

1 attributes backends bibtex blobs  
boolean buffers builders caches **callback**  
callbacks catcodes characters chemistry  
commands containers context converters  
**coroutine** ctxrunner **debug** dir directives  
document documentdata environment **epdf**  
experiments figures **file** floats **font**  
**fontloader** fonts global graphics **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** pagebuilders 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 vf visualizers xml **zip** **zlib**

# ConTEXt MkIV

# global (alias: \_G)

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

<code>noads</code>	<code>table</code>	<code>streams</code>	<code>table</code>
<code>node</code>	<code>table</code>	<code>string</code>	<code>table</code>
<code>nodes</code>	<code>table</code>	<code>stripmath</code>	<code>function</code>
<code>number</code>	<code>table</code>	<code>structures</code>	<code>table</code>
<code>os</code>	<code>table</code>	<code>table</code>	<code>table</code>
<code>outputpagetree</code>	<code>function</code>	<code>tex</code>	<code>table</code>
<code>package</code>	<code>table</code>	<code>texconfig</code>	<code>table</code>
<code>pagebuilders</code>	<code>table</code>	<code>texio</code>	<code>table</code>
<code>pairs</code>	<code>function</code>	<code>toboollean</code>	<code>function</code>
<code>parametersets</code>	<code>table</code>	<code>tocontext</code>	<code>function</code>
<code>pcall</code>	<code>function</code>	<code>token</code>	<code>table</code>
<code>pdf</code>	<code>table</code>	<code>tokens</code>	<code>table</code>
<code>physics</code>	<code>table</code>	<code>tonumber</code>	<code>function</code>
<code>print</code>	<code>function</code>	<code>tostring</code>	<code>function</code>
<code>profiler</code>	<code>table</code>	<code>trace_characters</code>	<code>boolean</code>
<code>protect</code>	<code>function</code>	<code>traceback</code>	<code>function</code>
<code>rawequal</code>	<code>function</code>	<code>tracers</code>	<code>table</code>
<code>rawget</code>	<code>function</code>	<code>trackers</code>	<code>table</code>
<code>rawset</code>	<code>function</code>	<code>type</code>	<code>function</code>
<code>regimes</code>	<code>table</code>	<code>typesetters</code>	<code>table</code>
<code>report_characters</code>	<code>function</code>	<code>unicode</code>	<code>table</code>
<code>require</code>	<code>function</code>	<code>unpack</code>	<code>function</code>
<code>resolvers</code>	<code>table</code>	<code>url</code>	<code>table</code>
<code>scripts</code>	<code>table</code>	<code>utf</code>	<code>table</code>
<code>select</code>	<code>function</code>	<code>utilities</code>	<code>table</code>
<code>set</code>	<code>table</code>	<code>vf</code>	<code>table</code>
<code>setfenv</code>	<code>function</code>	<code>visualizers</code>	<code>table</code>
<code>setmetatable</code>	<code>function</code>	<code>xml</code>	<code>table</code>
<code>socket</code>	<code>table</code>	<code>xmlconvert</code>	<code>function</code>
<code>sorters</code>	<code>table</code>	<code>xpcall</code>	<code>function</code>
<code>statistics</code>	<code>table</code>	<code>zip</code>	<code>table</code>
<code>status</code>	<code>table</code>	<code>zlib</code>	<code>table</code>
<code>storage</code>	<code>table</code>		

# attributes (context)

## colorintents table

N attribute  
D data  
F enable  
F handler  
F register  
D registered

## colors table

N attribute  
F cmyk  
F cmyktogray  
F cmyktorgb  
F colorcomponents  
B couple  
D data  
N default  
F defineintermediatecolor  
F definemixcolor  
F definemultitonecolor  
F defineprocesscolor  
F definesimplegray  
F definespotcolor  
F definetransparency  
F enable  
F filter  
F forcedmodel  
F forcesupport  
F formatcolor  
F formatgray  
F gray  
F graytohsv  
F handler  
F hsvtorgb  
F hsvtorgb  
F iccprofile  
F isblack  
N main  
S model  
F mpcolor  
F mpoptions  
U none  
F popset

F pushset  
F register  
D registered  
F registerspotcolor  
F rgb  
F rgbtocmyk  
F rgbtorgb  
F rgbtohsb  
N selector  
F setlist  
F setmodel  
D sets  
F spot  
F spotcolorname  
F spotcolorparent  
F spotcolorvalue  
B supported  
F transparencycomponents  
B triggering  
F usecolors  
F value  
D values  
B weightgray

## define function effects table

N attribute  
D data  
F enable  
F handler  
F register  
D registered  
D values

## handlers table list data table names data table negatives table

N attribute  
D data  
F enable  
F handler  
F register  
D registered

numbers	data table	F value	
ofnode	function	D values	
private	function	unsetvalue	number
showcurrent	function	viewerlayers	table
states	table	N attribute	
F disabletriggering		D data	
F enabletriggering		F define	
F finalize		F enable	
F initialize		F forcesupport	
F process		F handler	
F selective		B hasorder	
F stacked		D listwise	
F stacker		F register	
transparencies	table	D registered	
N attribute		F resolve_begin	
D data		F resolve_end	
F enable		F resolve_step	
F forcesupport		D scopes	
F handler		F setfeatures	
U none		F start	
F register		F stop	
D registered		B supported	
B supported		D values	
B triggering			

# backends (context)

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

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

# bibtex (context)

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



## blobs (context)

append	function
dimensions	function
dispose	function

new	function
pack	function
write	function

`boolean (context)`

`tocontext`   `function`

`tonumber`   `function`

## buffers (context)

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

# builders (context)

kernel            table

  F hyphenation  
  F kerning  
  F ligaturing  
  F mlist\_to\_hlist

paragraphs table

  T constructors  
    N attribute  
  F define  
  F disable  
  F enable  
  F handler  
  T methods  
    F default  
    F oneline

  D names  
  D numbers  
  F set  
  F start  
  F stop  
F keeptogether  
F registertogether  
T solutions  
  T splitters  
    F define

  F optimize  
  T registered  
  F reset  
  F set  
  F split  
  F start  
  F stop

  F tag

vspacing        table

  F analyze  
  D categories  
  F collapsevbox  
  T data  
    D map  
    D skip  
    D snapmethods  
  F definesnapmethod  
  B fixed  
  F pagehandler  
  F setmap  
  F setskip  
  F snapbox  
  F tocategories  
  F tocategory  
  F vboxhandler

## cache (context)

ask	boolean	is_writable	function
base	string	loadcontent	function
collapsecontent	function	loaddata	function
configfiles	function	more	string
contentstate	function	relocate	boolean
defaults	table	savecontent	function
define	function	savadata	function
direct	boolean	setfirstwritablefile	function
force	boolean	setluanames	function
getfirstreadablefile	function	tree	string
getreadablepaths	function	treehash	function
getwritablepath	function	usedpaths	function
hashed	function		

## callback (basic tex)

`find`      `function`  
`list`      `function`

`register`   `overloaded function`

## callbacks (context)

freeze	function
known	function
list	data table
pop	function

push	function
register	function
report	function
table	function

## catcodes (context)

names      data table  
numbers    data table

register   function



# characters (context)

activeoffset	number	is_spacing	data table
adobename	function	lcchars	data table
bidirectional	data table	lccode	function
blocks	data 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_syllable	function
description	function	remapentity	function
descriptions	data table	safechar	function
directions	table	setcodes	function
encodes	data table	shape	function
entities	data table	shaped	function
fallbacks	data table	shchars	data table
filters	data table	shcodes	data table
fromnumber	function	specialchars	data table
fschars	data table	specials	data table
fscodes	data table	subscripts	table
getrange	function	superscripts	table
graphemes	data table	synonyms	data table
hangul	table	tex	table
F decomposed		D accentmapping	
F description		F defineaccents	
F leadconsonant		F toutf	
T remapped		tonumber	function
initialize	function	ucchars	data table
is_character	data table	uccode	function
is_command	data table	uccodes	data table
is_letter	data table	unicodechar	function
is_mark	data table	upper	function

