

```
[page]
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```

callback

coroutine debug

epdf

file font fontloader

gzip img

io lang

lfs

lpeg ltn12 lua

math

md5

mime

mpilib

node

os package

pdf

profiler

socket

status

string

table tex

texconfig texio token

unicode

zip zlib

[page]  
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# global (alias: \_G)

1	table	io	table
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attributes	table	lang	table
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beginpage	function	layouts	table
bibtex	table	lfs	table
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containers	table	math	table
context	function	mathematics	table
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coroutine	table	metapost	table
debug	table	mime	table
dimen	function	module	function
dir	table	moduledata	table
directives	table	modules	table
document	table	mplib	table
documentdata	table	newline	function
dofile	function	newproxy	function
endpage	function	next	function
environment	table	noads	table
epdf	table	node	table
error	function	nodes	table
experiments	table	number	table
figures	table	os	table
file	table	outputpagestree	function
floats	table	package	table
font	table	pairs	function
fontloader	table	parametersets	table
fonts	table	pcall	function
gcinfo	function	pdf	table
getfenv	function	physics	table
getmetatable	function	print	function
getreadfilename	function	profiler	table
global	table	protect	function
gzip	table	rawequal	function
img	table	rawget	function
inspect	function	rawset	function
interactions	table	regimes	table
interfaces	table	report_characters	function

<code>require</code>	<code>function</code>	<code>tocontext</code>	<code>function</code>
<code>resolvers</code>	<code>table</code>	<code>token</code>	<code>table</code>
<code>scripts</code>	<code>table</code>	<code>tokens</code>	<code>table</code>
<code>select</code>	<code>function</code>	<code>tonumber</code>	<code>function</code>
<code>set</code>	<code>table</code>	<code>tostring</code>	<code>function</code>
<code>setfenv</code>	<code>function</code>	<code>trace_characters</code>	<code>boolean</code>
<code>setmetatable</code>	<code>function</code>	<code>traceback</code>	<code>function</code>
<code>socket</code>	<code>table</code>	<code>tracers</code>	<code>table</code>
<code>sorters</code>	<code>table</code>	<code>trackers</code>	<code>table</code>
<code>statistics</code>	<code>table</code>	<code>type</code>	<code>function</code>
<code>status</code>	<code>table</code>	<code>typesetters</code>	<code>table</code>
<code>storage</code>	<code>table</code>	<code>unicode</code>	<code>table</code>
<code>streams</code>	<code>table</code>	<code>unpack</code>	<code>function</code>
<code>string</code>	<code>table</code>	<code>url</code>	<code>table</code>
<code>stripmath</code>	<code>function</code>	<code>utf</code>	<code>table</code>
<code>structures</code>	<code>table</code>	<code>utilities</code>	<code>table</code>
<code>table</code>	<code>table</code>	<code>visualizers</code>	<code>table</code>
<code>tex</code>	<code>table</code>	<code>xml</code>	<code>table</code>
<code>texconfig</code>	<code>table</code>	<code>xpcall</code>	<code>function</code>
<code>texio</code>	<code>table</code>	<code>zip</code>	<code>table</code>
<code>toboolean</code>	<code>function</code>	<code>zlib</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 rgbtogray  
F rgbtohsv  
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

**ofnode**            function

**private**           function

**states**            table

F disabletriggering

F enabletriggering

F finalize

F initialize

F process

F selective

F stacked

**transparencies**   table

N attribute

D data

F enable

F forcesupport

F handler

U none

F register		F forcesupport
D registered		F handler
B supported		B hasorder
B triggering		D listwise
F value		F register
D values		D registered
<b>unsetvalue</b>	number	D scopes
<b>viewerlayers</b>	table	F setfeatures
N attribute		F start
D data		F stop
F define		B supported
F enable		D values

# backends (context)

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



T gray  
T green  
T red  
T rulecolors  
  T black  
  T blue  
  T gray  
  T green  
  T paleblue

T palegray  
T palegreen  
T palered  
T red  
F startslant  
T stopslant  
**registrations**  table  
**tables**          table

# 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)

<b>append</b>	function	<b>new</b>	function
<b>dimensions</b>	function	<b>pack</b>	function
<b>dispose</b>	function	<b>write</b>	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)

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

<code>find</code>	function
<code>list</code>	function
<code>register</code>	overloaded function



# callbacks (context)

<b>freeze</b>	function	<b>push</b>	function
<b>known</b>	function	<b>register</b>	function
<b>list</b>	data table	<b>report</b>	function
<b>pop</b>	function	<b>table</b>	function

## catcodes (context)

<code>names</code>	data table
<code>numbers</code>	data table
<code>register</code>	function

# characters (context)

<b>activeoffset</b>	number	<b>is_mark</b>	data table
<b>adobename</b>	function	<b>is_spacing</b>	data table
<b>bidirectional</b>	data table	<b>lcchars</b>	data table
<b>blocks</b>	data table	<b>lccode</b>	function
<b>casemap</b>	table	<b>lccodes</b>	data table
<b>categories</b>	data table	<b>lettered</b>	function
<b>category</b>	function	<b>lower</b>	function
