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

# ConTEXt MkIV

# global (alias: \_G)

4	+-1-1-	:	<b>4-17-</b>
1	table table	interfaces io	table table
arg	function		function
assert		ipairs	
attributes backends	table	job	table
	table	lang	table
beginpage	function	languages	table
bibtex	table	layouts	table
blobs	table	lfs	table
boolean	table	libraries	table
buffers	table	lmx	table
builders	table	load	function
caches	table	loadfile	function
callback	table	loadstring	function
callbacks	table	logs	table
catcodes	table	lpdf	table
characters	table	lpeg	table
chemicals	table	ltn12	table
collectgarbage	function	lua	table
commands	table	luatex	table
containers	table	lxml	table
context	function	math	table
converters	table	mathematics	table
coroutine	table	md5	table
debug	table	metapost	table
dimen	function	mime	table
dir	table	module	function
directives	table	moduledata	table
document	table	modules	table
documentdata	table	mplib	table
dofile	function	newline	function
endpage	function	newproxy	function
environment	table	next	function
epdf	table	noads	table
error	function	node	table
experiments	table	nodes	table
figures	table	number	table
file	table	os	table
floats	table	outputpagestree	function
font	table	package	table
fontloader	table	pairs	function
fonts	table	parametersets	table
gcinfo	function	pcall	function
getfenv	function	pdf	table
getmetatable	function	physics	table
getreadfilename	function	print	function
global	table	profiler	table
graphics	table	protect	function
gzip	table	rawequal	function
img	table	rawget	function
inspect	function	rawset	function
interactions	table	regimes	table
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report_characters	function
require	function
resolvers	table
scripts	table
select	function
set	table
setfenv	function
setmetatable	function
socket	table
sorters	table
statistics	table
status	table
storage	table
streams	table
string	table
stripmath	function
structures	table
table	table
tex	table
texconfig	table
texio	table
toboolean	function

tocontext	function
token	table
tokens	table
tonumber	function
tostring	function
trace_characters	boolean
traceback	function
tracers	table
trackers	table
type	function
typesetters	table
unicode	table
unpack	function
url	table
utf	table
utilities	table
visualizers	table
xml	table
xpcall	function
zip	table
zlib	table

#### attributes (context)

colorintents table	F setlist	
N attribute	F setmodel	
D data	D sets	
F enable	F spot	
F handler	F spotcolornar	ne
F register	F spotcolorpa	rent
D registered	F spotcolorva	lue
colors table	B supported	
N attribute	F transparency	ycomponents
F cmyk	B triggering	
F cmyktogray	F usecolors	
F cmyktorgb	F value	
F colorcomponents	D values	
B couple	B weightgray	
D data	define	function
N default	effects	table
F defineintermediatecolor	N attribute	
F definemixcolor	D data	
F definemultitonecolor	F enable	
F defineprocesscolor	F handler	
F definesimplegray	F register	
F definespotcolor	D registered	
F definetransparency	D values	
F enable	handlers	table
F filter	list	data table
F forcedmodel	names	data table
F forcedmodel F forcesupport F formatcolor	<pre>names negatives N attribute</pre>	data table table
F forcesupport F formatcolor	negatives	
F forcesupport F formatcolor F formatgray	negatives N attribute D data	
F forcesupport F formatcolor F formatgray F gray	negatives N attribute D data F enable	
F forcesupport F formatcolor F formatgray	negatives  N attribute  D data  F enable  F handler	
F forcesupport F formatcolor F formatgray F gray F graytohsv F handler	negatives  N attribute D data F enable F handler F register	
F forcesupport F formatcolor F formatgray F gray F graytohsv F handler F hsvtogray	negatives  N attribute D data F enable F handler F register D registered	table
F forcesupport F formatcolor F formatgray F gray F graytohsv F handler F hsvtogray F hsvtorgb	negatives  N attribute D data F enable F handler F register D registered numbers	table  data table
F forcesupport F formatcolor F formatgray F gray F graytohsv F handler F hsvtogray F hsvtorgb F iccprofile	negatives  N attribute D data F enable F handler F register D registered numbers ofnode	table  data table function
F forcesupport F formatcolor F formatgray F gray F graytohsv F handler F hsvtogray F iccprofile F isblack	negatives  N attribute D data F enable F handler F register D registered numbers ofnode private	data table function function
F forcesupport F formatcolor F formatgray F gray F graytohsv F handler F hsvtogray F iccprofile F isblack N main	negatives  N attribute D data F enable F handler F register D registered numbers ofnode private showcurrent	data table function function function
F forcesupport F formatcolor F formatgray F gray F gray F graytohsv F handler F hsvtogray F hsvtorgb F iccprofile F isblack N main S model	negatives  N attribute D data F enable F handler F register D registered numbers ofnode private showcurrent states	data table function function table
F forcesupport F formatcolor F formatgray F gray F graytohsv F handler F hsvtogray F iccprofile F isblack N main S model F mpcolor	negatives  N attribute D data F enable F handler F register D registered numbers ofnode private showcurrent states F disabletrigg	data table function function function table
F forcesupport F formatcolor F formatgray F gray F gray F graytohsv F handler F hsvtogray F iccprofile F isblack N main S model F mpcolor F mpoptions	negatives  N attribute D data F enable F handler F register D registered numbers ofnode private showcurrent states F disabletrigg	data table function function function table
F forcesupport F formatcolor F formatgray F gray F gray F graytohsv F handler F hsvtogray F iccprofile F isblack N main S model F mpcolor F mpoptions U none	negatives  N attribute D data F enable F handler F register D registered numbers ofnode private showcurrent states F disabletrigg F enabletrigge F finalize	data table function function function table
F forcesupport F formatcolor F formatgray F gray F gray F graytohsv F handler F hsvtogray F iccprofile F isblack N main S model F mpcolor F mpoptions U none F popset	negatives  N attribute D data F enable F handler F register D registered numbers ofnode private showcurrent states F disabletrigg F enabletrigge F finalize F initialize	data table function function function table
F forcesupport F formatcolor F formatgray F gray F gray F graytohsv F handler F hsvtogray F hsvtorgb F iccprofile F isblack N main S model F mpcolor F mpoptions U none F popset F pushset	negatives  N attribute D data F enable F handler F register D registered numbers ofnode private showcurrent states F disabletrigg F enabletrigge F finalize F initialize F process	data table function function function table
F forcesupport F formatcolor F formatgray F gray F gray F graytohsv F handler F hsvtogray F hsvtorgb F iccprofile F isblack N main S model F mpcolor F mpoptions U none F popset F pushset F register	negatives  N attribute D data F enable F handler F register D registered numbers ofnode private showcurrent states F disabletrigg F enabletrigge F finalize F initialize F process F selective	data table function function function table
F forcesupport F formatcolor F formatgray F gray F gray F graytohsv F handler F hsvtogray F hsvtorgb F iccprofile F isblack N main S model F mpcolor F mpoptions U none F popset F pushset F register D registered	negatives  N attribute D data F enable F handler F register D registered numbers ofnode private showcurrent states F disabletrigg F enabletrigge F finalize F initialize F process F selective F stacked	data table function function table gering
F forcesupport F formatcolor F formatgray F gray F gray F graytohsv F handler F hsvtogray F hsvtorgb F iccprofile F isblack N main S model F mpcolor F mpoptions U none F popset F pushset F register D registered F registerspotcolor	negatives  N attribute D data F enable F handler F register D registered numbers ofnode private showcurrent states F disabletrigg F enabletrigge F finalize F initialize F process F selective F stacked transparencies	data table function function function table
F forcesupport F formatcolor F formatgray F gray F gray F graytohsv F handler F hsvtogray F hsvtorgb F iccprofile F isblack N main S model F mpcolor F mpoptions U none F popset F pushset F register D registered F registerspotcolor F rgb	negatives  N attribute D data F enable F handler F register D registered numbers ofnode private showcurrent states F disabletrigg F enabletrigge F finalize F process F selective F stacked transparencies N attribute	data table function function table gering
F forcesupport F formatcolor F formatgray F gray F gray F graytohsv F handler F hsvtogray F hsvtorgb F iccprofile F isblack N main S model F mpcolor F mpoptions U none F popset F pushset F register D registered F registerspotcolor F rgb F rgbtocmyk	negatives  N attribute D data F enable F handler F register D registered numbers ofnode private showcurrent states F disabletrigg F enabletrigge F finalize F initialize F process F selective F stacked transparencies N attribute D data	data table function function table gering
F forcesupport F formatcolor F formatgray F gray F graytohsv F handler F hsvtogray F iccprofile F isblack N main S model F mpcolor F mpoptions U none F popset F pushset F register D registered F registerspotcolor F rgb F rgbtogray	negatives  N attribute D data F enable F handler F register D registered numbers ofnode private showcurrent states F disabletrigg F enabletrigge F finalize F initialize F process F selective F stacked transparencies N attribute D data F enable	data table function function table gering ering
F forcesupport F formatcolor F formatgray F gray F gray F graytohsv F handler F hsvtogray F hsvtorgb F iccprofile F isblack N main S model F mpcolor F mpoptions U none F popset F pushset F register D registered F registerspotcolor F rgb F rgbtocmyk	negatives  N attribute D data F enable F handler F register D registered numbers ofnode private showcurrent states F disabletrigg F enabletrigge F finalize F initialize F process F selective F stacked transparencies N attribute D data	data table function function table gering ering

