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

# ConTEXt MkIV

## global (alias: \_G)

1	table	getfenv	function
arg	table	getmetatable	function
assert	function	getreadfilename	function
attributes	table	global	table
backends	table	graphics	table
	function	gzip	table
beginpage bibtex	table	img	table
blobs	table	•	function
boolean	table	inspect interactions	table
buffers	table	interfaces	table
builders	table	io	table
caches	table		function
callback	table	ipairs	table
callbacks	table	job	table
catcodes	table	lang	table
characters	table	languages layouts	table
chemicals	table	lfs	table
	function	libraries	table
collectgarbage commands	table	lmx	table
commands	table	load	function
containers	function	loadfile	function
converters	table		function
converters	table	loadstring	table
debug	table	logs	table
debug	function	lpdf	table
dimen	table	lpeg ltn12	table
directives	table	lua	table
document	table	luatex	table
documentdata	table	luatex	table
dofile	function	math	table
	function	mathematics	table
endpage environment	table	md5	table
	table		table
epdf error	function	metapost mime	table
	table	module	function
experiments figures	table	moduledata	table
file	table	modules	table
floats			table
font	table table	mplib newline	function
fontloader	table		function
fonts	table	newproxy next	function
	function	next	table
gcinfo	1 unc 610n	HOAGS	гарте

node	table	streams	table
nodes	table	string	table
number	table	stripmath	${\tt function}$
os	table	structures	table
outputpagestree	function	table	table
package	table	tex	table
pairs	function	texconfig	table
parametersets	table	texio	table
pcall	function	toboolean	${\tt function}$
pdf	table	tocontext	${\tt function}$
physics	table	token	table
print	function	tokens	table
profiler	table	tonumber	${\tt function}$
protect	function	tostring	${\tt function}$
rawequal	function	trace_characters	boolean
rawget	function	traceback	${\tt function}$
rawset	function	tracers	table
regimes	table	trackers	table
${\tt report\_characters}$	function	type	${\tt function}$
require	function	typesetters	table
resolvers	table	unicode	table
scripts	table	unpack	${\tt function}$
select	function	url	table
set	table	utf	table
setfenv	function	utilities	table
setmetatable	function	visualizers	table
socket	table	xml	table
sorters	table	xmlconvert	${\tt function}$
statistics	table	xpcall	function
status	table	zip	table
storage	table	zlib	table

## attributes (context)

colorintents	table	F	pushset	
N attribute	04010		register	
D data			registered	
F enable			registerspo	tcolor
F handler			rgb 'rgb	000101
F register			rgbtocmyk	
D registered			rgbtocmyk rgbtogray	
colors	table		rgbtogray	
N attribute	cable		selector	
F cmyk			selector setlist	
•			setmodel	
F cmyktogray			sets	
F colorsompon	onta		spot	
F colorcompon	ents		-	m 0
B couple D data			spotcolorna	
N default			spotcolorpa:	
F defineinter	modiatosalor		spotcolorva	Iue
			supported	
F definemixco			transparenc	ycomponents
F definemulti			triggering	
F defineproce			'usecolors 'value	
F definesimpl	- ·	_		
F definespotc			values	
F definetrans	parency	defi	weightgray	£+ :
F enable		effe		function table
F filter				table
F forcedmodel			attribute	
F forcesuppor			data	
F formatcolor		_	enable	
F formatgray			handler	
F gray			register	
F graytohsv			registered	
F handler			values	4-1-1
F hsvtogray		hand	ıers	table
F hsvtorgb		list	_	data table
F iccprofile		name		data table
F isblack		_	tives	table
N main			attribute	
S model			data	
F mpcolor			enable	
F mpoptions			handler	
U none			register	
F popset		D	registered	

numbers data table
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
U none

D registered
B supported

F register

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 synchronized	colormodel	F	registerpagecloseaction
current	string	F	registerpageopenaction
defaults	table	F	registersymbol
T codeinjection	ons	F	setfieldcalculationset
T nodeinjection	ons	F	setfigurealternative
T registration	ns	F	setfigurecolorspace
D tables		F	setfiguremask
install	function	F	setformat
${\tt nodeinjections}$	table	F	setformsmethod
F restore		F	setpagetransition
F save		F	setupcanvas
F transform		F	setupidentity
nothing	function	F	setxmpfile
pdf	table	F	startlayer
T codeinjection	ons	F	stoplayer
F addbookman	rks	F	supportedformats
F attachment	id	F	useviewerlayer
F clonefield	l	F	validfield
F definefiel	.d	F	validfieldcategory
F definefiel	deet	T.	validfieldset
r delinelle	.ubet	г	validiteluset
F defineview			omment
		Sc	
F defineview	gerlayer	S c	omment
F defineview F embedfile	erlayer s	S c T n F	omment odeinjections
F defineview F embedfile F enabletags	verlayer s ndata	S c T n F F	omment odeinjections addtags
F defineview F embedfile F enabletags F exportform	verlayer s ndata nge	S C T n F F	omment odeinjections addtags attachfile
F defineview F embedfile F enabletags F exportform F finalizepa	gerlayer g ndata nge grence	S c T n F F F	omment odeinjections addtags attachfile cmykcolor
F defineview F embedfile F enabletags F exportform F finalizepa	verlayer S ndata nge erence efieldvalue	S C T n F F F F	omment odeinjections addtags attachfile cmykcolor comment
F defineview F embedfile F enabletags F exportform F finalizepa F finishrefe F getdefault	rerlayer  data  nge  rence  fieldvalue  stegory	S C T n F F F F	omment odeinjections addtags attachfile cmykcolor comment destination
F defineview F embedfile F enabletags F exportform F finalizepa F finishrefe F getdefault F getfieldca	rerlayer  data  ge erence efieldvalue  stegory	S C T n F F F F F	omment odeinjections addtags attachfile cmykcolor comment destination effect
F defineview F embedfile F enabletags F exportform F finalizeps F finishrefe F getdefault F getfieldca	rerlayer  data  rege erence efieldvalue  regory et  option	S C F F F F F F	omment odeinjections addtags attachfile cmykcolor comment destination effect graycolor
F defineview F embedfile F enabletags F exportform F finalizeps F finishrefe F getdefault F getfieldca F getfields F getformato	data data dge erence efieldvalue dtegory et option Eilename	S C T n F F F F F F F F F F F F F F F F F F	omment odeinjections addtags attachfile cmykcolor comment destination effect graycolor injectbitmap
F defineview F embedfile F enabletags F exportform F finalizepa F finishrefe F getdefault F getfieldca F getfields F getformato F getoutputs	data  data  age erence efieldvalue ategory et option Eilename	S C T n F F F F F F F F F F F F F F F F F F	omment odeinjections addtags attachfile cmykcolor comment destination effect graycolor injectbitmap insertmovie
F defineview F embedfile F enabletags F exportform F finalizepa F finishrefe F getdefault F getfieldca F getfields F getformatc F getoutputf F getpreview	data  data  age erence efieldvalue ategory et  option filename afigure deringwindow	S C T n F F F F F F F F F F F F F F F F F F	omment odeinjections addtags attachfile cmykcolor comment destination effect graycolor injectbitmap insertmovie insertsound
F defineview F embedfile F enabletags F exportform F finalizepa F finishrefe F getdefault F getfieldca F getfields F getformato F getoutputf F getpreview F insertrence	data  data  ge erence efieldvalue  ategory et  option  filename  offigure  deringwindow erences	S c T n F F F F F F F F F F F F F F F F F F	omment odeinjections addtags attachfile cmykcolor comment destination effect graycolor injectbitmap insertmovie insertsound insertswf
F defineview F embedfile F enabletags F exportform F finalizepa F finishrefe F getdefault F getfieldca F getfields F getformato F getoutputi F getpreview F insertrence F mergerefer	data  age erence efieldvalue ategory et option Eilename efigure deringwindow eences erlayers	S c T n F F F F F F F F F F F F F F F F F F	omment odeinjections addtags attachfile cmykcolor comment destination effect graycolor injectbitmap insertmovie insertsound insertswf insertu3d
F defineview F embedfile F enabletags F exportform F finalizeps F finishrefe F getdefault F getfieldcs F getfields F getformato F getoutputf F getpreview F insertrenc F mergerefer F mergeview	data  data  age erence efieldvalue etegory et option Eilename efigure deringwindow eences erlayers erence	S c T n F F F F F F F F F F F F F F F F F F	omment odeinjections addtags attachfile cmykcolor comment destination effect graycolor injectbitmap insertmovie insertsound insertswf insertu3d knockout
F defineview F embedfile F enabletags F exportform F finalizeps F finishrefe F getdefault F getfieldes F getfieldes F getformate F getoutputf F getpreview F insertrenc F mergerefer F mergeview F prerollref	data  data  age erence efieldvalue ategory et option filename efigure deringwindow ences erlayers ference ool	S c T n F F F F F F F F F F F F F F F F F F	omment odeinjections addtags attachfile cmykcolor comment destination effect graycolor injectbitmap insertmovie insertsound insertswf insertu3d knockout negative
F defineview F embedfile F enabletags F exportform F finalizepa F finishrefe F getdefault F getfieldes F getfields F getformate F getoutputf F getpreview F insertrence F mergerefer F mergeviewe F presetsymb	data  data  age erence efieldvalue ategory et  option filename efigure deringwindow ences erlayers ference ool	S c T n F F F F F F F F F F F F F F F F F F	omment odeinjections addtags attachfile cmykcolor comment destination effect graycolor injectbitmap insertmovie insertsound insertswf insertu3d knockout negative overprint
F defineview F embedfile F enabletags F exportform F finalizeps F finishrefs F getdefault F getfieldes F getfields F getformate F getpreview F insertrence F mergerefer F mergeview F presetsymb F presetsymb F processrer	data  data  age erence efieldvalue ategory et  option filename efigure deringwindow ences erlayers ference ool	S c T n F F F F F F F F F F F F F F F F F F	omment odeinjections addtags attachfile cmykcolor comment destination effect graycolor injectbitmap insertmovie insertsound insertswf insertu3d knockout negative overprint positive