<b>categorytags</b>	data table	<b>makeactive</b>	function
<b>combined</b>	data table	<b>math</b>	table
<b>contextname</b>	function	<b>mathpairs</b>	data table
<b>data</b>	data table	<b>ranges</b>	data table
<b>decomposed</b>	data table	<b>registerentities</b>	function
<b>define</b>	function	<b>remap_hangul_syllable</b>	function
<b>description</b>	function	<b>remapentity</b>	function
<b>descriptions</b>	data table	<b>setcodes</b>	function
<b>directions</b>	data table	<b>shape</b>	function
<b>encodes</b>	data table	<b>shaped</b>	function
<b>entities</b>	data table	<b>shchars</b>	data table
<b>fallbacks</b>	data table	<b>shcodes</b>	data table
<b>filters</b>	data table	<b>specialchars</b>	data table
<b>flush</b>	function	<b>specials</b>	data table
<b>fromnumber</b>	function	<b>subscripts</b>	table
<b>fschars</b>	data table	<b>superscripts</b>	table
<b>fscodes</b>	data table	<b>synonyms</b>	data table
<b>getrange</b>	function	<b>tex</b>	table
<b>graphemes</b>	data table		
<b>hangul</b>	table		
		D accentmapping	
		F defineaccents	
		F toutf	
		<b>tonumber</b>	function
		<b>ucchars</b>	data table
		<b>uccode</b>	function
		<b>uccodes</b>	data table
		<b>unicodechar</b>	function
		<b>upper</b>	function
<b>initialize</b>	function		
<b>is_character</b>	data table		
<b>is_command</b>	data table		
<b>is_letter</b>	data table		

## chemicals (context)

<b>component</b>	function	<b>moleculeparser</b>	userdata
<b>define</b>	function	<b>start</b>	function
<b>format</b>	string	<b>stop</b>	function
<b>inline</b>	function	<b>structures</b>	number
<b>instance</b>	string	<b>undefine</b>	function
<b>molecule</b>	function		

## commands (context)

Alphabetic	function	colorcomponents	function
Character	function	consultfloat	function
Characters	function	copyfileto	function
MPd	function	copyposition	function
MPh	function	counttwopassdata	function
MPll	function	currentcomponent	function
MPlr	function	currentdate	function
MPp	function	currentenvironment	function
MPplus	function	currentproduct	function
MPpos	function	currentproject	function
MPrest	function	currentregime	function
MPul	function	dayname	function
MPur	function	defineattribute	function
MPw	function	definebibtexsession	function
MPx	function	definecharacterspacing	function
MPxy	function	defineconversion	function
MPy	function	definedviewerlayer	function
Romannumerals	function	definefield	function
abjadnodotnumerals	function	definefieldset	function
abjadnumerals	function	definefilefallback	function
addff	function	definefilesynonym	function
addfs	function	definefont_one	function
addlinklistelement	function	definefont_two	function
addstructurecounter	function	definefontfeature	function
addtojavascriptpreamble	function	defineintermediatecolor	function
allinputpaths	function	definelinkedlist	function
alphabetic	function	definemarking	function
analyzefloatmethod	function	definemultitonecolor	function
applytochars	function	defineparallel	function
applytowords	function	defineprocesscolor	function
assignbuffer	function	definespotcolor	function
autofinishstructurelevels	function	definestructureblock	function
autonextspace	function	definestructurecounter	function
autonextstructurelevel	function	definestructureset	function
autosetups	function	definetransparency	function
autostarttext	function	definetwopasslist	function
autostoptext	function	defineviewerlayer	function
boolcase	function	defrostrandomseed	function
character	function	digits	function
characters	function	disableregime	function
checkcharactersinfont	function	disablespellchecking	function
checkedconversion	function	doanalyzeframedbox	function
checkedpagefloat	function	doif	function
checktwopassdata	function	doifblackelse	function
chineseallnumerals	function	doifcommonelse	function
chinesecapnumerals	function	doifdimenstringelse	function
chinesenumerals	function	doifdrawingblackelse	function
cleanfontname	function	doifelse	function
clonefield	function	doifelsebuffer	function
collectfloat	function	doifelsecurrentfonthasfeature	function
collecthelp	function	doifelseintwopassdata	function

doifelsemarking	function	fontcollectiondefine	function
doifelseparallel	function	fontcollectionprepare	function
doifelsesavedfloat	function	fontcollectionregister	function
doifelsespaces	function	fontcollectionreport	function
doifelsestructurecounter	function	fontcollectionreset	function
doifelsevisualizer	function	fontlookupgetkey	function
doiffielddcategoryelse	function	fontlookupgetkeyofindex	function
doiffielddelse	function	fontlookupinitialize	function
doiffielddsetelse	function	fontlookupnoffound	function
doiffiledefinedelse	function	forceendjob	function
doiffileexistelse	function	forcequitjob	function
doiffirstcharelse	function	format	function
doifinputfileelse	function	formatcolor	function
doifinsetelse	function	formatgray	function
doifleapyearelse	function	freezerandomseed	function
doiflocfileelse	function	getbuffer	function
doifnot	function	getbufferctxlua	function
doifnotstructurecounter	function	getbuffermkvi	function
doifolderversionelse	function	getdefaultfieldvalue	function
doifoverlappingelse	function	getfieldcategory	function
doifparentfileelse	function	getfirstcharacter	function
doifpositionelse	function	getfirsttwopassdata	function
doifpositionsonsamepageelse	function	getfloatvariable	function
doifpositionsonthispageelse	function	getlasttwopassdata	function
doifstructurecounter	function	getmarking	function
doifurldefinedelse	function	getprivateattribute	function
doprocесstypescriptfile	function	getprivatechar	function
