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

# ConTeXt MkIV

## global (alias: \_G)

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

require	function
resolvers	table
scripts	table
select	function
set	table
setfenv	function
setmetatable	function
short_operators	table
short_prefixes	table
short_units	table
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 spotcolorpar	
N attribute	F spotcolorval	ue
D data	B supported	
F enable	F transparency	components
F handler	B triggering	
F register	F usecolors	
D registered	F value	
colors table	D values	
N attribute	B weightgray	£ + :
F cmyk	define effects	function
F cmyktogray		table
F cmyktorgb	N attribute	
F colorcomponents	D data	
B couple	F enable	
D data	F handler	
N default	F register	
F defineintermediatecolor	D registered	
F definemixcolor	D values handlers	table
F definemultitonecolor		data table
F defineprocesscolor	list	data table
F definesimplegray	names	
F definespotcolor	negatives	table
F definetransparency	N attribute	
F enable	D data	
F filter	F enable	
F forcedmodel	F handler	
F forcesupport F formatcolor	F register	
	D registered numbers	data table
F formatgray	ofnode	function
F gray F graytohsv	private	function
F handler	states	table
F hsvtogray	F disabletrigg	
F hsvtorgb	F enabletrigge	
F iccprofile	F finalize	,1 111 <sub>B</sub>
F isblack	F initialize	
N main	F process	
S model	F selective	
F mpcolor	F stacked	
U none	transparencies	table
F register	N attribute	
D registered	D data	
F registerspotcolor	F enable	
F rgb	F forcesupport	;
F rgbtocmyk	F handler	
F rgbtogray	U none	
F rgbtohsv	F register	
N selector	D registered	
F setmodel	B supported	
F spot	B triggering	
F spotcolorname	F value	
1	<del>.</del>	

D values

number

 ${\tt unsetvalue}$ viewerlayers table

N attribute

D data

F define

F enable

F forcesupport

F handler

B hasorder

D listwise

F register

D registered

D scopes

F setfeatures

F start

F stop

B supported

D values

#### backends (context)

codeinjections table F setxmpfile current string F startlayer defaults table F stoplayer T codeinjections F supportedformats T nodeinjections F useviewerlayer F validfield T registrations D tables F validfieldcategory install function F validfieldset nodeinjections table S comment nothing function T nodeinjections pdf table F addtags T codeinjections F attachfile F addbookmarks F cmykcolor F addtransparencygroup F comment F attachmentid F destination F clonefield F effect F definefield F graycolor F definefieldset F injectbitmap F defineviewerlayer F insertmovie F embedfile F insertsound F enabletags 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 mergeviewerlayers F switchlayer F prerollreference F transparency F presetsymbol F typesetfield F presetsymbollist T registrations F processrendering F cmykindexcolor F cmykspotcolor F registerdocumentcloseaction 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 F setformsmethod T blue F setpagetransition T green T red F setupcanvas F setupidentity F startslant

T stopslant registrations table

tables table

### bibtex (context)

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

### blobs (context)

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

#### boolean (context)

tocontext function
tonumber function

### buffers (context)

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

function

### builders (context)

kernel table	F enable
F hyphenation	F optimize
F kerning	F setup
F ligaturing	F split
F mlist_to_hlist	F tag
paragraphs table	<b>vspacing</b> table
T constructors	F analyze
N attribute	D categories
F disable	F collapsevbox
F enable	T data
F handler	D map
T methods	D skip
F default	D snapmethods
F oneline	F definesnapmethod
D names	B fixed
D numbers	F pagehandler
F register	F setmap
F set	F setskip
T solutions	F snapbox
T splitters	F tocategories
F define	F tocategory
F disable	F vboxhandler

### caches (context)

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

#### callback (basic tex)

find function
list function

register overloaded function

### callbacks (context)

freeze	function	push	function
known	function	register	function
list	data table	report	function
pop	function	table	function

#### catcodes (context)

names data table
numbers data table
register function

#### characters (context)

+ <b></b> +			1-4- 4-11-
activeoffset	number	is_mark	data table
adobename	function	is_spacing	data table
bidi	data table	lcchars	data table
blocks	data table	lccode	function
casemap	table	lccodes	data table
categories	data table	lettered	function
category	function	lower	function
categorytags	data table	makeactive	function
contextname	function	math	table
data	data table	${ t mathpairs}$	data table
decomposed	data table	ranges	data table
define	function	registerentities	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	subscripts	table
fromnumber	function	superscripts	table
fschars	data table	synonyms	data table
fscodes	data table	tex	table
getrange	function	D accentmapping	
graphemes	data table	F defineaccents	
hangul	table	F toutf	
F decomposed		tonumber	function
F description		ucchars	data table
F leadconsonant		uccode	function
T remapped		uccodes	data table
is_character	data table	unicodechar	function
is_command	data table	upper	function
is_letter	data table	••	
_			

### chemicals (context)

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

### commands (context)

A7. 1 -1 -1 - 1	c	6.7.1.7	6
Alphabetic	function	copyfiletolog	function
Character	function	copyposition	function
Characters	function	currentcomponent	function
MPd	function	currentdate	function
MPh	function	currentenvironment	function
MP11	function	currentproduct	function
MPlr	function	currentproject	function
MPp	function	currentregime	function
MPplus	function	dayname	function
MPpos	function	defineattribute	function
MPrest	function	definebibtexsession	function
MPul	function	defineconversion	function
MPur	function	definefield	function
MPw	function	definefieldset	function
MPx	function	definefilefallback	function
MPxy	function	definefilesynonym	function
MPy	function	definefont_one	function
Romannumerals	function	definefont_two	function
${ t abjadnodotnumerals}$	function	definefontcollection	function
abjadnumerals	function	defineintermediatecolor	function
addff	function	definelinkedlist	function
addfs	function	definemarking	function
addlinklistelement	function	definemultitonecolor	function
addstructurecounter	function	defineparallel	function
allinputpaths	function	defineprocesscolor	function
alphabetic	function	definespotcolor	function
${\tt analysefloatmethod}$	function	definestructureblock	function
applytochars	function	definestructurecounter	function
applytowords	function	definestructureset	function
assignbuffer	function	definetransparency	function
autonextspace	function	defineviewerlayer	function
autosetups	function	${\tt defrostrandomseed}$	function
autostarttext	function	digits	function
autostoptext	function	disableregime	function
boolcase	function	${\tt doanalyzeframedbox}$	function
character	function	doif	function
characters	function	doifblackelse	function
checkcharactersinfont	function	doifcommonelse	function
checkedconversion	function	doifdimenstringelse	function
${\tt checkedpagefloat}$	function	${\tt doifdrawingblackelse}$	function
chineseallnumerals	function	doifelse	function
chinesecapnumerals	function	doifelsebuffer	function
chinesenumerals	function	doifelsecurrentfonthasfeature	function
cleanfontname	function	doifelsemarking	function
clonefield	function	doifelseparallel	function
clonefontcollection_one	function	${\tt doifelsesavedfloat}$	function
${\tt clonefontcollection\_two}$	function	doifelsespaces	function
collectfloat	function	doifelsestructurecounter	function
collecthelp	function	doifelsevisualizer	function
colorcomponents	function	${\tt doiffieldcategoryelse}$	function
consultfloat	function	doiffieldelse	function