- U none
  F register
  D registered
  B supported
- B triggering
- F value
- D values unsetvalue
- unsetvaluenumberviewerlayerstable
  - 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 setformsmethod current string F setpagetransition defaults table F setupcanvas T codeinjections F setupidentity T nodeinjections F setxmpfile T registrations F startlayer D tables F stoplayer install function F supportedformats nodeinjections table F useviewerlayer F restore F validfield F validfieldcategory F save F transform F validfieldset nothing function S comment pdf table T nodeinjections T codeinjections F addtags F attachfile F addbookmarks F addtransparencygroup F cmykcolor F attachmentid F comment F clonefield F destination F definefield F effect F definefieldset F graycolor F injectbitmap F defineviewerlayer F embedfile F insertmovie F enabletags F insertsound F exportformdata F insertswf F finalizepage F insertu3d F finishreference F knockout F getdefaultfieldvalue F negative F getfieldcategory F overprint F getfieldset F positive F getformatoption F reference F getoutputfilename F rgbcolor F getpreviewfigure F spotcolor F insertrenderingwindow F startlayer F mergereferences F stoplayer F switchlayer F mergeviewerlayers F prerollreference F transparency F presetsymbol F typesetfield F presetsymbollist T registrations F processrendering F cmykindexcolor F registerdocumentcloseaction F cmykspotcolor F registerdocumentopenaction F getspotcolorreference F registeredsymbol F grayindexcolor F registerpagecloseaction F grayspotcolor F registerpageopenaction F rgbindexcolor F registersymbol F rgbspotcolor F setfieldcalculationset F spotcolorname F setfigurealternative F transparency T tables F setfigurecolorspace F setfiguremask T vfspecials F setformat T black

T bl	ue	T	paleblu	е
T gr	ay	Т	palegra	У
T gr	een	Т	palegre	en
T re	d	T	palered	
T ru	lecolors	Т	red	
Т	black	Fs	startslan	t
T	blue	T s	stopslant	
T	gray	gistrat	ions	table
Т	green ta	bles		table

#### bibtex (context)

F filterall

authorref	function	F flush		
authors	table	F nofregistered		
F concat		F process		
F inverted		F register	register	
F invertedshort		F registerplaced		
F normal		F reset		
F normalshort		F resolve		
F setsettings		load	function	
F short		new	function	
${ t authoryearref}$	function	singular or plural	function	
${ t authoryearsref}$	function	statistics	table	
convert	function	N nofbytes		
hacks	table	N nofdefinitions		
F add		N nofshortcuts		
F doifalreadypla	ced	toxml	function	

#### blobs (context)

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

#### boolean (context)

tocontext function
tonumber function

#### buffers (context)

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

 ${\tt function}$ 

#### builders (context)

kerne	el table	F	disable
F	hyphenation	F	enable
F	kerning	F	optimize
F	ligaturing	F	setup
F	mlist_to_hlist	F	split
	graphs table	F tag	5
T	constructors	vspacing	g table
	N attribute	F ana	ılyze
	F disable	D cat	egories
	F enable	F col	lapsevbox
	F handler	T dat	; <b>a</b>
	T methods	D m	ap
	F default	D s	skip
	F oneline	D s	napmethods
	D names	F def	inesnapmethod
	D numbers	B fix	ed
	F register	F pag	gehandler
	F set	F set	map
F	keeptogether	F set	skip
F	registertogethe	er F sna	ıpbox
	solutions		ategories
	T splitters		ategory
	F define	F vbc	xhandler

#### caches (context)

ask	boolean	is_writable	function
base	string	loadcontent	function
collapsecontent	function	loaddata	function
configfiles	function	more	string
contentstate	function	relocate	boolean
defaults	table	savecontent	function
define	function	savedata	function
direct	boolean	setfirstwritablefile	function
force	boolean	setluanames	function
getfirstreadablefile	function	tree	string
getreadablepaths	function	treehash	function
${ t getwritable path}$	function	usedpaths	function
hashed	function		

#### callback (basic tex)

find function
list function

register overloaded function

#### callbacks (context)

freeze	function	push	${\tt function}$
known	function	register	${\tt function}$
list	data table	report	${\tt function}$
pop	function	table	${\tt function}$

#### catcodes (context)

names data table
numbers data table
register function

#### characters (context)

activeoffset	number	is_mark	data table
	function	<del>-</del>	data table
adobename		is_spacing	
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	${ t mathpairs}$	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	<del></del>	

#### chemicals (context)

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

#### commands (context)

Alphabetic	function	checkcharactersinfont	function
Character	function	checkedconversion	function
Characters	function	checkedpagefloat	function
MPc	function	checkstructurecountersetup	function
MPd	function	checktwopassdata	function
MPh	function	chineseallnumerals	function
MP11	function	chinesecapnumerals	function
MPlr	function	chinesenumerals	function
MPls	function	cleanfontname	function
MPn	function	clonefield	function
МРр	function	collectfloat	function
MPpardata	function	collecthelp	function
MPplus	function	colorcomponents	function
MPpos	function	consultfloat	function
MPposset	function	copyfiletolog	function
MPr	function	${ t copyposition}$	function
MPrest	function	${\tt counttwopassdata}$	function
MPrs	function	currentcomponent	function
MPul	function	currentdate	function
MPur	function	currentenvironment	function
MPw	function	currentproduct	function
MPx	function	currentproject	function
MPxy	function	currentregime	function
MPxywhd	function	dayname	function
MPy	function	defineattribute	function
Romannumerals	function	definebibtexsession	function
${ t abjadnodotnumerals}$	function	${\tt definebreakpoint}$	function
${ t abjadnumerals}$	function	${\tt definebreakpoints}$	function
addff	function	${\tt definecharacterspacing}$	function
addfs	function	defineconversion	function
${\tt addlinklistelement}$	function	definedviewerlayer	function
addstructurecounter	function	definefield	function
${\tt addtojavascriptpreamble}$	function	definefieldset	function
addtolist	function	definefilefallback	function
allinputpaths	function	definefilesynonym	function
alphabetic	function	definefont_one	function
${\tt analysefloatmethod}$	function	definefont_two	function
${\tt analyzelist}$	function	definefontfeature	function
applytochars	function	${\tt defineintermediatecolor}$	function
applytowords	function	definelinkedlist	function
assignbuffer	function	definemarking	function
${\tt autofinishstructurelevels}$	function	definemultitonecolor	function
autonextspace	function	defineparallel	function
autonextstructurelevel	function	defineprocesscolor	function
autosetups	function	definespotcolor	function
autostarttext	function	definestructureblock	function
autostoptext	function	definestructurecounter	function
bcolumn	function	definestructureset	function
boolcase	function	definetransparency	function
character	function	definetwopasslist	function
characters	function	defineviewerlayer	function