## chemistry (context)

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

## commands (context)

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

definebreakpoints	function	doifdimenstringelse	function
definecharacterspacing	function	doifdrawingblackelse	function
definechemical	function	doifelse	function
defineconversion	function	doifelsebuffer	function
definecounter	function	doifelsecounter	function
definedviewerlayer	function	doifelsecurrentfonthasfeature	function
definefield	function	doifelseintwopassdata	function
definefieldset	function	doifelsemarking	function
definefilefallback	function	doifelsemessage	function
definefilesynonym	function	doifelsemultipar	function
definefont_one	function	doifelseparallel	function
definefont_two	function	doifelsepositionsused	function
definefontfeature	function	doifelserangeonpage	function
definefontsolution	function	doifelserereference	function
defineinsertion	function	doifelsesavedfloat	function
defineintermediatecolor	function	doifelsespaces	function
definelabels	function	doifelseutfmathaccent	function
definelanguage	function	doifelsevisualizer	function
definelinkedlist	function	doiffielddcategoryelse	function
definemarking	function	doiffielddelse	function
definemultitonecolor	function	doiffielddsetelse	function
definernote	function	doiffiledefinedelse	function
defineparallel	function	doiffileexistelse	function
defineparbuilder	function	doiffirstcharelse	function
defineprocesscolor	function	doifinputfileelse	function
defineprogram	function	doifinsetelse	function
definereference	function	doifleapyearelse	function
definesectionlevels	function	doiflisthasentry	function
definespotcolor	function	doiflisthasnumberelse	function
definestructureblock	function	doiflisthaspageelse	function
definestructureset	function	doiflisthastitleelse	function
definetransparency	function	doiflocfileelse	function
definetwopasslist	function	doifnot	function
defineviewerlayer	function	doifnotcounter	function
defrostrandomseed	function	doifnotecontent	function
digits	function	doifnoteonsamepageasprevious	function
disableparbuilder	function	doifobjectreferencefoundelse	function
disableregime	function	doifolderversionelse	function
disablesPELLchecking	function	doifoverlappingelse	function
discardfromlist	function	doifparentfileelse	function
doanalyzeframedbox	function	doifposition	function
doif	function	doifpositionelse	function
doifblackelse	function	doifpositiononpage	function
doifcommonelse	function	doifpositionsonsamepageelse	function
doifcounter	function	doifpositionsonthispageelse	function

doifurldefinedelse	function	fontcollectionreport	function
doprocessstypescriptfile	function	fontcollectionreset	function
doreshapeframedbox	function	fontlookupgetkey	function
dostarttextfile	function	fontlookupgetkeyofindex	function
dostoptextfile	function	fontlookupinitialize	function
ecolumn	function	fontlookupnofound	function
elapsedtime	function	forceendjob	function
enablecolor	function	forcequitjob	function
enablecolorintents	function	format	function
enablefontcolorschemas	function	formatcolor	function
enableparbuilder	function	formatgray	function
enableregime	function	freezerandomseed	function
enablespellchecking	function	from	function
enabletransparency	function	getbuffer	function
enhancelinkedlist	function	getbufferctxlua	function
enhancelist	function	getbuffermkvi	function
enhancereference	function	getcommandline	function
erasebuffer	function	getctxfile	function
expandcurrentreference	function	getcurrentprefixspec	function
exportformdata	function	getcurrentreferencemetadata	function
exportreferences	function	getdefaultfieldvalue	function
featureattribute	function	getfieldcategory	function
featurelist	function	getfirstcharacter	function
feedback	function	getfirsttwopassdata	function
fetchallmarks	function	getfloatvariable	function
fetchmultipar	function	getinternalreference	function
fetchmultishape	function	getlasttwopassdata	function
fetchonemark	function	getmarking	function
fetchposboxes	function	getmessage	function
fetchtwomarks	function	getnotestate	function
filterdefaultreference	function	getprivateattribute	function
filterreference	function	getprivatechar	function
finalizebox	function	getprogram	function
findtwopassdata	function	getrandomcounta	function
firstcountervalue	function	getrandomcountb	function
firstinset	function	getrandomseed	function
flushfloat	function	getreadfilename	function
flushnotes	function	gettexbuffer	function
flushpostponedblocks	function	gettwopassdata	function
flushpostponednotes	function	gettwopassdatalist	function
fontchar	function	geturl	function
fontcollectionclone	function	grabbuffer	function
fontcollectiondefine	function	helpaction	function
fontcollectionprepare	function	helpreference	function
fontcollectionregister	function	hexstringtonumber	function

hour	function	mathrenderset	function
hyphenatedlist	function	maxitemwidth	function
hyphenatedurl	function	minute	function
D characters		mixcleanup	function
N lefthyphenmin		mixfinalize	function
D mapping		mixflushlist	function
N righthyphenmin		mixflushrest	function
F setcharacters		mixgetsplit	function
incrementedcounter	function	mixsetsplit	function
initializetextrackers	function	mixstate	function
injectcurrentreference	function	molecule	function
injectreference	function	month	function
inlinechemical	function	monthmnem	function
insertattachment	function	monthname	function
insertcomment	function	mpcolor	function
insertfield	function	mpoptions	function
insertionnumber	function	namedstructureuservariable	function
insertrenderingwindow	function	namedstructurevariable	function
insertsoundclip	function	nbfs	function
installedlanguages	function	nextcountervalue	function
installtextracker	function	nextparallel	function
languagenumber	function	nofdays	function
lastcountervalue	function	nofitems	function
lchexnumber	function	nofstackedfloats	function
lchexnumbers	function	notedeltapage	function
leapyear	function	notelistindex	function
linenumbersstageone	function	notenumberpage	function
linenumbersstagetwo	function	noteprefixednumber	function
listlabel	function	notesymbolpage	function
listlocation	function	notetitle	function
listprefixednumber	function	ntimes	function
listprefixedpage	function	number	function
listrealpage	function	numbers	function
listsize	function	objectnumber	function
listtitle	function	objectpage	function
listuserdata	function	octnumber	function
loadexamodes	function	octstringtonumber	function
loadfontgoodies	function	ordinal	function
loadspellchecklist	function	overloadbookmark	function
loadtypescriptfile	function	pagestaterealpage	function
loadvisualizer	function	parpos	function
locatefilepath	function	pdfrotation	function
locfilename	function	percentageof	function
logoptions	function	pgfxcolorspec	function
markregionbox	function	placeparallel	function

popfloat	function	registerlinenumbering	function
popitaliccorrection	function	registermaintextcolor	function
poplist	function	registernamespace	function
popregime	function	registerpostponedblock	function
popsectionblock	function	registerrendering	function
pos	function	registersoundclip	function
posplus	function	registerstructureprocessor	function
posstrut	function	registertransparency	function
postponenotes	function	registerunit	function
poswhd	function	relatemarking	function
posxy	function	removemissingcharacters	function
prepareMPvariable	function	renderingvar	function
preparebibtexsession	function	replacemissingcharacters	function
preparedfile	function	replacepospxywhd	function
presetsymbollist	function	resavefloat	function
presettabulate	function	resetcounter	function
prevcountervalue	function	resetfontfeature	function
processbuffer	function	resetfontsolution	function
processedfile	function	resetmarking	function
processedfiles	function	resetmathitalics	function
processfile	function	resetnullfont	function
processfilemany	function	resetparallel	function
processfilenone	function	resetreference	function
processfileonce	function	resetstructureprocessor	function
processlist	function	resettimer	function
pushfloat	function	restartcounter	function
pushitaliccorrection	function	restorecounter	function
pushlist	function	restorecurrentattributes	function
pushregime	function	restorenote	function
pushsectionblock	function	romannumerals	function
rawcharacter	function	runbuffer	function
rawcountervalue	function	safechar	function
rawdate	function	savebuffer	function
referencepagestate	function	savecounter	function
referencecerealpage	function	savecurrentattributes	function
registerattachment	function	savedlistnumber	function
registerbibtexentry	function	savedlistprefixednumber	function
registerbibtexfile	function	savedlisttitle	function
registerbookmark	function	savefloat	function
registerbuttons	function	savenote	function
registercolor	function	saveobject	function
registercolorintent	function	saveparallel	function
registeredviewerlayer	function	savestructureblock	function
registerhelp	function	savetaggedtwopassdata	function
registeritemgroup	function	savetwopassdata	function

second	function	setopenpageaction	function
selectstructureblock	function	setowncounter	function
setbreakpoints	function	setpagestate	function
setcharactercasing	function	setpagestaterealpageno	function
setcharactercleaning	function	setpagetransition	function
setcharacterkerning	function	setparbuilder	function
setcharacterspacing	function	setpos	function
setcharacterstripping	function	setrandomseed	function
setcloseddocumentaction	function	setrealign	function
setclosepageaction	function	setreferencearguments	function
setcolormodel	function	setreferenceattribute	function
setcounter	function	setreferenceoperation	function
setdataset	function	setsectionblock	function
setdigitsmanipulation	function	setstructureblockstate	function
setdirection	function	settagcombination	function
setdocumentenvironments	function	settagdescription	function
setdocumentmodes	function	settagdescriptionsymbol	function
setdocumentmodules	function	settagfigure	function
setfigurelookuporder	function	settaghighlight	function
setfontfeature	function	settagitemgroup	function
setfontofid	function	settagproperty	function
setfontsolution	function	settagsorting	function
setformat	function	settagsynonym	function
setformsmethod	function	settagtablecell	function
setinsertionlocation	function	settagtabulatecell	function
setinterfaceconstant	function	setupbookmarks	function
setinterfaceelement	function	setupcanvas	function
setinterfacemessage	function	setupcharacterspacing	function
setinterfacemessages	function	setupexport	function
setinterfacevariable	function	setupfontexpansion	function
setinternalreference	function	setupfontprotrusion	function
setlanguageexceptions	function	setupidentity	function
setlanguagesynonym	function	setupinsertion	function
setlayer	function	setupitaliccorrection	function
setmarking	function	setuplinenumbering	function
setmathalphabet	function	setvisual	function
setmathalternate	function	setxmpfile	function
setmathattribute	function	showassignerror	function
setmathitalics	function	showattributes	function
setmathstyle	function	showchardata	function
setnextinternalreference	function	showcounter	function
setnotestate	function	showfontparameters	function
setnotesymbolpage	function	showhyphenatedinlist	function
setobject	function	showmessage	function
setopendocumentaction	function	splitfilename	function