doiffieldsetelse	function	getfloatvariable	function
doiffiledefinedelse	function	getmarking	function
doiffileexistelse	function	getprivateattribute	function
doifinputfileelse	function	getrandomcounta	function
doifinsetelse	function	getrandomcountb	function
doifleapyearelse	function	getrandomseed	function
doiflocfileelse	function	getreadfilename	function
doifnot	function	grabbuffer	function
doifnotstructurecounter	function	helpaction	function
doifolderversionelse	function	helpreference	function
doifoverlappingelse	function	hexstringtonumber	function
doifparentfileelse	function	hour	function
doifpositionelse	function	hyphenatedlist	function
doifpositionsonsamepageelse	function	hyphenatedurl	function
doifpositionsonthispageelse	function	D characters	rancoron
doifstructurecounter	function	N lefthyphenmin	
doifurldefinedelse	function	D mapping	
doprocesstypescriptfile	function	N righthyphenmin	
doreshapeframedbox	function	F setcharacters	
dostarttextfile	function	incrementedstructurecounter	function
dostoptextfile	function	insertattachment	function
elapsedtime	function	insertcomment	function
enablecolor	function	insertfield	function
enablecolorintents	function	insertrenderingwindow	function
enablecolorintents enablefontcolorschemes	function	insertsoundclip	function
enableregime	function	isleapyear	function
enableregime enabletransparency	function	languagenumber	function
enable transparency enhancelinkedlist	function	laststructurecounter	function
erasebuffer	function	lchexnumber	function
featureattribute	function	lchexnumbers	function
feedback	function	leapyear	function
fetchallmarks	function	loadctxpreplist	function
fetchonemark	function	loadexamodes	function
fetchtwomarks	function	loadfontgoodies	function
firstinlist	function	loadvisualizer	function
firststructurecounter	function	locatefilepath	function
flushfloat	function	locfilename	function
fontchar	function	minute	function
fontcollectionmessage	function	molecule	function
fontlookupgetkey	function	month	function
fontlookupgetkeyofindex	function	monthmnem	function
fontlookupinitialize	function	monthname	function
fontlookupnoffound	function	mpcolor	function
forceendjob	function	nbfs	function
forcequitjob	function	nextparallel	function
format	function	nextstructurecounter	function
formatcolor	function	nofdays	function
formatgray	function	nofstackedfloats	function
freezerandomseed	function	number	function
getbuffer	function	octnumber	function
getbufferctxlua	function	octstringtonumber	function
getbuffermkvi	function	ordinal	function
getdefaultfieldvalue	function	overloadbookmark	function
getfieldcategory	function	percentageof	function
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placeparallel	function	setclosepageaction	function
popfloat	function	setcolormodel	function
prepareMPvariable	function	setfontfeature	function
preparebibtexsession	function	setformat	function
preparedfile	function	setformsmethod	function
preparefontcollection	function	setmarking	function
presetsymbollist	function	setopendocumentaction	function
presettabulate	function	setopenpageaction	function
prevstructurecounter	function	setownstructurecounter	function
processbuffer	function	setpagetransition	function
processedfile	function	setrandomseed	function
processedfiles	function	setrastercolor	function
processfile	function	setrealign	function
processfilemany	function	setreferencearguments	function
processfilenone	function	setreferenceoperation	function
processfileonce	function	setstructureblockstate	function
pushfloat	function	setstructurecounter	function
rawcharacter	function	settagcombination	function
registerattachment	function	settagdescription	function
registerbibtexentry	function	settagdescriptionsymbol	function
registerbibtexfile	function	settagfigure	function
registerbookmark	function	settaghighlight	function
registerbuttons	function	settagitemgroup	function
registercolor	function	settagproperty	function
registercolorintent	function	settagsorting	function
registerhelp	function	settagsynonym	function
registermaintextcolor	function	settagtablecell	function
registersoundclip	function	settagtabulatecell	function
registerstructureprocessor	function	setupbookmarks	function
registertransparency	function	setupcanvas	function
relatemarking	function	setupexport	function
removemissingcharacters	function	setupfontexpansion	function
replacepospxywhd	function	setupfonterpansion setupfontprotrusion	function
resavefloat	function	setupidentity	function
resetfontcollection	function	setxmpfile	function
resetfontfeature	function	showchardata	function
resetmarking	function	showfontparameters	function
resetmalking	function	showhyphenatedinlist	function
resetparallel	function	showstructurecounter	function
resetstructurecounter	function	splitfilename	function
resetstructureprocessor	function	spotcolorname	function
resettimer	function	spotcolorparent	function
restartstructurecounter	function	spotcolorvalue	function
restorestructurecounter	function	startcomponent	function
romannumerals	function	startenvironment	function
runbuffer	function	startproduct	function
savebuffer	function	startproject	function
savefloat	function	startregime	function
savenallel	function	starttag	function
savepararier savestructureblock	function	starttext	function
savestructurecounter	function	stopcomponent	function
second	function	stopenwironment	function
selectstructureblock	function	stopproduct	function
setclosedocumentaction	function	stopproduct	function
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stopregime	function	${\tt unicodechar}$	function
stoptag	function	unit	function
stoptext	function	updatefilenames	function
${ t structure autocat coded get}$	function	${\tt useMPlibrary}$	function
structurecatcodedget	function	${\tt useanyfile}$	function
structurecountersubs	function	usecldfile	function
structurecountervalue	function	usecolors	function
${ t structure given cat coded get}$	function	usecomponent	function
structurenumber	function	useenvironment	function
structuretitle	function	uselibrary	function
structureuservariable	function	useluafile	function
structurevariable	function	usemodules	function
subff	function	${\tt usepath}$	function
subfs	function	useproduct	function
synchronizemarking	function	useproject	function
${ t tagged mathfunction}$	function	usesubpath	function
testcase	function	usesymbols	function
textime	function	usetexfile	function
transparencycomponents	function	usexmlfile	function
triggereffect	function	usezipfile	function
triggernegative	function	utfchar	function
truefilename	function	weekday	function
typebuffer	function	weekdayname	function
typefile	function	widthofstring	function
typestring	function	writestatus	function
uchexnumber	function	year	function
uchexnumbers	function		

