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 job lang languages layouts lfs libraries lmx logs lpdf lpeg ltm12 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 te 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 spotcolorna	
N attribute	F spotcolorpa	
D data	F spotcolorva	lue
F enable	B supported	
F handler	F transparenc	ycomponents
F register	B triggering	
D registered	F usecolors	
colors table	F value	
N attribute	D values	
F cmyk	B weightgray	
F cmyktogray	define	function
F cmyktorgb	effects	table
F colorcomponents	N attribute	
B couple	D data	
D data	F enable	
N default	F handler	
F defineintermediatecolor	F register	
F definemixcolor	D registered	
F definemultitonecolor	D values	
F defineprocesscolor	handlers	table
F definesimplegray	list	data table
F definespotcolor	names	data table
F definetransparency	negatives	table
F enable	N attribute	
F filter	D data	
F forcedmodel	F enable	
F forcesupport	F handler	
F formatcolor	F register	
F formatgray	D registered	
F gray	numbers	data table
F graytohsv	ofnode	function
F handler	private	function
F hsvtogray	states	table
F hsvtorgb	F disabletrig	gering
F iccprofile	F enabletrigg	ering
F isblack	F finalize	
N main	F initialize	
S model	F process	
F mpcolor	F selective	
F mpoptions	F stacked	
U none	transparencies	table
F register	N attribute	
D registered	D data	
F registerspotcolor	F enable	
F rgb	F forcesuppor	t
F rgbtocmyk	F handler	
F rgbtogray	U none	
F rgbtohsv	F register	
N selector	D registered	
F setmodel	B supported	
F spot	B triggering	
1		

F value
D values

unsetvalue number
viewerlayers table

 ${\tt N}$  attribute

D data

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

F enable

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

F handler

B hasorder

D listwise

F register

D registered

D scopes

F setfeatures

F start

F stop

B supported

D values

#### backends (context)

codeinjections table F setpagetransition current string F setupcanvas defaults table F setupidentity T codeinjections F setxmpfile T nodeinjections F startlayer T registrations F stoplayer D tables F supportedformats install function F useviewerlayer nodeinjections table F validfield F validfieldcategory F restore F validfieldset F save F transform 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 insertu3d F finalizepage F finishreference F knockout F getdefaultfieldvalue F negative F getfieldcategory F overprint F getfieldset F positive F reference F getformatoption F getoutputfilename F rgbcolor F getpreviewfigure F spotcolor F insertrenderingwindow F startlayer F stoplayer F mergereferences F mergeviewerlayers F switchlayer F prerollreference F transparency F presetsymbol F typesetfield F presetsymbollist T registrations F processrendering F cmykindexcolor F registerdocumentcloseaction F cmykspotcolor F registerdocumentopenaction F getspotcolorreference F registeredsymbol F grayindexcolor F registerpagecloseaction F grayspotcolor F registerpageopenaction F rgbindexcolor F registersymbol F rgbspotcolor F setfieldcalculationset F spotcolorname F setfigurealternative F transparency F setfigurecolorspace T tables F setfiguremask T vfspecials F setformat T black T blue F setformsmethod

T green
T red
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)

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 category function lower function categorytags data table math table contextname function mathpairs data table data data data table ranges data table decomposed data table registerentities function define function remap_hangul_syllabe function description function remap_hangul_syllabe function descriptions data table setcodes function directions data table shape function entities data table shaped function entities data table shchars data table fallbacks data table shchars data table filters data table specials data table fromnumber function subscripts table fromnumber function subscripts table fischars data table superscripts table fromnumber function tex superscripts table graphemes data table production for tex table faccodes data table fiscodes data table fromnumber function for tex table fromsumber function feschars data table from tex federings function from tex federings function from from function from federings function from federings function feschars data table from function feschars data table from function ference federings function for function ference federings function function ference federings function function federings function function ference federings function function for function ference federings function function federings function fun	activeoffset	number	is_mark	data table
blocks data table lccode function casemap table lccodes data table categories data table lettered function category function lower function categorytags data table makeactive function combined data table math table contextname function mathpairs data table data data table ranges data table decomposed data table registerentities function define function remap_hangul_syllabe function description function remapentity function descriptions data table setcodes function directions data table shape function encodes data table shape function entities data table shaped function entities data table shcodes data table filters data table specialchars data table filters data table specialchars data table fromnumber function subscripts table fromnumber function subscripts table fscodes data table fromnumber function tex superscripts table getrange function tex for the filters data table from tex function from tex function from subscripts table from subscripts table from faction tex function for tex function from function from subscripts table from function tex function from function from function from function for function for function from function for function for function for function function for function function for function for function function function function for function	adobename	function	is_spacing	data table
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F description tonumber function	hangul	table	F defineaccents	
1	F decomposed		F toutf	
F leadconsonant ucchars data table	F description		tonumber	function
	F leadconsonant		ucchars	data table
T remapped uccode function	T remapped		uccode	function
initialize function uccodes data table	initialize	function		
is_character data table unicodechar function	is_character	data table	unicodechar	function
is_command data table upper function	is_command	data table	upper	function
is_letter data table	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)

