	data table
handlers	table	listcodes	data table
F accessibility		listtoutf	function
F backgrounds		load	function
F characters		locate	function
F checkforleaks		mathcodes	data table
F checkglyphs		noadcodes	data table
F cleanuppage		nodecodes	data table
F export		packlist	function
F finalize		pardir_is_equal	data table
F migrate		pardir_is_opposite	data table
F protectglyphs		pardir_is_parallel	data table

partextdir_is_equal	data table	B enabled	
penaltycodes	data table	F hpack_filter	
pool	table	F post_linebreak_filter	
F baselineskip		F pre_linebreak_filter	
F cleanup		F tracer	
F disc		processwords	function
F fontkern		reference	function
F glue		references	table
F gluespec		N attribute	
F glyph		T done	
F kern		F handler	
F latelua		T stack	
F leftmarginkern		remove	function
F leftskip		repackhlist	function
F lineskip		replace	function
F noad		report	function
F pdfannotation		${\tt rightmarginwidth}$	function
F pdfdestination		rules	table
F pdfdirect		D data	
F pdfliteral		F define	
F pdfrestore		F enable	
F pdfsave		F handler	
F pdfsetmatrix		save	function
F penalty		serialize	function
F register		serializebox	function
F rightmarginkern		setattribute	function
F rightskip		setattributes	function
F rule		setunsetattributes	function
F shrink		shifts	table
F special		D data	
F stretch		F define	
F temp		F enable	
F textdir		F handler	
F usage		show	function
T userids		showboxes	function
N margins.inline		showcodes	function
N splitters.one		showlist	function
N splitters.two		showsimplelist	function
F userlist		skipcodes	data table
F usernumber		somepenalty	function
F userstring		somespace	function
F usertokens		stripping	table
F zeroglue	£+ :	T glyphs	
print	function	F set	£ +
processors	table	striprange	function

tasks	table	F start	
F actions		F string	
F appendaction		F unicodes	
F disableaction		T colors	
F disablegroup		F reset	
F enableaction		F set	
F enablegroup		F fontchar	
F freeze		F start	
F freezegroup		T steppers	
F new		F check	
F prependaction		F codes	
F removeaction		F features	
F restart		F glyphs	
F showactions		F message	
F table		F messages	
textdir_is_equal	data table	F nofsteps	
textdir_is_is	data table	F register	
textdir_is_opposite	data table	F reset	
textdir_is_parallel	data table	F start	
tonodes	function	F stop	
tosequence	function	F stop	
totable	function	unsetattribute	function
toutf	function	unsetattributes	function
tracers	table	visualizebox	function
T characters		whatcodes	data table
F collect		whatsitcodes	data table
F equal		writable_spec	function

F indices

## 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	resolvers
setenv	function	resultof
binsuffix	string	runtime
binsuffixes	table	selfdir
clock	function	setenv
date	function	setlocale
difftime	function	sleep
env	data table	spawn
exec	overloaded function	time
execute	overloaded function	times
exit	function	timezone
getenv	overloaded function	tmpdir
gettimeofday	function	tmpname
launch	function	type
libsuffix	string	uname
name	string	uuid
platform	string	where
remove	function	which

function

rename

table function function string

function

function function function function string function function function function

overloaded function overloaded function

overloaded 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	${\tt function}$
objtype	function	refobj	function
pageattributes	string	registerannot	function
pageref	function	reserveobj	${\tt function}$

# physics (context)

units table	S ^-1
T tables	S ^-2
T shortcuts	S ^-3
T operators	S ^1
S *	S ^2
S.	S ^3
S /	T units
S:	S A
T prefixes	S B
S E	S Hz
S G	S W
S M	S b
S P	S g
S T	S h
S Y	S hz
S Z	S 1
S a	S lx
S c	S m
S d	S n
S da	S s
S f	S t
S h	S v
S k	S °C
S m	S
S n	T units
S p	T operators
S u	S OutOf
S y	S Per
S z	S Solidus
T suffixes	S Times
S +1	T packaged
S +2	S Micron
S +3	S mmHg
S -1	T prefixes
S -2	S Atto
S -3	S Centi
S 1	S Deca
S 2	S Deci
S 3	S Exa
S ^+1	S Exbi
S ^+2	S Femto
S ^+3	S Gibi