#### containers (context)

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

#### converters (context)

Alphabetic	function	leapyear	function
Character	function	maxchrs	function
Characters	function	minute	function
Romannumerals	function	month	function
${\tt abjadnodotnumerals}$	function	nofdays	function
abjadnumerals	function	number	function
alphabetic	function	octnumber	function
character	function	octstringtonumber	function
characters	function	ordinal	function
${\tt chineseall numerals}$	function	rawcharacter	function
chinesecapnumerals	function	romannumerals	function
chinesenumerals	function	second	function
chr	function	sequences	data table
chrs	function	textime	function
convert	function	toabjad	function
define	function	tochinese	function
${\tt hexstringtonumber}$	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)

function	getupvalue	function
function	setfenv	function
function	sethook	function
function	setlocal	function
function	setmetatable	function
function	setupvalue	function
function	traceback	function
	function function function function function	functionsetfenvfunctionsethookfunctionsetlocalfunctionsetmetatablefunctionsetupvalue

### dir (context)

${\tt collectpattern}$	function	ls	function
current	function	makedirs	function
expandname	function	mkdirs	function
glob	function	pop	function
globfiles	function	push	function
${ t globpattern}$	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	luafile	function
arguments	data table	luafilechunk	function
engineflags	data table	original arguments	data table
files	table	${\tt outputfilename}$	string
filesynonyms	data table	ownbin	string
homedir	string	ownname	string
initex	boolean	ownpath	string
initializearguments	function	rawarguments	data table
inputfile barename	string	${\tt reconstructcommandline}$	function
inputfilename	string	setargument	function
inputfilesuffix	string	splitarguments	function
jobfilename	string	texfile	function
jobfilesuffix	string	texmfos	string
loadedluacode	function	texos	string
loadluafile	function	texroot	string

## 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	${\tt preferquality}$	boolean
current	function	programs	data table
${\tt defaultdepth}$	number	push	function
${\tt defaultheight}$	number	${\tt registerpattern}$	function
${\tt defaultsearch}$	boolean	registerresource	function
defaultwidth	number	registersuffix	function
done	function	resources	data table
dummy	function	scale	function
existers	data table	setlookups	function
exists	function	setpaths	function
formats	data table	suffixes	data table
found	data table	tprint	function
get	function	used	data table

#### file (basic lua)

addsuffix	function	joinpath	function
basename	function	loadchecksum	function
checksum	function	nameonly	function
collapsepath	function	nametotable	function
сору	function	${\tt needs\_updating}$	function
dirname	function	readdata	function
expandname	function	removesuffix	function
extname	function	replacesuffix	function
is_qualified_path	function	${\tt robustname}$	function
is_readable	function	savechecksum	function
$is\_rootbased\_path$	function	savedata	function
is_writable	function	${ t split name}$	function
isreadable	function	${ t splitpath}$	function
iswritable	function	strip	function
join	function	suffix	function

## floats (context)

analysemethod	function	nofstacked	function
${\tt checkedpagefloat}$	function	pop	function
collect	function	push	function
consult	function	resave	function
flush	function	save	function
getvariable	function	stacked	function

#### font (basic tex)

current	function	id	function
define	function	max	function
each	function	nextid	function
fonts	table	read_tfm	function
frozen	function	read_vf	function
getfont	function	setfont	function

### fontloader (extra tex)

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

### fonts (context)

analwana tahla	T+f+	
analyzers table	F setfactor	
D initializers	F setname	
D methods	N version	function
F setstate B useunicodemarks	current currentid	function
checkers table	definers	table
		table
F missing	F addlookup	
cid table	F analyze	
F getmap	F applypostpr	ocessors
F loadfile collections table	F current	
	S defaultlook	up
F clone_one	F define	
F clone_two	F getspecific	ation
F define	F loadfont	
T definitions	F makespecifi	.cation
F message	T methods	
F prepare	F install	
F process	D variants	
F reset	F read	
T vectors	F register	
constructors table	F registered	
F applymanipulators	F registerspl	
F assignmathparameters	F resetnullfo	ont
B autocleanup	F resolve	
D cache	T resolvers	
F calculatescale	F file	
F checkedfeatures	F name	
F checkedfilename	F spec	£
F cleanuptable	definetypeface	
F collectprocessors	encodings	table
D designsizes	T agl	
D dontembed	D cache	
N factor	F is_known	
F finalize	D known	
F getfeatureaction	F load	
F hashfeatures	F make_unicod	le_vector
F hashinstance	D math	
T hashmethods	N version	doto toblo
F normal	expansions formats	data table
F virtual		data table
F initializefeatures	goodies	table
D loadedfonts	T colorscheme	:S
T mathactions	F coloring	
S namemode F newfeatures	T data F enable	
N privateoffset F readanddefine	F getcomposit T list	SHOTS
		ong
F registerfeature	F compositi	
B resolvevirtualtoo	F expansion	
F scale	F featurese	L C
F scaled	F files	