Alphabetic	function	collecthelp	function
Character	function	colorcomponents	function
Characters	function	consultfloat	function
MPd	function	copyfiletolog	function
MPh	function	${ t copyposition}$	function
MP11	function	${\tt counttwopassdata}$	function
MPlr	function	currentcomponent	function
MPp	function	currentdate	function
MPplus	function	currentenvironment	function
MPpos	function	currentproduct	function
MPrest	function	currentproject	function
MPul	function	currentregime	function
MPur	function	dayname	function
MPw	function	defineattribute	function
MPx	function	definebibtexsession	function
MPxy	function	defineconversion	function
МРу	function	definefield	function
Romannumerals	function	definefieldset	function
${\tt abjadnodotnumerals}$	function	definefilefallback	function
abjadnumerals	function	definefilesynonym	function
addff	function	definefont_one	function
addfs	function	definefont_two	function
addlinklistelement	function	definefontcollection	function
addstructurecounter	function	defineintermediatecolor	function
allinputpaths	function	definelinkedlist	function
alphabetic	function	definemarking	function
analysefloatmethod	function	definemultitonecolor	function
applytochars	function	defineparallel	function
applytowords	function	defineprocesscolor	function
assignbuffer	function	definespotcolor	function
autofinishstructurelevels	function	definestructureblock	function
autonextspace	function	definestructurecounter	function
autonextstructurelevel	function	definestructureset	function
autosetups	function	definetransparency	function
autostarttext	function	definetwopasslist	function
autostoptext	function	defineviewerlayer	function
boolcase	function	defrostrandomseed	function
character	function	digits	function
characters	function	disableregime	function
checkcharactersinfont	function	doanalyzeframedbox	function
checkedconversion	function	doif	function
${\tt checkedpagefloat}$	function	doifblackelse	function
checktwopassdata	function	doifcommonelse	function
chineseallnumerals	function	doifdimenstringelse	function
chinesecapnumerals	function	doifdrawingblackelse	function
chinesenumerals	function	doifelse	function
cleanfontname	function	doifelsebuffer	function
clonefield	function	doifelsecurrentfonthasfeature	function
clonefontcollection_one	function	doifelseintwopassdata	function
clonefontcollection_two	function	doifelsemarking	function
collectfloat	function	doifelseparallel	function
		<del>-</del>	

doifelsesavedfloat	function	forcequitjob	function
doifelsespaces	function	format	function
doifelsestructurecounter	function	formatcolor	function
doifelsevisualizer	function	formatgray	function
doiffieldcategoryelse	function	freezerandomseed	function
doiffieldelse	function	getbuffer	function
doiffieldsetelse	function	getbufferctxlua	function
doiffiledefinedelse	function	getbuffermkvi	function
doiffileexistelse	function	getdefaultfieldvalue	function
doiffirstcharelse	function	getfieldcategory	function
doifinputfileelse	function	getfirstcharacter	function
doifinsetelse	function	getfirsttwopassdata	function
doifleapyearelse	function	getfloatvariable	function
doiflocfileelse	function	getlasttwopassdata	function
doifnot	function	getmarking	function
doifnotstructurecounter	function	getprivateattribute	function
doifolderversionelse	function	getrandomcounta	function
doifoverlappingelse	function	getrandomcountb	function
doifparentfileelse	function	getrandomseed	function
doifpositionelse	function	getreadfilename	function
doifpositionsonsamepageelse	function	gettwopassdata	function
doifpositionsonthispageelse	function	gettwopassdatalist	function
doifstructurecounter	function	grabbuffer	function
doifurldefinedelse	function	helpaction	function
doprocesstypescriptfile	function	helpreference	function
${\tt doreshapeframedbox}$	function	hexstringtonumber	function
dostarttextfile	function	hour	function
dostoptextfile	function	hyphenatedlist	function
elapsedtime	function	hyphenatedurl	function
enablecolor	function	D characters	
enablecolorintents	function	N lefthyphenmin	
enablefontcolorschemes	function	D mapping	
enableregime	function	N righthyphenmin	
enabletransparency	function	F setcharacters	
enhancelinkedlist	function	incrementedstructurecounter	function
erasebuffer	function	insertattachment	function
featureattribute	function	insertcomment	function
feedback	function	insertfield	function
fetchallmarks	function	${\tt insertrenderingwindow}$	function
fetchonemark	function	insertsoundclip	function
fetchtwomarks	function	isleapyear	function
filterreference	function	languagenumber	function
findtwopassdata	function	laststructurecounter	function
firstinlist	function	lchexnumber	function
firststructurecounter	function	lchexnumbers	function
flushfloat	function	leapyear	function
flushpostponedblocks	function	loadctxpreplist	function
fontchar	function	loadexamodes	function
fontcollectionmessage	function	loadfontgoodies	function
fontlookupgetkey	function	loadvisualizer	function
fontlookupgetkeyofindex	function	locatefilepath	function
fontlookupinitialize	function	locfilename	function
fontlookupnoffound	function	maxitemwidth	function
forceendjob	function	minute	function