	S	Giga	S	Astronomical Unit
	S	Hecto	S	Atm
	S	Kibi	S	Atmosphere
	S	Kilo	S	Atomic Mass Unit
	S	Mebi	S	Bar
	S	Mega	S	Barn
	S	Micro	S	Baud
	S	Milli	S	Bel
	S	Nano	S	Bequerel
	S	Pebi	S	Bit
	S	Peta	S	Byte
	S	Pico	S	Cal
	S	Root	S	Calorie
	S	Tebi	S	Candela
	S	Tera	S	Celsius
	S	Yobi	S	Coulomb
	S	Yocto	S	Dalton
	S	Yotta	S	Day
	S	Zebi	S	Degree Celsius
	S	Zepto	S	Degree Fahrenheit
	S	Zetta	S	Degrees Celsius
Т	รเ	nffixes	S	Degrees Fahrenheit
	S	Cubic	S	Dyne
	S	ICubic	S	Electron Volt
	S	ILinear	S	Erg
	S	ISquare	S	Erlang
	S	Inverse	S	Fahrenheit
	S	Linear	S	Farad
	S	Square	S	Foot
T	sy	ymbols	S	Gal
	S	%	S	Gauss
	S	ArcMinute	S	Gon
	S	ArcSecond	S	Grad
	S	Degree	S	Gram
	S	Degrees	S	Gray
	S	Percent	S	Hectare
	S	Permille	S	Henry
	S	Promille	S	Hertz
	S	•	S	Hg
	S		S	Hour
	S		S	Inch
T	ur	nits	S	Joule
	S	AMU	S	Katal
	S	Ampere	S	Kelvin
	S	Angstrom	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 Pascal

S Ohm

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 SeV

S Phot

#### profiler (extra lua)

pausefunctionstartfunctionresumefunctionstopfunction

## regimes (context)

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

#### resolvers (context)

finders

findfile

allprefixes	function	findfiles	function
appendhash	function	findgivenfile	function
automount	function	findgivenfiles	function
automounted	table	findpath	function
booleanvariable	function	findtexfile	function
cacheversion	string	findwildcardfile	function
checkedvariable	function	findwildcardfiles	function
cleanpath	function	formatofsuffix	function
cleanpathlist	function	formatofvariable	function
concatinators	data table	formats	data table
configbanner	string	generators	data table
criticalvars	data table	getenv	function
dangerous	data table	getownpath	function
datastate	function	getreadfilename	function
defaultsuffixes	table	hashers	data table
dowithfilesandreport	function	homedir	string
dowithfilesintree	function	inputstack	table
dowithpath	function	installinputfilehandler	function
dowithvariable	function	installinputlinehandler	function
env	function	instance	table
executers	table	D data	
F check		B diskcache	
F exec		D environment	
F execute		D expansions	
F finalize		D fakepaths	
F popen		D files	
F register		B force_suffixes	
F spawn		D found	
expandbraces	function	D foundintrees	
${\tt expandedpathfromlist}$	function	D hashed	
${\tt expandedpathlist}$	function	D hashes	
${\tt expanded} path {\tt listfrom} variable$	function	D lists	
expandpath	function	B loaderror	
${\tt expandpathfromvariable}$	function	D order	
expansion	function	B remember	
${\tt extendtexmfvariable}$	function	B renewcache	
find_file	<b>function</b>	B renewtree	
find_files	<b>function</b>	B savelists	
findbinfile	function	D setups	
findctxfile	function	D specification	