F mathematics	D math
F protrusions	D predefined
F solutions	D whatever
F typefaces	hashes table
F load	D characters
F prepare_features	D csnames
F register	T dynamics
F report	D identifiers
handlers table	D parameters
T afm	T processes
B addkerns	D quads
B addligatures	T setdynamics
B addtexligatures	D xheights
B autoprefixed	helpers table
D cache	F dimenfactor
D features	F getdigitwidth
F load	F getparameters
F setfeatures	F nametoslot
	F setdigitwidth
B syncspace N version	iterators table
T otf	F characters
F addfeature	
D cache	F descriptions
T chainhandlers	F glyphs loggers table
F normal	F format
F verbose	
F collectlookups	F onetimemessage
F dataset	F register
D enhancers	F reportuged for turns
D features	F reportusedfeatures mappings table
	F addtounicode
F getalternate	F loadfile
T glists	
F load	F loadline
F scriptandlanguage	F loadlumtable
F scriptandlanguage F setcontextchain	F loadlumtable F makenameparser
F scriptandlanguage F setcontextchain F setdynamics	F loadlumtable F makenameparser F reset
F scriptandlanguage F setcontextchain F setdynamics F setfeatures	F loadlumtable F makenameparser F reset F tounicode16
F scriptandlanguage F setcontextchain F setdynamics F setfeatures T tables	F loadlumtable F makenameparser F reset F tounicode16 F tounicode16sequence
F scriptandlanguage F setcontextchain F setdynamics F setfeatures T tables D baselines	F loadlumtable F makenameparser F reset F tounicode16 F tounicode16sequence names table
F scriptandlanguage F setcontextchain F setdynamics F setfeatures T tables D baselines D features	F loadlumtable F makenameparser F reset F tounicode16 F tounicode16sequence names table S basename
F scriptandlanguage F setcontextchain F setdynamics F setfeatures T tables D baselines D features D languages	F loadlumtable F makenameparser F reset F tounicode16 F tounicode16sequence names table S basename B be_clever
F scriptandlanguage F setcontextchain F setdynamics F setfeatures T tables D baselines D features D languages D scripts	F loadlumtable F makenameparser F reset F tounicode16 F tounicode16sequence names table S basename B be_clever D cache
F scriptandlanguage F setcontextchain F setdynamics F setfeatures T tables D baselines D features D languages D scripts N version	F loadlumtable F makenameparser F reset F tounicode16 F tounicode16sequence names table S basename B be_clever D cache F cleanfilename
F scriptandlanguage F setcontextchain F setdynamics F setfeatures T tables D baselines D features D languages D scripts N version T pfb	F loadlumtable F makenameparser F reset F tounicode16 F tounicode16sequence names table S basename B be_clever D cache F cleanfilename F cleanname
F scriptandlanguage F setcontextchain F setdynamics F setfeatures T tables D baselines D features D languages D scripts N version T pfb T tfm	F loadlumtable F makenameparser F reset F tounicode16 F tounicode16sequence names table S basename B be_clever D cache F cleanfilename F cleanname F collect
F scriptandlanguage F setcontextchain F setdynamics F setfeatures T tables D baselines D features D languages D scripts N version T pfb T tfm D features	F loadlumtable F makenameparser F reset F tounicode16 F tounicode16sequence names table S basename B be_clever D cache F cleanfilename F cleanname F collect F collectfiles
F scriptandlanguage F setcontextchain F setdynamics F setfeatures T tables D baselines D features D languages D scripts N version T pfb T tfm D features F setfeatures	F loadlumtable F makenameparser F reset F tounicode16 F tounicode16sequence names table S basename B be_clever D cache F cleanfilename F cleanname F collect F collectfiles F collectspec
F scriptandlanguage F setcontextchain F setdynamics F setfeatures T tables D baselines D features D languages D scripts N version T pfb T tfm D features F setfeatures T vf	F loadlumtable F makenameparser F reset F tounicode16 F tounicode16sequence names table S basename B be_clever D cache F cleanfilename F cleanname F collect F collectfiles F collectspec T data
F scriptandlanguage F setcontextchain F setdynamics F setfeatures T tables D baselines D features D languages D scripts N version T pfb T tfm D features F setfeatures T vf T combinations	F loadlumtable F makenameparser F reset F tounicode16 F tounicode16sequence names table S basename B be_clever D cache F cleanfilename F cleanname F collect F collectfiles F collectspec T data B enabled
F scriptandlanguage F setcontextchain F setdynamics F setfeatures T tables D baselines D features D languages D scripts N version T pfb T tfm D features F setfeatures T vf T combinations F combine	F loadlumtable F makenameparser F reset F tounicode16 F tounicode16sequence names table S basename B be_clever D cache F cleanfilename F cleanname F collect F collectfiles F collectspec T data B enabled F exists
F scriptandlanguage F setcontextchain F setdynamics F setfeatures T tables D baselines D features D languages D scripts N version T pfb T tfm D features F setfeatures T vf T combinations F combine T combine	F loadlumtable F makenameparser F reset F tounicode16 F tounicode16sequence names table S basename B be_clever D cache F cleanfilename F cleanname F collect F collectfiles F collectspec T data B enabled F exists T filters
F scriptandlanguage F setcontextchain F setdynamics F setfeatures T tables D baselines D features D languages D scripts N version T pfb T tfm D features F setfeatures T vf T combinations F combine T combiner D commands	F loadlumtable F makenameparser F reset F tounicode16 F tounicode16sequence names table S basename B be_clever D cache F cleanfilename F cleanname F collect F collectfiles F collectspec T data B enabled F exists T filters F afm
F scriptandlanguage F setcontextchain F setdynamics F setfeatures T tables D baselines D features D languages D scripts N version T pfb T tfm D features F setfeatures T vf T combinations F combine T combine	F loadlumtable F makenameparser F reset F tounicode16 F tounicode16sequence names table S basename B be_clever D cache F cleanfilename F cleanname F collect F collectfiles F collectspec T data B enabled F exists T filters

T names readers table  F otf F afm  T paths F check_lua  F pfb F check_tfm  F ttc F dfont  F ttf F lua  S fontconfigfile F opentype  F getfilename F otf  F getlookupkey F pfb  F getlookups D sequence  F getpaths F tfm  F identify F ttc  F is_permitted F ttf  F list specifiers table  F load D contextnumber  F lookup  F postlookups  F postlookups  F contextnumber  F lookup  F postlookups  F contextnumber  F notlookups
T paths F check_lua F pfb F check_tfm F ttc F dfont F ttf F lua  S fontconfigfile F opentype F getfilename F otf F getlookupkey F getlookupkey F getlookups D sequence F getpaths F ttc F identify F ttc F is_permitted F list Specifiers table F load D contextnumber F lookup F pfb D contextnumbers
F pfb F ttc F dfont F ttf F lua  S fontconfigfile F opentype F getfilename F otf F getlookupkey F pfb F getlookups D sequence F getpaths F tfm F identify F ttc F is_permitted F ttf F list Specifiers table F load D contextnumber F lookup F lookup
F ttc F ttf F ttf F lua  S fontconfigfile F opentype F getfilename F otf F getlookupkey F getlookups D sequence F getpaths F identify F is_permitted F list F load D contextnumber F lookup  B lookup  D contextnumbers
F ttf S fontconfigfile F opentype F getfilename F otf F getlookupkey F pfb F getlookups D sequence F getpaths F tfm F identify F is_permitted F ttc F is_permitted F list Specifiers F table F load D contextmerged B loaded F contextnumber F lookup
S fontconfigfile F getfilename F otf F getlookupkey F getlookups D sequence F getpaths F identify F is_permitted F ttc F list Specifiers F table F load D contextnumber F lookup  F lookup
F getfilename F otf F getlookupkey F pfb F getlookups D sequence F getpaths F tfm F identify F is_permitted F list F list F load D contextmerged B loaded F lookup D contextnumber F lookup
F getlookupkey F getlookups D sequence F getpaths F identify F itc F is_permitted F ttf F list Specifiers F table F load D contextmerged B loaded F lookup D contextnumber F lookup
F getlookups  F getpaths  F tfm  F identify  F is_permitted  F list  F load  B loaded  F lookup  D sequence  F tfm  F tfm  F ttc  F ttc  F ttc  Specifiers  T table  D contextmerged  F contextnumber  D contextnumber
F getpaths F identify F itc F is_permitted F list F load F to specifiers F load D contextmerged B loaded F lookup D contextnumber D contextnumber
F identify F is_permitted F is_permitted F list F load F load B loaded F lookup F lookup F ttc F ttf Specifiers T table F tontextmerged F contextnumber D contextnumber
F is_permitted F list F load D contextmerged B loaded F lookup D contextnumber D contextnumber
F list specifiers table F load D contextmerged B loaded F contextnumber F lookup D contextnumbers
F load D contextmerged B loaded F contextnumber F lookup D contextnumbers
B loaded F contextnumber F lookup D contextnumbers
F lookup D contextnumbers
•
E noflectung
F noflookups D contextsetups
S osfontdirvariable F contexttostring
F readdata F mergecontext
F register F presetcontext
F registered F registercontext
F resolve F showcontext
F resolvedspecification F splitcontext
F resolvespec D synonyms
B saved D variants
F specification symbols table
D specifications F uselibrary
F splitspec tables table
N version tracers table
F writedata typefaces data tab