doreshapeframedbox	function	getrandomcounta	function
dostarttextfile	function	getrandomcountb	function
dostoptextfile	function	getrandomseed	function
elapsedtime	function	getreadfilename	function
enablecolor	function	gettexbuffer	function
enablecolorintents	function	gettwopassdata	function
enablefontcolor schemes	function	gettwopassdatalist	function
enableregime	function	geturl	function
enablespellchecking	function	grabbuffer	function
enabletransparency	function	helpaction	function
enhancelinkedlist	function	helpreference	function
erasebuffer	function	hexstringtonumber	function
featureattribute	function	hour	function
featurelist	function	hyphenatedlist	function
feedback	function	hyphenatedurl	function
fetchallmarks	function	D characters	
fetchonemark	function	N lefthyphenmin	
fetchtwomarks	function	D mapping	
filterreference	function	N righthyphenmin	
finalizebox	function	F setcharacters	
findtwopassdata	function	incrementedstructurecounter	function
firstinlist	function	insertattachment	function
firststructurecounter	function	insertcomment	function
flushfloat	function	insertfield	function
flushpostponedblocks	function	insertrenderingwindow	function
fontchar	function	insertsoundclip	function
fontcollectionclone	function	isleapyear	function

languagenumber	function	rawdate	function
laststructurecounter	function	referencepagestate	function
lchexnumber	function	referencerealpage	function
lchexnumbers	function	registerattachment	function
leapyear	function	registerbibtexentry	function
loadctxprelist	function	registerbibtexfile	function
loadexamodes	function	registerbookmark	function
loadfontgoodies	function	registerbuttons	function
loadspellchecklist	function	registercolor	function
loadvisualizer	function	registercolorintent	function
locatefilepath	function	registeredviewerlayer	function
locfilename	function	registerhelp	function
maxitemwidth	function	registeritemgroup	function
minute	function	registermaintextcolor	function
molecule	function	registernamespace	function
month	function	registerpostponedblock	function
monthmnem	function	registersoundclip	function
monthname	function	registerstructureprocessor	function
mpcolor	function	registertransparency	function
mpoptions	function	registerunit	function
namedstructureuservariable	function	relatemarking	function
namedstructurevariable	function	removemissingcharacters	function
nbfs	function	replacemissingcharacters	function
nextparallel	function	replacepospxywhd	function
nextstructurecounter	function	resavefloat	function
nofdays	function	resetfontfeature	function
nofitems	function	resetmarking	function
nofstackedfloats	function	resetmathitalics	function
number	function	resetnullfont	function
octnumber	function	resetparallel	function
octstringtonumber	function	resetstructurecounter	function
ordinal	function	resetstructureprocessor	function
overloadbookmark	function	resettimer	function
pdfrotation	function	restartstructurecounter	function
percentageof	function	restorecurrentattributes	function
placeparallel	function	restorestructurecounter	function
popfloat	function	romannumerals	function
popitaliccorrection	function	runbuffer	function
prepareMPvariable	function	savebuffer	function
preparebibtexsession	function	savecurrentattributes	function
preparedfile	function	savefloat	function
presetsymbollist	function	saveparallel	function
presettabulate	function	savestructureblock	function
prevstructurecounter	function	savestructurecounter	function
processbuffer	function	savetaggedtwopassdata	function
processedfile	function	savetwopassdata	function
processedfiles	function	second	function
processfile	function	selectstructureblock	function
processfilemany	function	setcharactercleaning	function
processfilenone	function	setcharacterkerning	function
processfileonce	function	setcharacterspacing	function
pushfloat	function	setclosedocumentaction	function
pushitaliccorrection	function	setclosepageaction	function
rawcharacter	function	setcolormodel	function

setfontfeature	function	starttag	function
setfontofid	function	starttext	function
setformat	function	startviewerlayer	function
setformsmethod	function	stopcolorset	function
setmarking	function	stopcomponent	function
setmathalphabet	function	stopenvironment	function
setmathalternate	function	stopproduct	function
setmathattribute	function	stopproject	function
setmathitalics	function	stopregime	function
setmathstyle	function	stoptag	function
setopendocumentaction	function	stoptext	function
setopenpageaction	function	stopviewerlayer	function
setownstructurecounter	function	storejavascriptcode	function
setpagetransition	function	storejavascriptpreamble	function
setrandomseed	function	structureautocatcodedget	function
setrealign	function	structurecatcodedget	function
setreferencearguments	function	structurecountersubs	function
setreferenceoperation	function	structurecountervalue	function
setstructureblockstate	function	structuregivencatcodedget	function
setstructurecounter	function	structurenumber	function
settagcombination	function	structuretitle	function
settagdescription	function	structureuservariable	function
settagdescriptionsymbol	function	structurevariable	function
settagfigure	function	subff	function
settaghighlight	function	subfs	function
settagitemgroup	function	synchronizemarking	function
settagproperty	function	taggedmathfunction	function
settagsorting	function	testcase	function
settagsynonym	function	textime	function
settagtablecell	function	transparencycomponents	function