molecule	function	ma mi at ama aum dali m	function
	function function	registersoundclip	function
month		registerstructureprocessor	function
monthmnem	function	registertransparency	function
monthname	function	relatemarking	function
mpcolor	function	removemissingcharacters	function
mpoptions	function	replacepospxywhd	function
namedstructureuservariable	function	resavefloat	function
namedstructurevariable	function	resetfontcollection	function
nbfs	function	resetfontfeature	function
nextparallel	function	resetmarking	function
nextstructurecounter	function	resetmathitalics	function
nofdays	function	resetnullfont	function
nofitems	function	resetparallel	function
${\tt nofstackedfloats}$	function	resetstructurecounter	function
number	function	resetstructureprocessor	function
octnumber	function	resettimer	function
octstringtonumber	function	restartstructurecounter	function
ordinal	function	restorecurrentattributes	function
overloadbookmark	function	restorestructurecounter	function
pdfrotation	function	romannumerals	function
percentageof	function	runbuffer	function
placeparallel	function	savebuffer	function
popfloat	function	savecurrentattributes	function
popitaliccorrection	function	savefloat	function
prepareMPvariable	function	saveparallel	function
preparebibtexsession	function	savestructureblock	function
preparedfile	function	savestructurecounter	function
preparefontcollection	function	savetaggedtwopassdata	function
presetsymbollist	function	savetwopassdata	function
presettabulate	function	second	function
prevstructurecounter	function	selectstructureblock	function
processbuffer	function	setclosedocumentaction	function
processedfile	function	setclosepageaction	function
processedfiles	function	setcolormodel	function
processfile	function	setfontfeature	function
processfilemany	function	setfontofid	function
processfilenone	function	setformat	function
processfileonce	function	setformsmethod	function
pushfloat	function	setmarking	function
pushitaliccorrection	function	setmatking setmathalphabet	function
rawcharacter	function	setmathalternate	function
	function	setmathattribute	function
referencepagestate	function	setmathattribute setmathitalics	function
referencerealpage			
registerattachment	function	setmathstyle	function
registerbibtexentry	function	setopendocumentaction	function
registerbibtexfile	function	setopenpageaction	function
registerbookmark	function	setownstructurecounter	function
registerbuttons	function	setpagetransition	function
registercolor	function	setrandomseed	function
registercolorintent	function	setrastercolor	function
registerhelp	function	setrealign	function
registeritemgroup	function	setreferencearguments	function
${\tt registermaintext}{\tt color}$	function	setreferenceoperation	function
${\tt registerpostponedblock}$	function	setstructureblockstate	function

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setstructurecounter	function	structuregivencatcodedget	function
settagcombination	function	structurenumber	function
settagdescription	function	structuretitle	function
settagdescriptionsymbol	function	structureuservariable	function
settagfigure	function	structurevariable	function
settaghighlight	function	subff	function
settagitemgroup	function	subfs	function
settagproperty	function	synchronizemarking	function
settagsorting	function	${ t tagged math function}$	function
settagsynonym	function	testcase	function
settagtablecell	function	textime	function
settagtabulatecell	function	${\tt transparencycomponents}$	function
setupbookmarks	function	triggereffect	function
setupcanvas	function	${ t triggernegative}$	function
setupexport	function	${ t truefile name}$	function
${ t setupfontexpansion}$	function	typebuffer	function
${ t setupfontprotrusion}$	function	typefile	function
${ t setupidentity}$	function	typestring	function
setupitaliccorrection	function	uchexnumber	function
setxmpfile	function	uchexnumbers	function
showchardata	function	unicodechar	function
${\tt showfontparameters}$	function	unit	function
${ t showhyphenatedinlist}$	function	updatefilenames	function
showstructurecounter	function	${\tt useMPlibrary}$	function
splitfilename	function	useanyfile	function
${\tt spotcolorname}$	function	usecldfile	function
${\tt spotcolorparent}$	function	usecolors	function
spotcolorvalue	function	usecomponent	function
startcomponent	function	useenvironment	function
startenvironment	function	uselibrary	function
startproduct	function	useluafile	function
startproject	function	usemodules	function
startregime	function	${\tt usepath}$	function
starttag	function	useproduct	function
starttext	function	useproject	function
stopcomponent	function	usesubpath	function
stopenvironment	function	usesymbols	function
stopproduct	function	usetexfile	function
stopproject	function	usexmlfile	function
stopregime	function	usezipfile	function
stoptag	function	utfchar	function
stoptext	function	weekday	function
structureautocatcodedget	function	weekdayname	function
structurecatcodedget	function	widthofstring	function
structurecountersubs	function	writestatus	function
structurecountervalue	function	year	function
		-	