protrusions data table

# gzip (extra lua)

close function
lines function
open function

# img (basic tex)

boxes	function	ofindex	function
checksize	function	package	function
clone	function	print	${\tt function}$
сору	function	scan	function
immediatewrite	function	serialize	${\tt function}$
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 linkedlists table F define F defineset pages table F insert F setpagetransition general table F setupcanvas F getidentity references table F setclosedocument F setupidentity table help F setclosepage F collect  ${\tt F} \ {\tt setopendocument}$ F reference F setopenpage F register renderings table javascripts table F register F addtopreamble F rendering F code F var soundclips table D codes F flushpreambles F insert D functions F register

### interfaces (context)

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

### io (basic lua)

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

# job (context)

comment	function	F list		
files	table	F save		
D collect	ed	F savedata		
F context		F savetagged		
B forceru	ın	D tobesaved		
F run		positions	table	
D tobesav	red	D collect	ted	
initialize	function	F copy		
load	function	F depth		
objects	table	F extra		
D collect	ed	F height		
F doifels	se	F lowerle	eft	
F get		F lowerr	ight	
F number			F onsamepage	
F page		F overlapping		
F save		F page		
F set		F position		
D tobesav	red	F replace		
pack	boolean	D tobesay		
passes	table	F upperle	eft	
F check		F upperri		
D collect	ed	F width		
F count		Fx		
F define		F xy		
F doifinl	istelse	Fу		
F find		register	function	
F first		save	function	
F get		variables	table	
F getcoll	ected	D checks:	ıms	
F getdata		D collect	ted	
F getfiel		F save		
F gettobe		D tobesay	<i>r</i> ed	
F last		version	number	

## lang (basic tex)

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

function
function

#### languages (context)

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

F define

lefthyphenmin function loadable function loadwords function table logger

F report

data table numbers

posthyphenchar function prehyphenchar registered righthyphenmin function setdirty synonym version words

F check T data F disable F enable T enablers B enables F found F load T methods N threshold function data table function function number table

## layouts (context)

status table

F isleftpage

F leftorrightpagection

### lfs (extra lua)

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

### libraries (context)

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

#### lmx (context)

function
function

 ${\tt function}$ pv function reset result function function set show function  ${\tt showdebuginfo} \quad {\tt function}$ showerror function tv function  ${\tt function}$ type urlescape function variable function variables data table

# logs (context)

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

# lpdf (context)

action function id	function
adddocumentcolorspace function injectxmpinfo	function
adddocumentextgstate function insertxmpinfo	function
adddocumentpattern function javascript	function
adddocumentshade function launch	function
addtocatalog function layerreference	function
addtoinfo function limited	function
addtonames function linearshade	function
addtopageattributes function link	function
addtopageresources function null	function
addtopagesattributes function number	function
addxmpinfo function pagedestination	function
array function pagereference	function
boolean function pdfcolor	function
<pre>checkedkey function pdftimestamp</pre>	function
checkedvalue function protectresources	boolean
circularshade function reference	function
<pre>cmykcode function registerannotation</pre>	function
collectedresources function registerdocumentfinalizer	function
color function registerpagefinalizer	function
colorspace function reserveannotation	function
colorspec function reserveobject	function
colorvalue function rgbcode	function
colorvalues function rotationcm	function
constant function shareobject	function
delayedobject function shareobjectreference	function
dictionary function spotcode	function
epdf table stream	function
F load string	function
finalizedocument function timestamp	function
finalizepage function toeight	function
finishtransparencycode function tosixteen	function
flushobject function transparency	function
flushstreamfileobject function transparencycode	function
flushstreamobject function transparencyvalue	function
formats data table unicode	function
graycode function verbose	function

# lpeg (basic lua)

C	function
Carg	function
Ср	function
Сс	function
Cf	function
Cg	function
Cmt	function
Ср	function
Cs	function
Ct	function
P	function
R	function
S	function
UP	function
UR	function
US	function
V	function
anywhere	function
append	function
balancer	function
checkedsplit	function
count	function

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

### ltn12 (extra lua)

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

#### lua (basic tex)

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

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

# luatex (context)

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

### lxml (context)

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

#### math (basic lua)

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

mo	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	makefont	function	
alphabets	data table	overloadparameters	function	
big	function	privatebase	number	
boldmap	table	remapalphabets	function	
categories	table	renderings	table	
D functions		D mappings		
${\tt checkaccentbaseheight}$	function	D numbers		
checkprivateparameters	function	D sets		
classes	data table	renderset	function	
codes	data table	scaleparameters	function	
define	function	setalternate	function	
dimensions	function	syncboth	function	
extrabase	number	syncname	function	
extras	table	syncstyle	function	
F add		toname	function	
F copy		tostyle	function	
families	data table	utfmathclass	function	
getboth	function	utfmathcommand	function	
getstyle	function	utfmathfiller	function	
initializeparameters	function	${\tt utfmathstretch}$	function	

## md5 (extra lua)

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

# metapost (context)

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

### 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 base6	34
F base64		F defau	ılt
F quoted	-printable	F quote	d-printable
eol	function	F text	
normalize	function	wrp	function