defrostrandomseed	function	ecolumn	function
digits	function	elapsedtime	function
disableregime	function	enablecolor	function
disablespellchecking	function	enablecolorintents	function
discardfromlist	function	enablefontcolorschemes	function
doanalyzeframedbox	function	enableregime	function
doif	function	enablespellchecking	function
doifblackelse	function	enabletransparency	function
doifcommonelse	function	enhancelinkedlist	function
doifdimenstringelse	function	enhancelist	function
doifdrawingblackelse	function	erasebuffer	function
doifelse	function	exportformdata	function
doifelsebuffer	function	featureattribute	function
doifelsecurrentfonthasfeature	function	featurelist	function
doifelseintwopassdata	function	feedback	function
doifelsemarking	function	fetchallmarks	function
doifelsemultipar	function	fetchmultipar	function
doifelseparallel	function	fetchonemark	function
doifelsepositionsused	function	fetchposboxes	function
doifelserangeonpage	function	fetchtwomarks	function
doifelsesavedfloat	function	filterreference	function
doifelsespaces	function	finalizebox	function
doifelsestructurecounter	function	findtwopassdata	function
doifelsevisualizer	function	firstinset	function
doiffieldcategoryelse	function	firststructurecounter	function
doiffieldelse	function	flushfloat	function
doiffieldsetelse	function	flushpostponedblocks	function
doiffiledefinedelse	function	fontchar	function
doiffileexistelse	function	fontcollectionclone	function
doiffirstcharelse	function	fontcollectiondefine	function
doifinputfileelse	function	fontcollectionprepare	function
doifinsetelse	function	fontcollectionregister	function
doifleapyearelse	function	fontcollectionreport	function
doiflisthasentry	function	fontcollectionreset	function
doiflisthasnumberelse	function	fontlookupgetkey	function
doiflisthaspageelse	function	fontlookupgetkeyofindex	function
doiflisthastitleelse	function	fontlookupinitialize	function
doiflocfileelse	function	fontlookupnoffound	function
doifnot	function	forceendjob	function
doifnotstructurecounter	function	forcequitjob	function
doifolderversionelse	function	format	function
doifoverlappingelse	function	formatcolor	function
doifparentfileelse	function	formatgray	function
doifposition	function	freezerandomseed	function
doifpositionelse	function	getbuffer	function
doifpositiononpage	function	getbufferctxlua	function
doifpositionsonsamepageelse	function	getbuffermkvi	function
doifpositionsonthispageelse	function	getdefaultfieldvalue	function
doifstructurecounter	function	getfieldcategory	function
doifurldefinedelse	function	getfirstcharacter	function
doprocesstypescriptfile	function	getfirsttwopassdata	function
doreshapeframedbox	function	getfloatvariable	function
dostarttextfile	function	getinternalreference	function
dostoptextfile	function	getlasttwopassdata	function
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getmarking	function	minute	function
getprivateattribute	function function	molecule month	function function
getprivatechar	function	monthmem	function
getrandomcounta getrandomcountb	function	monthmame	function
getrandomseed	function		function
getrandomseed getreadfilename	function	mpcolor	function
gettexbuffer	function	mpoptions namedstructureuservariable	function
<u> </u>	function	namedstructurevariable	function
gettwopassdata gettwopassdatalist	function	nbfs	function
geturl	function	nextparallel	function
grabbuffer	function	nextpararrer nextstructurecounter	function
helpaction	function	nofdays	function
helpreference	function	nofitems	function
hexstringtonumber	function	nofitems	function
hour	function	noteprefixednumber	function
hyphenatedlist	function	notetitle	function
hyphenatedurl	function	ntimes	function
D characters	1411001011	number	function
N lefthyphenmin		octnumber	function
D mapping		octstringtonumber	function
N righthyphenmin		ordinal	function
F setcharacters		overloadbookmark	function
incrementedstructurecounter	function	parpos	function
insertattachment	function	pdfrotation	function
insertcomment	function	percentageof	function
insertfield	function	placeparallel	function
insertrenderingwindow	function	popfloat	function
insertsoundclip	function	popitaliccorrection	function
isleapyear	function	poplist	function
languagenumber	function	pos	function
laststructurecounter	function	posplus	function
lchexnumber	function	posstrut	function
lchexnumbers	function	poswhd	function
leapyear	function	posxy	function
listlabel	function	prepareMPvariable	function
listlocation	function	preparebibtexsession	function
listprefixednumber	function	preparedfile	function
listprefixedpage	function	presetsymbollist	function
listrealpage	function	presettabulate	function
listsize	function	prevstructurecounter	function
listtitle	function	processbuffer	function
listuserdata	function	processedfile	function
${\tt loadctxpreplist}$	function	processedfiles	function
loadexamodes	function	processfile	function
${\tt load font goodies}$	function	${\tt processfilemany}$	function
${f loadspellchecklist}$	function	processfilenone	function
${ t loadtypescriptfile}$	function	processfileonce	function
loadvisualizer	function	processlist	function
${ t locatefile path }$	function	pushfloat	function
locfilename	function	pushitaliccorrection	function
${ t markregion box}$	function	pushlist	function
mathrenderset	function	rawcharacter	function
maxitemwidth	function	rawdate	function

referencepagestate	function	setcharacterspacing	function
referencerealpage	function	setcharacterstripping	function
registerattachment	function	setclosedocumentaction	function
registerbibtexentry	function	setclosepageaction	function
registerbibtexfile	function	setcolormodel	function
registerbookmark	function	setdigitsmanipulation	function
registerbuttons	function	setfontfeature	function
registercolor	function	setfontofid	function
registercolorintent	function	setformat	function
registeredviewerlayer	function	setformsmethod	function
registerhelp	function	setinternalreference	function
-	function	setmiternarrerence	function
registeritemgroup	function	G	function
registermaintextcolor	function	setmathalphabet setmathalternate	function
registernamespace	function	setmathattribute	function
registerpostponedblock	function	setmathattribute setmathitalics	function
registersoundclip			
registerstructureprocessor	function	setmathstyle	function
registertransparency	function	setopendocumentaction	function
registerunit	function	setopenpageaction	function
relatemarking	function	setownstructurecounter	function
removemissingcharacters	function	setpagetransition	function
replacemissingcharacters	function	setpos	function
replacepospxywhd	function	setrandomseed	function
resavefloat	function	setrealign	function
resetfontfeature	function	setreferencearguments	function
resetmarking	function	setreferenceoperation	function
resetmathitalics	function	setstructureblockstate	function
resetnullfont	function	setstructurecounter	function
resetparallel	function	settagcombination	function
resetstructurecounter	function	${ t settagdescription}$	function
resetstructureprocessor	function	${ t settagdescriptionsymbol}$	function
resettimer	function	settagfigure	function
restartstructurecounter	function	${ t settaghighlight}$	function
restorecurrentattributes	function	${ t settagitem}{ t group}$	function
restorestructurecounter	function	settagproperty	function
romannumerals	function	settagsorting	function
runbuffer	function	${ t settagsynonym}$	function
savebuffer	function	settagtablecell	function
savecurrentattributes	function	settagtabulatecell	function
${ t savedlist number}$	function	${ t setupbookmarks}$	function
${\tt savedlistprefixed number}$	function	setupcanvas	function
savedlisttitle	function	${ t setupcharacters pacing}$	function
savefloat	function	setupexport	function
saveparallel	function	setupfontexpansion	function
savestructureblock	function	setupfontprotrusion	function
savestructurecounter	function	setupidentity	function
${ t savetaggedtwopassdata}$	function	setupitaliccorrection	function
savetwopassdata	function	setxmpfile	function
second	function	showattributes	function
selectstructureblock	function	showchardata	function
setbreakpoints	function	showfontparameters	function
setcharactercasing	function	showhyphenatedinlist	function
setcharactercleaning	function	showstructurecounter	function
setcharacterkerning	function	splitfilename	function
<b>5</b>		•	

spotcolorname	function	useMPlibrary	function
spotcolorparent	function	useanyfile	function
spotcolorvalue	function	usecldfile	function
startcolorset	function	usecolors	function
	function		function
startcomponent startenvironment	function	usecomponent useenvironment	function
	function	usefile	function
startproduct	function		function
startproject	function	usejavascriptpreamble	function
startregime	function	usejavascriptscripts	function
starttag	function	uselibrary useluafile	
starttext			function
startviewerlayer	function	usemodules	function
stopcolorset	function	usepath	function
stopcomponent	function	useproduct	function
stopenvironment	function	useproject	function
stopproduct	function	usesubpath	function
stopproject	function	usesymbols	function
stopregime	function	usetexfile	function
stoptag	function	useurl	function
stoptext	function	usexmlfile	function
stopviewerlayer	function	usezipfile	function
storejavascriptcode	function	utfchar	function
storejavascriptpreamble	function	utfmathclass	function
structureautocatcodedget	function	utfmathcommand	function
structurecatcodedget	function	utfmathfiller	function
structurecountersubs	function	${\tt utfmathstretch}$	function
structurecountervalue	function	vspacing	function
${ t structure given cat coded get}$	function	${ t vspacingcollapse}$	function
structurenumber	function	${\tt vspacingdefine}$	function
structuretitle	function	${\tt vspacingsetamount}$	function
structureuservariable	function	vspacingsnap	function
structurevariable	function	weekday	function
subff	function	weekdayname	function
subfs	function	widthofstring	function
synchronizemarking	function	writestatus	function
${ t tagged mathfunction}$	function	${ t x\_table\_cleanup}$	function
testcase	function	${ t x\_table\_construct}$	function
textime	function	${ t x\_table\_create}$	function
${\tt transparencycomponents}$	function	${ t x\_table\_flush}$	function
triggereffect	function	${ t x\_table\_init\_construct}$	function
triggernegative	function	${ t x\_table\_init\_reflow\_height}$	function
truefilename	function	${ t x\_table\_init\_reflow\_width}$	function
typebuffer	function	x_table_next_row	function
typefile	function	${ t x\_table\_reflow\_height}$	function
typestring	function	${ t x\_table\_reflow\_width}$	function
uchexnumber	function	${ t x\_table\_set\_construct}$	function
uchexnumbers	function	${ t x\_table\_set\_reflow\_height}$	function
unicodechar	function	${ t x\_table\_set\_reflow\_width}$	function
unit	function	year	function
updatefilenames	function		