spotcolorname	function	testcase	function
spotcolorparent	function	textime	function
spotcolorvalue	function	transparencycomponents	function
startchemical	function	triggereffect	function
startcolorset	function	triggernegative	function
startcomponent	function	truefilename	function
startenvironment	function	typebuffer	function
startfontsolution	function	typefile	function
startparbuilder	function	typestring	function
startproduct	function	uchexnumber	function
startproject	function	uchexnumbers	function
startregime	function	undefinechemical	function
startsectionlevel	function	unicodechar	function
starttag	function	unit	function
starttext	function	unloadlanguage	function
startviewerlayer	function	updatefilenames	function
stopchemical	function	useMPLibrary	function
stopcolorset	function	useanyfile	function
stopcomponent	function	usecldfile	function
stopenvironment	function	usecolors	function
stopfontsolution	function	usecomponent	function
stopparbuilder	function	useenvironment	function
stopproduct	function	usefile	function
stopproject	function	usejavascriptpreamble	function
stopregime	function	usejavascriptscripts	function
stopsectionlevel	function	uselibrary	function
stoptag	function	useluafile	function
stoptext	function	usemodules	function
stopviewerlayer	function	usepath	function
storejavascriptcode	function	useproduct	function
storejavascriptpreamble	function	useproject	function
storenote	function	usesubpath	function
structureautocatcodedget	function	usesymbols	function
structurecatcodedget	function	usetexfile	function
structuregivencatcodedget	function	useurl	function
structurenumber	function	usexmlfile	function
structuretitle	function	usezipfile	function
structureuservariable	function	utfchar	function
structurevariable	function	utfmathclass	function
subcountervalues	function	utfmathcommand	function
subff	function	utfmathfiller	function
subfs	function	utfmathstretch	function
synchronizcolormodel	function	visual	function
synchronizemarking	function	vspacing	function
taggedmathfunction	function	vspacingcollapse	function

<code>vspacingdefine</code>	<code>function x_table_init_construct</code>	<code>function</code>
<code>vspacingsetamount</code>	<code>function x_table_init_reflow_height</code>	<code>function</code>
<code>vspacingsnap</code>	<code>function x_table_init_reflow_width</code>	<code>function</code>
<code>weekday</code>	<code>function x_table_next_row</code>	<code>function</code>
<code>weekdayname</code>	<code>function x_table_reflow_height</code>	<code>function</code>
<code>widthofstring</code>	<code>function x_table_reflow_width</code>	<code>function</code>
<code>writestatus</code>	<code>function x_table_set_construct</code>	<code>function</code>
<code>x_table_cleanup</code>	<code>function x_table_set_reflow_height</code>	<code>function</code>
<code>x_table_construct</code>	<code>function x_table_set_reflow_width</code>	<code>function</code>
<code>x_table_create</code>	<code>function year</code>	<code>function</code>
<code>x_table_flush</code>	<code>function</code>	

## containers (context)

`cleanname`    `function`  
`content`     `function`  
`define`     `function`  
`is_usable`   `function`

`is_valid`    `function`  
`read`        `function`  
`usecache`    `boolean`  
`write`       `function`

## converters (context)

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

## coroutine (basic lua)

<code>coco</code>	boolean	<code>running</code>	function
<code>create</code>	function	<code>status</code>	function
<code>cstacksize</code>	function	<code>wrap</code>	function
<code>resume</code>	function	<code>yield</code>	function

## ctxrunner (context)

load            function  
prepfiles   data table

resolve        function

## debug (basic lua)

<code>debug</code>	function	<code>getupvalue</code>	function
<code>getfenv</code>	function	<code>setfenv</code>	function
<code>gethook</code>	function	<code>sethook</code>	function
<code>getinfo</code>	function	<code>setlocal</code>	function
<code>getlocal</code>	function	<code>setmetatable</code>	function
<code>getmetatable</code>	function	<code>setupvalue</code>	function
<code>getregistry</code>	function	<code>traceback</code>	function

## dir (context)

collectpattern	function
current	function
expandname	function
glob	function
globfiles	function
globpattern	function

ls	function
makedirs	function
makedirs	function
pop	function
push	function



## directives (context)

<code>data</code>	data table
<code>disable</code>	function
<code>enable</code>	function
<code>list</code>	function

<code>name</code>	string
<code>register</code>	function
<code>report</code>	function
<code>show</code>	function

# document (context)

arguments	data table	D modules	
files	table	T ctxfile	
getargument	function	D environments	
getfilename	function	D modes	
options	table	D modules	
T commandline		setargument	function
D environments		setdefaultargument	function
D modes		setfilename	function

## environment (context)

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

## epdf (extra tex)

Array	function	PDFRectangle	function
Dict	function	open	function
Object	function	type	function

## experiments (context)

<code>data</code>	data table
<code>disable</code>	function
<code>enable</code>	function
<code>list</code>	function

<code>name</code>	string
<code>register</code>	function
<code>report</code>	function
<code>show</code>	function

# figures (context)

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

## file (basic lua)

<code>addsuffix</code>	function	<code>nametotable</code>	function
<code>basename</code>	function	<code>needs_updating</code>	function
<code>checksum</code>	function	<code>needsupdating</code>	function
<code>collapsepath</code>	function	<code>pathpart</code>	function
<code>copy</code>	function	<code>readdata</code>	function
<code>dirname</code>	function	<code>removesuffix</code>	function
<code>expandname</code>	function	<code>replacesuffix</code>	function
<code>extname</code>	function	<code>robustname</code>	function
<code>is_qualified_path</code>	function	<code>savechecksum</code>	function
<code>is_readable</code>	function	<code>savedata</code>	function
<code>is_rootbased_path</code>	function	<code>splitbase</code>	function
<code>is_writable</code>	function	<code>splitname</code>	function
<code>isreadable</code>	function	<code>splitpath</code>	function
<code>iswritable</code>	function	<code>strip</code>	function
<code>join</code>	function	<code>suffix</code>	function
<code>joinpath</code>	function	<code>suffixonly</code>	function
<code>loadchecksum</code>	function	<code>syncmtimes</code>	function
<code>nameonly</code>	function		

## floats (context)

<code>analysemethod</code>	<code>function</code>	<code>nofstacked</code>	<code>function</code>
<code>checkedpagefloat</code>	<code>function</code>	<code>pop</code>	<code>function</code>
<code>collect</code>	<code>function</code>	<code>push</code>	<code>function</code>
<code>consult</code>	<code>function</code>	<code>resave</code>	<code>function</code>
<code>flush</code>	<code>function</code>	<code>save</code>	<code>function</code>
<code>getvariable</code>	<code>function</code>	<code>stacked</code>	<code>function</code>



## font (basic tex)

`current`    `function`  
`define`    `function`  
`each`      `function`  
`fonts`     `table`  
`frozen`    `function`  
`getfont`   `function`

`id`        `function`  
`max`       `function`  
`nextid`    `function`  
`read_tfm` `function`  
`read_vf`   `function`  
`setfont`   `function`

## fontloader (extra tex)

<code>apply_afmfile</code>	<code>function</code>	<code>info</code>	<code>function</code>
<code>apply_featurefile</code>	<code>function</code>	<code>open</code>	<code>function</code>
<code>close</code>	<code>function</code>	<code>to_table</code>	<code>function</code>
<code>fields</code>	<code>function</code>	<code>totable</code>	<code>function</code>
<code>fullinfo</code>	<code>function</code>		

# fonts (context)

## analyzers table

- D initializers
- D methods
- F setstate
- B useunicodemarks

## checkers table

- F missing

## cid table

- F getmap
- F loadfile

## collections table

- F clonevector
- F define
- T definitions
- F prepare
- F process
- F registermain
- F report
- F reset
- T vectors

## constructors table

- F aftercopyingcharacters
- F applymanipulators
- F assignmathparameters
- B autocleanup
- F beforecopyingcharacters
- D cache
- F calculatyscale
- F checkedfeatures
- F checkedfilename
- F cleanupable
- F collectprocessors
- D designsizes
- D dontembed
- F enhanceparameters
- N factor
- F finalize
- F getfeatureaction
- F hashfeatures
- F hashinstance
- T hashmethods
  - F normal