#### containers (context)

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

#### converters (context)

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

E mathematics	D halmana
F mathematics	D helpers D math
F protrusions	
F solutions	D predefined D whatever
F typefaces F load	hashes table
F prepare_features	D characters
F register	D csnames
F registerpostprocessor	T dynamics
F report	D identifiers
handlers table	D italics
T afm	D marks
B addkerns	D parameters
B addligatures	T processes
B addtexligatures	D properties
B autoprefixed	D quads
D cache	T setdynamics
D features	D xheights
F load	helpers table
F setfeatures	F dimenfactor
B syncspace	F getdigitwidth
N version	F getparameters
T otf	F nametoslot
F addfeature	F setdigitwidth
D cache	iterators table
T chainhandlers	F characters
F normal	F descriptions
F verbose	F glyphs
	0 01
F collectlookups	loggers table
F collectlookups F dataset	
	loggers table
F dataset	loggers table F format
F dataset D enhancers	loggers table F format F onetimemessage
F dataset D enhancers D features	loggers table F format F onetimemessage F register
F dataset D enhancers D features F getalternate	loggers table F format F onetimemessage F register F reportdefinedfonts
F dataset D enhancers D features F getalternate T glists	loggers table F format F onetimemessage F register F reportdefinedfonts F reportusedfeatures
F dataset D enhancers D features F getalternate T glists F load	loggers table F format F onetimemessage F register F reportdefinedfonts F reportusedfeatures mappings table F addtounicode F fromunicode16
F dataset D enhancers D features F getalternate T glists F load F scriptandlanguage F setcontextchain F setdynamics	loggers table F format F onetimemessage F register F reportdefinedfonts F reportusedfeatures mappings table F addtounicode F fromunicode16 F loadfile
F dataset D enhancers D features F getalternate T glists F load F scriptandlanguage F setcontextchain F setdynamics F setfeatures	loggers table F format F onetimemessage F register F reportdefinedfonts F reportusedfeatures mappings table F addtounicode F fromunicode16 F loadfile F loadline
F dataset D enhancers D features F getalternate T glists F load F scriptandlanguage F setcontextchain F setdynamics F setfeatures T tables	loggers table F format F onetimemessage F register F reportdefinedfonts F reportusedfeatures mappings table F addtounicode F fromunicode16 F loadfile F loadline F loadlumtable
F dataset D enhancers D features F getalternate T glists F load F scriptandlanguage F setcontextchain F setdynamics F setfeatures T tables D baselines	loggers table F format F onetimemessage F register F reportdefinedfonts F reportusedfeatures mappings table F addtounicode F fromunicode16 F loadfile F loadline F loadlumtable F makenameparser
F dataset D enhancers D features F getalternate T glists F load F scriptandlanguage F setcontextchain F setdynamics F setfeatures T tables D baselines D features	loggers table F format F onetimemessage F register F reportdefinedfonts F reportusedfeatures mappings table F addtounicode F fromunicode16 F loadfile F loadline F loadlumtable F makenameparser F reset
F dataset D enhancers D features F getalternate T glists F load F scriptandlanguage F setcontextchain F setdynamics F setfeatures T tables D baselines D features D languages	loggers table F format F onetimemessage F register F reportdefinedfonts F reportusedfeatures mappings table F addtounicode F fromunicode16 F loadfile F loadline F loadlumtable F makenameparser F reset F tounicode16
F dataset D enhancers D features F getalternate T glists F load F scriptandlanguage F setcontextchain F setdynamics F setfeatures T tables D baselines D features D languages D scripts	Ioggers table F format F onetimemessage F register F reportdefinedfonts F reportusedfeatures mappings table F addtounicode F fromunicode16 F loadfile F loadline F loadlumtable F makenameparser F reset F tounicode16 F tounicode16 F tounicode16
F dataset D enhancers D features F getalternate T glists F load F scriptandlanguage F setcontextchain F setdynamics F setfeatures T tables D baselines D features D languages D scripts N version	loggers table F format F onetimemessage F register F reportdefinedfonts F reportusedfeatures mappings table F addtounicode F fromunicode16 F loadfile F loadline F loadlumtable F makenameparser F reset F tounicode16 F tounicode16 F tounicode16sequence names table
F dataset D enhancers D features F getalternate T glists F load F scriptandlanguage F setcontextchain F setdynamics F setfeatures T tables D baselines D features D languages D scripts N version T pfb	loggers table F format F onetimemessage F register F reportdefinedfonts F reportusedfeatures mappings table F addtounicode F fromunicode16 F loadfile F loadline F loadlumtable F makenameparser F reset F tounicode16 F tounicode16 S basename
F dataset D enhancers D features F getalternate T glists F load F scriptandlanguage F setcontextchain F setdynamics F setfeatures T tables D baselines D features D languages D scripts N version T pfb T tfm	loggers table F format F onetimemessage F register F reportdefinedfonts F reportusedfeatures mappings table F addtounicode F fromunicode16 F loadfile F loadline F loadlumtable F makenameparser F reset F tounicode16 F tounicode16 F tounicode16 F tounicode16 F tounicode16 F basename B be_clever
F dataset D enhancers D features F getalternate T glists F load F scriptandlanguage F setcontextchain F setdynamics F setfeatures T tables D baselines D features D languages D scripts N version T pfb T tfm D features	Ioggers table F format F onetimemessage F register F reportdefinedfonts F reportusedfeatures mappings table F addtounicode F fromunicode16 F loadfile F loadline F loadlumtable F makenameparser F reset F tounicode16 F tounicode16 S basename B be_clever D cache
F dataset D enhancers D features F getalternate T glists F load F scriptandlanguage F setcontextchain F setdynamics F setfeatures T tables D baselines D features D languages D scripts N version T pfb T tfm D features F setfeatures F setfeatures F setfeatures	Ioggers table F format F onetimemessage F register F reportdefinedfonts F reportusedfeatures  mappings table F addtounicode F fromunicode16 F loadfile F loadline F loadlumtable F makenameparser F reset F tounicode16
F dataset D enhancers D features F getalternate T glists F load F scriptandlanguage F setcontextchain F setdynamics F setfeatures T tables D baselines D features D languages D scripts N version T pfb T tfm D features F setfeatures T vf	F format F onetimemessage F register F reportdefinedfonts F reportusedfeatures  mappings table F addtounicode F fromunicode16 F loadfile F loadline F loadlumtable F makenameparser F reset F tounicode16
F dataset D enhancers D features F getalternate T glists F load F scriptandlanguage F setcontextchain F setdynamics F setfeatures T tables D baselines D features D languages D scripts N version T pfb T tfm D features F setfeatures T vf T combinations	loggers table F format F onetimemessage F register F reportdefinedfonts F reportusedfeatures mappings table F addtounicode F fromunicode16 F loadfile F loadline F loadlumtable F makenameparser F reset F tounicode16 F tounicode16sequence names table S basename B be_clever D cache F cleanfilename F cleanname F collect
F dataset D enhancers D features F getalternate T glists F load F scriptandlanguage F setcontextchain F setdynamics F setfeatures T tables D baselines D features D languages D scripts N version T pfb T tfm D features F setfeatures T vf T combinations F combine	loggers table F format F onetimemessage F register F reportdefinedfonts F reportusedfeatures mappings table F addtounicode F fromunicode16 F loadfile F loadline F loadlumtable F makenameparser F reset F tounicode16
F dataset D enhancers D features F getalternate T glists F load F scriptandlanguage F setcontextchain F setdynamics F setfeatures T tables D baselines D features D languages D scripts N version T pfb T tfm D features F setfeatures T vf T combinations F combine T combiner	loggers table F format F onetimemessage F register F reportdefinedfonts F reportusedfeatures mappings table F addtounicode F fromunicode16 F loadfile F loadline F loadlumtable F makenameparser F reset F tounicode16 F tounicode
F dataset D enhancers D features F getalternate T glists F load F scriptandlanguage F setcontextchain F setdynamics F setfeatures T tables D baselines D features D languages D scripts N version T pfb T tfm D features F setfeatures T vf T combinations F combine	loggers table F format F onetimemessage F register F reportdefinedfonts F reportusedfeatures mappings table F addtounicode F fromunicode16 F loadfile F loadline F loadlumtable F makenameparser F reset F tounicode16