#### containers (context)

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

#### converters (context)

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

#### coroutine (basic lua)

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

# debug (basic lua)

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

### dir (context)

collectpattern	function	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)

argumentsdata tablefilestablegetargumentfunctiongetfilenamefunction

setargumentfunctionsetdefaultargumentfunctionsetfilenamefunction

#### environment (context)

argument	function
arguments	data table
engineflags	data table
files	table
filesynonyms	data table
homedir	string
initex	boolean
initialize arguments	function
inputfilebarename	string
inputfilename	string
inputfilesuffix	string
jobfilename	string
jobfilesuffix	string
loadedluacode	function
loadluafile	function
luafile	function

luafilechunk	function
originalarguments	data table
outputfilename	string
ownbin	string
ownname	string
ownpath	string
rawarguments	data table
${\tt reconstructcommandline}$	function
setargument	function
splitarguments	function
texfile	function
texmfos	string
texos	string
texroot	string
truefilename	function

# epdf (extra tex)

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

# experiments (context)

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

# figures (context)

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

#### file (basic lua)

function	joinpath	function
function	loadchecksum	function
function	nameonly	function
function	nametotable	function
function	needs_updating	function
function	readdata	function
function	removesuffix	function
function	replacesuffix	function
function	robustname	function
function	savechecksum	function
function	savedata	function
function	splitname	function
function	splitpath	function
function	strip	function
function	suffix	function
	function	function loadchecksum function nameonly function nametotable function needs_updating function readdata function removesuffix function replacesuffix function savechecksum function savedata function splitname function splitpath function strip

#### 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	function
define	function	max	function
each	function	nextid	function
fonts	table	${\tt read\_tfm}$	function
frozen	function	${\tt read\_vf}$	function
getfont	function	setfont	function

### fontloader (extra tex)

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

# fonts (context)

analyzers	table	7	Γ	boundingbox
D initializers		5	S	depth
D methods		5	S	height
F setstate		S	S	width
B useunicodema	rks	Тj	рa	rameters
checkers	table	S	S	ascender
F missing		S	S	descender
cid	table	S	S	designsize
F getmap		7	Γ	expansion
F loadfile				S auto
collections	table		1	S shrink
F clonevector				S step
F define				S stretch
T definitions		S	S	extendfactor
F prepare		S	S	factor
F process		5	S	hfactor
F registermain		5	S :	mathsize
F report		7	Γ	protrusion
F reset				S auto
T vectors		S	S	quad
constructors	table	5	S	scaledpoints
F aftercopying	characters			scriptpercentage
F applymanipul		5	S	scriptscriptpercentage
F assignmathpa				size
B autocleanup		S	S	slantfactor
F beforecopyin	gcharacters	5	S	slantperpoint
D cache				spacing
F calculatesca	le			S extra
F checkedfeatu	res			S shrink
F checkedfilen	ame			S stretch
F cleanuptable				S width
F collectproce	ssors	-	Г	synonyms
D designsizes				S em
D dontembed				S ex
F enhanceparam	eters			S extra_space
N factor				S extraspace
F finalize				S slant
F getfeatureac	tion			S space
F hashfeatures				S space_shrink
F hashinstance				S space_stretch
T hashmethods				S spaceshrink
F normal				S spacestretch
F virtual				S x_height
F initializefe	atures	5		units
T keys				vfactor
T character				xheight
S depth				operties
S height			_	autoitalicamount
S italic				cidinfo
S width				embedding
T description	n			encodingbytes

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

F verbose	F getprivatenode
F collectlookups	F hasprivate
F dataset	F nametoslot
S defaultbasealternate	F setdigitwidth
S defaultnodealternate	<pre>iterators table</pre>
D enhancers	F characters
D features	F descriptions
F getalternate	F glyphs
T glists	<pre>loggers table</pre>
F load	T category_to_placeholder
F scriptandlanguage	S 11
F setcontextchain	S lm
F setdynamics	S lo
F setfeatures	S lt
T tables	S lu
D baselines	S mc
D features	S me
D languages	S mn
D scripts	S nd
N version	S nl
T pfb	S no
T tfm	S pc
D features	S pd
F setfeatures	S pe
T vf	S pf
T combinations	S pi
F combine	S po
T combiner	S ps
D commands	S sc
F find	S sk
D helpers	S sm
D math	S so
D predefined	F format
D whatever	F onetimemessage
hashes table	F register
D characters	F reportdefinedfonts
D csnames	F reportusedfeatures
D descriptions	mappings table Faddtounicode
T dynamics D identifiers	F fromunicode  F fromunicode16
D identifiers D italics	F loadfile
D marks	F loadline
	r loadline F loadlumtable
D parameters	
T processes D properties	F makenameparser F reset
D quads	F tounicode16
D resources	
T setdynamics	F tounicode16sequence names table
D xheights	S basename
helpers table	B be_clever
F addprivate	D cache
F dimenfactor	F cleanfilename
F getdigitwidth	F cleanname
F getparameters	F collect
. gooparamoods	I COTTECT

F	collectfiles	D	specification	ns
F	collectspec	F	splitspec	
T	data	N	version	
В	enabled	F	writedata	
F	exists	proti	rusions	data table
T	filters	reade	ers	table
	F afm	F	afm	
	F dfont	F	check_lua	
	T list	F	check_tfm	
	T names	F	dfont	
	F otf	F	lua	
	T paths	F	opentype	
	F pfb	F	otf	
	F ttc	F	pfb	
	F ttf	D	sequence	
S	fontconfigfile	F	tfm	
F	getfilename	F	ttc	
F	getlookupkey	F	ttf	
F	getlookups	speci	ifiers	table
F	getpaths	D	contextmerge	d
F	identify	F	contextnumber	r
F	is_permitted	D	contextnumber	rs
F	list	D	contextsetup	S
F	load	F	contexttostr	ing
В	loaded	F	mergecontext	
F	lookup	F	presetcontex	t
F	noflookups	F	registercont	ext
S	osfontdirvariable	F	showcontext	
F	readdata	F	splitcontext	
F	register	D	synonyms	
F	registered	D	variants	
F	resolve	symbo	ols	table
F	resolvedspecification	F	uselibrary	
F	resolvespec	table	es	table
В	saved	trace	ers	table

F specification

# graphics (context)

# backgrounds table F calculatemultipar

 ${\tt F} \ {\tt fetchmultipar}$ 

F pair

F path

F point

# gzip (extra lua)

close function
lines function
open function

# img (basic tex)

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

### interactions (context)

D preambles

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

# interfaces (context)

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

# io (basic lua)

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

# job (context)

comment	function	F	enhance	
disablesave	function	F	extra	
files	table	F	get	
D collected		F	getreserv	ed
F context		F	hangafter	
B forcerun		F	hanginden	t
F run		F	height	
D tobesaved		F	hsize	
initialize	function	F	leftskip	
load	function	F	lowerleft	
loadother	function	F	lowerrigh	t
objects	table	F	markregio	nbox
D collected		F		
F doifelse		F	onsamepag	е
F get			overlappi	
F number		F	р	_
F page			page	
F save			paragraph	
F set			parindent	
D tobesaved	l		position	
pack	boolean	F	_	
passes	table	F	region	
F check			replace	
D collected	l		rightskip	
F count			set	
F define		F	setall	
F find		F	setdim	
F first		D	tobesaved	
F get		F	upperleft	
F getcolled	ted		upperrigh	t
F getdata			width	
F getfield		F		
F gettobesa	ved	F	xy	
F inlist		F	=	
F last		regis	-	function
F list		save		function
F save		struc	ture	table
F savetagge	d	D	collected	
D tobesaved		Т	component	S
positions	table		tobesaved	
F b_col			T branche	S
F b_region			S name	
F c			S type	
D collected	L	varia		table
F column		D	checksums	
F сору		D	collected	
F depth			save	
F e_col			tobesaved	
F e_region		versi		number
_				

# lang (basic tex)

clean	function	new	function
<pre>clear_hyphenation</pre>	function	patterns	function
clear_patterns	function	${\tt postexhyphenchar}$	function
exceptions	function	posthyphenchar	function
hyphenate	function	preexhyphenchar	function
hyphenation	function	prehyphenchar	function
id	function		

### languages (context)

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

F define F split

lefthyphenmin function loadable function loadwords function table logger

F report

numbers posthyphenchar prehyphenchar registered righthyphenmin function setdirty synonymversion words