T blue F startlayer F stoplayer T gray F switchlayer T green T red F transparency 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 stopslant

T tables

T vfspecials T black

registrations table tables table

#### bibtex (context)

authorref function
authors table

F concat
F inverted
F invertedshort

F normal
F normalshort
F setsettings

authoryearref function authoryearsref function convert function hacks table

F add

F short

 ${\tt F}$  doifalreadyplaced

F filterall

F flush

 ${\tt F}$  nofregistered

F process F register

F registerplaced

F reset
F resolve

load function
new function
singularorplural function
statistics table

N nofbytes
N nofdefinitions
N nofshortcuts

toxml function

## blobs (context)

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

### boolean (context)

tocontext function
tonumber function

### buffers (context)

append function assign function collectcontent function erase function

erase function exists function getcontent function

getlines function

parallel table

F define

F hassomecontent

F next
F place
F reset
F save

raw function

## builders (context)

kernel	table	F disable	
F hyphe	enation	F enable	
F kerni	ing	F optimize	
F ligat	curing	F setup	
F mlist	t_to_hlist	F split	
paragraph	s table	F tag	
T const	tructors	vspacing table	
N att	ribute	F analyze	
F dis	able	D categories	
F ena	able	F collapsevbox	
F han	ndler	T data	
T met	hods	D map	
F d	lefault	D skip	
Fo	neline	D snapmethods	
D nam	nes	F definesnapmethod	d
D num	nbers	B fixed	
F reg	gister	F pagehandler	
F set	į	F setmap	
F keept	together	F setskip	
F regis	stertogether	F snapbox	
T solut	cions	F tocategories	
T spl	itters	F tocategory	
F d	lefine	F vboxhandler	

### caches (context)

ask	boolean	is_writable	function
base	string	loadcontent	${\tt function}$
collapsecontent	function	loaddata	${\tt function}$
configfiles	function	more	string
contentstate	function	relocate	boolean
defaults	table	savecontent	${\tt function}$
define	function	savedata	${\tt function}$
direct	boolean	setfirstwritablefile	${\tt function}$
force	boolean	setluanames	${\tt function}$
${\tt getfirstreadablefile}$	function	tree	string
getreadablepaths	function	treehash	${\tt function}$
getwritablepath	function	usedpaths	${\tt function}$
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	${\tt remapentity}$	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
МРу	function	copyposition	function
Romannumerals	function	countervalue	function
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	currentregime	function
addtolist	function	datasetvariable	function
allinputpaths	function	dayname	function
alphabetic	function	defineattribute	function
${\tt analysefloatmethod}$	function	definebibtexsession	function
analyzelist	function	definebreakpoint	function
applytochars	function	definebreakpoints	function
applytowords	function	definecharacterspacing	function
assignbuffer	function	defineconversion	function
autofinishstructurelevels	function	definecounter	function

definedviewerlayer	function	doifelsevisualizer	function
definefield	function	doiffieldcategoryelse	function
definefieldset	function	doiffieldelse	function
definefilefallback	function	doiffieldsetelse	function
definefilesynonym	function	doiffiledefinedelse	function
definefont_one	function	doiffileexistelse	function
definefont_two	function	doiffirstcharelse	function
definefontfeature	function	doifinputfileelse	function
defineintermediatecolor	function	doifinsetelse	function
definelinkedlist	function	doifleapyearelse	function
definemarking	function	doiflisthasentry	function
definemultitonecolor	function	doiflisthasnumberelse	function
defineparallel	function	doiflisthaspageelse	function
defineprocesscolor	function	doiflisthastitleelse	function
definesectionlevels	function	doiflocfileelse	function
definespotcolor	function	doifnot	function
definestructureblock	function	doifnotcounter	function
definestructureset	function	doifolderversionelse	function
definetransparency	function	doifoverlappingelse	function
definetwopasslist	function	doifparentfileelse	function
defineviewerlayer	function	doifposition	function
defrostrandomseed	function	doifpositionelse	function
digits	function	doifpositiononpage	function
disableregime	function	doifpositionsonsamepageelse	function
disablespellchecking	function	doifpositionsonthispageelse	function
discardfromlist	function	doifurldefinedelse	function
doanalyzeframedbox	function	doprocesstypescriptfile	function
doif	function	doreshapeframedbox	function
doifblackelse	function	dostarttextfile	function
doifcommonelse	function	dostoptextfile	function
doifcounter	function	ecolumn	function
doifdimenstringelse	function	elapsedtime	${\tt function}$
doifdrawingblackelse	function	enablecolor	function
doifelse	function	enablecolorintents	function
doifelsebuffer	function	enablefontcolorschemes	function
doifelsecounter	function	enableregime	function
${\tt doifelse current fon thas feature}$	function	enablespellchecking	function
doifelseintwopassdata	function	enabletransparency	function
doifelsemarking	function	enhancelinkedlist	function
doifelsemultipar	function	enhancelist	${\tt function}$
doifelseparallel	function	erasebuffer	${\tt function}$
doifelsepositionsused	function	exportformdata	${\tt function}$
doifelserangeonpage	function	featureattribute	${\tt function}$
doifelsesavedfloat	function	featurelist	${\tt function}$
doifelsespaces	function	feedback	${\tt function}$