settagtabulatecell	function	triggereffect	function
setupbookmarks	function	triggernegative	function
setupcanvas	function	truefilename	function
setupcharacterspacing	function	typebuffer	function
setupexport	function	typefile	function
setupfontexpansion	function	typestring	function
setupfontprotrusion	function	uchexnumber	function
setupidentity	function	uchexnumbers	function
setupitaliccorrection	function	unicodechar	function
setxmpfile	function	unit	function
showchardata	function	updatefilenames	function
showfontparameters	function	useMPLibrary	function
showhyphenatedinlist	function	useanyfile	function
showstructurecounter	function	useclfile	function
splitfilename	function	usecolors	function
spotcolorname	function	usecomponent	function
spotcolorparent	function	useenvironment	function
spotcolorvalue	function	usefile	function
startcolorset	function	usejavascriptpreamble	function
startcomponent	function	usejavascriptscripts	function
startenvironment	function	uselibrary	function
startproduct	function	useluafile	function
startproject	function	usemodules	function
startregime	function	usepath	function



useproduct	function	widthofstring	function
useproject	function	writestatus	function
usesubpath	function	x_table_cleanup	function
usesymbols	function	x_table_construct	function
usetexfile	function	x_table_create	function
useurl	function	x_table_flush	function
usexmlfile	function	x_table_init_construct	function
usezipfile	function	x_table_init_reflow_height	function
utfchar	function	x_table_init_reflow_width	function
vspacing	function	x_table_next_row	function
vspacingcollapse	function	x_table_reflow_height	function
vspacingdefine	function	x_table_reflow_width	function
vspacingsetamount	function	x_table_set_construct	function
vspacingsnap	function	x_table_set_reflow_height	function
weekday	function	x_table_set_reflow_width	function
weekdayname	function	year	function

## containers (context)

<code>cleanname</code>	function
<code>content</code>	function
<code>define</code>	function
<code>is_usable</code>	function

<code>is_valid</code>	function
<code>read</code>	function
<code>usecache</code>	boolean
<code>write</code>	function

## converters (context)

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

## coroutine (basic lua)

<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

## debug (basic lua)

<b>debug</b>	function
<b>getfenv</b>	function
<b>gethook</b>	function
<b>getinfo</b>	function
<b>getlocal</b>	function
<b>getmetatable</b>	function
<b>getregistry</b>	function

<b>getupvalue</b>	function
<b>setfenv</b>	function
<b>sethook</b>	function
<b>setlocal</b>	function
<b>setmetatable</b>	function
<b>setupvalue</b>	function
<b>traceback</b>	function

## dir (context)

<code>collectpattern</code>	function
<code>current</code>	function
<code>expandname</code>	function
<code>glob</code>	function
<code>globfiles</code>	function
<code>globpattern</code>	function

<code>ls</code>	function
<code>makedirs</code>	function
<code>mkdirs</code>	function
<code>pop</code>	function
<code>push</code>	function

# directives (context)

<b>data</b>	data table	<b>name</b>	string
<b>disable</b>	function	<b>register</b>	function
<b>enable</b>	function	<b>report</b>	function
<b>list</b>	function	<b>show</b>	function

# document (context)

arguments	data table	setargument	function
files	table	setdefaultargument	function
getargument	function	setfilename	function
getfilename	function		



## environment (context)

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

# epdf (extra tex)

<b>Annot</b>	function	<b>Object</b>	function
<b>Annots</b>	function	<b>PDFRectangle</b>	function
<b>Array</b>	function	<b>open</b>	function
<b>Dict</b>	function	<b>type</b>	function

# experiments (context)

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

# figures (context)

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

## file (basic lua)

<code>addsuffix</code>	function	<code>joinpath</code>	function
<code>basename</code>	function	<code>loadchecksum</code>	function
<code>checksum</code>	function	<code>nameonly</code>	function
<code>collapsepath</code>	function	<code>nametotable</code>	function
<code>copy</code>	function	<code>needs Updating</code>	function
<code>dirname</code>	function	<code>readdata</code>	function
<code>expandname</code>	function	<code>removesuffix</code>	function
<code>extname</code>	function	<code>replacesuffix</code>	function
<code>is_qualified_path</code>	function	<code>robustname</code>	function
<code>is_readable</code>	function	<code>savechecksum</code>	function
<code>is_rootbased_path</code>	function	<code>savedata</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

# 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)

<b>current</b>	function
<b>define</b>	function
<b>each</b>	function
<b>fonts</b>	table
<b>frozen</b>	function
<b>getfont</b>	function

<b>id</b>	function
<b>max</b>	function
<b>nextid</b>	function
<b>read_tfm</b>	function
<b>read_vf</b>	function
<b>setfont</b>	function

## fontloader (extra tex)

<code>apply_afmfile</code>	function
<code>apply_featurefile</code>	function
<code>close</code>	function
<code>fields</code>	function
<code>fullinfo</code>	function

<code>info</code>	function
<code>open</code>	function
<code>to_table</code>	function
<code>totable</code>	function



# 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 applymanipulators
- F assignmathparameters
- B autocleanup
- D cache
- F calculatescale
- F checkedfeatures
- F checkedfilename