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

data table function function data table function function number table

# layouts (context)

status table

F isleftpage

F leftorrightpagection

# lfs (extra lua)

attributes	function	mkdir	function
chdir	function	readlink	function
currentdir	function	rmdir	function
dir	function	setmode	function
isdir	overloaded function	shortname	function
isfile	function	${ t symlinkattributes}$	function
lock	function	touch	function
lock_dir	function	unlock	function

### libraries (context)

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

# lmx (context)

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

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

# logs (context)

application	function
categories	function
direct	function
disable	function
enable	function
extendbanner	function
flush	function
help	function
messenger	function
new	function
newline	function
poptarget	function
pushtarget	function
report	function
report_job_stat	function
reportbanner	function
reporter	function
reportline	function
reportlines	function
setformats	function

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

# lpdf (context)

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

# lpeg (basic lua)

c function endstripper	function
	c
Carg function firstofsplit	function
Cb function frontstripper	function
Cc function is_lpeg	function
Cf function keeper	function
Cg function locale	function
Cmt function match	function
Cp function oneof	function
Cs function patterns	data table
Ct function print	function
P function replacer	function
R function secondofsplit	function
S function span	function
UP function split	function
UR function splitat	function
US function splitter	function
V function stripper	function
anywhere function tsplitat	function
append function tsplitter	function
balancer function type	function
checkedsplit function utfchartabletopatt	ern function
count function version	function
<pre>counter function</pre>	

### ltn12 (extra lua)

F null

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

### lua (basic tex)

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

data table messages table namenumbers data table registercode function registeredcodes function registerfinalizer function registernamefunction setbytecode function setluaname function startupfile string version string

# luatex (context)

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

# lxml (context)

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

### math (basic lua)

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

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

### mathematics (context)

addfallbacks	function	${\tt remapalphabets}$	function
alphabets	data table	renderings	table
big	function	D mappings	
boldmap	table	D numbers	
categories	table	D sets	
D functions		renderset	function
${\tt checkaccent base height}$	function	resetitalics	function
${\tt checkprivateparameters}$	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	function

# metapost (context)

analyzeplugins	function	makempy	table
checkformat	function	N nofconverted	table
checktexts	function		
colorinitializer	function	F processgraphics metafun	table
	function		table
convert defaultformat		F interpolate	
directrun	string function	F topath method	number
			table
edefsxsy	function	mptopdf	table
escaped	function	F convertmpstopdf	
exectime	table	N nofconverted	h 7
filterclippath	function	multipass	boolean
finder	function	n timi	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
${ t flush normal path}$	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
<pre>graphic_base_pass</pre>	function	F get	
<pre>graphic_extra_pass</pre>	function	F reset	
intermediate	table	F set	
T actions		texerrors	boolean
F makempy		textextsdata	function
B needed		${ t theclippath}$	function
lastlog	string	totable	function
load	function	unload	function

### mime (extra lua)

b64	function	qр	function
decode	function	qpwrp	function
decodet	table	stuff	function
F base64		unb64	function
F quoted	-printable	unqp	function
dot	function	wrap	function
encode	function	wrapt	table
encodet	table	F bas	e64
F base64		F def	ault
F quoted	-printable	F quo	ted-printable
eol	function	F tex	t
normalize	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	variants	<b>;</b>
proce	ess	function
proce	ssors	table
T	collapse	)
F	mlist_to	_hlist
T	relocate	)
T	render	
T	resize	
T	respace	
T	unscript	;

### 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	<pre>protect_glyphs</pre>	function
family_font	function	<pre>protrusion_skippable</pre>	function
fields	function	remove	function
first_character	function	$\mathtt{set\_attribute}$	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
<pre>insert_before</pre>	function	unset_attribute	function
is_node	function	usedlist	function
kerning	function	vpack	function
last_node	function	whatsits	function
length	function	write	function

### nodes (context)

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

F pdfdirect		setunsetattributes	function
F pdfliteral		shifts	table
F pdfrestore		D data	00010
F pdfsave		F define	
F pdfsetmatrix		F enable	
F penalty		F handler	
F register		show	function
F rightmarginkern		showboxes	function
F rightskip		showcodes	function
F rule		showlist	function
F shrink		showsimplelist	function
F special		skipcodes	data table
F stretch		somepenalty	function
F temp		somespace	function
F textdir		stripping	table
F usage		T glyphs	
T userids		F set	
N margins.inline		striprange	function
N splitters.one		tasks	table
N splitters.two		F actions	
F userlist		F appendaction	
F usernumber		F disableaction	
F userstring		F disablegroup	
F usertokens		F enableaction	
F zeroglue		F enablegroup	
print	function	F freeze	
processors	table	F freezegroup	
B enabled		F new	
F hpack_filter		F prependaction	
F post_linebreak_filter		F removeaction	
F pre_linebreak_filter		F restart	
F tracer		F showactions	
processwords	function	F table	
reference	function	textdir_is_equal	data table
references	table	textdir_is_is	data table
N attribute		textdir_is_opposite	data table
T done		textdir_is_parallel	data table
F handler		tonodes	function
T stack	<b>C</b>	tosequence	function
remove	function	totable	function
repackhlist	function	toutf	function
replace	function	tracers	table
report	function	T characters	
rightmarginwidth rules	function	F collect	
	table	F equal	
D data		F indices	
F define F enable		F start	
F enable F handler		F string F unicodes	
save	function	T colors	
save serialize	function	F reset	
serialize serializebox	function	F set	
setattribute	function	F fontchar	
setattributes	function	F start	
	_ 4110 0 1 0 11	1 50410	

T s	teppers
F	check
F	codes
F	features
F	glyphs
F	message
F	messages
F	nofsteps
F	register

F reset

F start
F stop
F stop
unsetattribute
unsetattributes
visualizebox
whatcodes

whatsitcodes writable\_spec

function function function data table data table function

### number (context)

	function
basepoints	function
bit	function
bits	function
clearbit	function
dimenfactors	data table
hasbit	function
maxdimen	number
nopts	function
percent	function
points	function
pts	function
setbit	function
tobasepoints	function
tobitstring	function
tocentimeters	function

tociceros	function
todidots	function
todimen	function
toevenhex	function
toinches	function
tomillimeters	function
tonewciceros	function
tonewdidots	function
tonumberf	function
tonumberg	function
topicas	function
topoints	function
toscaled	function
toscaledpoints	function
toset	function

### os (basic lua)

getenv	function	rename	function
setenv	function	resolvers	table
binsuffix	string	resultof	function
clock	function	runtime	function
date	function	selfdir	string
difftime	function	setenv	overloaded function
env	data table	setlocale	overloaded function
exec	overloaded function	sleep	function
execute	overloaded function	spawn	overloaded function
exit	function	time	function
getenv	overloaded function	times	function
${\tt gettimeofday}$	function	timezone	function
launch	function	tmpdir	function
libsuffix	string	tmpname	function
name	string	type	string
platform	string	uname	function
remove	function	uuid	function

## package (basic lua)

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

loaders table
loadlib function
path string
preload table
prependtolibpath function
seeall function

## pdf (basic tex)

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

function function function function

function function

# physics (context)

units table	S Hz
T tables	S W
T shortcuts	S b
T operators	S g
S *	S h
S.	S hz
S /	S 1
S:	S 1x
T prefixes	S m
S E	S n
S G	S s
S M	S t
S P	S v
S T	s c
S Y	S
S Z	T units
S a	T operators
S c	S OutOf
S d	S Per
S da	S Solidus
S f	S Times
S h	T packaged
S k	S Micron
S m	S mmHg
S n	T prefixes
S p	S Atto
S u	S Centi
S y	S Deca
S z	S Deci
T suffixes	S Exa
S +1	S Exbi
S +2	S Femto
S +3	S Gibi
S -1	S Giga
S -2	S Hecto
S -3	S Kibi
S 1	S Kilo
S 2	S Mebi
S 3	S Mega
S ^+1	S Micro
S ^+2	S Milli
S ^+3	S Nano
S ^-1	S Pebi
S ^-2	S Peta
S ^-3	S Pico
S ^1	S Root
S ^2	S Tebi
S ^3	S Tera
T units	S Yobi
S A	S Yocto
S B	S Yotta