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fetchallmarks	function	getreadfilename	function
fetchmultipar	function	gettexbuffer	function
fetchonemark	function	gettwopassdata	function
fetchposboxes	function	gettwopassdatalist	function
fetchtwomarks	function	geturl	function
filterreference	function	grabbuffer	function
finalizebox	function	helpaction	function
findtwopassdata	function	helpreference	function
firstcountervalue	function	hexstringtonumber	function
firstinset	function	hour	function
flushfloat	function	${\tt hyphenatedlist}$	function
flushpostponedblocks	function	hyphenatedurl	function
fontchar	function	D characters	
fontcollectionclone	function	N lefthyphenmin	
fontcollectiondefine	function	D mapping	
fontcollectionprepare	function	N righthyphenmin	
fontcollectionregister	function	F setcharacters	
fontcollectionreport	function	incrementedcounter	function
fontcollectionreset	function	insertattachment	function
fontlookupgetkey	function	insertcomment	function
fontlookupgetkeyofindex	function	insertfield	function
fontlookupinitialize	function	insertrenderingwindow	function
fontlookupnoffound	function	insertsoundclip	function
forceendjob	function	isleapyear	function
forcequitjob	function	languagenumber	function
format	function	lastcountervalue	function
formatcolor	function	lchexnumber	function
formatgray	function	lchexnumbers	function
freezerandomseed	function	leapyear	function
getbuffer	function	listlabel	function
getbufferctxlua	function	listlocation	function
getbuffermkvi	function	listprefixednumber	function
getdefaultfieldvalue	function	listprefixedpage	function
getfieldcategory	function	listrealpage	function
getfirstcharacter	function	listsize	function
getfirsttwopassdata	function	listtitle	function
getfloatvariable	function	listuserdata	function
getinternalreference	function	loadctxpreplist	function
getlasttwopassdata	function	loadexamodes	function
getmarking	function	loadfontgoodies	function
getprivateattribute	function	loadspellchecklist	function
getprivatechar	function	loadtypescriptfile	function
getrandomcounta	function	loadvisualizer	function
getrandomcountb	function	locatefilepath	function
getrandomseed	function	locfilename	function
G		· · · · · · · · · · · · · · · · · · ·	

markregionbox	function	prevcountervalue	function
mathrenderset	function	processbuffer	function
maxitemwidth	function	processedfile	function
minute	function	processedfiles	function
molecule	function	processfile	function
month	function	${\tt processfilemany}$	function
monthmnem	function	processfilenone	function
monthname	function	processfileonce	function
mpcolor	function	processlist	function
mpoptions	function	pushfloat	function
${\tt namedstructureuservariable}$	function	pushitaliccorrection	function
${\tt namedstructurevariable}$	function	pushlist	function
nbfs	function	rawcharacter	function
nextcountervalue	function	rawcountervalue	function
nextparallel	function	rawdate	function
nofdays	function	referencepagestate	function
nofitems	function	referencerealpage	function
nofstackedfloats	function	registerattachment	function
noteprefixednumber	function	registerbibtexentry	function
notetitle	function	registerbibtexfile	function
ntimes	function	registerbookmark	function
number	function	registerbuttons	function
octnumber	function	registercolor	function
octstringtonumber	function	registercolorintent	function
ordinal	function	registeredviewerlayer	function
overloadbookmark	function	registerhelp	function
pagestaterealpage	function	registeritemgroup	function
parpos	function	registermaintextcolor	function
pdfrotation	function	registernamespace	function
percentageof	function	${\tt registerpostponedblock}$	function
pgfxcolorspec	function	registersoundclip	function
placeparallel	function	registerstructureprocessor	function
popfloat	function	${\tt registertransparency}$	function
popitaliccorrection	function	registerunit	function
poplist	function	relatemarking	function
pos	function	removemissingcharacters	function
posplus	function	replacemissingcharacters	function
posstrut	function	${\tt replacepospxywhd}$	function
poswhd	function	resavefloat	function
posxy	function	resetcounter	function
prepareMPvariable	function	resetfontfeature	function
preparebibtexsession	function	resetmarking	function
preparedfile	function	resetmathitalics	function
presetsymbollist	function	resetnullfont	function
presettabulate	function	resetparallel	function

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resetstructureprocessor	function	setopenpageaction	function
resettimer	function	setowncounter	function
restartcounter	function	setpagestate	function
restorecounter	function	setpagestaterealpageno	function
restorecurrentattributes	function	${ t setpagetransition}$	function
romannumerals	function	setpos	function
runbuffer	function	setrandomseed	function
savebuffer	function	setrealign	function
savecounter	function	setreferencearguments	function
savecurrentattributes	function	setreferenceoperation	function
${ t savedlist number}$	function	setstructureblockstate	function
${\tt savedlistprefixed number}$	function	${ t settagcombination}$	function
savedlisttitle	function	${ t settagdescription}$	function
savefloat	function	${ t settagdescriptionsymbol}$	function
saveparallel	function	settagfigure	function
savestructureblock	function	settaghighlight	function
savetaggedtwopassdata	function	settagitemgroup	function
savetwopassdata	function	settagproperty	function
second	function	settagsorting	function
selectstructureblock	function	settagsynonym	function
setbreakpoints	function	settagtablecell	function
setcharactercasing	function	settagtabulatecell	function
setcharactercleaning	function	setupbookmarks	function
setcharacterkerning	function	setupcanvas	function
setcharacterspacing	function	setupcharacterspacing	function
setcharacterstripping	function	setupexport	function
setclosedocumentaction	function	setupfontexpansion	function
setclosepageaction	function	setupfontprotrusion	function
setcolormodel	function	setupidentity	function
setcounter	function	setupitaliccorrection	function
setdataset	function	setxmpfile	function
setdigitsmanipulation	function	showattributes	function
setdirection	function	showchardata	function
setfontfeature	function	showcounter	function
setfontofid	function	showfontparameters	function
setformat	function	showhyphenatedinlist	function
setformsmethod	function	splitfilename	function
setinternalreference	function	spotcolorname	function
setmarking	function	spotcolorparent	function
setmathalphabet	function	spotcolorvalue	function
setmathalternate	function	startcolorset	function
setmathattribute	function	startcomponent	function
setmathitalics	function	startenvironment	function
setmathstyle	function	startproduct	function
setopendocumentaction	function	startproject	function
2000ponaooamonoaoo1on	1 4110 0 1 0 11	2021 012 01000	1 4110 01011