- F cleanuptable
- 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

- S extra\_space

- S extraspace

- S slant

- S space

- S space\_shrink

- S space\_stretch

- S spaceshrink

- S spacestretch

- S x\_height

- S units

- S vfactor

- S xheight

- T properties

- S autoitalicamount

- T cidinfo

- S embedding

- S encodingbytes

- S filename

- S finalized

S fontname	
S format	
S fullname	
S hasitalics	
S hasmath	
S mathitalics	
S mode	
S name	
S noglyphnames	
S nostackmath	
S psname	
S textitalics	
S virtualized	
D loadedfonts	
T mathactions	
S namemode	
F newfeatures	
N privateoffset	
F readanddefine	
F registerfeature	
B resolvevirtualtoo	
F scale	
F scaled	
F setfactor	
F setname	
N version	
<b>current</b>	function
<b>currentid</b>	function
<b>definers</b>	table
F addlookup	
F analyze	
F applypostprocessors	
F checkedmode	
F checkedscript	
F current	
S defaultlookup	
F define	
F getspecification	
F loadfont	
F makespecification	
T methods	
F install	
D variants	
F read	
F register	
F registered	
F registersplit	
F resetnullfont	
F resolve	
T resolvers	
F file	
F name	
F spec	
<b>definetypeface</b>	function

<b>encodings</b>	table
T agl	
D cache	
F is_known	
D known	
F load	
F make_unicode_vector	
D math	
N version	
<b>expansions</b>	data table
<b>formats</b>	data table
<b>goodies</b>	table
T colorschemes	
F coloring	
T data	
F enable	
F getcompositions	
T list	
F compositions	
F expansions	
F featureset	
F files	
F mathematics	
F protrusions	
F solutions	
F typefaces	
F load	
F prepare_features	
F register	
F registerpostprocessor	
F report	
<b>handlers</b>	table
T afm	
B addkerns	
B addligatures	
B addtextligatures	
B autoprefixed	
D cache	
D features	
F load	
F setfeatures	
B syncspace	
N version	
T otf	
F addfeature	
D cache	
T chainhandlers	
F normal	
F verbose	
F collectlookups	
F dataset	
S defaultbasealternate	
S defaultnodealternate	
D enhancers	

D features		F descriptions	
F getalternate		F glyphs	
T glists		<b>loggers</b>	table
F load		T category_to_placeholder	
F scriptandlanguage		S ll	
F setcontextchain		S lm	
F setdynamics		S lo	
F setfeatures		S lt	
T tables		S lu	
D baselines		S mc	
D features		S me	
D languages		S mn	
D scripts		S nd	
N version		S nl	
T pfb		S no	
T tfm		S pc	
D features		S pd	
F setfeatures		S pe	
T vf		S pf	
T combinations		S pi	
F combine		S po	
T combiner		S ps	
D commands		S sc	
F find		S sk	
D helpers		S sm	
D math		S so	
D predefined		F format	
D whatever		F onetimemessage	
<b>hashes</b>	table	F register	
D characters		F reportdefinedfonts	
D csnames		F reportusedfeatures	
D descriptions		<b>mappings</b>	table
T dynamics		F addtounicode	
D identifiers		F fromunicode16	
D italics		F loadfile	
D marks		F loadline	
D parameters		F loadlumtable	
T processes		F makenameparser	
D properties		F reset	
D quads		F tounicode16	
D resources		F tounicode16sequence	
T setdynamics		<b>names</b>	table
D xheights		S basename	
<b>helpers</b>	table	B be_clever	
F addprivate		D cache	
F dimenfactor		F cleanfilename	
F getdigitwidth		F cleannname	
F getparameters		F collect	
F getprivatenode		F collectfiles	
F hasprivate		F collectspec	
F nametoslot		T data	
F setdigitwidth		B enabled	
<b>iterators</b>	table	F exists	
F characters		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  
**protrusions** data table  
**readers** table  
 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  
**specifiers** table  
 D contextmerged  
 F contextnumber  
 D contextnumbers  
 D contextsetups  
 F contexttosting  
 F mergecontext  
 F presetcontext  
 F registercontext  
 F showcontext  
 F splitcontext  
 D synonyms  
 D variants  
**symbols** table  
 F uselibrary  
**tables** table  
**tracers** table  
**typefaces** data table

## 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)

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



## io (basic lua)

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

# job (context)

<b>comment</b>	function
<b>disablesave</b>	function
<b>files</b>	table
D collected	
F context	
B forcerun	
F run	
D tobesaved	
<b>initialize</b>	function
<b>load</b>	function
<b>loadother</b>	function
<b>objects</b>	table
D collected	
F doifelse	
F get	
F number	
F page	
F save	
F set	
D tobesaved	
<b>pack</b>	boolean
<b>passes</b>	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	

<b>positions</b>	table
D collected	
F copy	
F depth	
F extra	
F height	
F lowerleft	
F lowerright	
F onsamepage	
F overlapping	
F page	
F position	
F replace	
F setall	
F setdim	
F setraw	
D tobesaved	
F upperleft	
F upperright	
F v	
F width	
F x	
F xy	
F y	
<b>register</b>	function
<b>save</b>	function
<b>structure</b>	table
D collected	
T tobesaved	
T branches	
S name	
S type	
<b>variables</b>	table
D checksums	
D collected	
F save	
D tobesaved	
<b>version</b>	number

# lang (basic tex)

<code>clean</code>	<code>function</code>	<code>new</code>	<code>function</code>
<code>clear_hyphenation</code>	<code>function</code>	<code>patterns</code>	<code>function</code>
<code>clear_patterns</code>	<code>function</code>	<code>postexhyphenchar</code>	<code>function</code>
<code>exceptions</code>	<code>function</code>	<code>posthyphenchar</code>	<code>function</code>
<code>hyphenate</code>	<code>function</code>	<code>preexhyphenchar</code>	<code>function</code>
<code>hyphenation</code>	<code>function</code>	<code>prehyphenchar</code>	<code>function</code>
<code>id</code>	<code>function</code>		

# languages (context)

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