jobs

D variables

table

data table

function

F currentcomponent		registerzipfile	function
F currentenvironment		relations	data table
F currentproduct		renew	function
F currentproject		repath	function
F justacomponent		reset	function
D processors		resetextrapath	function
F productcomponent		resetresolve	function
F usefile		resolve	function
joinpath	function	savers	data table
load	function	scandata	function
loadbinfile	function	scanfiles	function
loaders	data table		table
loadlualib	function	T cleaners	00010
loadtexfile	function	F md5	
loadtime	function	F none	
locateformat	function	F strip	
locators	data table	F cleanname	
luacnfname	string	F install	
luacnfspec	string	N threshold	
luacnfstate	string	setenv	function
macros	table	setinstance	function
F convertfile	00020	settrace	function
F decodecomment		showpath	function
F enablecomment		simplescanfiles	function
F encodecomment		splitconfigurationpath	function
F preprocessed		splitexpansions	function
F processmkvi		splitmethod	function
F version		splitpath	function
maxreadlevel	number	suffixes	data table
methodhandler	function	suffixmap	data table
newinstance	function	suffixofformat	function
openbinfile	function	texdatablob	function
openers	data table	unexpandedpath	function
openfile	function	unexpandedpathlist	function
opentexfile	function	unresolve	function
ownpath	string	updaterelations	function
prefixes	data table	updatescript	function
prependhash	function	usezipfile	function
registerextrapath	function	validatedpath	function
registerfile	function	variable	function
registerfilehash	function	variableofformat	function
registerintrees	function	variableofformatorsuffix	function
registermethod	function	wildcardpattern	function
		1	•

## scripts (context)

categ	gorytonumber	data	table
color	's	data	table
defau	ılts	table	Э
N	inter_char_half	_shrinl	x_factor
N	inter_char_half	_stret	ch_factor
N	inter_char_hang	ul_pena	alty
N	inter_char_quar	ter_sh	rink_factor
N	inter_char_quar	ter_st	retch_factor
N	inter_char_shri	nk_fact	tor

N inter\_char\_stretch\_factor

handlers	data table
hash	table
installdataset	function
installmethod	function
numbertocategory	data table
numbertodataset	data table
preprocess	function
reset	function
set	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
            function
choose
                                                smtp
                                                             table
connect
            function
                                                    S DOMAIN
            table
dns
                                                    N PORT
    F gethostname
                                                    S SERVER
                                                    N TIMEOUT
    F tohostname
    F toip
                                                    S ZONE
            table
ftp
                                                    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 http-chunked
    F open
    F put
                                                    F until-closed
gettime
            function
                                                             function
                                                tcp
http
            table
                                                             table
                                                tp
    N PORT
                                                    N TIMEOUT
    N TIMEOUT
                                                    F connect
    S USERAGENT
                                                try
                                                             function
    F open
                                                udp
                                                             function
    F request
                                                url
                                                             table
newtry
            function
                                                    F absolute
                                                    F build
protect
            function
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)

table comparers F basic table constants S defaultdigits S defaultlanguage S defaultmethod N digitsmaximum N digitsoffset N ignoredoffset

N replacementoffset

definitions data table firstofsplit function setlanguage function function sort splitters table F utf

function strip tracers data table update function

## statistics (context)

checkfmtstatus	function	resettiming	function
elapsedindeed	function	runtime	function
elapsedseconds	function	savefmtstatus	function
elapsedtime	function	show	function
enable	boolean	${ t showjobstat}$	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
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	quote	function
bytepairs	function	quoted	function
bytes	function	rep	function
char	function	reverse	function
characterpairs	function	split	function
characters	function	splitlines	function
checkedsplit	function	splitup	function
count	function	strip	function
dump	function	sub	function
${\tt escapedpattern}$	function	toboolean	function
explode	function	tocontext	function
find	function	todimen	function
format	function	topattern	function
gfind	function	toutf	function
gmatch	function	unquote	function
gsub	function	unquoted	function
is_boolean	function	upper	function
is_empty	function	utfcharacters	function
len	function	utfsplitlines	function
limit	function	utfvalues	function
lower	function	valid	function
match	function	validutf	function