## F virtual

- F initializefeatures

## T keys

### T character

- S depth
- S height
- S italic
- S width

### T description

- T boundingbox
- S depth
- S height
- S width

### T parameters

- S ascender
- S descender
- S designsize

### T expansion

- S auto
- S shrink
- S step

### S stretch

### S extendfactor

### S factor

### S hfactor

### S mathsize

### T protrusion

- S auto

### S quad

### S scaledpoints

### S scriptpercentage

### S scriptscriptpercentage

### S size

### S slantfactor

### S slantperpoint

### T spacing

- S extra

### S shrink

### S stretch

### S width

### T synonyms

- S em

S ex	N version	
S extra_space	current	function
S extraspace	currentid	function
S slant	definers	table
S space	F addlookup	
S space_shrink	F analyze	
S space_stretch	F applypostprocessors	
S spaceshrink	F checkedmode	
S spacestretch	F checkedscript	
S x_height	F current	
S units	S defaultlookup	
S vfactor	F define	
S xheight	F getspecification	
T properties	F loadfont	
S autoitalicamount	F makespecification	
T cidinfo	T methods	
S embedding	F install	
S encodingbytes	D variants	
S filename	F read	
S finalized	F register	
S fontname	F registered	
S format	F registersplit	
S fullname	F resetnullfont	
S hasitalics	F resolve	
S hasmath	T resolvers	
S mathitalics	F file	
S mode	F name	
S name	F spec	
S noglyphnames	definetypeface	function
S nostackmath	encodings	table
S psname	T agl	
S textitalics	D cache	
S virtualized	F is_known	
D loadedfonts	D known	
S namemode	F load	
F newfeatures	F make_unicode_vector	
F newhandler	D math	
N privateoffset	N version	
F readanddefine	expansions	data table
F registerfeature	formats	data table
B resolvevirtualtoo	goodies	table
F scale	T colorschemes	
F scaled	F coloring	
F setfactor	T data	
F setname	F enable	

D data	S Ccaron
T designsizes	S Ccedilla
D data	S Ccircumflex
F filename	S Cdotaccent
F register	S Dcaron
F getcompositions	S Dstroke
T list	S Eacute
F compositions	S Ebreve
F designsizes	S Ecaron
F expansions	S Ecircumflex
F featureset	S Ediaeresis
F files	S Edieresis
F mathematics	S Edotaccent
F protrusions	S Egrave
F solutions	S Emacron
F typefaces	S Eogonek
F load	S Eumlaut
F prepare_features	S Gbreve
F register	S Gcircumflex
F registerpostprocessor	S Gdotaccent
F report	S Hcircumflex
<b>handlers</b>	S Hstroke
<b>table</b>	S IJ
T afm	S IJligature
B addkerns	S Iacute
B addligatures	S Ibreve
B addtexligatures	S Icircumflex
B autoprefixed	S Idiaeresis
D cache	S Idieresis
D features	S Idotaccent
T helpdata	S Igrave
T bothkerned	S Imacron
S AE	S Iogonek
S AEligature	S Itilde
S Aacute	S Iumlaut
S Abreve	S Jcircumflex
S Acircumflex	S Kcedilla
S Adiaeresis	S Lacute
S Adieresis	S Lcaron
S Agrave	S Lcedilla
S Amacron	S Lslash
S Aogonek	S Lstroke
S Aring	S Nacute
S Atilde	S Ncaron
S Aumlaut	S Ncedilla
S Cacute	

S Ntilde	S Zcaron
S OE	S Zdotaccent
S OEligature	S aacute
S Oacute	S abreve
S Obreve	S acircumflex
S Ocircumflex	S adiaeresis
S Odiaeresis	S adieresis
S Odieresis	S ae
S Ograve	S aeligature
S Ohungarumlaut	S agrave
S Omacron	S amacron
S Oslash	S aogonek
S Ostroke	S aring
S Otilde	S atilde
S Oumlaut	S aumlaut
S Racute	S cacute
S Rcaron	S ccaron
S Rcedilla	S ccedilla
S Sacute	S ccircumflex
S Scaron	S cdotaccent
S Scedilla	S dcaron
S Scircumflex	S dotlessI
S Ssharp	S dotlessJ
S Tcaron	S dotlessi
S Tcedilla	S dotlessj
S Tstroke	S dstroke
S Uacute	S eacute
S Ubreve	S ebreve
S Ucircumflex	S ecaron
S Udiaeresis	S ecircumflex
S Udieresis	S ediaeresis
S Ugrave	S edieresis
S Uhungarumlaut	S edotaccent
S Umacron	S egrave
S Uogonek	S emacron
S Uring	S eogonek
S Utilde	S eumlaut
S Uumlaut	S gbreve
S Wcircumflex	S gcircumflex
S Yacute	S gdotaccent
S Ycircumflex	S hcircumflex
S Ydiaeresis	S hstroke
S Ydieresis	S iacute
S Ygrave	S ibreve
S Zacute	S icircumflex

S idiaeresis	S tstroke
S idieresis	S uacute
S idotaccent	S ubreve
S igrave	S ucircumflex
S ij	S udiaeresis
S ijligature	S udieresis
S imacron	S ugrave
S iogonek	S uhungarumlaut
S itilde	S umacron
S iumlaut	S uogonek
S jcircumflex	S uring
S kcedilla	S utilde
S lacute	S uumlaut
S lcaron	S wcircumflex
S lcedilla	S yacute
S lslash	S ycircumflex
S lstroke	S ydiaeresis
S nacute	S ydieresis
S ncaron	S ygrave
S ncedilla	S zacute
S ntilde	S zcaron
S oacute	S zdotaccent
S obreve	T leftkerned
S ocircumflex	S AE
S odiaeresis	S AEligature
S odieresis	S IJ
S oe	S IJligature
S oeligature	S OE
S ograve	S OEligature
S ohungarumlaut	S Ssharp
S omacron	S ae
S oslash	S aeligature
S ostroke	S ij
S otilde	S ijligature
S oumlaut	S oe
S racute	S oeligature
S rcaron	S ssharp
S rcedilla	T ligatures
S sacute	T f
S scaron	T ff
S scedilla	T fi
S scircumflex	T fl
S ssharp	T i
S tcaron	T s
S tcedilla	T rightkerned

S AE	D baselines
S AEligature	D features
S IJ	D languages
S IJligature	D scripts
S OE	N version
S OEligature	T pfb
S Ssharp	T tfm
S ae	D features
S aeligature	F setfeatures
S ij	T vf
S ijligature	T combinations
S oe	F combine
S oeligature	T combiner
S ssharp	D commands
T texligatures	F find
T endash	D helpers
T hyphen	D math
T quoteleft	D predefined
T quoteright	D whatever
F load	<b>hashes</b> <b>table</b>
F setfeatures	D characters
B syncspace	D csnames
N version	D descriptions
T otf	T dynamics
F addfeature	D emwidths
D cache	D exheights
T chainhandlers	D identifiers
F normal	D italics
F verbose	D lastmathids
F collectlookups	D marks
F dataset	D parameters
S defaultbasealternate	T processes
S defaultnodealternate	D properties
D enhancers	D quads
D features	D resources
F getalternate	T setdynamics
T glists	D xheights
F load	<b>helpers</b> <b>table</b>
F scriptandlanguage	F addprivate
F setcontextchain	F dimenfactor
F setdynamics	F fontpatternhassize
F setfeatures	F getdigitwidth
T statistics	F getparameters
D usedfeatures	F getprivatenode
T tables	F hasprivate



F nametoslot  
 F setdigitwidth  
 F splitfontpattern  
**iterators**            **table**  
 F characters  
 F descriptions  
 F glyphs  
**loggers**            **table**  
 T category\_to\_placeholder  
 S ll  
 S lm  
 S lo  
 S lt  
 S lu  
 S mc  
 S me  
 S mn  
 S nd  
 S nl  
 S no  
 S pc  
 S pd  
 S pe  
 S pf  
 S pi  
 S po  
 S ps  
 S sc  
 S sk  
 S sm  
 S so  
 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 collectfiles  
 F collectspec  
 T data  
 B enabled  
 F exists  
 T filters  
 F afm  
 F dfont  
 T list  
 T names  
 F otf  
 T paths  
 F pfb  
 F ttc  
 F ttf  
 S fontconfigfile  
 F getfilename  
 F getlookupkey  
 F getlookups  
 F getpaths  
 F identify  
 F is\_permitted  
 F list  
 F load  
 B loaded  
 F lookup  
 F noflookups  
 S osfontdirvariable  
 F readdata  
 F register  
 F registered  
 F resolve  
 F resolvedspecification  
 F resolvespec  
 B saved  
 F specification  
 D specifications

F	splitspec	
N	version	
F	writedata	
<b>protrusions</b>	<b>data table</b>	
<b>readers</b>	<b>table</b>	
F	afm	
F	check_lua	
F	check_tfm	
F	dfont	
F	lua	
F	opentype	
F	otf	
F	pfb	
D	sequence	
F	tfm	
F	ttc	
F	ttf	
<b>specifiers</b>	<b>table</b>	

D	contextmerged	
F	contextnumber	
D	contextnumbers	
D	contextsetups	
F	contexttostring	
F	mergecontext	
F	presetcontext	
F	registercontext	
F	showcontext	
F	splitcontext	
D	synonyms	
D	variants	
<b>symbols</b>	<b>table</b>	
F	uselibrary	
<b>tables</b>	<b>table</b>	
<b>tracers</b>	<b>table</b>	
<b>typefaces</b>	<b>data table</b>	