# layouts (context)

```
status table
  F isleftpage
  F leftorrightpagection
```

## lfs (extra lua)

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

# libraries (context)

`basiclua` data table  
`basictex` data table  
`builtin` data table

`extralua` data table  
`extratex` data table  
`globals` data table

## lmx (context)

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



# logs (context)

<b>application</b>	function	<b>setmessenger</b>	function
<b>categories</b>	function	<b>setprogram</b>	function
<b>direct</b>	function	<b>settarget</b>	function
<b>disable</b>	function	<b>settranslations</b>	function
<b>enable</b>	function	<b>show</b>	function
<b>extendbanner</b>	function	<b>show_close</b>	function
<b>flush</b>	function	<b>show_load</b>	function
<b>help</b>	function	<b>show_open</b>	function
<b>messenger</b>	function	<b>simple</b>	function
<b>new</b>	function	<b>simpleline</b>	function
<b>newline</b>	function	<b>simplelines</b>	function
<b>poptarget</b>	function	<b>start_page_number</b>	function
<b>pushtarget</b>	function	<b>status</b>	function
<b>report</b>	function	<b>stop_page_number</b>	function
<b>report_job_stat</b>	function	<b>subdirect</b>	function
<b>reportbanner</b>	function	<b>subreport</b>	function
<b>reporter</b>	function	<b>system</b>	function
<b>reportline</b>	function	<b>texerrormessage</b>	function
<b>reportlines</b>	function	<b>writer</b>	function
<b>setformats</b>	function		

# lpdf (context)

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

## lpeg (basic lua)

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

# ltn12 (extra lua)

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

## lua (basic tex)

<b>bytecode</b>	<b>table</b>	<b>messages</b>	data table
bytedata	data table	<b>name</b>	<b>table</b>
bytdone	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>cleanuptempfiles</code>	function	<code>showjobstat</code>	function
<code>registerstartactions</code>	function	<code>showtexstat</code>	function
<code>registerstopactions</code>	function	<code>starttime</code>	number
<code>registertempfile</code>	function		

# lxml (context)

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

## math (basic lua)

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



# 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>families</b>	data table	<b>tostyle</b>	function
<b>gaps</b>	table	<b>utfmathclass</b>	function
<b>getboth</b>	function	<b>utfmathcommand</b>	function
<b>getstyle</b>	function	<b>utfmathfiller</b>	function
<b>initializeparameters</b>	function	<b>utfmathstretch</b>	function
<b>makefont</b>	function		

# md5 (extra lua)

HEX	function	exor	function
crypt	function	hex	function
dec	function	sum	function
decrypt	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>resettexttexts</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>	function	<b>pen_info</b>	function
<b>new</b>	function	<b>version</b>	function

# noads (context)

handlers      table

- F check
- F collapse
- F families
- F italics
- F relocate
- F render
- F resize
- F respace
- F tags
- F unscript

F variants

process      function  
processors   table

- T collapse
- F mlist\_to\_hlist
- T relocate
- T render
- T resize
- T respace
- T unscript

## node (basic tex)

<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)

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



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

T steppers	F start	
F check	F stop	
F codes	F stop	
F features	<b>unsetattribute</b>	function
F glyphs	<b>unsetattributes</b>	function
F message	<b>visualizebox</b>	function
F messages	<b>whatcodes</b>	data table
F nofsteps	<b>whatsitcodes</b>	data table
F register	<b>writable_spec</b>	function
F reset		

## number (context)

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

## os (basic lua)

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

## package (basic lua)

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

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

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



## profiler (extra lua)

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

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

# regimes (context)

<b>disable</b>	function	<b>process</b>	function
<b>enable</b>	function	<b>push</b>	function
<b>pop</b>	function	<b>translate</b>	function

# resolvers (context)

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

F decodecomment		schemes	table
F enablecomment		T cleaners	
F encodecomment		F md5	
F preprocessed		F none	
F processmkvi		F strip	
F version		F cleanname	
maxreadlevel	number	F install	
methodhandler	function	N threshold	
newinstance	function	setenv	function
openbinfile	function	setinstance	function
openers	data table	settrace	function
openfile	function	showpath	function
opentextfile	function	simplescanfiles	function
ownpath	string	splitconfigurationpath	function
prefixes	data table	splitexpansions	function
prependhash	function	splitmethod	function
registerextrapath	function	splitpath	function
registerfile	function	suffixes	data table
registerfilehash	function	suffixmap	data table
registerintrees	function	suffixofformat	function
registermethod	function	texdatablob	function
registerzipfile	function	unexpandedpath	function
relations	data table	unexpandedpathlist	function
renew	function	unresolve	function
repath	function	updaterelations	function
reset	function	updatescript	function