## structures (context)

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

F nof	items	F	fetchonemark	
F reg	ister	F	fetchtwomarks	
lists	table	F	get	
F add	to	F	number	
F ana	lyze	F	relate	
D cacl	hed	F	reset	
D col	lected	F	set	
F dis	card	F	show	
F enh	ance	F	synchronize	
T enha	ancers	F	title	
F fil	ter	T	tracers	
F fil	tercollected		F showtable	
F for	mulanumber	notes	3	table
F has	numberdata	F	checkpagechange	
F has	pagedata	F	define	
F has	titledata	F	deltapage	
D into	ernals	F	doifcontent	
F isc	ached	F	doifonsamepageasprev	ious
F lab	el	F	flush	
F loca	ation	F	flushpostponed	
F num	ber	F	get	
D ord	ered	F	getn	
F page	e	F	getnumberpage	
F pop	nesting		getstate	
F pre	fix	F	getsymbolpage	
F pre	fixednumber	F	internal	
F pre	fixedpage	F	internalid	
F pro	cess	F	listindex	
D pusl	hed	F	ordered	
F pus	hnesting	F	postpone	
F rea	lpage	F	resetpostponed	
T res	ult	F	restore	
	tionnumber	F	save	
F size	e	F	setstate	
F tit	le	F	setsymbolpage	
	esaved		states	
F use:			store	
	rvalue	pages		table
marks	table		analyze	
D data	_		collected	
F def			is_odd	
F exis			number	
F fet			save	
	challmarks		tobesaved	
F fet	ched	refer	cences	table

F analyze T data F define F checkedfile F checkedfileorurl F get F checkedprogram F realpageofpage F checkedrealpage U referencesplitter F checkedurl D referred D collected F referredpage U componentsplitter F registerfinalizer F currentmetadata F registerinitializer F currentorder F registerpage D currentset F reportproblems F define F reset D defined T resolvers D derived F reference F enableinteraction F section F enhance D runners D executers F set F expandcurrent F setandgetattribute F export F setcomponent T files F setinnermethod T data F setinternalreference F define F setnextinternal F get F setnextorder F filter D specials F filterdefault F splitcomponent D filters F splitprefix F from F splitreference F get T testrunners F getcurrentmetadata F inner F getcurrentprefixspec F special F special operation F getinnermethod F getinternalreference F special operation with arguments D handlers T testspecials F identify F deltapage Εi F import F internal F inject F injectcurrentset F page D internals F realpage F load F section F loadpresets F userpage F mark D tobereferred D pages D tobesaved U prefixsplitter T urls D productdata T data T programs F define