		4.2	
startregime	function	useanyfile	function
startsectionlevel	function	usecldfile	function
starttag	function	usecolors	function
starttext	function	usecomponent	function
startviewerlayer	function	useenvironment	function
stopcolorset	function	usefile	function
stopcomponent	function	${\tt usejavascriptpreamble}$	function
stopenvironment	function	usejavascriptscripts	function
stopproduct	function	uselibrary	function
stopproject	function	useluafile	function
stopregime	function	usemodules	function
stopsectionlevel	function	${\tt usepath}$	function
stoptag	function	useproduct	function
stoptext	function	useproject	function
stopviewerlayer	function	usesubpath	function
storejavascriptcode	function	usesymbols	function
storejavascriptpreamble	function	usetexfile	function
structureautocatcodedget	function	useurl	function
structurecatcodedget	function	usexmlfile	function
structuregivencatcodedget	function	usezipfile	function
structurenumber	function	utfchar	function
structuretitle	function	utfmathclass	function
structureuservariable	function	utfmathcommand	function
structurevariable	function	utfmathfiller	function
subcountervalues	function	utfmathstretch	function
subff	function	vspacing	function
subfs	function	vspacingcollapse	function
synchronizecolormodel	function	vspacingdefine	function
synchronizemarking	function	vspacingsetamount	function
taggedmathfunction	function	vspacingsnap	function
testcase	function	weekday	function
textime	function	weekdayname	function
transparencycomponents	function	widthofstring	function
triggereffect	function	writestatus	function
triggernegative	function	x_table_cleanup	function
truefilename	function	x_table_construct	function
typebuffer	function	x_table_create	function
typefile	function	x_table_flush	function
typestring	function	x_table_init_construct	function
uchexnumber	function	x_table_init_reflow_height	function
uchexnumbers	function	x_table_init_reflow_width	function
unicodechar	function	x_table_next_row	function
unit	function	x_table_reflow_height	function
updatefilenames	function	x_table_reflow_width	function
useMPlibrary	function	x_table_set_construct	function
asom ribrary	1 4110 0 1 0 11	"_14510_500_00H501400	1411001011

x_table_set_reflow_height	function
${\tt x\_table\_set\_reflow\_width}$	function
year	function

## containers (context)

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

## converters (context)

Alphabetic	function	leapyear	function
Character	function	maxchrs	function
Characters	function	minute	function
Romannumerals	function	month	function
${\tt abjad nodot numerals}$	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
${\tt chinesecap numerals}$	function	romannumerals	function
chinesenumerals	function	second	function
chr	function	sequences	data table
chrs	function	textime	function
convert	function	toabjad	function
define	function	tochinese	function
hexstringtonumber	function	toroman	function
hour	function	uchexnumber	function
isleapyear	function	uchexnumbers	function
lchexnumber	function	weekday	function
lchexnumbers	function	year	function

## coroutine (basic lua)

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

## debug (basic lua)

debug	function	getupvalue	function
getfenv	function	setfenv	${\tt function}$
gethook	function	sethook	${\tt function}$
getinfo	function	setlocal	${\tt function}$
getlocal	function	setmetatable	${\tt function}$
getmetatable	function	setupvalue	${\tt function}$
getregistry	function	traceback	${\tt function}$

## 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

setargument function setdefaultargument function setfilename function

## environment (context)

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

## epdf (extra tex)

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	04510	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	order	data table
check	function	paths	data table
checkers	data table	patterns	data table
converters	data table	-	function
current	function	pop preferquality	boolean
	number		data table
defaultdepth	number	programs	function
defaultheight defaultsearch		push	_ 0110011
	boolean	registerpattern	function
defaultwidth	number	registerresource	
done	function	registersuffix	function
dummy	function	resources	data table
existers	data table	scale	function
exists	function	setlookups	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	joinpath	function
basename	function	loadchecksum	function
checksum	function	nameonly	function
collapsepath	function	nametotable	function
сору	function	needs_updating	function
dirname	function	readdata	function
expandname	function	removesuffix	function
extname	function	replacesuffix	function
is_qualified_path	function	robustname	function
is_readable	function	savechecksum	function
is_rootbased_path	function	savedata	function
is_writable	function	splitname	function
isreadable	function	splitpath	function
iswritable	function	strip	function
join	function	suffix	function

## floats (context)

analysemethod	function	nofstacked	function
${\tt checkedpagefloat}$	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	${\tt function}$
define	function	max	${\tt function}$
each	function	nextid	${\tt function}$
fonts	table	${\tt read\_tfm}$	${\tt function}$
frozen	function	read_vf	${\tt function}$
getfont	function	setfont	${\tt function}$

## fontloader (extra tex)

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

#### fonts (context)

analyzers table F virtual D initializers F initializefeatures D methods T keys F setstate T character B useunicodemarks S depth checkers table S height S italic F missing 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 S descender F process F registermain S designsize F report T expansion S auto F reset T vectors S shrink constructors table S step F aftercopyingcharacters S stretch F applymanipulators S extendfactor S factor F assignmathparameters S hfactor B autocleanup S mathsize F beforecopyingcharacters D cache T protrusion F calculatescale S auto F checkedfeatures S quad F checkedfilename S scaledpoints F cleanuptable S scriptpercentage F collectprocessors S scriptscriptpercentage D designsizes S size D dontembed S slantfactor F enhanceparameters S slantperpoint N factor T spacing F finalize S extra F getfeatureaction 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 applypostp	rocessors
S space_stretch	F checkedmod	е
S spaceshrink	F checkedscr	ipt
S spacestretch	F current	
S x_height	S defaultloo	kup
S units	F define	
S vfactor	F getspecifi	cation
S xheight	F loadfont	
T properties	F makespecif	ication
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 registersp	lit
S format	F resetnullf	ont
S fullname	F resolve	
S hasitalics	T resolvers	
S hasmath	F file	
S mathitalics	F name	
S mode	F spec	
S name	definetypefac	e 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_unico	de_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 colorschem	es
F scaled	F coloring	
F setfactor	T data	
F setname	F enable	
N version	T designsize	S