C 7ahi	
S Zebi	S Fahrenheit
S Zepto	S Farad
S Zetta	S Foot
T suffixes	S Gal
S Cubic	S Gauss
S ICubic	S Gon
S ILinear	S Grad
S ISquare	S Gram
S Inverse	S Gray
S Linear	S Hectare
S Square	S Henry
T symbols	S Hertz
S %	S Hg
S ArcMinute	S Hour
S ArcSecond	S Inch
S Degree	S Joule
S Degrees	S Katal
S Percent	S Kelvin
S Permille	S Knot
S Promille	S Liter
S °	S Litre
S	S Lumen
S	S Lux
T units	S Maxwell
S AMU	S Meter
S Ampere	S Metre
S Angstrom	S Metric Ton
S Astronomical Unit	S Minute
b mbdfdhomfddf dhfd	D IIIIaoc
S Atm	S Mol
S Atm	S Mole
S Atmosphere	S Mole
S Atmosphere S Atomic Mass Unit	S Mole S Nautical Mile
S Atmosphere S Atomic Mass Unit S Bar	S Mole S Nautical Mile S Neper
S Atmosphere S Atomic Mass Unit S Bar S Barn	S Mole S Nautical Mile S Neper S Newton
S Atmosphere S Atomic Mass Unit S Bar S Barn S Baud	S Mole S Nautical Mile S Neper S Newton S Oersted
S Atmosphere S Atomic Mass Unit S Bar S Barn S Baud S Bel	S Mole S Nautical Mile S Neper S Newton S Oersted S Ohm
S Atmosphere S Atomic Mass Unit S Bar S Barn S Baud S Bel S Bequerel	S Mole S Nautical Mile S Neper S Newton S Oersted S Ohm S Pascal
S Atmosphere S Atomic Mass Unit S Bar S Barn S Baud S Bel S Bequerel S Bit	S Mole S Nautical Mile S Neper S Newton S Oersted S Ohm S Pascal S Phot
S Atmosphere S Atomic Mass Unit S Bar S Barn S Baud S Bel S Bequerel S Bit S Byte	S Mole S Nautical Mile S Neper S Newton S Oersted S Ohm S Pascal S Phot S Poise
S Atmosphere S Atomic Mass Unit S Bar S Barn S Baud S Bel S Bequerel S Bit S Byte S Cal	S Mole S Nautical Mile S Neper S Newton S Oersted S Ohm S Pascal S Phot S Poise S Radian
S Atmosphere S Atomic Mass Unit S Bar S Barn S Baud S Bel S Bequerel S Bit S Byte S Cal S Calorie	S Mole S Nautical Mile S Neper S Newton S Oersted S Ohm S Pascal S Phot S Poise S Radian S Rev
S Atmosphere S Atomic Mass Unit S Bar S Barn S Baud S Bel S Bequerel S Bit S Byte S Cal S Calorie S Candela	S Mole S Nautical Mile S Neper S Newton S Oersted S Ohm S Pascal S Phot S Poise S Radian S Rev S Revolution
S Atmosphere S Atomic Mass Unit S Bar S Barn S Baud S Bel S Bequerel S Bit S Byte S Cal S Calorie S Candela S Celsius	S Mole S Nautical Mile S Neper S Newton S Oersted S Ohm S Pascal S Phot S Poise S Radian S Rev S Revolution S Second
S Atmosphere S Atomic Mass Unit S Bar S Barn S Baud S Bel S Bequerel S Bit S Byte S Cal S Calorie S Candela S Celsius S Coulomb	S Mole S Nautical Mile S Neper S Newton S Oersted S Ohm S Pascal S Phot S Poise S Radian S Rev S Revolution S Second S Siemens
S Atmosphere S Atomic Mass Unit S Bar S Barn S Baud S Bel S Bequerel S Bit S Byte S Cal S Calorie S Candela S Celsius S Coulomb S Dalton	S Mole S Nautical Mile S Neper S Newton S Oersted S Ohm S Pascal S Phot S Poise S Radian S Rev S Revolution S Second S Siemens S Sievert
S Atmosphere S Atomic Mass Unit S Bar S Barn S Baud S Bel S Bequerel S Bit S Byte S Cal S Calorie S Candela S Celsius S Coulomb S Dalton S Day	S Mole S Nautical Mile S Neper S Newton S Oersted S Ohm S Pascal S Phot S Poise S Radian S Rev S Revolution S Second S Siemens S Sievert S Steradian
S Atmosphere S Atomic Mass Unit S Bar S Barn S Baud S Bel S Bequerel S Bit S Byte S Cal S Calorie S Candela S Celsius S Coulomb S Dalton S Day S Degree Celsius	S Mole S Nautical Mile S Neper S Newton S Oersted S Ohm S Pascal S Phot S Poise S Radian S Rev S Revolution S Second S Siemens S Sievert S Steradian S Stilb
S Atomic Mass Unit S Bar S Barn S Baud S Bel S Bequerel S Bit S Byte S Cal S Calorie S Candela S Celsius S Coulomb S Dalton S Day S Degree Celsius S Degree Fahrenheit	S Mole S Nautical Mile S Neper S Newton S Oersted S Ohm S Pascal S Phot S Poise S Radian S Rev S Revolution S Second S Siemens S Sievert S Steradian S Stilb S Stokes
S Atomic Mass Unit S Bar S Barn S Baud S Bel S Bequerel S Bit S Byte S Cal S Calorie S Candela S Celsius S Coulomb S Dalton S Day S Degree Celsius S Degrees Celsius	S Mole S Nautical Mile S Neper S Newton S Oersted S Ohm S Pascal S Phot S Poise S Radian S Rev S Revolution S Second S Siemens S Sievert S Steradian S Stilb S Stokes S Tesla
S Atomic Mass Unit S Bar S Barn S Baud S Bel S Bequerel S Bit S Byte S Cal S Calorie S Candela S Celsius S Coulomb S Dalton S Day S Degree Celsius S Degree Fahrenheit	S Mole S Nautical Mile S Neper S Newton S Oersted S Ohm S Pascal S Phot S Poise S Radian S Rev S Revolution S Second S Siemens S Sievert S Steradian S Stilb S Stokes
S Atomic Mass Unit S Bar S Barn S Baud S Bel S Bequerel S Bit S Byte S Cal S Calorie S Candela S Celsius S Coulomb S Dalton S Day S Degree Celsius S Degrees Celsius	S Mole S Nautical Mile S Neper S Newton S Oersted S Ohm S Pascal S Phot S Poise S Radian S Rev S Revolution S Second S Siemens S Sievert S Steradian S Stilb S Stokes S Tesla
S Atomic Mass Unit S Bar S Barn S Baud S Bel S Bequerel S Bit S Byte S Cal S Calorie S Candela S Celsius S Coulomb S Dalton S Day S Degree Celsius S Degrees Fahrenheit S Degrees Fahrenheit	S Mole S Nautical Mile S Neper S Newton S Oersted S Ohm S Pascal S Phot S Poise S Radian S Rev S Revolution S Second S Siemens S Sievert S Steradian S Stilb S Stokes S Tesla S Tonne
S Atmosphere S Atomic Mass Unit S Bar S Barn S Baud S Bel S Bequerel S Bit S Byte S Cal S Calorie S Candela S Celsius S Coulomb S Dalton S Day S Degree Celsius S Degrees Celsius S Degrees Fahrenheit S Dyne	S Mole S Nautical Mile S Neper S Newton S Oersted S Ohm S Pascal S Phot S Poise S Radian S Rev S Revolution S Second S Siemens S Sievert S Steradian S Stilb S Stokes S Tesla S Tonne S Volt
S Atmosphere S Atomic Mass Unit S Bar S Barn S Baud S Bel S Bequerel S Bit S Byte S Cal S Calorie S Candela S Celsius S Coulomb S Dalton S Day S Degree Celsius S Degrees Fahrenheit S Dyne S Electron Volt	S Mole S Nautical Mile S Neper S Newton S Oersted S Ohm S Pascal S Phot S Poise S Radian S Rev S Revolution S Second S Siemens S Sievert S Steradian S Stilb S Stokes S Tesla S Tonne S Volt S Watt

## profiler (extra lua)

pausefunctionstartfunctionresumefunctionstopfunction

# regimes (context)

disable	function	push	function
		<b>r</b> · · ·	
enable	function	toregime	
pop	function	translate	function
process	function		

### resolvers (context)

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

	schemes	table
	T cleaners	
	F md5	
	F none	
	F strip	
	F cleanname	
number	F install	
function	N threshold	
function	setenv	function
function	setinstance	function
data table	settrace	function
function	showpath	function
function	simplescanfiles	function
string	${\tt splitconfiguration}$	function
data table	splitexpansions	function
function	splitmethod	function
function	splitpath	function
function	suffixes	data table
function	suffixmap	data table
function	suffixofformat	function
function	texdatablob	function
function	${\tt unexpandedpath}$	function
data table	${\tt unexpandedpathlist}$	function
function	unresolve	function
function	updaterelations	function
function	updatescript	function
function	usezipfile	function
function	${\tt validatedpath}$	function
function	variable	function
data table	variableofformat	function
function	${\tt variable offormator suffix}$	function
function	wildcardpattern	function
	function function function data table function function string data table function data table function	T cleaners F md5 F none F strip F cleanname  number F install function Setenv function function setinstance data table function simplescanfiles string splitconfigurationpath data table function splitmethod function suffixes function suffixes function suffixes function suffixes function suffixes function suffixes function suffixed function variable function variable function variable function variableofformat function variableofformat