## mplib (extra tex)

fields function
new function

pen\_info function
version function

### noads (context)

handlers table	F variants
F check	<pre>process function</pre>
F collapse	<pre>processors table</pre>
F families	T collapse
F relocate	F mlist_to_hlist
F render	T relocate
F resize	T render
F respace	T resize
F tags	T respace
F unscript	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	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 setpair	
aligned	function	installattributehandler	function
astable	function	is_display_math	function
before	function	is_mirrored	data table
builders	table	is_rotated	data table
F buildpage_filter		kerncodes	data table
F vpack_filter		leftmarginwidth	function
codes	data table	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	
${ t fasthpack}$	function	link	function
fields	function	list	function
fillcodes	data table	listablefields	data table
firstcharacter	function	listcodes	data table
${ t firstcharinbox}$	function	listtoutf	function
${ t firstglyph}$	function	load	function
getattribute	function	locate	function
gluecodes	data table	mathcodes	data table
glyphcodes	data table	noadcodes	data table
${ t glyphdir_is_equal}$	data table	nodecodes	data table
${ t glyphdir_is_opposite}$	data table	packlist	function
${ t glyphdir_is\_orthogonal}$	data table	pardir_is_equal	data table
handlers	table	pardir_is_opposite	data table
F backgrounds		pardir_is_parallel	data table
F characters		<pre>partextdir_is_equal</pre>	data table
F checkforleaks		pool	table
F checkglyphs		F baselineskip	
F cleanuppage		F cleanup	
F export		F disc	
F finalize		F glue	
F graphicvadjust		F gluespec	
F migrate		F glyph	
F protectglyphs		F kern	
F stripping		F latelua	
F unprotectglyphs		F leftmarginkern	
has_attribute	function	F leftskip	
idstostring	function	F lineskip	
ignorablefields	data table	F noad	
injections	table	F pdfannotation	
F handler		F pdfdestination	
F setcursive		F pdfdirect	
F setkern		F pdfliteral	
F setmark		F penalty	

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

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

${\tt unsetattribute}$
${\tt unsetattributes}$
visualizebox
whatcodes
whatsitcodes
writable_spec

function function function data table data table function

### number (context)

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

## os (basic lua)

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

# package (basic lua)

appendtolibpath	function	loaders
clibpaths	function	loadlib
config	string	path
cpath	string	preload
libpaths	function	${\tt prependtolibpath}$
loaded	table	seeall

table
function
string
table
function
function

# pdf (basic tex)

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

# physics (context)

patterns table

U combinedparser

U digitparser

U digitparserspace

U unitparser

## profiler (extra lua)

pausefunctionstartfunctionresumefunctionstopfunction

# regimes (context)

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

## resolvers (context)

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

methodhandler	function	F strip	
newinstance	function	F cleanname	
openbinfile	function	F install	
openers	data table	N threshold	
openfile	function	setenv	function
opentexfile	function	setinstance	function
ownpath	string	settrace	function
prefixes	data table	showpath	function
prependhash	function	simplescanfiles	function
registerextrapath	function	splitconfigurationpath	function
registerfile	function	splitexpansions	function
registerfilehash	function	splitmethod	function
registerintrees	function	splitpath	function
registermethod	function	suffixes	data table
registerzipfile	function	${\tt suffixmap}$	data table
relations	data table	suffixofformat	function
repath	function	texdatablob	function
reset	function	${\tt unexpandedpath}$	function
resetextrapath	function	${\tt unexpandedpathlist}$	function
resetresolve	function	unresolve	function
resolve	function	updaterelations	function
savers	data table	updatescript	function
scandata	function	usezipfile	function
scanfiles	function	${\tt validatedpath}$	function
schemes	table	variable	function
T cleaners		${\tt variableofformat}$	function
F md5		${\tt variable}{\tt offormators}{\tt uffix}$	function
F none		wildcardpattern	function
		=	

### 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

## short\_operators (context)

# short\_prefixes (context)

E	string	da	string
G	string	f	string
M	string	h	string
P	string	k	string
T	string	m	string
Y	string	n	string
Z	string	p	string
a	string	u	string
С	string	У	string
d	string		

## short\_units (context)

## socket (extra lua)

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

#### sorters (context)

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

 ${\tt N}$  replacementoffset

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

#### statistics (context)

checkfmtstatus	function
elapsedindeed	function
elapsedseconds	function
${\tt elapsedtime}$	function
enable	boolean
formatruntime	function
hastiming	function
memused	function
register	function
reportstorage	function

resettiming  ${\tt function}$ runtime function savefmtstatus function show function  ${ t showjobstat}$ function starttiming function stoptiming function threshold number timed function

status (basic tex)

list function

## storage (context)

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

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
${\tt escapedpattern}$	function
explode	function
find	function
format	function
gfind	function
gmatch	function
gsub	function
is_boolean	function
<pre>is_empty</pre>	function
len	function
limit	function
lower	function

function
function

### structures (context)

atlocation	function	F value	
blocks	table	currentsectionnumber	function
D collected		descriptions	table
F define		documents	table
F print		T data	
F save		S block	
F select		T blocks	
F setstate		T checkers	
D states		N depth	
D tobesaved		T forced	
bookmarks	table	T numbers	
F finalize		T ownnumbers	
F flatten		T status	
S method		F initialize	
F overload		F reset	
F place		floats	table
F register		formulas	table
F setup		F current	
counters	table	F simplify	
F add		F store	
F analyze		helpers	table
F check		F analyze	
D collected		F formulanumber	
F compact		F merged	
F converted		F page	
F current		F prefix	
D data		F prefixlastpage	
F define		F prefixpage	
F first		F simplify	
F get		F title	
F last		F touserdata	
F next		itemgroups	table
F prev		F maxwidth	
F previous		F nofitems	
F raw		F register	
F record		lists	table
F reset		F analyze	
F restart		D cached	
F restore		D collected	
F save		F doifstoredelse	
F set		F enhance	
F setlevel		T enhancers	
F setoffset		F filter	
F setown		F filtercollected	
F setstate		F formulanumber	
F setvalue		D internals	
F show		F label	
T specials		F location	
F userpage		F number	
F subs		D ordered	
D tobesaved		F page	
		. 0	