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 addtexligatures	D predefined
B autoprefixed	D whatever
D cache	hashes table
D features	D characters
F load	D csnames
F setfeatures	D descriptions
F setfeatures B syncspace	D descriptions T dynamics
F setfeatures B syncspace N version	D descriptions T dynamics D identifiers
F setfeatures B syncspace N version T otf	D descriptions T dynamics D identifiers D italics
F setfeatures B syncspace N version T otf F addfeature	D descriptions T dynamics D identifiers D italics D marks
F setfeatures B syncspace N version T otf F addfeature D cache	D descriptions T dynamics D identifiers D italics D marks D parameters
F setfeatures B syncspace N version T otf F addfeature D cache T chainhandlers	D descriptions T dynamics D identifiers D italics D marks D parameters T processes
F setfeatures B syncspace N version T otf F addfeature D cache T chainhandlers F normal	D descriptions T dynamics D identifiers D italics D marks D parameters T processes D properties
F setfeatures B syncspace N version T otf F addfeature D cache T chainhandlers F normal F verbose	D descriptions T dynamics D identifiers D italics D marks D parameters T processes D properties D quads
F setfeatures B syncspace N version T otf F addfeature D cache T chainhandlers F normal F verbose F collectlookups	D descriptions T dynamics D identifiers D italics D marks D parameters T processes D properties D quads D resources
F setfeatures B syncspace N version T otf F addfeature D cache T chainhandlers F normal F verbose F collectlookups F dataset	D descriptions T dynamics D identifiers D italics D marks D parameters T processes D properties D quads D resources T setdynamics
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 descriptions T dynamics D identifiers D italics D marks D parameters T processes D properties D quads D resources T setdynamics D xheights
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 descriptions T dynamics D identifiers D italics D marks D parameters T processes D properties D quads D resources T setdynamics D xheights helpers table
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 descriptions T dynamics D identifiers D italics D marks D parameters T processes D properties D quads D resources T setdynamics D xheights helpers table F addprivate
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 descriptions T dynamics D identifiers D italics D marks D parameters T processes D properties D quads D resources T setdynamics D xheights helpers table F addprivate F dimenfactor
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 descriptions T dynamics D identifiers D italics D marks D parameters T processes D properties D quads D resources T setdynamics D xheights helpers table F addprivate

F getprivatenode	F tounicode16
F hasprivate	F tounicode16sequence
F nametoslot	names table
F setdigitwidth	S basename
iterators table	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 lm	T data
S lo	B enabled
S lt	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 mappings table	S osfontdirvariable F readdata
mappings table F addtounicode	
	F register
F fromunicode16	F registered
F loadfile F loadline	F resolve
	F resolvedspecification
F loadlumtable	F resolvespec
F makenameparser	B saved
F reset	F specification

D specificati	ons	speci	fiers	table
F splitspec		D	contextmerge	ed
N version		F	contextnumbe	er
F writedata		D	contextnumbe	ers
protrusions	data table	D	contextsetup	s
readers	table	F	contexttostr	ring
F afm		F	mergecontext	;
F check_lua		F	presetcontex	t
F check_tfm		F	registercont	ext
F dfont		F	showcontext	
F lua		F	splitcontext	;
F opentype		D	synonyms	
F otf		D	variants	
F pfb		symbo	ls	table
D sequence		F	uselibrary	
F tfm		table	s	table
F ttc		trace	rs	table

typefaces data table

F ttf

## 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
keys new			function function

#### interactions (context)

attachments table F setpreamble F insert F storecode F register F storepreamble fields table F usepreamblenow F clone F usescripts linkedlists table F define F defineset table pages F insert F setpagetransition general table F setupcanvas references table F getidentity F setclosedocument F setupidentity table F setclosepage help F collect F setopendocument F reference F setopenpage F register javascripts table

renderings table F register

F addtopreamble F rendering F code F var

soundclips table D codes F insert F flushpreambles

D functions F register D preambles

## 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
${\tt getchecked parameters}$	function	setvalidkeys	function
getmessage	function	setvariable	function
hashedsetups	data table	showmessage	function
${\tt interfaced command}$	function	syntax	data table
interfaces	table	tolist	function
invalidkey	function	translations	data table
is_command	function	variables	data table

## io (basic lua)

ask	function	T paranoid	
bytes	function	open	overloaded function
characters	function	open_ro	function
close	function	output	function
exists	function	pathseparator	string
fileseparator	string	popen	overloaded function
flush	function	read	function
$i_limiter$	function	readnumber	function
$i_limiters$	table	readstring	function
T paranoid		savedata	function
input	function	size	function
limiter	function	stderr	userdata
lines	function	stdin	userdata
loaddata	function	stdout	userdata
noflines	function	tmpfile	function
$o\_limiter$	function	type	function
o_limiters	table	write	function

# job (context)

comment	function	F	getdata
datasets	table	F	getfield
D collecte	d	F	gettobesaved
F extend		F	inlist
F getdata		F	last
F setdata		F	list
D tobesave	d	F	save
disablesave	function	F	savetagged
files	table	D	tobesaved
D collecte	d	posit	ions table
F context		F	b_col
B forcerun		F	b_region
F run		F	С
D tobesave	d	D	collected
initialize	function	F	column
load	function	F	сору
loadother	function	F	depth
objects	table	F	e_col
D collecte	d		e_region
F doifelse			enhance
F get			extra
F number		F	get
F page			getreserved
F save			hangafter
F set			hangindent
D tobesave	d		height
pack	boolean	F	hsize
=	table	F	leftskip
D collecte		F	lowerleft
F extend		F	lowerright
F realpage		F	markregionbox
F setstate		F	n
D tobesave	d	F	onsamepage
passes	table	F	overlapping
F check		F	
D collecte	d		page
F count			paragraph
F define			parindent
F find			position
F first			r
F get		F	region
F getcolle	cted		replace

F rights	skip	structure	table
F set		D collecte	ed
F setall	-	T componer	nts
F setdim	1	T tobesave	ed
D tobesa	ived	T branch	ies
F upperl	eft	S name	
F upperr	right	S type	
F width		variables	table
F x		D checksum	ns
F xy		D collecte	ed
Fу		F save	
register	function	D tobesave	ed
save	function	version	number

## lang (basic tex)

clean	function	new	function
<pre>clear_hyphenation</pre>	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 function association 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 loadwords function logger table

F report

numbers data table posthyphenchar function prehyphenchar function data table registered righthyphenmin function setdirty function function synonym number version words 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
basictex data table
builtin data table

extralua data table extratex 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	${\tt showdebuginfo}$	function
loadedfile	function	showerror	function
make	function	tv	function
new	function	type	function
${\tt overloaderror}$	function	urlescape	function
popupfile	function	variable	function
print	function	variables	data table

# logs (context)

application	function	setmessenger	function
categories	function	setprogram	${\tt function}$
direct	function	settarget	${\tt function}$
disable	function	settranslations	${\tt function}$
enable	function	show	${\tt function}$
extendbanner	function	show_close	function
flush	function	show_load	function
help	function	show_open	${\tt function}$
messenger	function	simple	${\tt function}$
new	function	simpleline	${\tt function}$
newline	function	simplelines	${\tt function}$
poptarget	function	${\tt start\_page\_number}$	${\tt function}$
pushtarget	function	status	${\tt function}$
report	function	stop_page_number	${\tt function}$
report_job_stat	function	subdirect	${\tt function}$
reportbanner	function	subreport	${\tt function}$
reporter	function	system	${\tt function}$
reportline	function	texerrormessage	${\tt function}$
reportlines	function	writer	function
setformats	function		