# graphics (context)

backgrounds table

F calculatemultipar

F fetchmultipar

F pair

F path

F point

## gzip (extra lua)

`close` function  
`lines` function

`open` function

## img (basic tex)

<code>boxes</code>	<code>function</code>
<code>checksize</code>	<code>function</code>
<code>clone</code>	<code>function</code>
<code>copy</code>	<code>function</code>
<code>immediatwrite</code>	<code>function</code>
<code>keys</code>	<code>function</code>
<code>new</code>	<code>function</code>
<code>node</code>	<code>function</code>

<code>ofindex</code>	<code>function</code>
<code>package</code>	<code>function</code>
<code>print</code>	<code>function</code>
<code>scan</code>	<code>function</code>
<code>serialize</code>	<code>function</code>
<code>totable</code>	<code>function</code>
<code>types</code>	<code>function</code>
<code>write</code>	<code>function</code>

# interactions (context)

## attachments table

F insert  
F register

## fields table

F clone  
F define  
F defineset  
F insert

## general table

F getidentity  
F setupidentity

## help table

F collect  
F reference  
F register

## javascripts table

F addtopreamble  
F code  
D codes  
F flushpreambles  
D functions  
D preambles

F setpreamble  
F storecode  
F storepreamble  
F usepreamblenow  
F usescripts

## linkedlists table

## pages table

F setpagetransition  
F setupcanvas

## references table

F setcloseddocument  
F setclosepage  
F setopendocument  
F setopenpage

## renderings table

F register  
F rendering  
F var

## soundclips table

F insert  
F register

# interfaces (context)

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

## io (basic lua)

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



# job (context)

**comment**            **function**

**datasets**          **table**

D collected

F extend

F getdata

F setdata

D tobesaved

**disablesave**      **function**

**files**            **table**

D collected

F context

B forcerun

F run

D tobesaved

**initialize**      **function**

**load**            **function**

**loadother**      **function**

**objects**          **table**

D collected

F get

F number

F page

F save

F set

D tobesaved

**pack**            **boolean**

**pagestates**      **table**

D collected

F extend

F realpage

F setstate

D tobesaved

**passes**          **table**

F check

D collected

F count

F define

F find

F first

F get

F getcollected

F getdata

F getfield

F gettobesaved

F inlist

F last

F list

F save

F savetagged

D tobesaved

**positions**      **table**

F b\_col

F b\_region

F c

D collected

F column

F copy

F depth

F e\_col

F e\_region

F enhance

F extra

F get

F getreserved

F hangafter

F hangindent

F height

F hsize

F leftskip

F lowerleft

F lowerright

F markregionbox

F n

F onsamepage

F overlapping

F p

F page

F paragraph

F parindent

F position

F r

F region

F replace

F rightskip

F set		D collected	
F setall		T components	
F setdim		T tobesaved	
D tobesaved		T branches	
F upperleft		S name	
F upperright		S type	
F width		<b>variables</b>	<b>table</b>
F x		D checksums	
F xy		D collected	
F y		F save	
<b>register</b>	<b>function</b>	D tobesaved	
<b>save</b>	<b>function</b>	<b>version</b>	<b>number</b>
<b>structure</b>	<b>table</b>		

## lang (basic tex)

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

<code>new</code>	<code>function</code>
<code>patterns</code>	<code>function</code>
<code>postexhyphenchar</code>	<code>function</code>
<code>posthyphenchar</code>	<code>function</code>
<code>preexhyphenchar</code>	<code>function</code>
<code>prehyphenchar</code>	<code>function</code>

# languages (context)

associate	function	posthyphenchar	function
associated	data table	prehyphenchar	function
association	function	registered	data table
counters	data table	righthyphenmin	function
current	function	setexceptions	function
data	data table	setsynonym	function
define	function	unload	function
getnumber	function	version	number
hyphenate	function	words	table
installed	function		
labels	table	F check	
F define		T data	
F split		F disable	
lefthyphenmin	function	F enable	
loadable	function	T enablers	
loadwords	function	B enables	
logger	table	F found	
F report		F load	
numbers	data table	T methods	
		N threshold	

# layouts (context)

status table  
F isleftpage

F leftorrightpagection

## lfs (extra lua)

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

# libraries (context)

basiclua data table  
basictex data table  
builtin data table

extralua data table  
extratex data table  
globals data table

## lmx (context)

convert	function	pv	function
escape	function	reset	function
get	function	result	function
htmfile	function	set	function
include	function	show	function
lmxfile	function	showdebuginfo	function
loadedfile	function	showerror	function
make	function	tv	function
new	function	type	function
overloaderror	function	urlescape	function
popupfile	function	variable	function
print	function	variables	data table



## logs (context)

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

## lpeg (basic lua)

<b>B</b>	<b>function</b>	<b>endstripper</b>	<b>function</b>
<b>C</b>	<b>function</b>	<b>firsttofsplit</b>	<b>function</b>
<b>Carg</b>	<b>function</b>	<b>frontstripper</b>	<b>function</b>
<b>Cb</b>	<b>function</b>	<b>instringchecker</b>	<b>function</b>
<b>Cc</b>	<b>function</b>	<b>is_lpeg</b>	<b>function</b>
<b>Cf</b>	<b>function</b>	<b>keeper</b>	<b>function</b>
<b>Cg</b>	<b>function</b>	<b>locale</b>	<b>function</b>
<b>Cmt</b>	<b>function</b>	<b>match</b>	<b>function</b>
<b>Cp</b>	<b>function</b>	<b>oneof</b>	<b>function</b>
<b>Cs</b>	<b>function</b>	<b>patterns</b>	<b>data table</b>
<b>Ct</b>	<b>function</b>	<b>print</b>	<b>function</b>
<b>P</b>	<b>function</b>	<b>replacer</b>	<b>function</b>
<b>R</b>	<b>function</b>	<b>secondofsplit</b>	<b>function</b>
<b>S</b>	<b>function</b>	<b>setmaxstack</b>	<b>function</b>
<b>UP</b>	<b>function</b>	<b>split</b>	<b>function</b>
<b>UR</b>	<b>function</b>	<b>splitat</b>	<b>function</b>
<b>US</b>	<b>function</b>	<b>splitter</b>	<b>function</b>
<b>V</b>	<b>function</b>	<b>stripper</b>	<b>function</b>
<b>anywhere</b>	<b>function</b>	<b>tsplitat</b>	<b>function</b>
<b>append</b>	<b>function</b>	<b>tsplitter</b>	<b>function</b>
<b>balancer</b>	<b>function</b>	<b>type</b>	<b>function</b>
<b>checkedsplit</b>	<b>function</b>	<b>utfchartabletopattern</b>	<b>function</b>
<b>count</b>	<b>function</b>	<b>version</b>	<b>function</b>
<b>counter</b>	<b>function</b>		

## ltn12 (extra lua)

**BLOCKSIZE**    **number**

**filter**        **table**

    F chain

    F cycle

**pump**          **table**

    F all

    F step

**sink**          **table**

    F chain

    F error

    F file

    F null

    F simplify

    F table

**source**        **table**

    F cat

    F chain

    F empty

    F error

    F file

    F rewind

    F simplify

    F string

## lua (basic tex)

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

# luatex (context)

<code>cleanup tempfiles</code>	<code>function</code>	<code>showjobstat</code>	<code>function</code>
<code>registerstartactions</code>	<code>function</code>	<code>showtexstat</code>	<code>function</code>
<code>registerstopactions</code>	<code>function</code>	<code>starttime</code>	<code>number</code>
<code>registertempfile</code>	<code>function</code>		

## lxml (context)

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

<code>F show</code>		<code>tag</code>	function
<code>F sort</code>		<code>text</code>	function
<code>splitid</code>	function	<code>tofile</code>	function
<code>startraw</code>	function	<code>toparameters</code>	function
<code>stopraw</code>	function	<code>toverbatim</code>	function
<code>store</code>	function	<code>verbatim</code>	function
<code>strip</code>	function	<code>withinindex</code>	function
<code>stripped</code>	function	<code>xmltexhandler</code>	data table