F exists	N version	
T filters	F writedata	
F afm	protrusions	data table
F dfont	readers	table
T list	F afm	
T names	F check_lua	
F otf	F check_tfm	
T paths	F dfont	
F pfb	F lua	
F ttc	F opentype	
F ttf	F otf	
S fontconfigfile	F pfb	
F getfilename	D sequence	
F getlookupkey	F tfm	
F getlookups	F ttc	
F getpaths	F ttf	
F identify	specifiers	table
F is_permitted	D contextmerg	ged
F list	F contextnumb	per
F load	D contextnumb	pers
B loaded	D contextsetu	ıps
F lookup	F contexttost	ring
F noflookups	F mergecontex	rt
S osfontdirvariable	F presetconte	ext
F readdata	F registercon	ntext
F register	F showcontext	5
F registered	F splitcontex	rt
F resolve	D synonyms	
F resolvedspecification	D variants	
F resolvespec	symbols	table
B saved	F uselibrary	
F specification	tables	table
D specifications	tracers	table
F splitspec	typefaces	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)

comme	ent	function	posit	ions	table
files	3	table	D	collecte	d
D	collecte	ed	F	сору	
F	context F depth				
В	forcerun	ı	F	extra	
F	run		F	height	
D	tobesave	ed	F	lowerlef	t
initi	ialize	function	F	lowerrig	ht
load		function	F	onsamepa	ge
loado	other	function	F	overlapp	ing
objec	cts	table	F	page	
D	collecte	ed	F	position	•
F	doifelse	е	F	replace	
F	get		F	setall	
F	number		F	setdim	
F	page		F setraw		
F	save		D tobesaved		d
F	set		F upperleft		t
D	tobesave	ed	F	upperrig	ht
pack		boolean	F	v	
passe	es	table	F	width	
F	check		F	x	
D	collecte	ed	F	xy	
F	count		F	У	
F	define		regis	ter	function
F	find		save		function
F	first		struc	ture	table
F	get		D	collecte	d
F	getcolle	ected	Т	tobesave	d
F	getdata			T branch	es
F	getfield	i		S name	
F	gettobes	saved		S type	
F	inlist		varia	bles	table
F	last		D	checksum	.s
F	list		D	collecte	d
F	save		F	save	
F	savetage	ged	D	tobesave	d
D	tobesave	ed	versi	on	number

# lang (basic tex)

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

function
function

#### languages (context)

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

F define F split

lefthyphenmin function loadable function loadwords function table logger

F report

numbers posthyphenchar prehyphenchar registered righthyphenmin function setdirty synonymversion words