F popnesting	F number
F prefix	F ordered
F prefixednumber	F postpone
F prefixedpage	F resetpostponed
F process	Frestore
F push	F save
D pushed	F setstate
F pushnesting	F setsymbolpage
F realpage	D states
T result	F store
F savednumber	F title
F savedprefixednumber	<pre>pages table</pre>
F savedtitle	F analyze
F sectionnumber	D collected
F size	F is_odd
F title	F number
D tobesaved	F save
F userdata	D tobesaved
F uservalue	processors table
marks table	F apply
D data	F register
F define	F reset
F exists	F split
F fetch	F startapply
F fetchallmarks	F stopapply
F fetched	F stripped
F fetchonemark	F tostring
	3
F fetchtwomarks	references table
F fetchtwomarks F get	•
	references table
F get	references table F analyze
F get F number	references table F analyze F checkedfile
F get F number F relate	references table F analyze F checkedfile F checkedfileorurl
F get F number F relate F reset	references table F analyze F checkedfile F checkedfileorurl F checkedprogram
F get F number F relate F reset F set	references table F analyze F checkedfile F checkedfileorurl F checkedprogram F checkedurl
F get F number F relate F reset F set F show	references table F analyze F checkedfile F checkedfileorurl F checkedprogram F checkedurl D collected
F get F number F relate F reset F set F show F synchronize	references table F analyze F checkedfile F checkedfileorurl F checkedprogram F checkedurl D collected F currentmetadata
F get F number F relate F reset F set F show F synchronize F title T tracers F showtable	references table  F analyze F checkedfile F checkedfileorurl F checkedprogram F checkedurl D collected F currentmetadata F currentorder D currentset F define
F get F number F relate F reset F set F show F synchronize F title T tracers F showtable notes table	references table  F analyze F checkedfile F checkedfileorurl F checkedprogram F checkedurl D collected F currentmetadata F currentorder D currentset F define D defined
F get F number F relate F reset F set F show F synchronize F title T tracers F showtable  notes table F checkpagechange	references  F analyze  F checkedfile  F checkedfileorurl  F checkedprogram  F checkedurl  D collected  F currentmetadata  F currentorder  D currentset  F define  D defined  D derived
F get F number F relate F reset F set F show F synchronize F title T tracers F showtable  notes table F checkpagechange F define	references table  F analyze F checkedfile F checkedfileorurl F checkedprogram F checkedurl D collected F currentmetadata F currentorder D currentset F define D defined D derived F doifelse
F get F number F relate F reset F set F show F synchronize F title T tracers F showtable  notes table F checkpagechange F define F deltapage	references  F analyze  F checkedfile  F checkedfileorurl  F checkedprogram  F checkedurl  D collected  F currentmetadata  F currentorder  D currentset  F define  D defined  D derived  F doifelse  F enableinteraction
F get F number F relate F reset F set F show F synchronize F title T tracers F showtable  notes table F checkpagechange F define F deltapage F doifcontent	references  F analyze  F checkedfile  F checkedfileorurl  F checkedprogram  F checkedurl  D collected  F currentmetadata  F currentorder  D currentset  F define  D defined  D derived  F onableinteraction  F enhance
F get F number F relate F reset F set F show F synchronize F title T tracers F showtable  notes table F checkpagechange F define F deltapage F doifcontent F doifonsamepageasprevious	references  F analyze F checkedfile F checkedfileorurl F checkedprogram F checkedurl D collected F currentmetadata F currentorder D currentset F define D defined D derived F doifelse F enableinteraction F enhance D executers
F get F number F relate F reset F set F show F synchronize F title T tracers F showtable  notes table F checkpagechange F define F deltapage F doifcontent F doifonsamepageasprevious F flush	references  F analyze  F checkedfile  F checkedfileorurl  F checkedprogram  F checkedurl  D collected  F currentmetadata  F currentorder  D currentset  F define  D defined  D derived  F enableinteraction  F enhance  D executers  F expandcurrent
F get F number F relate F reset F set F show F synchronize F title T tracers F showtable  notes table  F checkpagechange F define F deltapage F doifcontent F doifonsamepageasprevious F flush F flushpostponed	references  F analyze F checkedfile F checkedfileorurl F checkedprogram F checkedurl D collected F currentmetadata F currentorder D currentset F define D defined D derived F doifelse F enableinteraction F enhance D executers F expandcurrent F export
F get F number F relate F reset F set F show F synchronize F title T tracers F showtable  notes table  F checkpagechange F define F deltapage F doifcontent F doifonsamepageasprevious F flush F flushpostponed F get	references  F analyze  F checkedfile  F checkedfileorurl  F checkedprogram  F checkedurl  D collected  F currentmetadata  F currentorder  D currentset  F define  D defined  D derived  F enableinteraction  F enhance  D executers  F expandcurrent  F export  D exporters
F get F number F relate F reset F set F show F synchronize F title T tracers F showtable  notes table  F checkpagechange F define F deltapage F doifcontent F doifonsamepageasprevious F flush F flushpostponed F get F getn	references  F analyze F checkedfile F checkedfileorurl F checkedprogram F checkedurl D collected F currentmetadata F currentorder D currentset F define D defined D derived F doifelse F enableinteraction F enhance D executers F expandcurrent F export D exporters T files
F get F number F relate F reset F set F show F synchronize F title T tracers F showtable  notes table  F checkpagechange F define F deltapage F doifcontent F doifonsamepageasprevious F flush F flushpostponed F get F getn F getnumberpage	references  F analyze F checkedfile F checkedfileorurl F checkedprogram F checkedurl D collected F currentmetadata F currentorder D currentset F define D defined D derived F doifelse F enableinteraction F enhance D executers F expandcurrent F export D exporters T files T data
F get F number F relate F reset F set F show F synchronize F title T tracers F showtable  notes  F checkpagechange F define F deltapage F doifcontent F doifonsamepageasprevious F flush F flushpostponed F get F getn F getnumberpage F getstate	references  F analyze F checkedfile F checkedfileorurl F checkedprogram F checkedurl D collected F currentmetadata F currentorder D currentset F define D defined D derived F enableinteraction F enhance D executers F expandcurrent F export D exporters T files T data F define
F get F number F relate F reset F set F show F synchronize F title T tracers F showtable notes table  F checkpagechange F define F deltapage F doifcontent F doifonsamepageasprevious F flush F flushpostponed F get F getn F getnumberpage F getsymbolpage	references  F analyze F checkedfile F checkedfileorurl F checkedprogram F checkedurl D collected F currentmetadata F currentorder D currentset F define D defined D derived F enableinteraction F enhance D executers F expandcurrent F export D exporters T files T data F define F get
F get F number F relate F reset F set F show F synchronize F title T tracers F showtable notes table  F checkpagechange F define F deltapage F doifcontent F doifonsamepageasprevious F flush F flushpostponed F get F getn F getnumberpage F getsymbolpage F internal	references F analyze F checkedfile F checkedfileorurl F checkedprogram F checkedurl D collected F currentmetadata F currentorder D currentset F define D defined D derived F doifelse F enableinteraction F enhance D executers F expandcurrent F export D exporters T files T data F define F get F filter
F get F number F relate F reset F set F show F synchronize F title T tracers F showtable notes table  F checkpagechange F define F deltapage F doifcontent F doifonsamepageasprevious F flush F flushpostponed F get F getn F getnumberpage F getsymbolpage	references  F analyze F checkedfile F checkedfileorurl F checkedprogram F checkedurl D collected F currentmetadata F currentorder D currentset F define D defined D derived F enableinteraction F enhance D executers F expandcurrent F export D exporters T files T data F define F get

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

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

F filter

F finalize

T userdata

### table (basic lua)

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

### tex (basic tex)

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

## texconfig (basic tex)

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

### texio (basic tex)

write function
write\_nl function

#### token (basic tex)

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

#### tokens (context)

bgroup table

collectors table

T data

F defaultwords

F dowithwords

F flush

F handle

F install

F register

T registered

T remapper

F convert

T data

F store

F show

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

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

#### tracers (context)

count function
cs function
dimen function
knownlist function
lists table

T context
T internals
T scratch

name function
primitive function
printerror function
showlines function
strings table