## math (basic lua)

<code>abs</code>	<code>function</code>	<code>max</code>	<code>function</code>
<code>acos</code>	<code>function</code>	<code>min</code>	<code>function</code>
<code>asin</code>	<code>function</code>	<code>mod</code>	<code>function</code>
<code>atan</code>	<code>function</code>	<code>modf</code>	<code>function</code>
<code>atan2</code>	<code>function</code>	<code>odd</code>	<code>function</code>
<code>ceil</code>	<code>function</code>	<code>pi</code>	<code>number</code>
<code>cos</code>	<code>function</code>	<code>pow</code>	<code>function</code>
<code>cosd</code>	<code>function</code>	<code>rad</code>	<code>function</code>
<code>cosh</code>	<code>function</code>	<code>random</code>	<code>function</code>
<code>deg</code>	<code>function</code>	<code>randomseed</code>	<code>function</code>
<code>div</code>	<code>function</code>	<code>round</code>	<code>function</code>
<code>even</code>	<code>function</code>	<code>setrandomseedi</code>	<code>function</code>
<code>exp</code>	<code>function</code>	<code>sin</code>	<code>function</code>
<code>floor</code>	<code>function</code>	<code>sind</code>	<code>function</code>
<code>fmod</code>	<code>function</code>	<code>sinh</code>	<code>function</code>
<code>frexp</code>	<code>function</code>	<code>sqrt</code>	<code>function</code>
<code>huge</code>	<code>number</code>	<code>tan</code>	<code>function</code>
<code>ldexp</code>	<code>function</code>	<code>tand</code>	<code>function</code>
<code>log</code>	<code>function</code>	<code>tanh</code>	<code>function</code>
<code>log10</code>	<code>function</code>		

# mathematics (context)

<b>addfallbacks</b>	function	<b>overloadparameters</b>	function
<b>alphabets</b>	data table	<b>privatebase</b>	number
<b>big</b>	function	<b>remapalphabets</b>	function
<b>boldmap</b>	table	<b>renderings</b>	table
<b>categories</b>	table	D mappings	
D functions		D numbers	
<b>checkaccentbaseheight</b>	function	D sets	
<b>checkprivateparameters</b>	function	<b>renderset</b>	function
<b>classes</b>	data table	<b>resetitalics</b>	function
<b>codes</b>	data table	<b>scaleparameters</b>	function
<b>define</b>	function	<b>setalternate</b>	function
<b>dimensions</b>	function	<b>setitalics</b>	function
<b>extrabase</b>	number	<b>syncboth</b>	function
<b>extras</b>	table	<b>syncname</b>	function
F add		<b>syncstyle</b>	function
F copy		<b>toname</b>	function
<b>fallbacks</b>	table	<b>tostyle</b>	function
F apply		<b>tweakaftercopyingfont</b>	function
F install		<b>tweakbeforecopyingfont</b>	function
<b>families</b>	data table	<b>tweaks</b>	table
<b>gaps</b>	table	F fixbadprime	
<b>getboth</b>	function	<b>utfmathclass</b>	function
<b>getstyle</b>	function	<b>utfmathcommand</b>	function
<b>initializeparameters</b>	function	<b>utfmathfiller</b>	function
<b>makefont</b>	function	<b>utfmathstretch</b>	function

## md5 (extra lua)

HEX	function
crypt	function
dec	function
decrypt	function

exor	function
hex	function
sum	function
sumhexa	function

# metapost (context)

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

## mime (extra lua)

**b64**           function  
**decode**       function  
**decodet**      table  
    F base64  
    F quoted-printable  
**dot**           function  
**encode**       function  
**encodet**      table  
    F base64  
    F quoted-printable  
**eol**           function  
**normalize**    function

**qp**            function  
**qpwrp**        function  
**stuff**        function  
**unb64**        function  
**unqp**         function  
**wrap**         function  
**wrapt**        table  
    F base64  
    F default  
    F quoted-printable  
    F text  
**wrp**           function

## mplib (extra tex)

<b>fields</b>	<b>function</b>	<b>pen_info</b>	<b>function</b>
<b>finders</b>	<b>table</b>	<b>preprocessed</b>	<b>function</b>
<b>F file</b>		<b>version</b>	<b>function</b>
<b>new</b>	<b>function</b>		

# 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)

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



# nodes (context)

after	function	F stripping	
aligned	function	F unprotectglyphs	
astable	function	has_attribute	function
before	function	idstosting	function
builders	table	ignorablefields	data table
F buildpage_filter		injections	table
F vpack_filter		F handler	
codes	data table	F setcursive	
concat	function	F setkern	
count	function	F setmark	
delete	function	F setpair	
destinations	table	installattributehandler	function
N attribute		is_display_math	function
T done		is_mirrored	data table
F handler		is_rotated	data table
T stack		kerncodes	data table
dimensionfields	data table	leftmarginwidth	function
dir_is_pop	data table	lines	table
dir_negation	data table	T boxed	
fasthpack	function	F register	
fields	function	F setup	
fillcodes	data table	F stage_one	
firstcharacter	function	F stage_two	
firstcharinbox	function	F stage_zero	
firstglyph	function	D data	
getattribute	function	F finalize	
gluecodes	data table	F number	
glyphcodes	data table	N scratchbox	
glyphdir_is_equal	data table	link	function
glyphdir_is_opposite	data table	list	function
glyphdir_is_orthogonal	data table	listablefields	data table
handlers	table	listcodes	data table
F accessibility		listtoutf	function
F backgrounds		load	function
F characters		locate	function
F checkforleaks		mathcodes	data table
F checkglyphs		noadcodes	data table
F cleanuppape		nodecodes	data table
F export		packlist	function
F finalize		pardir_is_equal	data table
F migrate		pardir_is_opposite	data table
F protectglyphs		pardir_is_parallel	data table

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

F set		F reset	
striprange	function	F set	
tasks	table	F setlist	
F actions		F fontchar	
F appendaction		F start	
F disableaction		T steppers	
F disablegroup		F check	
F enableaction		F codes	
F enablegroup		F features	
F freeze		F glyphs	
F freezegroup		F message	
F new		F messages	
F prependaction		F nofsteps	
F removeaction		F register	
F restart		F reset	
F showactions		F start	
F table		F stop	
texthdir_is_equal	data table	F stop	
texthdir_is_is	data table	T transparencies	
texthdir_is_opposite	data table	F reset	
texthdir_is_parallel	data table	F set	
tonodes	function	F setlist	
tosequence	function	unsetattribute	function
totable	function	unsetattributes	function
toutf	function	visualizebox	function
tracers	table	visualizers	table
T characters		F box	
F collect		F handler	
F equal		F setfont	
F indices		F setlayer	
F start		F setvisual	
F string		whatcodes	data table
F unicodes		whatsitcodes	data table
T colors		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
splitdimen	function	toscaledpoints	function
tobasepoints	function	toset	function
tobitstring	function	valid	function
tocentimeters	function		

## os (basic lua)

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

## package (basic lua)

<code>appendtolibpath</code>	<code>function</code>	<code>loaders</code>	<code>table</code>
<code>clibpaths</code>	<code>function</code>	<code>loadlib</code>	<code>function</code>
<code>config</code>	<code>string</code>	<code>path</code>	<code>string</code>
<code>cpath</code>	<code>string</code>	<code>preload</code>	<code>table</code>
<code>libpaths</code>	<code>function</code>	<code>prependtolibpath</code>	<code>function</code>
<code>loaded</code>	<code>table</code>	<code>seeall</code>	<code>function</code>

# pagebuilders (context)

mixedcolumns table

F cleanup

F finalize

F getlist

F getrest

F getsplit

F setsplit

## pdf (basic tex)

<code>immediateobj</code>	<code>function</code>
<code>mapfile</code>	<code>function</code>
<code>mapline</code>	<code>function</code>
<code>maxobjnum</code>	<code>function</code>
<code>obj</code>	<code>function</code>
<code>objtype</code>	<code>function</code>
<code>pageattributes</code>	<code>string</code>
<code>pageref</code>	<code>function</code>

<code>pageresources</code>	<code>string</code>
<code>pagesattributes</code>	<code>string</code>
<code>pdfmapfile</code>	<code>function</code>
<code>pdfmapline</code>	<code>function</code>
<code>print</code>	<code>function</code>
<code>refobj</code>	<code>function</code>
<code>registerannot</code>	<code>function</code>
<code>reserveobj</code>	<code>function</code>



# physics (context)

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

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

S Liter	S Phot
S Litre	S Poise
S Lumen	S Radian
S Lux	S Rev
S Maxwell	S Revolution
S Meter	S Second
S Metre	S Siemens
S Metric Ton	S Sievert
S Minute	S Steradian
S Mol	S Stilb
S Mole	S Stokes
S Nautical Mile	S Tesla
S Neper	S Tonne
S Newton	S Volt
S Oersted	S Watt
S Ohm	S Weber
S Pascal	S eV

## profiler (extra lua)

`pause`    `function`  
`resume`   `function`

`start`   `function`  
`stop`    `function`

## regimes (context)

disable	function
enable	function
pop	function
process	function

push	function
toregime	function
translate	function

# resolvers (context)

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

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

## scripts (context)

<b>categorytonumber</b>	data table	<b>handlers</b>	data table
<b>colors</b>	data table	<b>hash</b>	table
<b>defaults</b>	table	<b>installdataset</b>	function
N inter_char_half_shrink_factor		<b>installmethod</b>	function
N inter_char_half_stretch_factor		<b>numbertocategory</b>	data table
N inter_char_hangul_penalty		<b>numbertodataset</b>	data table
N inter_char_quarter_shrink_factor		<b>preprocess</b>	function
N inter_char_quarter_stretch_factor		<b>reset</b>	function
N inter_char_shrink_factor		<b>set</b>	function
N inter_char_stretch_factor			