F get		F prefixedconverted	
F valid		F pushblock	
F whatfrom		F register	
registers	table	D registered	
F analyze		F reportstructure	
F analyzed		F save	
D collected		F set	
F compare		F setblock	
F define		F setchecker	
F enhance		F setlevel	
F extend		F setnumber	
F filter		F somelevel	
F filtercollected		F structuredata	
F finalize		F title	
F flush		D tobesaved	
F prepare		F typesetnumber	
F process		F userdata	
F sort		B verbose	
F store		F way	
D tobesaved		sets	table
F unique		F define	
F userdata		F get	
sections	table	F getall	
F autodepth		D setlist	
F autodepth F cct		D setlist specials	table
=			table
F cct		specials	table
F cct T collected		specials D collected	table
F cct T collected F current		specials D collected F retrieve F store D tobesaved	
F cct T collected F current F currentblock F currentid F currentlevel		specials D collected F retrieve F store	table
F cct T collected F current F currentblock F currentid		specials D collected F retrieve F store D tobesaved	
F cct T collected F current F currentblock F currentid F currentlevel		specials D collected F retrieve F store D tobesaved synonyms F analyzed D collected	
F cct T collected F current F currentblock F currentid F currentlevel F depthnumber		specials D collected F retrieve F store D tobesaved synonyms F analyzed	
F cct T collected F current F currentblock F currentid F currentlevel F depthnumber F finddata		specials D collected F retrieve F store D tobesaved synonyms F analyzed D collected	
F cct T collected F current F currentblock F currentid F currentlevel F depthnumber F finddata F findnumber		specials D collected F retrieve F store D tobesaved synonyms F analyzed D collected F compare	
F cct T collected F current F currentblock F currentid F currentlevel F depthnumber F finddata F findnumber F fullnumber		specials  D collected  F retrieve  F store  D tobesaved  synonyms  F analyzed  D collected  F compare  F define	
F cct T collected F current F currentblock F currentid F currentlevel F depthnumber F finddata F findnumber F fullnumber F getcurrentlevel F getlevel F getnumber		specials D collected F retrieve F store D tobesaved synonyms F analyzed D collected F compare F define F filter F finalize F flush	
F cct T collected F current F currentblock F currentid F currentlevel F depthnumber F finddata F findnumber F fullnumber F getcurrentlevel F getlevel F getnumber F internalreference		specials  D collected F retrieve F store D tobesaved synonyms F analyzed D collected F compare F define F filter F finalize F flush F meaning	
F cct T collected F current F currentblock F currentid F currentlevel F depthnumber F finddata F findnumber F fullnumber F getcurrentlevel F getlevel F getnumber F internalreference D levelmap		specials D collected F retrieve F store D tobesaved synonyms F analyzed D collected F compare F define F filter F finalize F flush	
F cct T collected F current F currentblock F currentid F currentlevel F depthnumber F finddata F findnumber F fullnumber F getcurrentlevel F getlevel F getnumber F internalreference D levelmap D levels		specials  D collected F retrieve F store D tobesaved synonyms F analyzed D collected F compare F define F filter F finalize F flush F meaning F prepare F process	
F cct T collected F current F currentblock F currentid F currentlevel F depthnumber F finddata F findnumber F fullnumber F getcurrentlevel F getlevel F getnumber F internalreference D levelmap D levels F load		p collected F retrieve F store D tobesaved  synonyms F analyzed D collected F compare F define F filter F finalize F flush F meaning F prepare F process F register	
F cct T collected F current F currentblock F currentid F currentlevel F depthnumber F finddata F findnumber F fullnumber F getcurrentlevel F getlevel F getnumber F internalreference D levelmap D levels F load F matchingtilldepth		specials  D collected F retrieve F store D tobesaved synonyms  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 cct T collected F current F currentblock F currentid F currentlevel F depthnumber F finddata F findnumber F fullnumber F getcurrentlevel F getlevel F getnumber F internalreference D levelmap D levels F load F matchingtilldepth F numberatdepth		specials  D collected F retrieve F store D tobesaved synonyms  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 cct T collected F current F currentblock F currentid F currentlevel F depthnumber F finddata F findnumber F fullnumber F getcurrentlevel F getlevel F getnumber F internalreference D levelmap D levels F load F matchingtilldepth		specials  D collected F retrieve F store D tobesaved synonyms  F analyzed D collected F compare F define F filter F finalize F flush F meaning F prepare F process F register F registerused	

#### tags

T data

 ${\tt F}$  detailedtag

F getid F handler D labels

F last

F lastinchain T metadata D properties F registerdata

F restart

F setattributehash F setcombination

F registermetadata

table

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
сору	function	setmetatablecall	function
count	function	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	${ t sortedhashkeys}$	function
${\tt getmetatablekey}$	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	linebreak	function
badness	function	lists	table
box	table	luacatcodes	number
catcode	table	mathcode	table
conditionals	data table	modes	data table
constants	data table	nest	table
count	table	nilcatcodes	number
ctxcatcodes	number	notcatcodes	number
definefont	function	number	function
delcode	table	pdffontname	function
dimen	table	pdffontobjnum	function
enableprimitives	function	pdffontsize	function
error	function	pdfpageref	function
extraprimitives	function	pdfxformname	function
finish	function	primitives	function
fontidentifier	function	print	function
fontname	function	printlist	function
fprint	function	prtcatcodes	number
get	function	romannumeral	function
getattribute	function	round	function
getbox	function	run	function
getcatcode	function	scale	function
getcount	function	set	function
getdelcode	function	setattribute	function
getdimen	function	setbox	function
getlccode	function	setcatcode	function
getlist	function	setcount	function
getmath	function	setdelcode	function
getmathcode	function	setdimen	function
getnest	function	setfalse	function
getsfcode	function	setlccode	function
getskip	function	setlist	function
gettoks	function	setmath	function
getuccode	function	setmathcode	function
hashtokens	function	setnest	function
ifs	data table	setsfcode	function
inicatcodes	number	setskip	function
iscount	function	settoks	function
isdimen	function	settrue	function
isskip	function	setuccode	function
istoken	function	sfcode	table
lccode	table	shipout	function