S undefined

toks function
type function

### trackers (context)

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

#### typesetters (context)

alignments table directions table F handler F handler F set F process breakpoints table F set N attribute hpack function kerns F enable table F handler D factors D mapping F handler T methods B keepligature F set B keeptogether F setreplacement D mapping table cases F set T actions margins table F handler F finalhandler F set F globalhandler characters table F localhandler F save F handler table cleaners spacings table F handler N attribute F set F handler digits table D mapping T actions F set N attribute F setup F handler tonodes function vpack function F set

### unicode (extra lua)

ascii	table	F gmatch	
F byte		F gsub	
F char		F len	
F dump		F lower	
F find		F match	
F format		F rep	
F gfind		F reverse	
F gmatch		F sub	
F gsub		F upper	
F len		ustring	function
F lower		utf16_to_utf8	function
F match		utf16_to_utf8_be	function
F rep		utf16_to_utf8_le	function
F reverse		utf32_to_utf8	function
F sub		utf32_to_utf8_be	function
F upper		utf32_to_utf8_le	function
filetype	function	utf8	table
grapheme	table	F byte	
F byte		F char	
F char		F dump	
F dump		F find	
F find		F format	
F format		F gfind	
F gfind		F gmatch	
F gmatch		F gsub	
F gsub		F len	
F len		F lower	
F lower		F match	
F match		F rep	
F rep		F reverse	
F reverse		F string	
F sub		F sub	
F upper		F toentities	
latin1	table	F upper	
F byte		utf8_to_utf16	function
F char		utf8_to_utf8	function
F dump		utfcodes	function
F find		utfname	table
F format		utftype	function
F gfind		xstring	function

## url (context)

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

## utilities (context)

debugger	table	F appendaction	
F disable		F appendgroup	
F enable		F autocompile	
F savestats		F compile	
F showstats		F disableaction	
formatters	table	F disablegroup	
F formatcolumns		F enableaction	
F list		F enablegroup	
F stripzeros		D functions	
garbagecollector	table	F localize	
F check		F nodeprocessor	
N criterium		F prependaction	
B enabled		F prependgroup	
lua	table	F removeaction	
F compile		F reset	
packers	table	F setkind	
F hashed		F tostring	
F new		setters	table
F pack		F disable	
F simplehashed		F enable	
F strip		F initialize	
F unpack		F list	
N version		F new	
parsers	table	F register	
F add_settings_te	o_array	F reset	
F arguments_to_ta		F show	
F array_to_string		storage	table
F getparameters		F allocate	
F hash_to_string		F checked	
F listitem		F mark	
F make_settings_	to_hash_pattern	F marked	
T patterns		F setinitialize	r
U settings_to_a	array	F sparse	
U settings_to_l		strings	table
U settings_to_l		F collapsecrlf	
U settings_to_l		F striplong	
F settings_to_ar		F tabtospace	
F settings_to_ha	•	tables	table
F settings_to_ha		F accesstable	
F settings_to_ha		F definetable	
F settings_to_se		F encapsulate	
F simple_hash_to		F insertafterva	lue
report	function	F insertbeforev	
sequencers	table	F removevalue	
2344040015		1 10movevarue	

## visualizers (context)

escapepatterns	data table	signalpattern	userdata
getvisualizer	function	specifications	data table
load	function	visualize	function
makenested	function	visualizebuffer	function
makepattern	function	visualizefile	function
newgrammar	function	visualizestring	function
newhandler	function	write	function
parsedxml	function	writeargument	function
pattern	function	writedefault	function
register	function	writeemptyline	function
registerescapecommand	function	writenewline	function
registerescapepattern	function	writespace	function
signal	string		

# xml (context)

after	function	Р	
all	function	F name	
	function	F number	
applylpath		F oneof	
assign attribute	function function	F print	
before		F quit	
	function	F tag	
body	function	F text	
checkbom	function	F undefined	
checkerror	function	F upper	£ a.t.: a
checknamespace	function	fillin	function
checkns	function	filter	function
cleansed	function	finalizers	table
collect	function	T tex	
collect_elements	function for ation	F all	
collect_tags	function	F attribute	
collect_texts	function for at i an	F bibtexconcat	
collected	function	F bibtexshort	
collecttexts	function	F chainattribute	
content	function	F command	
convert	function	F concat	
copy	function	F concatrange	
count	function	F context	
cprint	function	F count	
css	table	F ctxtext	
F colorspecification		F default	
F fontspecification		F first	
F padding	. 17	F function	
defaulthandlers	table	F index	
D file		F last	
D parsedxml		F lettered	
D string		F lower	
D tex		F match	
D verbose		F name	
defaultprotocol	string function	F position	
delete		F reverse	
delete_element	function function	F stripped	
each	function	F tag	
each_element	function function	F tags	
elements	function function	F text	
empty entities	data table	F upper	
	function	T xml	
erase	function	F all F att	
escaped	table	F attribute	
expressions F boolean	cable	F attributes	
F child		F chainattribute	
F contains		F chainattribute F count	
F count		F default	
F count F error		F derault F elements	
F find			
		F empty	
F lower		F first	

F function		F unknown_any_entity	
F index		F unknown_dec_entity	
F last		F unknown_hex_entity	
F match		position	function
F name		privatetoken	function
F position		process	function
F reverse		process_attributes	function
F table		process_elements	function
F tag		processattributes	function
F tags		profiled	table
F text		raw	function
F texts		registerentity	function
first	function	registerns	function
found	function	remap_name	function
functions	table	remap_namespace	function
getbuffer	function	remap_tag	function
gethandlers	function	remapname	function
gethandlersfunction	function	remaphamespace	function
include	function	remaphag	function
index	function	renamespace	function
inheritedconvert	function	replace	function
	function	replace_element	function
inject <del>inject_element</del>	function	resolvens	function
inject_element_after	function	root	function
inject_element_before	function	save	function
injectafter	function	selection	function
•	function	serialize	function
injectbefore			
insert	function	sethandlersfunction	function
insert_element	function function	setproperty	function
<pre>insert_element_after insert_element_before</pre>		settings	function
	function	specialhandler	table
insertafter insertbefore	function	sprint	function
	function	string	function
inspect	function	strip	function function
is_valid	function	strip_whitespace	
last	function	stripelement	function
load	function	stripleadingspaces	function
lpath	function	table	function
lpathcached	function	text	function
lpathcalls	function	textonly	function
lshow	function	tocdata	function
makestandalone	function	toelement	function
match	function	tostring	function
name	function	toxml	function
newhandlers	function	tprint	function
nodesettostring	function	traverse	function
originalload	function	unescaped	function
package	function	unprivatized	function
parent	function	withelement	function
parsedentitylpeg	userdata	withelements	function
pihandlers	table	wrap	function
placeholders	table	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	decompress	function
compress	function	decompressobj	function
compressobj	function	version	function
crc32	function		