### scripts (context)

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

numbertocategorydata tablenumbertodatasetdata tablepreprocessfunctionresetfunctionsetfunction

#### set (context)

contains function
create function
tolist function

tonumber function
totable function

### socket (extra lua)

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

#### sorters (context)

comparers table

F basic

constants table

S defaultdigits

S defaultlanguage

 ${\tt S}$  defaultmethod

N digitsmaximum

N digitsoffset

N ignoredoffset

 ${\tt N}$  replacementoffset

definitions data table
firstofsplit function

firstofsplit function
setlanguage function

sort function
splitters table

F utf

strip function
tracers data table
update function

### statistics (context)

checkfmtstatus	function	r
elapsedindeed	function	r
elapsedseconds	function	s
${\tt elapsedtime}$	function	s]
enable	boolean	s
formatruntime	function	ຮ
hastiming	function	ຮ
memused	function	t]
register	function	t:
reportstorage	function	

resettiming	function
runtime	function
savefmtstatus	function
show	function
showjobstat	function
starttiming	function
stoptiming	function
threshold	number
timed	function

status (basic tex)

list function

# storage (context)

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

minnumbernofmodulesnumbernoftablesnumberregisterfunctionshareddata table

### streams (context)

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

# string (basic lua)

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

match	function
quote	function
quoted	function
rep	function
reverse	function
split	function
splitlines	function
splitup	function
strip	function
sub	function
toboolean	function
tocontext	function
todimen	function
topattern	function
toutf	function
unquote	function
${\tt unquoted}$	function
upper	function
${\tt utfcharacters}$	function
${\tt utfsplitlines}$	function
utfvalues	function

### structures (context)

atlocation	function	F value	
blocks	table	currentsectionnumber	function
D collected		descriptions	table
F define		documents	table
F print		T data	04.5_0
F save		S block	
F select		T blocks	
F setstate		T checkers	
D states		N depth	
D tobesaved		T forced	
bookmarks	table	T numbers	
F finalize	Cabic	T ownnumbers	
F flatten		T status	
S method		F initialize	
F overload		F preset	
F place		F reset	+-61-
F register		floats	table
F setup	4-1-1	formulas	table
counters	table	F current	
F add		F simplify	
F analyze		F store	
F check		helpers	table
D collected		F analyze	
F compact		F formulanumber	
F converted		F merged	
F current		F page	
D data		F prefix	
F define		F prefixlastpage	
F first		F prefixpage	
F get		F simplify	
F last		F title	
F next		F touserdata	
F prev		itemgroups	table
F previous		F maxwidth	
F raw		F nofitems	
F record		F register	
F reset		lists	table
F restart		F addto	
F restore		F analyze	
F save		D cached	
F set		D collected	
F setlevel		F discard	
F setoffset		F enhance	
F setown		T enhancers	
F setstate		F filter	
F setvalue		F filtercollected	
F show		F formulanumber	
T specials		F hasnumberdata	
F userpage		F haspagedata	
F subs		F hastitledata	
D tobesaved		D internals	

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

F inject	D tobesaved
F injectcurrentset	T urls
D internals	T data
F load	F define
F loadpresets	F get
F mark	F whatfrom
D pages	registers table
U prefixsplitter	F analyze
T productdata	F analyzed
T componentreferences	D collected
T components	F compare
T productreferences	F define
T programs	F enhance
T data	F extend
F define	F filter
F get	F filtercollected
F realpageofpage	F finalize
U referencesplitter	F flush
D referred	F prepare
F referredpage	F process
F registerfinalizer	F sort
F registerinitializer	F store
F registerpage	D tobesaved
F reportproblems	F unique
F reset	F userdata
T resolvers	sections table
F reference	F autodepth
F section	F cct
D runners	T collected
F set	F current
F setandgetattribute	F currentblock
F setcomponent	F currentid
F setinnermethod	F currentlevel
F setinternalreference	F defineautolevels
F setnextinternal	F depthnumber
F setnextorder	F finddata
D specials	F findnumber
F splitcomponent	F fullnumber
F splitprefix	F getcurrentlevel
F splitreference	F getlevel
T testrunners	F getnumber
Finner	F internalreference
F special	D levelmap
F special operation	D levels
F special operation with arguments	F load
T testspecials	F matchingtilldepth
F deltapage	F numberatdepth
F i	F numbers
F internal	F popblock
	F prefixedconverted
F page F realpage	F pushblock
r rearpage F section	i habiiniocy
1 9EC010H	
Fusernage	F register
F userpage D tobereferred	

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

F meaning

F prepare

### table (basic lua)

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

### tex (basic tex)

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

# texconfig (basic tex)

error_line	number	${\tt max\_print\_line}$	number
expand_depth	number	max_strings	number
formatname	string	nest_size	number
half_error_line	number	param_size	number
hash_extra	number	save_size	number
init	function	shell_escape	string
kpse_init	boolean	stack_size	number
max_in_open	number		

#### texio (basic tex)

write function
write\_nl function

### token (basic tex)

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

#### tokens (context)

bgroup table

collectors table

T data

F defaultwords

F dowithwords

F flush

F handle

F install

F register

T registered

T remapper

F convert

T data

F store

F show

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

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

#### tracers (context)

count	function
cs	function
dimen	function
knownlist	function
lists	table

T context
T internals
T scratch

namefunctionprimitivefunctionprinterrorfunctionshowlinesfunctionstringstable

S undefined

toks function
type function

### trackers (context)

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

# typesetters (context)

alignments	table	F localhand	ler
F handler		F save	
F set		paragraphs	table
reakpoints	table	N attribute	
N attribut	e	T droppers	
F define		F freeze	
F handler		F set	
D mapping		F handler	
T methods		F set	
T numbers		processors	table
F set		F apply	
F setrepla	cement	F register	
cases	table	F reset	
T actions		F split	
F handler		F startappl	у
F set		F stopapply	
characters	table	F stripped	
F handler		F tostring	
cleaners	table	<del>-</del>	table
F handler		N attribute	
F set		F define	
ligits	table	F handler	
T actions		D mapping	
N attribut	e	T numbers	
F handler		T frenchp	unctuation
F set		T charac	
	table	S name	
F handler		N number	r
F process		F reset	
F set		F set	
npack	function	F setup	
talics	table	<del>-</del>	function
F forcevar			function
F handler		•	table
F reset		F cleanup	
F set		F construct	
erns	table	F create	
D factors		F flush	
F handler		F initializ	e_construct
B keepliga	ture		_ e_reflow_height
B keeptoge			e_reflow_width
D mapping		F next_row	
F set		F reflow_he	ight
nargins	table	F reflow_wi	_
F finalhan		F set_const	
F globalha	ndler	F set_reflo	
F ha		F set_reflo	_
		<b>-</b> '	_

## unicode (extra lua)

ascii	table	F gmatch	
F byte		F gsub	
F char		F len	
F dump		F lower	
F find		F match	
F format		F rep	
F gfind		F reverse	
F gmatch		F sub	
F gsub		F upper	
F len		ustring	function
F lower		utf16_to_utf8	function
F match		utf16_to_utf8_be	function
F rep		utf16_to_utf8_le	function
F reverse		utf32_to_utf8	function
F sub		utf32_to_utf8_be	function
F upper		utf32_to_utf8_le	function
filetype	function	utf8	table
grapheme	table	F byte	
F byte	54515	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	54515	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
r grind		VP OT THE	1 4110 0 1 0 11