skip	table	tprint	function
sp	function	txtcatcodes	number
sprint	function	type	function
systemmodes	data table	uccode	table
texcatcodes	number	${\tt uniformdeviate}$	function
toks	table	uprint	function
tpacatcodes	number	vrbcatcodes	number
tpbcatcodes	number	write	function

## texconfig (basic tex)

error_line	number	${\tt max\_print\_line}$	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 table
hbox 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	D	mapping	
F handler		F	set	
F set		margi	ins	table
breakpoints	table	F	finalhand	ler
N attribute		F	globalhand	dler
F define		F	ha	
F handler		F	localhand	ler
D mapping		F	save	
T methods		parag	graphs	table
T numbers		N	${\tt attribute}$	
F set		T	droppers	
F setreplac	ement		F freeze	
cases	table		F set	
T actions		F	handler	
F handler		F	set	
F register		proce	essors	table
F set		F	apply	
characters	table	F	register	
F handler		F	reset	
cleaners	table	F	split	
F handler		F	startapply	<b>y</b>
F set		F	stopapply	
digits	table	F	stripped	
T actions		F	tostring	
N attribute		spaci	ings	table
F handler		N	attribute	
F set		F	define	
directions	table	F	handler	
F handler		D	mapping	
F process		T	numbers	
F set			T frenchpu	nctuation
hpack	function		T charac	ters
italics	table		S name	
F forcevari	ant		N number	:
F handler		F	reset	
F reset		F	set	
F set		F	setup	
kerns	table	tonod	les	function
D factors		vpack	ς	function
F handler		xtabl		table
B keepligat	ure	F	cleanup	
B keeptoget	her	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	E matab	
	cable	F gmatch	
F byte		F gsub F len	
F char			
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	r.	anli++houganda	
debugger F disable	table		splitthousands	function
F enable		repor		table
		-	encers	table
F savestats			appendaction	
F showstats formatters	table		appendgroup	
	table		compile	
F formatcolumns			disableaction	
F list			disablegroup	
F stripzeros	+ahla		enableaction	
garbagecollector F check	table		enablegroup	
			functions	
N criterium			localize	
B enabled lua	table		new	
	table		nodeprocessor	
F compile	table		prependaction	
packers	table		prependgroup	
F hashed			removeaction	
F new			setkind	
F pack			tostring	4-1-1-
F simplehashed		sette		table
F strip			disable	
F unpack			enable	
N version	4-1-1-		initialize	
parsers	table	_	list	
F add_settings_to	•		new	
F arguments_to_ta			register	
F array_to_string	g		reset	
F getparameters			show	4-1-7-
F hash_to_string		stora	•	table
F listitem			allocate	
F make_settings_t	to_hash_pattern		checked	
T patterns			mark	
U settings_to_a	· ·		marked	
U settings_to_h			setinitializer	
U settings_to_h		_	sparse	
U settings_to_h		striı	•	table
F settings_to_arm			collapsecrlf	
F settings_to_has			newrepeater	
F settings_to_has			nice	
F settings_to_has			striplong	
F settings_to_set			tabtospace	
F simple_hash_to	_string	table	es	table

F accesstable
F definetable
F encapsulate

F insertaftervalue

F insertbeforevalue

F migratetable

F removevalue

#### visualizers (context)

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
${\tt registerescape command}$	function	writeemptyline	function
registerescapeline	function	writenewline	function
registerescapepattern	function	writespace	function