## set (context)

`contains`    `function`  
`create`     `function`  
`tolist`    `function`

`tonumber`   `function`  
`totable`    `function`

# socket (extra lua)

<b>BLOCKSIZE</b>	number		F keep-open
<b>_DEBUG</b>	boolean		<b>skip</b> function
<b>bind</b>	function		<b>sleep</b> function
<b>choose</b>	function		<b>smtp</b> table
<b>connect</b>	function		S DOMAIN
<b>dns</b>	table		N PORT
		F gethostname	S SERVER
		F tohostname	N TIMEOUT
		F toip	S ZONE
<b>ftp</b>	table		F message
		S PASSWORD	F open
		N PORT	F send
		N TIMEOUT	<b>source</b> function
		S USER	<b>sourcect</b> table
		F command	F by-length
		F get	F default
		F open	F http-chunked
		F put	F until-closed
<b>gettime</b>	function		<b>tcp</b> function
<b>http</b>	table		<b>tp</b> table
		N PORT	N TIMEOUT
		N TIMEOUT	F connect
		S USERAGENT	<b>try</b> function
		F open	<b>udp</b> function
		F request	<b>url</b> table
<b>newtry</b>	function		F absolute
<b>protect</b>	function		F build
<b>select</b>	function		F build_path
<b>sink</b>	function		F escape
<b>sinkt</b>	table		F parse
		F close-when-done	F parse_path
		F default	F unescape
		F http-chunked	

## sorters (context)

**comparers**        table

    F basic

**constants**        table

    S defaultdigits

    S defaultlanguage

    S defaultmethod

    N digitmaximum

    N digitoffset

    N ignoredoffset

    N replacementoffset

**definitions**      data table

**firstofsplit**      function

**setlanguage**      function

**sort**                function

**splitters**         table

    F utf

**strip**              function

**tracers**           data table

**update**            function

## statistics (context)

checkfmtstatus	function
elapsedindeed	function
elapsedseconds	function
elapsedtime	function
enable	boolean
formatruntime	function
hastiming	function
memused	function
register	function
reportstorage	function

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

status (basic tex)

list function

## storage (context)

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

nofmodules	number
noftables	number
register	function
shared	data table
tofmodules	number
toftables	number

## streams (context)

collect	function
disable	function
enable	function
flush	function
initialize	function

push	function
start	function
stop	function
synchronize	function

## string (basic lua)

byte	function	quote	function
bytepairs	function	quoted	function
bytes	function	rep	function
char	function	reverse	function
characterpairs	function	split	function
characters	function	splitlines	function
checkedsplit	function	splitup	function
count	function	strip	function
dump	function	sub	function
escapedpattern	function	toboolean	function
explode	function	tocontext	function
find	function	todimen	function
format	function	topattern	function
gfind	function	toutf	function
gmatch	function	unquote	function
gsub	function	unquoted	function
is_boolean	function	upper	function
is_empty	function	utfcharacters	function
itself	function	utfsplitlines	function
len	function	utfvalues	function
limit	function	valid	function
lower	function	validutf	function
match	function		



# structures (context)

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

T bottomfloat		F hastitledata	
S location		D internals	
S name		F iscached	
N number		F label	
T endnote		F location	
S location		F number	
S name		D ordered	
N number		F page	
T footnote		F popnesting	
S location		F prefix	
S name		F prefixednumber	
N number		F prefixedpage	
T linenote		F process	
S location		D pushed	
S name		F pushnesting	
N number		F realpage	
T topfloat		T result	
S location		F sectionnumber	
S name		F size	
N number		F title	
F define		D tobesaved	
F getdata		F userdata	
F getlocation		F uservalue	
F getname		marks	table
F getnumber		D data	
F setlocation		F define	
F setup		F exists	
D stored		F fetch	
itemgroups	table	F fetchallmarks	
F maxwidth		F fetched	
F nofitems		F fetchonemark	
F register		F fetchtwomarks	
lists	table	F get	
F addto		F number	
F analyze		F relate	
D cached		F reset	
D collected		F set	
F discard		F show	
F enhance		F synchronize	
T enhancers		F title	
F filter		T tracers	
F filtercollected		F showtable	
F formulanumber		notes	table
F hasnumberdata		F checkpagechange	
F haspagedata		F define	

F doifonsamepageasprevious	F export
F get	T files
F getn	T data
F getnumberpage	F define
F getstate	F get
F getsymbolpage	F filter
F hascontent	F filterdefault
F internal	D filters
F internalid	F from
F listindex	F get
F ordered	F getcurrentmetadata
F postpone	F getcurrentprefixspec
F resetpostponed	F getinnermethod
F restore	F getinternalreference
F save	D handlers
F setstate	F identify
F setsymbolpage	F import
D states	F inject
F store	F injectcurrentset
<b>pages</b>	D internals
	F load
F analyze	F loadpresets
D collected	F mark
F is_odd	D pages
F number	U prefixsplitter
F save	D productdata
D tobesaved	T programs
<b>references</b>	T data
	F define
F analyze	F get
F checkedfile	F realpageofpage
F checkedfileorurl	U referencesplitter
F checkedprogram	D referred
F checkedrealpage	F referredpage
F checkedurl	F registerfinalizer
D collected	F registerinitializer
U componentsplitter	F registerpage
F currentmetadata	F reportproblems
F currentorder	F reset
D currentset	T resolvers
F define	F reference
D defined	F section
D derived	D runners
F enableinteraction	F set
F enhance	F setandgetattribute
D executers	
F expandcurrent	

F setcomponent	F store	
F setinnermethod	D tobесaved	
F setinternalreference	F unique	
F setnextinternal	F userdata	
F setnextorder	sections	table
D specials	F autodepth	
F splitcomponent	F cct	
F splitprefix	T collected	
F splitreference	F current	
T testrunners	F currentblock	
F inner	F currentid	
F special	F currentlevel	
F special operation	F depthnumber	
F special operation with arguments	F finddata	
T testspecials	F findnumber	
F deltapage	F fullnumber	
F i	F getcurrentlevel	
F internal	F getlevel	
F page	F getnumber	
F realpage	F internalreference	
F section	D levelmap	
F userpage	D levels	
D tobereferred	F load	
D tobесaved	F matchingtilldepth	
T urls	F numberatdepth	
T data	F numbers	
F define	F popblock	
F get	F prefixedconverted	
F valid	F pushblock	
F whatfrom	F register	
registers	D registered	
F analyze	F reportstructure	
F analyzed	F save	
D collected	F set	
F compare	F setblock	
F define	F setchecker	
F enhance	F setlevel	
F extend	F setnumber	
F filter	F somelevel	
F filtercollected	F structuredata	
F finalize	F title	
F flush	D tobесaved	
F prepare	F typesetnumber	
F process	F userdata	
F sort	B verbose	

F way		T data
<b>sets</b>	<b>table</b>	F detailedtag
F define		F getid
F get		F handler
F getall		D labels
D setlist		F last
<b>specials</b>	<b>table</b>	F lastinchain
D collected		T metadata
F retrieve		D properties
F store		F registerdata
D tobesaved		F registermetadata
<b>synonyms</b>	<b>table</b>	F restart
F analyzed		F setattributehash
D collected		F setcombination
F compare		F setdescription
F define		F setdescriptionsymbol
F filter		F setfigure
F finalize		F sethighlight
F flush		F setitemgroup
F meaning		F setproperty
F prepare		F setsorting
F process		F setsynonym
F register		F settablecell
F registerused		F settabulatecell
F sort		F start
F synonym		F stop
D tobesaved		D taglist
<b>tags</b>	<b>table</b>	T userdata

## table (basic lua)

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

## tex (basic tex)

<b>attribute</b>	table	<b>linebreak</b>	function
<b>badness</b>	function	<b>lists</b>	table
<b>box</b>	table	<b>luacatcodes</b>	number
<b>catcode</b>	table	<b>mathcode</b>	table
<b>conditionals</b>	data table	<b>modes</b>	data table
<b>constants</b>	data table	<b>nest</b>	table
<b>count</b>	table	<b>nilcatcodes</b>	number
<b>ctxcatcodes</b>	number	<b>notcatcodes</b>	number
<b>definefont</b>	function	<b>number</b>	function
<b>delcode</b>	table	<b>pdffontname</b>	function
<b>dimen</b>	table	<b>pdffontobjnum</b>	function
<b>enableprimitives</b>	function	<b>pdffontsize</b>	function
<b>error</b>	function	<b>pdfpageref</b>	function
<b>extraprimtives</b>	function	<b>pdfxformname</b>	function
<b>finish</b>	function	<b>primitives</b>	function
<b>fontidentifier</b>	function	<b>print</b>	function
<b>fontname</b>	function	<b>printlist</b>	function
<b>fprint</b>	function	<b>prtcacodes</b>	number
<b>get</b>	function	<b>romannumeral</b>	function
<b>getattribute</b>	function	<b>round</b>	function
<b>getbox</b>	function	<b>run</b>	function
<b>getcatcode</b>	function	<b>scale</b>	function
<b>getcount</b>	function	<b>set</b>	function
<b>getdelcode</b>	function	<b>setattribute</b>	function
<b>getdimen</b>	function	<b>setbox</b>	function
<b>getlcode</b>	function	<b>setcatcode</b>	function
<b>getlist</b>	function	<b>setcount</b>	function
<b>getmath</b>	function	<b>setdelcode</b>	function
<b>getmathcode</b>	function	<b>setdimen</b>	function
<b>getnest</b>	function	<b>setfalse</b>	function
<b>getsfcode</b>	function	<b>setlcode</b>	function
<b>getskip</b>	function	<b>setlist</b>	function
<b>gettoks</b>	function	<b>setmath</b>	function
<b>getuccode</b>	function	<b>setmathcode</b>	function
<b>hashtokens</b>	function	<b>setnest</b>	function
<b>ifs</b>	data table	<b>setsfcode</b>	function
<b>inicatcodes</b>	number	<b>setskip</b>	function
<b>iscount</b>	function	<b>settoks</b>	function
<b>isdimen</b>	function	<b>settrue</b>	function
<b>isskip</b>	function	<b>setuccode</b>	function
<b>istoken</b>	function	<b>sfcode</b>	table
<b>lccode</b>	table	<b>shipout</b>	function