### url (context)

addscheme	function
construct	function
filename	function
hashed	function

hasscheme function query function split function

# utilities (context)

		_	_	
debugger	table		appendgroup	
F disable			compile	
F enable			disableaction	
F savestats			disablegroup	
F showstats		F	enableaction	
formatters	table		enablegroup	
F formatcolumns		D	functions	
F list		F	localize	
F stripzeros		F	new	
garbagecollector	table	F	nodeprocessor	
F check			prependaction	
N criterium			prependgroup	
B enabled		F	removeaction	
lua	table	F	setkind	
F compile		F	tostring	
packers	table	sette	ers	table
F hashed		F	disable	
F new		F	enable	
F pack		F	initialize	
F simplehashed		F	list	
F strip		F	new	
F unpack		F	register	
N version		F	reset	
parsers	table	F	show	
		-	BIIOW	
F add_settings_to	o_array	stora		table
F add_settings_to F arguments_to_ta		stora		table
	able	stora F	ıge	table
F arguments_to_ta	able	stora F F	allocate	table
F arguments_to_tage F array_to_string	able	stora F F F	age allocate checked	table
F arguments_to_tage F array_to_string F getparameters	able	stora F F F F	age allocate checked mark	table
F arguments_to_tag F array_to_string F getparameters F hash_to_string F listitem	able g	stora F F F F F	age allocate checked mark marked	table
F arguments_to_tag F array_to_string F getparameters F hash_to_string	able g	stora F F F F F	allocate checked mark marked setinitializer sparse	table table
F arguments_to_t; F array_to_string F getparameters F hash_to_string F listitem F make_settings_	able g to_hash_pattern	stora F F F F F strir	allocate checked mark marked setinitializer sparse	
F arguments_to_ta F array_to_string F getparameters F hash_to_string F listitem F make_settings_ T patterns	able g to_hash_pattern array	stora F F F F F strin	age allocate checked mark marked setinitializer sparse	
F arguments_to_ta F array_to_string F getparameters F hash_to_string F listitem F make_settings_ T patterns U settings_to_a	able g to_hash_pattern array hash_a	stora F F F F Strin F	allocate checked mark marked setinitializer sparse ags collapsecrlf	
F arguments_to_ta F array_to_string F getparameters F hash_to_string F listitem F make_settings_ T patterns U settings_to_a U settings_to_l U settings_to_l	able g to_hash_pattern array hash_a hash_b	stora F F F F strin F F	allocate checked mark marked setinitializer sparse ags collapsecrlf newrepeater nice	
F arguments_to_ta F array_to_string F getparameters F hash_to_string F listitem F make_settings_T T patterns U settings_to_a U settings_to_l U settings_to_l U settings_to_l U settings_to_l	able g to_hash_pattern array hash_a hash_b hash_c	stora F F F F Strin F F F	allocate checked mark marked setinitializer sparse ags collapsecrlf newrepeater	
F arguments_to_ta F array_to_string F getparameters F hash_to_string F listitem F make_settings_ta T patterns U settings_to_a U settings_to_l U settings_to_l F settings_to_array	able g to_hash_pattern array hash_a hash_b hash_c ray	stora F F F F Strin F F F	allocate checked mark marked setinitializer sparse ags collapsecrlf newrepeater nice striplong tabtospace	
F arguments_to_ta F array_to_string F getparameters F hash_to_string F listitem F make_settings_to_a U settings_to_a U settings_to_l U settings_to_l F settings_to_array F settings_to_has	able g to_hash_pattern array hash_a hash_b hash_c ray	stora F F F Strin F F F F F F F T F F T T F F T T T T T	allocate checked mark marked setinitializer sparse ags collapsecrlf newrepeater nice striplong tabtospace	table
F arguments_to_ta F array_to_string F getparameters F hash_to_string F listitem F make_settings_to_a U settings_to_a U settings_to_l U settings_to_l F settings_to_array F settings_to_harray F settings_to_harray	able g to_hash_pattern array hash_a hash_b hash_c ray sh	stora F F F Strin F F F F F F F F F F F F F F F F F F F	allocate checked mark marked setinitializer sparse ags collapsecrlf newrepeater nice striplong tabtospace	table
F arguments_to_ta F array_to_string F getparameters F hash_to_string F listitem F make_settings_to_a U settings_to_a U settings_to_l U settings_to_l F settings_to_array F settings_to_harray F settings_to_harray F settings_to_harray F settings_to_harray F settings_to_harray	able g  to_hash_pattern  array hash_a hash_b hash_c ray sh sh_strict sh_tolerant	stora F F F Strin F F F F F F F F F F F F F F F F F F F	allocate checked mark marked setinitializer sparse ags collapsecrlf newrepeater nice striplong tabtospace as accesstable definetable	table
F arguments_to_ta F array_to_string F getparameters F hash_to_string F listitem F make_settings_to_a U settings_to_a U settings_to_l U settings_to_l F settings_to_lar F settings_to_har F settings_to_ser	able g  to_hash_pattern  array hash_a hash_b hash_c ray sh sh_strict sh_tolerant t	stora F F F Strin F F F F F F F F F F F F F F F F F F F	allocate checked mark marked setinitializer sparse ags collapsecrlf newrepeater nice striplong tabtospace es accesstable definetable encapsulate	table table
F arguments_to_ta F array_to_string F getparameters F hash_to_string F listitem F make_settings_ T patterns U settings_to_a U settings_to_l U settings_to_l F settings_to_arrang F settings_to_harrang F settings_to_harrang F settings_to_harrang F settings_to_harrang F settings_to_harrang F settings_to_harrang F settings_to_ser F simple_hash_to	able g  to_hash_pattern  array hash_a hash_b hash_c ray sh sh_strict sh_tolerant t	stora F F F F Strin F F F F F F F F F F F F F F F F F F F	allocate checked mark marked setinitializer sparse ags collapsecrlf newrepeater nice striplong tabtospace as accesstable definetable	table table
F arguments_to_ta F array_to_string F getparameters F hash_to_string F listitem F make_settings_to_a U settings_to_a U settings_to_l U settings_to_l U settings_to_l F settings_to_has F settings_to_has F settings_to_has F settings_to_has F settings_to_se F simple_hash_to  report	able g  to_hash_pattern  array hash_a hash_b hash_c ray sh sh_strict sh_tolerant t _string	stora F F F F Strin F F F F F F F F F F F F F F F F F F F	allocate checked mark marked setinitializer sparse ags collapsecrlf newrepeater nice striplong tabtospace accesstable definetable encapsulate insertaftervalue insertbeforevalue	table table
F arguments_to_ta F array_to_string F getparameters F hash_to_string F listitem F make_settings_ T patterns U settings_to_a U settings_to_l U settings_to_l F settings_to_arrang F settings_to_harrang F settings_to_harrang F settings_to_harrang F settings_to_harrang F settings_to_harrang F settings_to_harrang F settings_to_ser F simple_hash_to	able g  to_hash_pattern  array hash_a hash_b hash_c ray sh sh_strict sh_tolerant t _string function	stora F F F F strin F F F F F F F F F F F F F F F F F F F	allocate checked mark marked setinitializer sparse ags collapsecrlf newrepeater nice striplong tabtospace es accesstable definetable encapsulate insertaftervalue	table table

### 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
registerescapecommand	function	writeemptyline	function
registerescapeline	function	writenewline	function
registerescapepattern	function	writespace	function

## xml (context)

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

F upper		lshow	function
T xml		makestandalone	function
F all		match	function
F att		name	function
F attribute		newhandlers	function
F attributes		${ t nodeset to string}$	function
F cdata		${ t original load}$	function
F chainattribute		package	function
F count		parent	function
F default		${ t parsedentitylpeg}$	userdata
F elements		pihandlers	table
F empty		placeholders	table
F first		F unknown_any_entity	
F function		F unknown_dec_entity	
F index		F unknown_hex_entity	
F last		position	function
F match		privatecodes	table
F name		${ t private token}$	function
F position		process	function
F reverse		process_attributes	<b>function</b>
F table		process_elements	<b>function</b>
F tag		processattributes	function
F tags		profiled	table
F text		raw	function
F texts		registerentity	function
first	function	registerns	function
found	function	remap_name	<b>function</b>
functions	table	remap_namespace	<b>function</b>
getbuffer	function	remap_tag	<b>function</b>
gethandlers	function	remapname	function
gethandlersfunction	function	remapnamespace	function
include	function	remaptag	function
index	function	renamespace	function
inheritedconvert	function	replace	function
inject	function	replace_element	function
inject_element	<u>function</u>	resolvens	function
inject_element_after	function	root	function
inject_element_before	<u>function</u>	save	function
injectafter	function	selection	function
injectbefore	function	serialize	function
insert	function	setcdata	function
insert_element	function	${\tt sethandlersfunction}$	function
insert_element_after	function	setproperty	function
<pre>insert_element_before</pre>	<u>function</u>	settings	function
insertafter	function	specialhandler	table
insertbefore	function	sprint	function
insertcomment	function	string	function
inspect	function	strip	function
is_valid	function	strip_whitespace	<b>function</b>
last	function	stripelement	function
load	function	stripleadingspaces	function
lpath	function	table	function
lpathcached	function	text	function
7	C		c

function

textonly

function

lpathcalls

tocdata	function	unescaped	function
toelement	function	${\tt unprivatized}$	function
tostring	function	withelement	function
toxml	function	withelements	function
tprint	function	wrap	function
traverse	function	xmlns	table

# zip (extra lua)

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

### zlib (extra lua)

adler32 function
compress
function
compressobj function
crc32 function

decompress function
decompressobj function
version function