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

# layouts (context)

status table

F isleftpage

F leftorrightpagection

## lfs (extra lua)

attributes	function	mkdir	function
chdir	function	readlink	function
currentdir	function	rmdir	function
dir	function	setmode	function
isdir	overloaded function	shortname	function
isfile	function	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	setmessenger	function
categories	function	setprogram	function
direct			
	function	settarget	function
disable	function	settranslations	function
enable	function	show	function
extendbanner	function	show_close	function
flush	function	show_load	function
help	function	show_open	function
messenger	function	simple	function
new	function	simpleline	function
newline	function	simplelines	function
poptarget	function	start_page_number	function
${\tt pushtarget}$	function	status	function
report	function	stop_page_number	function
report_job_stat	function	subdirect	function
reportbanner	function	subreport	function
reporter	function	system	function
reportline	function	texerrormessage	function
reportlines	function	writer	function
setformats	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		
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	table
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	
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	overloadparameters	function
alphabets	data table	privatebase	number
big	function	${\tt remapalphabets}$	function
boldmap	table	renderings	table
categories	table	D mappings	
D functions		D numbers	
${\tt checkaccentbaseheight}$	function	D sets	
${\tt checkprivateparameters}$	function	renderset	function
classes	data table	resetitalics	function
codes	data table	${ t scale} { t parameters}$	function
define	function	${ t setalternate}$	function
dimensions	function	setitalics	function
extrabase	number	${ t syncboth}$	function
extras	table	syncname	function
F add		syncstyle	function
F copy		toname	function
families	data table	tostyle	function
gaps	table	${\tt utfmathclass}$	function
getboth	function	${\tt utfmathcommand}$	function
getstyle	function	${\tt utfmathfiller}$	function
${\tt initialize}$ parameters	function	${\tt utfmathstretch}$	function
makefont	function		

# md5 (extra lua)

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

# metapost (context)

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

# mime (extra lua)

b64	function	qр	function
decode	function	qpwrp	function
decodet	table	stuff	function
F base64		unb64	function
F quoted	-printable	unqp	function
dot	function	wrap	function
encode	function	wrapt	table
encodet	table	F 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 check F collapse F families F italics F relocate F render F resize F respace F tags

F unscript

F variants

process function
processors table

T collapse

F mlist\_to\_hlist

T relocate T render

T resize T respace

T unscript

## node (basic tex)

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

## nodes (context)

after	function	F 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	34.2	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	
fasthpack	function	link	function
fields	function	list	function
fillcodes	data table	listablefields	data table
firstcharacter	function	listcodes	data table
firstcharinbox	function	listtoutf	function
firstglyph	function	load	function
getattribute	function	locate	function
gluecodes	data table	mathcodes	data table
glyphcodes	data table	noadcodes	data table
glyphdir_is_equal	data table	nodecodes	data table
glyphdir_is_opposite	data table	packlist	function
glyphdir_is_orthogonal	data table	pardir_is_equal	data table
handlers	table	pardir_is_opposite	data table
F backgrounds		pardir_is_parallel	data table
F characters		partextdir_is_equal	data table
F checkforleaks		pool	table
F checkglyphs		F baselineskip	
F cleanuppage		F cleanup	
F export		F disc	
F finalize		F fontkern	
F graphicvadjust		F glue	
F migrate		F gluespec	
F protectglyphs		F glyph	
F stripping		F kern	
F unprotectglyphs		F latelua	
has_attribute	function	F leftmarginkern	
idstostring	function	F leftskip	
ignorablefields	data table	F lineskip	
injections	table	F noad	
F handler		F pdfannotation	
F setcursive		F pdfdestination	
F setkern		F pdfdirect	
F setmark		F pdfliteral	

F pdfrestore		F define	
F pdfsave		F enable	
F pdfsetmatrix		F handler	
F penalty		show	function
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
N attribute		textdir_is_opposite	data table
T done		textdir_is_parallel	data table
F handler		tonodes	function
T stack		tosequence	function
remove	function	totable	function
${\tt repackhlist}$	function	toutf	function
replace	function	tracers	table
report	function	T characters	
${ t rightmarginwidth}$	function	F collect	
rules	table	F equal	
D data		F indices	
F define		F start	
F enable		F string	
F handler		F unicodes	
save	function	T colors	
serialize	function	F reset	
serializebox	function	F set	
setattribute	function	F fontchar	
setattributes	function	F start	
setunsetattributes	function	T steppers	
shifts	table	F check	
D data		F codes	

F features	F stop		
F glyphs	F stop		
F message	${\tt unsetattribute}$	function	
F messages	${\tt unsetattributes}$	function	
F nofsteps	visualizebox	function	
F register	whatcodes	data table	
F reset	whatsitcodes	data table	
F start	writable_spec	function	

# number (context)

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

# os (basic lua)

getenv	function	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

## 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	
dowithfilesandreport	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	
${\tt expandedpathfromlist}$	function	D variables	
expandedpathlist	function	jobs	table
expandedpathlistfromvariable	function	F currentcomponent	
expandpath	function	F justacomponent	
expandpathfromvariable	function	D processors	
expansion	function	F usefile	
extendtexmfvariable	function	joinpath	function
find_file	function	load	function
find_files	function	loadbinfile	function
findbinfile	function	loaders	data table
findctxfile	function	loadlualib	function
finders	data table	loadtexfile	function
findfile	function	loadtime	function
findfiles	function	locateformat	function
findgivenfile	function	locators	data table
findgivenfiles	function	luacnfname	string
findpath	function	luacnfspec	string
findtexfile	function	luacnfstate	string
findwildcardfile	function	macros	table
findwildcardfiles	function	F convertfile	
formatofsuffix	function	F decodecomment	
formatofvariable	function	F enablecomment	
formats	data table	F encodecomment	
generators	data table	F preprocessed	
getenv	function	F processmkvi	