resetextrapath	function	usezipfile	function
resetresolve	function	validatedpath	function
resolve	function	variable	function
savers	data table	variableofformat	function
scandata	function	variableofformatorsuffix	function
scanfiles	function	wildcardpattern	function

## scripts (context)

<code>categorytonumber</code>	data table
<code>colors</code>	data table
<code>handlers</code>	data table
<code>hash</code>	table
<code>installdataset</code>	function
<code>installmethod</code>	function

<code>numbertocategory</code>	data table
<code>numbertodataset</code>	data table
<code>preprocess</code>	function
<code>reset</code>	function
<code>set</code>	function

# set (context)

contains	function	tonumber	function
create	function	totable	function
tolist	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>sourcet</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)

<b>comparers</b>	table	<b>definitions</b>	data table
F basic		<b>firstofsplit</b>	function
<b>constants</b>	table	<b>setlanguage</b>	function
S defaultdigits		<b>sort</b>	function
S defaultlanguage		<b>splitters</b>	table
S defaultmethod		F utf	
N digitmaximum		<b>strip</b>	function
N digitsoffset		<b>tracers</b>	data table
N ignoredoffset		<b>update</b>	function
N replacementoffset			



## statistics (context)

<code>checkfmtstatus</code>	function	<code>resettiming</code>	function
<code>elapsedindeed</code>	function	<code>runtime</code>	function
<code>elapsedseconds</code>	function	<code>savefmtstatus</code>	function
<code>elapsedtime</code>	function	<code>show</code>	function
<code>enable</code>	boolean	<code>showjobstat</code>	function
<code>formatruntime</code>	function	<code>starttiming</code>	function
<code>hastiming</code>	function	<code>stoptiming</code>	function
<code>memused</code>	function	<code>threshold</code>	number
<code>register</code>	function	<code>timed</code>	function
<code>reportstorage</code>	function		

status (basic tex)

list function

# storage (context)

allocate	function	min	number
data	table	nofmodules	number
evaluators	table	noftables	number
mark	function	register	function
marked	function	shared	data table
max	number		

## streams (context)

<code>collect</code>	function
<code>disable</code>	function
<code>enable</code>	function
<code>flush</code>	function
<code>initialize</code>	function

<code>push</code>	function
<code>start</code>	function
<code>stop</code>	function
<code>synchronize</code>	function

## string (basic lua)

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

# structures (context)

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

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

- F import
- F inject
- F injectcurrentset
- D internals
- F load
- F loadpresets
- F mark
- D pages
- U prefixsplitter
- T productdata
  - T componentreferences
  - T components
  - T productreferences
- T programs
  - T data
  - F define
  - F get
- F realpageofpage
- U referencesplitter
- D referred
- F referredpage
- F registerfinalizer
- F registerinitializer
- F registerpage
- F reportproblems
- F reset
- T resolvers
  - F reference
  - F section
- D runners
- F set
- F setandgetattribute
- F setcomponent
- F setinnermethod
- F setinternalreference
- F setnextinternal
- F setnextorder
- D specials
- F splitcomponent
- F splitprefix
- F splitreference
- T testrunners
  - F inner
  - F special
  - F special operation
  - F special operation with arguments
- T testspecials
  - F deltapage
  - F i
  - F internal
  - F page
  - F realpage
  - F section
  - F userpage

- D tobereferred
- D tobesaved
- T urls
  - T data
  - F define
  - F get
  - F whatfrom
- registers** table
  - F analyze
  - F analyzed
  - D collected
  - F compare
  - F define
  - F enhance
  - F extend
  - F filter
  - F filtercollected
  - F finalize
  - F flush
  - F prepare
  - F process
  - F sort
  - F store
  - D tobesaved
  - F unique
  - F userdata
- sections** table
  - F autodepth
  - F cct
  - T collected
  - F current
  - F currentblock
  - F currentid
  - F currentlevel
  - F defineautolevels
  - F depthnumber
  - F finddata
  - F findnumber
  - F fullnumber
  - F getcurrentlevel
  - F getlevel
  - F getnumber
  - F internalreference
  - D levelmap
  - D levels
  - F load
  - F matchingtilldepth
  - F numberatdepth
  - F numbers
  - F popblock
  - F prefixedconverted
  - F pushblock
  - F register
  - D registered



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

## table (basic lua)

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

## tex (basic tex)

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

## 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)

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

# tokens (context)

bgroup	table	T show_methods	
collectors	table	F a	
T data		F b	
F defaultwords		F c	
F dowithwords		F showtoken	
F flush		F test	
F handle		F trace	
F install		egroup	table
F register		hbox	table
T registered		letter	function
T remapper		letters	function
F convert		other	function
T data		vbox	table
F store		vtop	table
F show			

# tracers (context)

count	function	name	function
cs	function	primitive	function
dimen	function	printerror	function
knownlist	function	showlines	function
lists	table	strings	table
T context		S undefined	
T internals		toks	function
T scratch		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 enable

F handler

D mapping

T methods

F set

F setreplacement

**cases** table

T actions

F handler

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