# 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	pdftimestamp	function
circularshade	function	protectresources	boolean
cmykcode	function	reference	function
collectedresources	function	registerannotation	function
color	function	registerdocumentfinalizer	
colorspace	function	registerpagefinalizer	function
colorspaceconstants	table	reserveannotation	function
T all	Cabic	reserveobject	function
T cmyk		rgbcode	function
T gray		rotationcm	function
T rgb		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	UUDIC	transparency	function
finalizedocument	function	transparencycode	function
finalizepage	function	transparencygroups	table
finishtransparencycode	function	B none	UUDIC
flushobject	function	transparencyvalue	function
flushstreamfileobject	function	unicode	function
flushstreamobject	function	verbose	function
formats	data table	. 01 0000	1311001011
TOTIMOOD	aasa sabic		

# lpeg (basic lua)

function	endstripper	function
function	firstofsplit	function
function	frontstripper	function
function	is_lpeg	function
function	keeper	function
function	locale	function
function	match	function
function	oneof	function
function	patterns	data table
function	print	function
function	replacer	function
function	secondofsplit	function
function	span	function
function	split	function
function	splitat	function
function	splitter	function
function	stripper	function
function	tsplitat	function
function	tsplitter	function
function	type	function
function	${\tt utfchartabletopattern}$	function
function	version	function
function		
	function	function firstofsplit function frontstripper function is_lpeg function keeper function locale function match function patterns function print function replacer function secondofsplit function split function split function split function tinction split function tinction split function tinction split function tinction splitter function tinction tinction tinction tinction tinction function tinction utfichartabletopattern function version

### ltn12 (extra lua)

BLOCKSIZE filter	number table		simpli table	fy
F chain		sourc	е	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	l
F error		F	simpli	fy
F file		F	string	:
F null				

## lua (basic tex)

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

### luatex (context)

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

## lxml (context)

addindex	function	getindex	function
all	function	id	function
~	function	idsplitter	userdata
applyfunction 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	${\tt function}$
directives	table	namespace	${\tt function}$
F after		nonspace	${\tt function}$
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	
filterlist	function	setcommandtotext	
first	function	setsetup	function
flush	function	snippet	function
flushlinewise	function	sorters	table
flushsetups	function	F add	CADIC
flushspacewise	function		
	function	F compare	
get_id	function	F flush	
getid	Tunction	F reset	

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	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	remapalphabets	function
alphabets	data table	renderings	table
big	function	D mappings	
boldmap	table	D numbers	
categories	table	D sets	
D functions		renderset	function
checkaccentbaseheight	function	resetitalics	function
checkprivateparameters	function	scaleparameters	function
classes	data table	setalternate	function
codes	data table	setitalics	function
define	function	syncboth	function
dimensions	function	syncname	function
extrabase	number	syncstyle	function
extras	table	toname	function
F add		tostyle	function
F copy		${\tt tweakaftercopyingfont}$	function
families	data table	${\tt tweakbefore copying font}$	function
gaps	table	tweaks	table
getboth	function	F fixbadprime	
getstyle	function	utfmathclass	function
${\tt initialize}$ parameters	function	utfmathcommand	function
makefont	function	utfmathfiller	function
overloadparameters	function	${\tt utfmathstretch}$	function
privatebase	number		

## md5 (extra lua)

HEX	function	exor	function
crypt	function	hex	function
dec	function	sum	function
decrypt	function	sumhexa	${\tt function}$

## metapost (context)

onolumonlumina	function	ma la ammar	table
analyzeplugins checkformat	function	makempy	table
checktexts		N nofconverted	
	function	F processgraphics	4-1-1-
colorinitializer	function	metafun	table
convert	function	F interpolate	
defaultformat	string	F topath	_
directrun	function	method	number
edefsxsy	function	mptopdf	table
escaped	function	F convertmpstopdf	
exectime	table	N nofconverted	
filterclippath	function	multipass	boolean
finder	function	n	number
flush	function	optimize	boolean
flushers	table	parse	function
T pdf		pdfliterals	function
F comment		pluginactions	function
F flushfigure		process	function
F startfigure		processplugins	function
F stopfigure		reducetogray	boolean
F textfigure		reporterror	function
flushliteral	function	reset	function
flushnormalpath	function	resetlastlog	function
flushreset	function	resetplugins	function
format	function	resettextexts	function
formatnumber	function	setoutercolor	function
getclippath	function	settext	function
gettext	function	showlog	boolean
graphic	function	tex	table
graphic_base_pass	function	F get	
graphic_extra_pass	function	F reset	
intermediate	table	F set	
T actions		texerrors	boolean
F makempy		textextsdata	function
B needed		theclippath	function
lastlog	string	totable	function
load	function	unload	function
lastlog	string function	totable	function

### mime (extra lua)

b64	function	qp	function	
decode	function	qpwrj	function	
decodet	table	stuf	f function	
F base	64	unb64	4 function	
F quot	ed-printable	unqp	function	
dot	function	wrap	function	
encode	function	wrap	t table	
encodet	table	F	base64	
F base64		F	F default	
F quot	ed-printable	F	quoted-printable	
eol	function	F	text	
normalize	e function	wrp	function	

## mplib (extra tex)

fields function
new function

pen\_info function
version function

#### noads (context)

# handlers table F check F collapse F families F italics F relocate F render F resize F respace F tags

F unscript

F variant	s
process	function
processors	table
T collaps	se
F mlist_t	co_hlist
T relocat	e
T render	
T resize	
T respace	•
T unscrip	ot

## node (basic tex)

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

#### nodes (context)

after	function	F 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	
${ t glyphdir_is\_equal}$	data table	link	function
glyphdir_is_opposite	data table	list	function
${\tt glyphdir\_is\_orthogonal}$	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		${\tt repackhlist}$	function
F lineskip		replace	function
F noad		report	function
F pdfannotation		${ t right} { t margin} { t widt} { t h}$	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		${ t showsimple list}$	function
F userlist		skipcodes	data table
F usernumber		${ t some penalty}$	function
F userstring		somespace	function
F usertokens		${ t stripping}$	table
F zeroglue		T glyphs	
print	function	F set	_
processors	table	striprange	function

tasks	table	F start	
F actions	Cabic	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)

function

function

remove

rename

		-	. 17
getenv	function	resolvers	table
setenv	function	resultof	function
binsuffix	string	runtime	function
binsuffixes	table	selfdir	string
clock	function	setenv	overloaded function
date	function	setlocale	overloaded function
difftime	function	sleep	function
env	data table	spawn	overloaded function
exec	overloaded function	time	function
execute	overloaded function	times	function
exit	function	timezone	function
getenv	overloaded function	tmpdir	function
gettimeofday	function	tmpname	function
launch	function	type	string
libsuffix	string	uname	function
name	string	uuid	function
platform	string	where	function

which

function

## package (basic lua)

appendtolibpath	function
clibpaths	function
config	string
cpath	string
libpaths	function
loaded	table

loaders	table
loadlib	function
path	string
preload	table
${\tt prepend} {\tt tolibpath}$	function
seeall	function