<code>skip</code>	<code>table</code>	<code>trackers</code>	<code>data table</code>
<code>sp</code>	<code>function</code>	<code>txtcatcodes</code>	<code>number</code>
<code>sprint</code>	<code>function</code>	<code>type</code>	<code>function</code>
<code>systemmodes</code>	<code>data table</code>	<code>uccode</code>	<code>table</code>
<code>texcatcodes</code>	<code>number</code>	<code>uniformdeviate</code>	<code>function</code>
<code>toks</code>	<code>table</code>	<code>uprint</code>	<code>function</code>
<code>tpacatcodes</code>	<code>number</code>	<code>vrbcacodes</code>	<code>number</code>
<code>tpbcacodes</code>	<code>number</code>	<code>write</code>	<code>function</code>
<code>tprint</code>	<code>function</code>		



## texconfig (basic tex)

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

## texio (basic tex)

`write`      `function`

`write_nl`   `function`

## token (basic tex)

<code>command_id</code>	function	<code>get_next</code>	function
<code>command_name</code>	function	<code>is_activechar</code>	function
<code>create</code>	function	<code>is_expandable</code>	function
<code>csname_id</code>	function	<code>is_protected</code>	function
<code>csname_name</code>	function	<code>lookup</code>	function
<code>expand</code>	function		

## tokens (context)

bgroup            table  
collectors    table  
    T data  
    F defaultwords  
    F dowithwords  
    F flush  
    F handle  
    F install  
    F register  
    T registered  
    T remapper  
      F convert  
      T data  
      F store  
    F show

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

F set

## **breakpoints**      table

N attribute

F define

F handler

D mapping

T methods

T numbers

F set

F setreplacement

## **cases**              table

T actions

F handler

F register

F set

## **characters**      table

F handler

## **cleaners**          table

F handler

F set

## **digits**            table

T actions

N attribute

F handler

F set

## **directions**      table

F handler

F process

F set

## **fast\_hpack**      function

## **hpack**            function

## **italics**          table

F forcevariant

F handler

F reset

F set

## **kerns**            table

D factors

F handler

B keepligature

B keeptogether

D mapping

F set

## **margins**          table

F finalhandler

F globalhandler

F ha

F localhandler

F save

## **paragraphs**      table

N attribute

T droppers

F freeze

F set

F handler

F set

## **processors**      table

F apply

F register

F reset

F split

F startapply

F stopapply

F stripped

F tostring

## **spacings**          table

N attribute

F define

F handler

D mapping

T numbers

T frenchpunctuation

T characters

S name

N number

F reset

F set

F setup

## **tonodes**          function

## **vpack**            function

## **xtables**          table

F cleanup

F construct	F next_row
F create	F reflow_height
F flush	F reflow_width
F initialize_construct	F set_construct
F initialize_reflow_height	F set_reflow_height
F initialize_reflow_width	F set_reflow_width



# unicode (extra lua)

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

## url (context)

addscheme	function
barepath	function
construct	function
escape	function
filename	function

hashed	function
hasscheme	function
query	function
split	function
toquery	function

# utilities (context)

<b>debugger</b>	<b>table</b>		U settings_to_hash_c
F disable			F settings_to_array
F enable			F settings_to_hash
F savestats			F settings_to_hash_strict
F showstats			F settings_to_hash_tolerant
<b>formatters</b>	<b>table</b>		F settings_to_set
F formatcolumns			F simple_hash_to_string
F list			F splitthousands
F stripzeros			
<b>garbagecollector</b>	<b>table</b>	<b>report</b>	<b>function</b>
F check		<b>sequencers</b>	<b>table</b>
N criterium		F appendaction	
B enabled		F appendgroup	
<b>lua</b>	<b>table</b>	F compile	
F compile		F disableaction	
F loadedluacode		F disablegroup	
N nofstrippedbytes		F enableaction	
N nofstrippedchunks		F enablegroup	
F stripbytecode		D functions	
B stripcode		F localize	
F strippedbytecode		F new	
F strippedloadstring		F nodeprocessor	
<b>packers</b>	<b>table</b>	F prependaction	
F hashed		F prependgroup	
F new		F removeaction	
F pack		F setkind	
F simplehashed		F tostring	
F strip		<b>setters</b>	<b>table</b>
F unpack		F disable	
N version		F enable	
<b>parsers</b>	<b>table</b>	F initialize	
F add_settings_to_array		F list	
F arguments_to_table		F new	
F array_to_string		F register	
F getparameters		F reset	
F hash_to_string		F show	
F listitem		<b>stacker</b>	<b>table</b>
F make_settings_to_hash_pattern		F new	
T patterns		<b>storage</b>	<b>table</b>
U settings_to_array		F allocate	
U settings_to_hash_a		F checked	
U settings_to_hash_b		F mark	
		F marked	

F setinitializer  
F sparse  
**strings**                    table  
F collapsecrLf  
F newrepeater  
F nice  
F striplong  
F tabtospace  
**tables**                    table  
F accesstable

F definetable  
F encapsulate  
F insertaftervalue  
F insertbeforevalue  
F migratetable  
F removevalue  
**templates**                table  
F load  
F replace

## vf (context)

char	function
down	function
fontid	function
image	function
node	function
nop	function

pop	function
push	function
right	function
rule	function
special	function

## visualizers (context)

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

## xml (context)

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

F concat	F tags	
F concatrange	F text	
F context	F texts	
F count	F upperall	
F ctxtext	first	function
F default	found	function
F first	functions	table
F function	getbuffer	function
F index	gethandlers	function
F last	gethandlersfunction	function
F lettered	include	function
F lower	index	function
F lowerall	inheritedconvert	function
F match	inject	function
F name	inject_element	function
F position	inject_element_after	function
F reverse	inject_element_before	function
F stripped	injectafter	function
F tag	injectbefore	function
F tags	insert	function
F text	insert_element	function
F upper	insert_element_after	function
F upperall	insert_element_before	function
T xml	insertafter	function
F all	insertbefore	function
F att	insertcomment	function
F attribute	inspect	function
F attributes	is_valid	function
F cdata	kind	function
F chainattribute	last	function
F count	load	function
F default	lpath	function
F elements	lpathcached	function
F empty	lpathcalls	function
F first	lshow	function
F function	makestandalone	function
F index	match	function
F last	name	function
F lowerall	newhandlers	function
F match	nodesettostring	function
F name	originalload	function
F position	package	function
F reverse	parent	function
F table	parsedentitylpeg	userdata
F tag	pihandlers	table



placeholders	table	serialize	function
F unknown_any_entity		setcdata	function
F unknown_dec_entity		sethandlersfunction	function
F unknown_hex_entity		setProperty	function
position	function	settings	function
privatecodes	table	specialhandler	table
privatetoken	function	sprint	function
process	function	string	function
process_attributes	function	strip	function
process_elements	function	strip_whitespace	function
processattributes	function	stripelement	function
profiled	table	stripleadingspaces	function
raw	function	table	function
registerentity	function	text	function
registerns	function	textonly	function
remap_name	function	texttocdata	function
remap_namespace	function	tocdata	function
remap_tag	function	toelement	function
remapname	function	tostring	function
remapnamespace	function	toxml	function
remaptag	function	tprint	function
renamespace	function	traverse	function
replace	function	unescaped	function
replace_element	function	unprivatized	function
resolvns	function	withelement	function
root	function	withelements	function
save	function	wrap	function
selection	function	xmlns	table
separate	function		

## zip (extra lua)

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

## zlib (extra lua)

<code>adler32</code>	<code>function</code>	<code>decompress</code>	<code>function</code>
<code>compress</code>	<code>function</code>	<code>decompressobj</code>	<code>function</code>
<code>compressobj</code>	<code>function</code>	<code>version</code>	<code>function</code>
<code>crc32</code>	<code>function</code>		