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

Litre	string	m	string
Metre	string	n	string
g	string	s	string
h	string	u	string
hz	string	v	string

## 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
escapedpattern	function
explode	function
find	function
format	function
gfind	function
gmatch	function
gsub	function
is_boolean	function
is_empty	function
len	function
limit	function
lower	function

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

### structures (context)

	C		
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 preset	
F place		F reset	
F register		floats	table
F setup		formulas	table
counters	table	F current	
F add		F simplify	
F analyze		F store	
F check		helpers	table
D collected		F analyze	
F compact		F formulanumber	
F converted		F merged	
F current		F page	
D data		F prefix	
F define		F prefixlastpage	
F first		F prefixpage	
F get		F simplify	
F last		F title	
F next		F touserdata	
F prev		itemgroups	table
F previous		F maxwidth	
F raw		F nofitems	
F record		F register	
F reset		lists	table
F restart		F analyze	
F restore		D cached	
F save		D collected	
F set		F doifstoredelse	
F setlevel		F enhance	
F setoffset		T enhancers	
F setown		F filter	
F setstate		F filtercollected	
F setvalue		F formulanumber	
F show		D internals	
T specials		F label	
F userpage		F location	
F subs		F number	
D tobesaved		D ordered	
<del>-</del>			

E	nago		E	listindex	
	page			number	
	popnesting				
	prefix			ordered	
	prefixednumber			postpone	
	prefixedpage			resetpostponed	
F	process			restore	
F	push		F	save	
	pushed			setstate	
	pushnesting			setsymbolpage	
	realpage		D	states	
	result			store	
	savednumber			title	
	savedprefixednumber		pages		table
	savedtitle			analyze	
	sectionnumber		_	collected	
	size			is_odd	
	title			number	
D	tobesaved			save	
F	userdata			tobesaved	
F	uservalue		proce	essors	table
mark	S	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			tostring	
F	fetchtwomarks		refei	rences	table
F	get		F	analyze	
F	number		F	checkedfile	
F	relate		F	checkedfileorurl	
F	reset		F	checkedprogram	
F	set		F	checkedrealpage	
F	show		F	checkedurl	
F	synchronize		D	collected	
F	title		U	componentsplitter	
Т	tracers		F	currentmetadata	
	F showtable		F	currentorder	
note	S	table	D	currentset	
F					
F	checkpagechange		F	define	
F	checkpagechange define			define defined	
			D		
	define		D D	defined	
F	define deltapage	vious	D D F	defined derived	
F F	define deltapage doifcontent	vious	D D F F	defined derived doifelse	
F F F	define deltapage doifcontent doifonsamepageaspre	vious	D D F F	defined derived doifelse enableinteraction	
F F F	define deltapage doifcontent doifonsamepageaspre flush	vious	D F F F D	defined derived doifelse enableinteraction enhance	
F F F F	define deltapage doifcontent doifonsamepageaspre flush flushpostponed	vious	D D F F D F	defined derived doifelse enableinteraction enhance executers expandcurrent export	
F F F F F	define deltapage doifcontent doifonsamepageaspre flush flushpostponed get	vious	D D F F D F	defined derived doifelse enableinteraction enhance executers expandcurrent	
F F F F F	define deltapage doifcontent doifonsamepageaspre flush flushpostponed get getn	vious	D D F F D F	defined derived doifelse enableinteraction enhance executers expandcurrent export	
F F F F F F	define deltapage doifcontent doifonsamepageaspre flush flushpostponed get getn getnumberpage	vious	D D F F D F	defined derived doifelse enableinteraction enhance executers expandcurrent export files	
F F F F F F	define deltapage doifcontent doifonsamepageaspre flush flushpostponed get getn getnumberpage getstate	vious	D D F F D F	defined derived doifelse enableinteraction enhance executers expandcurrent export files T data	
F F F F F F F	define deltapage doifcontent doifonsamepageaspre flush flushpostponed get getn getnumberpage getstate getsymbolpage	vious	D D F F D F T	defined derived doifelse enableinteraction enhance executers expandcurrent export files T data F define	

D	filters	Т	testrunners	
F	from		F inner	
F	get		F special	
F	getcurrentmetadata		F special operation	
F	getcurrentprefixspec		F special operation	with arguments
F	getinnermethod	T	testspecials	
F	getinternalreference		F deltapage	
D	handlers		Fi	
F	identify		F internal	
F	import		F page	
F	inject		F realpage	
	injectcurrentset		F section	
	internals		F userpage	
F	load	D	tobereferred	
F	loadpresets	D	tobesaved	
	mark		urls	
D	pages		T data	
	prefixsplitter		F define	
	productdata		F get	
•	T componentreferences		whatfrom	
	T components	regis		table
	T productreferences	_	analyze	00010
	programs		analyzed	
•	T data		collected	
	F define		compare	
	F get		define	
	realpageofpage		enhance	
	referencesplitter		extend	
	referred		filter	
			filtercollected	
	referredpage		finalize	
	registerfinalizer			
	registerinitializer		flush	
	registerpage		prepare	
	reportproblems		process	
	reset		sort	
	resolvers		store	
	F description		tobesaved	
	F float		unique userdata	
	F formula			+0610
	F note	secti		table
	F reference		autodepth	
	F section		cct	
	runners		collected	
	set		current	
	setandgetattribute		currentblock	
	setcomponent		currentid	
	setinnermethod		currentlevel	
	setinternalreference		defineautolevels	
	setnextinternal		depthnumber	
	setnextorder		finddata	
	specials		findnumber	
	splitcomponent		fullnumber	
	splitprefix		getcurrentlevel	
F	splitreference	F	getlevel	