# pdf (basic tex)

immediateobj	function	pageresources	string
mapfile	function	pagesattributes	string
mapline	function	pdfmapfile	function
maxobjnum	function	pdfmapline	${\tt function}$
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 1x
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
Ѕ у	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
T s	uffixes	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 s	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	0	S	Hg
S		S	Hour
S		S	Inch
Tu	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 Phot S Poise S Radian S Rev S Revolution S Second S Siemens S Sievert S Steradian S Stilb S Stokes S Tesla S Tonne S Volt S Watt S Weber SeV

#### profiler (extra lua)

pause function
resume function

start function
stop function

#### regimes (context)

disable function enable function pop function process function

push function
toregime function
translate function

## resolvers (context)

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
${\tt dowithfiles} {\tt andreport}$	function	homedir	string
dowithfilesintree	function	installinputfilehandler	function
dowithpath	function	installinputlinehandler	function
dowithvariable	function	instance	table
env	function	D data	
executers	table	B diskcache	
F check		D environment	
F exec		D expansions	
F execute		D fakepaths	
F finalize		D files	
F popen		B force_suffixes	
F register		D found	
F spawn		D foundintrees	
expandbraces	function	D hashed	
${\tt expandedpathfromlist}$	function	D hashes	
expandedpathlist	function	D lists	
expandedpathlistfromvariable	function	B loaderror	
expandpath	function	D order	
expandpathfromvariable	function	B remember	
expansion	function	B renewcache	
extendtexmfvariable	function	B renewtree	
find_file	<b>function</b>	B savelists	
find_files	<b>function</b>	D setups	
findbinfile	function	D specification	
findctxfile	function	D variables	
finders	data table	jobs	table
findfile	function	F currentcomponent	

F currentenvironment		relations	data table
F currentproduct		renew	function
F currentproject		repath	function
F justacomponent		reset	function
D processors		${\tt resetextrapath}$	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	schemes	table
loadlualib	function	T cleaners	
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		settrace	function
F decodecomment		showpath	function
F enablecomment		simplescanfiles	function
F encodecomment		${ t split}{ t configuration}{ t path}$	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	${\tt unexpandedpathlist}$	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
magistamainfile	function	•	

function

registerzipfile

#### scripts (context)

categorytonumber data table colors data table defaults table N inter\_char\_half\_shrink\_factor