## xml (context)

addentitiesdoctype	function	D texline	
after	function	D texspace	
all	function	D verbose	
applylpath	function	defaultprotocol	string
assign	function	delete	function
attribute	function	delete_element	function
before	function	each	function
body	function	each_element	function function
builtinentities	table	elements	function
	cable	elementtocdata	function
B amp			function
B apos		empty entities	data table
B gt B 1t		erase	function
		erase	function
B quot cdata	function		function
	function	escaped	table
cdatatotext		expressions	table
checkbom	function	F boolean	
checkerror	function	F child	
checknamespace	function	F contains	
checkns	function	F count	
cleansed	function	F error	
collect	function	F find	
collect_elements	function	F lower	
collect_tags	function	F name	
collect_texts	function	F number	
collected	function	F oneof	
collecttexts	function	F print	
content	function	F quit	
convert	function	F tag	
copy	function	F text	
count	function	F undefined	
cprint	function	F upper	
css	table	fillin	function
${ t F}$ colorspecification		filter	function
F dimension		finalizers	table
F fontspecification		T tex	
F padding		F all	
defaulthandlers	table	F attribute	
D file		F bibtexconcat	
D parsedxml		F bibtexshort	
D string		F chainattribute	
D tex		F command	

	concat	F tags	
F	concatrange	F text	
F	context	F texts	
F	count	F upperall	
F	ctxtext	first	function
F	default	found	function
F	first	functions	table
F	function	getbuffer	function
F	index	gethandlers	function
F	last	${\tt gethandlersfunction}$	function
F	lettered	include	function
F	lower	index	function
F	lowerall	inheritedconvert	function
F	match	inject	function
F	name	<pre>inject_element</pre>	<b>function</b>
F	position	$inject\_element\_after$	${\color{red} \texttt{function}}$
F	reverse	<pre>inject_element_before</pre>	${\color{red} \texttt{function}}$
F	stripped	injectafter	function
F	tag	injectbefore	function
F	tags	insert	function
F	text	insert_element	function
F	upper	${\color{red} {\tt insert\_element\_after}}$	$\underline{\text{function}}$
F	upperall	<pre>insert_element_before</pre>	$\underline{\text{function}}$
ıx 1	ml	insertafter	function
F	all	insertbefore	function
F	att	insertcomment	function
F	attribute	inspect	function
F	attributes	is_valid	function
F	cdata	kind	function
F	chainattribute	last	function
F	count	load	function
F	default	lpath	function
F	elements	lpathcached	function
F	empty	lpathcalls	function
F	first	lshow	function
F	function	makestandalone	function
F	index	match	function
F	last	name	function
F	lowerall	newhandlers	function
F	match	nodesettostring	function
F	name	originalload	function
F	position	package	function
	reverse	parent	function
F	table	parsedentitylpeg	userdata
	tag	pihandlers	table
	<u> </u>	•	

Т

placeholders	table	serialize	function
F unknown_any_entity		setcdata	function
F unknown_dec_entity		sethandlersfunction	function
F unknown_hex_entity		setproperty	function
position	function	settings	function
privatecodes	table	${ t special handler}$	table
privatetoken	function	sprint	function
process	function	string	function
process_attributes	<u>function</u>	strip	function
process_elements	<u>function</u>	${\color{red} \mathtt{strip\_whitespace}}$	<b>function</b>
processattributes	function	stripelement	function
profiled	table	${ t striple}$ ading ${ t spaces}$	function
raw	function	table	function
registerentity	function	text	function
registerns	function	textonly	function
remap_name	<u>function</u>	texttocdata	function
remap_namespace	<u>function</u>	tocdata	function
remap_tag	<u>function</u>	toelement	function
remapname	function	tostring	function
remapnamespace	function	toxml	function
remaptag	function	tprint	function
renamespace	function	traverse	function
replace	function	unescaped	function
replace_element	function	${\tt unprivatized}$	function
resolvens	function	withelement	function
root	function	withelements	function
save	function	wrap	function
selection	function	xmlns	table
separate	function		

## zip (extra lua)

archivestableopenarchivefunctionclosefunctionopenfilefunctionclosearchivefunctionregisteredfilestableopenfunctiontypefunction

#### zlib (extra lua)

adler32 function compress function crc32 function

decompress function decompressobj function version function