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

D collected

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

### 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)

	. 17	_	_
debugger	table		appendgroup
F disable			autocompile
F enable			compile
F savestats		F	disableaction
F showstats		F	disablegroup
formatters	table	F	enableaction
F formatcolumns		F	enablegroup
F list		D	functions
F stripzeros		F	localize
garbagecollector	table	F	nodeprocessor
F check		F	prependaction
N criterium		F	prependgroup
B enabled		F	removeaction
lua	table	F	reset
F compile		F	setkind
packers	table	F	tostring
F hashed		sette	ers table
F new		F	disable
F pack		F	enable
F simplehashed		F	initialize
F strip		F	list
F unpack		F	new
N version		F	register
parsers	table	F	reset
F add_settings_t	o_array	F	show
F arguments_to_t	able	stora	age table
F array_to_strin	g	F	allocate
F getparameters		F	checked
F hash_to_string		F	mark
F listitem		F	marked
F make_settings_	to_hash_pattern	F	setinitializer
T patterns	<b>-</b>	F	sparse
U settings_to_a	array	strin	=
U settings_to_1	hash_a	F	collapsecrlf
U settings_to_1			newrepeater
U settings_to_1	hash_c		striplong
F settings_to_ar			tabtospace
F settings_to_ha	•	table	=
F settings_to_ha		F	accesstable
F settings_to_ha		F	definetable
F settings_to_se		F	encapsulate
F simple_hash_to			insertaftervalue
report	function		insertbeforevalue
sequencers	table		migratetable
F appendaction			removevalue

### visualizers (context)

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

# xml (context)

after	function	E	
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 function	F undefined	
checkerror		F upper fillin	function
checknamespace checkns	function function	filter	function function
		finalizers	
cleansed collect	function function		table
		T tex	
collect_elements	function function	F all	
collect_tags	function	F attribute	
<pre>collect_texts collected</pre>	function	F bibtexconcat	
collecteats	function	F bibtexshort	
	function	F chainattribute	
content	function	F command	
convert	function	F concat	
copy	function	F concatrange	
	function	F context F count	
cprint css	table	F ctxtext	
F colorspecification	cable	F default	
F fontspecification		F first	
F padding		F function	
defaulthandlers	table	F index	
D file	Jubic	F last	
D parsedxml		F lettered	
D string		F lower	
D tex		F match	
D verbose		F name	
defaultprotocol	string	F position	
delete	function	F reverse	
delete_element	function	F stripped	
each	function	F tag	
each_element	<del>function</del>	F tags	
elements	function	F text	
empty	function	F upper	
entities	data table	T xml	
erase	function	F all	
escaped	function	F att	
expressions	table	F attribute	
F boolean		F attributes	
F child		F chainattribute	
F contains		F count	
F count		F default	
F error		F elements	
F find		F empty	
F lower		F first	

F function		F unknown_dec_entity	
F index		F unknown_hex_entity	
F last		position	function
F match		privatecodes	table
F name		privatetoken	function
F position		process	function
F reverse		<del>process_attributes</del>	function
F table		process_elements	<b>function</b>
F tag		processattributes	function
F tags		profiled	table
F text		raw	function
F texts		registerentity	function
first	function	registerns	function
found	function	remap_name	<b>function</b>
functions	table	remap_namespace	<b>function</b>
getbuffer	function	remap_tag	<b>function</b>
gethandlers	function	remapname	function
${\tt gethandlersfunction}$	function	${\tt remapnamespace}$	function
include	function	${\tt remaptag}$	function
index	function	renamespace	function
inheritedconvert	function	replace	function
inject	function	replace_element	function
inject_element	function	resolvens	function
<pre>inject_element_after</pre>	function	root	function
<pre>inject_element_before</pre>	function	save	function
injectafter	function	selection	function
${ t injectbefore}$	function	serialize	function
insert	function	${ t sethandlersfunction}$	function
insert_element	function	setproperty	function
insert_element_after	function	settings	function
insert_element_before	function	specialhandler	table
insertafter	function	sprint	function
insertbefore	function	string	function
inspect	function	strip	function
is_valid	function	strip_whitespace	function
last	function	stripelement	function
load	function	stripleadingspaces	function
lpath	function	table	function
lpathcached	function function	text	function function
lpathcalls lshow	function	textonly tocdata	function
makestandalone	function	tocdata	function
makestandarone match	function		function
name	function	tostring toxml	function
name newhandlers	function	tprint	function
nodesettostring	function	traverse	function
originalload	function		function
package	function	unescaped unprivatized	function
package	function	withelement	function
parsedentitylpeg	userdata	withelements	function
pihandlers	table	wrap	function
placeholders	table	xmlns	table
F unknown any entity	J		04010

# 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		