**hpack** function

**italics** table

F forcevariant

F handler

F reset

F set

**kerns** table

D factors

F handler

B keepligature

B keptogether

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 create

F flush

F initialize\_construct

F initialize\_reflow\_height

F initialize\_reflow\_width

F next\_row

F reflow\_height

F reflow\_width

F set\_construct

F set\_reflow\_height

F set\_reflow\_width

# unicode (extra lua)

<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>	function
F match		utf16_to_utf8	function
F rep		utf16_to_utf8_be	function
F reverse		utf16_to_utf8_le	function
F sub		utf32_to_utf8	function
F upper		utf32_to_utf8_be	function
<b>filetype</b>	function	utf32_to_utf8_le	function
<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	function
F dump		utf8_to_utf8	function
F find		utfcodes	function
F format		utfname	table
F gfind		utftype	function
		xstring	function

# url (context)

<code>addscheme</code>	function	<code>hasscheme</code>	function
<code>construct</code>	function	<code>query</code>	function
<code>filename</code>	function	<code>split</code>	function
<code>hashed</code>	function		

# utilities (context)

**debugger** table

F disable  
F enable  
F savestats  
F showstats

**formatters** table

F formatcolumns  
F list  
F stripzeros

**garbagecollector** table

F check  
N criterium  
B enabled

**lua** table

F compile

**packers** table

F hashed  
F new  
F pack  
F simplehashed  
F strip  
F unpack  
N version

**parsers** table

F add\_settings\_to\_array  
F arguments\_to\_table  
F array\_to\_string  
F getparameters  
F hash\_to\_string  
F listitem  
F make\_settings\_to\_hash\_pattern  
T patterns  
U settings\_to\_array  
U settings\_to\_hash\_a  
U settings\_to\_hash\_b  
U settings\_to\_hash\_c  
F settings\_to\_array  
F settings\_to\_hash  
F settings\_to\_hash\_strict  
F settings\_to\_hash\_tolerant  
F settings\_to\_set  
F simple\_hash\_to\_string

**report** function

**sequencers** table

F appendaction  
F appendgroup

F autocompile  
F compile  
F disableaction  
F disablegroup  
F enableaction  
F enablegroup  
D functions  
F localize  
F nodeprocessor  
F prependaction  
F prependgroup  
F removeaction  
F reset  
F setkind  
F tostring

**setters** table

F disable  
F enable  
F initialize  
F list  
F new  
F register  
F reset  
F show

**storage** table

F allocate  
F checked  
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

## visualizers (context)

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

## xml (context)

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

T xml		makestandalone	function
F all		match	function
F att		name	function
F attribute		newhandlers	function
F attributes		nodesettostring	function
F cdata		originalload	function
F chainattribute		package	function
F count		parent	function
F default		parsedentitylpeg	userdata
F elements		pihandlers	table
F empty		placeholders	table
F first		F unknown_any_entity	
F function		F unknown_dec_entity	
F index		F unknown_hex_entity	
F last		position	function
F match		privatecodes	table
F name		privatetoken	function
F position		process	function
F reverse		process_attributes	function
F table		process_elements	function
F tag		processattributes	function
F tags		profiled	table
F text		raw	function
F texts		registerentity	function
first	function	registers	function
found	function	remap_name	function
functions	table	remap_namespace	function
getbuffer	function	remap_tag	function
gethandlers	function	remapname	function
gethandlersfunction	function	remapnamespace	function
include	function	remaptag	function
index	function	renamespace	function
inheritedconvert	function	replace	function
inject	function	replace_element	function
inject_element	function	resolvens	function
inject_element_after	function	root	function
inject_element_before	function	save	function
injectafter	function	selection	function
injectbefore	function	serialize	function
insert	function	setcdata	function
insert_element	function	sethandlersfunction	function
insert_element_after	function	setproperty	function
insert_element_before	function	settings	function
insertafter	function	specialhandler	table
insertbefore	function	sprint	function
insertcomment	function	string	function
inspect	function	strip	function
is_valid	function	strip_whitespace	function
last	function	stripelement	function
load	function	stripleadingspaces	function
lpath	function	table	function
lpathcached	function	text	function
lpathcalls	function	textonly	function
lshow	function	tocdata	function



<code>toelement</code>	<code>function</code>	<code>unprivatized</code>	<code>function</code>
<code>tostring</code>	<code>function</code>	<code>withelement</code>	<code>function</code>
<code>toxml</code>	<code>function</code>	<code>withelements</code>	<code>function</code>
<code>tprint</code>	<code>function</code>	<code>wrap</code>	<code>function</code>
<code>traverse</code>	<code>function</code>	<code>xmlns</code>	<code>table</code>
<code>unescaped</code>	<code>function</code>		

## zip (extra lua)

<code>archives</code>	<code>table</code>	<code>openarchive</code>	<code>function</code>
<code>close</code>	<code>function</code>	<code>openfile</code>	<code>function</code>
<code>closearchive</code>	<code>function</code>	<code>registeredfiles</code>	<code>table</code>
<code>open</code>	<code>function</code>	<code>type</code>	<code>function</code>

## zlib (extra lua)

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