N inter\_char\_half\_stretch\_factor

N inter\_char\_hangul\_penalty

N inter\_char\_quarter\_shrink\_factor

N inter\_char\_quarter\_stretch\_factor

N inter\_char\_shrink\_factor N inter\_char\_stretch\_factor

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

#### 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
                                                    S SERVER
    F gethostname
                                                    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
protect
           function
                                                    F build
select
           function
                                                    F build_path
sink
           function
                                                    F escape
sinkt
           table
                                                    F parse
    F close-when-done
                                                    F parse_path
    F default
                                                    F unescape
    F http-chunked
```

#### sorters (context)

comparers table
 F basic

constants table
 S defaultdigits
 S defaultlanguage
 S defaultmethod
 N digitsmaximum
 N digitsoffset
 N ignoredoffset

N replacementoffset

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

tracers data table update function

## statistics (context)

c	heckfmtstatus	function	resettiming	function
e	lapsedindeed	function	runtime	function
e	lapsedseconds	function	savefmtstatus	function
e	lapsedtime	function	show	function
e	nable	boolean	showjobstat	function
f	ormatruntime	function	starttiming	function
ŀ	astiming	function	stoptiming	function
n	emused	function	threshold	number
1	egister	function	timed	function
1	eportstorage	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	match	function
bytepairs	function	quote	${\tt function}$
bytes	function	quoted	${\tt function}$
char	function	rep	function
${\tt characterpairs}$	function	reverse	function
characters	function	split	${\tt function}$
checkedsplit	function	splitlines	function
count	function	splitup	${\tt function}$
dump	function	strip	${\tt function}$
${\tt escapedpattern}$	function	sub	function
explode	function	toboolean	${\tt function}$
find	function	tocontext	${\tt function}$
format	function	todimen	function
gfind	function	topattern	${\tt function}$
gmatch	function	toutf	${\tt function}$
gsub	function	unquote	${\tt function}$
is_boolean	function	unquoted	${\tt function}$
is_empty	function	upper	function
len	function	utfcharacters	function
limit	function	utfsplitlines	${\tt function}$
lower	function	utfvalues	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		${\tt currentsection number}$	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 nofitems		F fetchonemark	
F register		F fetchtwomarks	
lists	table	F get	
F addto		F number	
F analyze		F relate	
D cached		F reset	
D collected		F set	
F discard		F show	
F enhance		F synchronize	
T enhancers		F title	
F filter		T tracers	
F filtercollected		F showtable	
F formulanumber		notes	table
F hasnumberdata		F checkpagechange	
F haspagedata		F define	
F hastitledata		F deltapage	
D internals		F doifcontent	
F iscached		${ t F}$ doifonsamepageaspre	vious
F label		F flush	
F location		F flushpostponed	
F number		F get	
D ordered		F getn	
F page		F getnumberpage	
F popnesting		F getstate	
F prefix		F getsymbolpage	
F prefixednumber		F internal	
F prefixedpage		F internalid	
F process		F listindex	
D pushed		F ordered	
F pushnesting		F postpone	
F realpage		F resetpostponed	
T result		F restore	
F sectionnumber		F save	
F size		F setstate	
F title		F setsymbolpage	
D tobesaved		D states	
F userdata		F store	
F uservalue		pages	table
marks	table	F analyze	
D data		D collected	
F define		F is_odd	
F exists		F number	
F fetch		F save	
F fetchallmarks		D tobesaved	
F fetched		references	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 doifelse F section F enableinteraction D runners F enhance F set D executers F setandgetattribute F expandcurrent F setcomponent F export F setinnermethod T files F setinternalreference T data F setnextinternal F define F setnextorder F get D specials F filter 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 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	table
F cct T collected F current F currentblock		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 synonyms F analyzed	
F cct T collected F current F currentblock F currentid F currentlevel		specials  D collected F retrieve F store D tobesaved synonyms	
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 compare F define	
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 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	3	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	,	pecials 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 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		pecials 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 cct T collected F current F currentblock F currentid F currentlevel F depthnumber F finddata F findnumber F fullnumber F getcurrentlevel F getnumber F internalreference D levelmap D levels F load F matchingtilldepth		pecials 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 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		pecials 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 F numbers		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 synonym	
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	1	pecials 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	

T data F detailedtag

F getid F handler D labels F last

F lastinchain
T metadata
D properties
F registerdata
F registermetadata

F restart

F setattributehash F setcombination

F setdescription

F setdescriptionsymbol

F setfigure
F sethighlight
F setitemgroup
F setproperty
F setsorting
F setsynonym
F settablecell
F settabulatecell

F start
F stop
D taglist
T userdata

#### table (basic lua)

append	function	print	${\tt function}$
are_equal	function	remove	function
compact	function	reversed	function
concat	function	sequenced	${\tt function}$
contains	function	serialize	${\tt function}$
copy	function	setmetatablecall	${\tt function}$
count	function	${\tt setmetatableindex}$	${\tt function}$
derive	function	${\tt setmetatablekey}$	${\tt function}$
fastcopy	function	${\tt setmetatable new index}$	${\tt function}$
flattened	function	setn	${\tt function}$
foreach	function	sort	${\tt function}$
foreachi	function	sortedhash	${\tt function}$
fromhash	function	${ t sortedhashkeys}$	${\tt function}$
getmetatablekey	function	sortedkeys	${\tt function}$
getn	function	sortedpairs	${\tt function}$
has_one_entry	function	strip	${\tt function}$
identical	function	sub	${\tt function}$
imerge	function	swapped	${\tt function}$
imerged	function	tocontext	${\tt function}$
insert	function	tofile	${\tt function}$
is_empty	function	tohandle	${\tt function}$
keys	function	tohash	${\tt function}$
loweredkeys	function	toxml	${\tt function}$
maxn	function	unique	${\tt function}$
merge	function	unnest	${\tt function}$
merged	function	unpack	${\tt function}$
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		pdffontsize	function
	function	•	function
error		pdfpageref pdfxformname	
extraprimitives	function	-	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
$\mathtt{getmath}$	function	setdelcode	function
${\tt getmathcode}$	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 sp	table function	tprint txtcatcodes	function 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	max_print_line	${\tt number}$
expand_depth	number	max_strings	${\tt number}$
formatname	string	nest_size	${\tt number}$
half_error_line	number	param_size	${\tt number}$
hash_extra	number	save_size	${\tt number}$
init	function	shell_escape	string
kpse_init	boolean	stack_size	${\tt number}$
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 Fa F b Fс F showtoken F test F trace table egroup hbox table letter function letters function other function vbox table table vtop

#### tracers (context)

count function
cs function
dimen function
knownlist function
lists table

 ${\tt T} \ {\tt context}$ 

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
${\tt dumphashtofile}$	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	finalha	ndler
N attribut	е	F	globalh	andler
F define		F	ha	
F handler		F	localha	ndler
D mapping		F	save	
T methods		parag	graphs	table
T numbers		N	attribu	te
F set		T	dropper	S
F setrepla	cement		F freeze	е
cases	table		F set	
T actions		F	handler	
F handler		F	set	
F register		proce	essors	table
F set		F	apply	
characters	table	F	registe	r
F handler		F	reset	
cleaners	table	F	split	
F handler		F	startap	ply
F set		F	stopapp	ly
digits	table	F	strippe	d
T actions		F	tostrin	g
N attribut	e	spaci	ings	table
F handler		N	attribu	te
F set		F	define	
directions	table	F	handler	
F handler		D	mapping	
F process		T	numbers	
F set			T frenc	npunctuation
npack	function		T char	racters
italics	table		S name	e
F forcevar	iant		N numl	per
F handler		F	reset	
F reset		F	set	
F set			setup	
kerns	table	tono	des	function
D factors		vpacl		function
F handler		xtab]	les	table
B keepliga	ture	F	cleanup	
B keeptoge	ther	F	constru	ct

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 makab	
	table	F gmatch	
F byte		F gsub	
F char		F len F lower	
F dump			
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	
F rep		utf16_to_utf8_le	
F reverse		utf32_to_utf8	function
F sub		utf32_to_utf8_be	
F upper	_	utf32_to_utf8_le	
filetype	function	utf8	table
$\operatorname{\mathtt{grapheme}}$	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 construct function filename function hashed function hasscheme function query function split function

## utilities (context)

debugger	table	repoi	rt	function
F disable		-	encers	table
F enable		-	appendaction	
F savestats			appendgroup	
F showstats			compile	
formatters	table		disableaction	
F formatcolumns		F	disablegroup	
F list		F	enableaction	
F stripzeros		F	enablegroup	
garbagecollector	table	D	functions	
F check		F	localize	
N criterium		F	new	
B enabled		F	nodeprocessor	
lua	table	F	prependaction	
F compile		F	prependgroup	
packers	table	F	removeaction	
F hashed		F	setkind	
F new		F	tostring	
F pack		sette	ers	table
F simplehashed		F	disable	
F strip		F	enable	
F unpack		F	initialize	
N version		F	list	
parsers	table	F	new	
F add_settings_t	o_array	F	register	
F arguments_to_t	able	F	reset	
F array_to_strin	g	F	show	
F getparameters		stora	age	table
F hash_to_string		F	allocate	
F listitem		F	checked	
F make_settings_	to_hash_pattern	F	mark	
T patterns		F	marked	
U settings_to_	array	F	setinitializer	
U settings_to_	hash_a	F	sparse	
U settings_to_	hash_b	stri	ngs	table
U settings_to_	hash_c	F	collapsecrlf	
F settings_to_ar	ray	F	newrepeater	
F settings_to_ha	sh	F	nice	
F settings_to_ha	sh_strict	F	striplong	
F settings_to_ha			tabtospace	
F settings_to_se	t	table		table
F simple_hash_to	_string	F	accesstable	

F definetableF encapsulateF 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 towarded	
after	function	D texspace D verbose	
all	function	defaultprotocol	string
	function	delete	function
applylpath assign	function	delete element	function
attribute	function	each	function
before	function	each element	function
	function	elements	function
body builtinentities	table	elementtocdata	function
B amp	table		function
•		empty entities	data table
B apos		encicles	function
B gt		errorhandler	function
B lt			function
B quot cdata	function	escaped	table
cdatatotext	function	expressions F boolean	table
checkbom	function	F child	
checkerror	function		
		F contains	
checknamespace	function function	F count	
checkns cleansed	function	F error F find	
cleansed	function		
		F lower	
collect_elements	function	F name	
collect_tags	function	F number	
collect_texts	function	F oneof	
collected	function	F print	
collecttexts	function	F quit	
content	function	F tag	
convert	function	F text	
сору	function	F undefined	
count	function	F upper	
cprint	function	fillin	function
CSS	table	filter	function
F colorspecification		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	
D texline		F concat	

Ficoncatrange	F text	
F concatrange F context	F texts	
F count F ctxtext	F upperall first	function
F default	found	function
F first	functions	table
f function	getbuffer	function
F index		function
F last	gethandlers	function
r last F lettered	gethandlersfunction include	function
	index	function
Flower	inheritedconvert	function
Flowerall		function
F match	inject	
F name	inject_element	function
F position	inject_element_after	function
Freverse	inject_element_before	
F stripped	injectafter	function
F tag	injectbefore	function
F tags	insert	function
F text	insert_element	function
Fupper	insert_element_after	function
F upperall	insert_element_before	
xml	insertafter	function
Fall	insertbefore	function
Fatt	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
Findex	match	function
F last	name	function
F lowerall	newhandlers	function
F match	nodesettostring	function
F name	originalload	function
F position	package	function
F reverse	parent	function
F table	${\tt parsedentitylpeg}$	userdata
F tag	pihandlers	table
F tags	placeholders	table

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

# zip (extra lua)

archives	table	openarchive	function
close	function	openfile	${\tt function}$
closearchive	function	registeredfiles	table
open	function	type	function

#### zlib (extra lua)

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