MP aes attributes backends basexx bit32 blobs boolean buffers builders caches callbacks catcodes characters chemistry commands containers context converters coroutine ctxrunner debug dir directives document documentdata drivers environment experiments figures file fio floats font fonts functions global graphics gzip images interactions interfaces in job kpse languages layouts lfs libraries lmx loaders logs lpdf lpeg lua luac luatex lxml math mathematics md5 metapost mime moduledata modules mp mplib noads mode nodes number objects optional os package pagebuilders parametersets pdf pdfdecode pdfe physics pngdecode posit potrace publications regimes resolvers sandbox scripts set sha2 sio socket sorters sparse statistics status storage streams string structures table texconditionals texconfig texconstants texifs texisdefined texmodes texsystemmodes thirddata token tokens tracers trackers typesetters updaters url userdata utf8 utilities visualizers xcomplex xdecimal xmath xml xzip zip zlib

ConT<sub>F</sub>Xt LMTX

# global (alias: \_G)

LOAFORMAT number debug table LUAMAJORVERSION number dimen function LUAMINORVERSION number dimen function LUAMINORVERSION number directives table LUATEXENGINE string directives table LUATEXENGINE string document table LUATEXFORMATID number document table LUATEXFUNCTIONALITY number documentdata table LUATEXVERSION number drivers table LUAVERSION number drivers table LUAVERSION number environment table MP function error function aes table experiments table arg table figures table assert function file table assert function file table backends table flushsimplerule function basexx table flushsimplerule function bit32 table font table blobs table fonts table blockrequire function functions table blockrequire function functions table blockrequire function functions table caches table getmetatable function builders table graphics table caches table graphics table caches table images table caches table images table caches table images table checkimage function inspect function chemistry table interactions table collectstructure function inspect function chemistry table interactions table collectstructure function inspect function commands table kpse table containers table kpse table containers table kpse table containers table kpse context function language table context function languages table converters table languages table count number			_	
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collectgarbagefunctioninterfacestablecollectstructurefunctioniotablecombinefunctionipairsfunctioncommandstablejobtablecontainerstablekpsetablecontextfunctionlanguagetableconverterstablelanguagestablecoroutinetablelast_pdfnumbercountnumberlayoutstable	checkimage	function	inspect	function
collectstructurefunctioniotablecombinefunctionipairsfunctioncommandstablejobtablecontainerstablekpsetablecontextfunctionlanguagetableconverterstablelanguagestablecoroutinetablelast_pdfnumbercountnumberlayoutstable	chemistry	table	interactions	table
combinefunctionipairsfunctioncommandstablejobtablecontainerstablekpsetablecontextfunctionlanguagetableconverterstablelanguagestablecoroutinetablelast_pdfnumbercountnumberlayoutstable	collectgarbage	function	interfaces	table
commandstablejobtablecontainerstablekpsetablecontextfunctionlanguagetableconverterstablelanguagestablecoroutinetablelast_pdfnumbercountnumberlayoutstable	collectstructure	function	io	table
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coroutine     table     last_pdf     number       count     number     layouts     table	context	function	language	table
coroutinetablelast_pdfnumbercountnumberlayoutstable	converters	table		table
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	count	number	<del>_</del> -	table
	createmask	function	-	table

libraries -	table	popleaderlevel	function
lmx	table	posit	table
load	function	potrace	table
loaders	data table	potracefrompng	function
loadfile	function	print	function
loadstring	function	profilelines	function
logs	table	publications	table
lpdf	table	pushleaderlevel	function
lpeg	table	rawequal	function
lua	table	rawget	function
luac	table	rawlen	function
luatex	table	rawset	function
lxml	table	recolor	function
math	table	regimes	table
mathematics	table	require	function
mathshapekern	function	resolvers	table
md5	table	ruledspace	function
metapost	table	sandbox	table
mime	table	scripts	table
moduledata	table	select	function
modules	table	set	table
mp	function	setinspector	function
mplib	table	setmathparameters	function
next	function	setmetatable	function
noads	table	sha2	table
node	table	shipbox_ref_h	number
nodes	table	shipbox_ref_v	number
number	table	sio	table
objects	table	socket	table
optional	table	sorters	table
optionalrequire	function	sparse	table
os	table	statistics	table
p_number_p	userdata	status	table
p_number_u	userdata	storage	table
package	table	streams	table
pagebuilders	table	string	table
pairs	function	structures	table
parametersets	table	table	table
pcall	function	tex	table
pdf	table	texconditionals	data table
pdfdecode	table	texconfig	table
pdfe	table	texconstants	data table
physics	table	texifs	data table
pngdecode	table	texio	table

texisdefined data table texmodes data table texsystemmodes data table thirddata table toboolean function todecimal function token table tokens table tonumber function function tostring tracers table trackers table function type typesetters table function unpack table updaters

table

url

userdata table utf table utf8 table utilities table visualizers table warn function width number xcomplex table xdecimal table xmath table xml table xpcall function xshift number xzip table zip table zlib table

#### aes (extra lua)

decode function
encode function

random function

## attributes (context)

alternates	table	F	formatcolor
N attribute		F	formatgray
D data		F	formatluminance
F enable		F	formatluminanceratio
F handler		F	getpagecolormodel
F register		F	gray
D registered		F	graytohsv
D values		F	handler
applyoverloads	function	Т	helpers
checkvalues	function		F complement
colorintents	table		F inbetween
N attribute			F justone
D data		F	hsvtogray
F enable		F	hsvtorgb
F handler		F	hwbtorgb
F register		F	iccprofile
D registered		F	isblack
colors	table	F	labtolch
N attribute		F	labtorgb
F cmyk		F	labtoxyz
F cmyktogray		F	lchtolab
F cmyktorgb		F	lchtorgb
F colorcomponent	S	N	main
D counts		S	model
B couple		D	models
F currentmodel		F	mpcolor
F currentnamedmo	del	F	mpnamedcolor
D data		F	mpoptions
N default		F	namedcolorattributes
F defineintermed	iatecolor	N	none
F definemultiton	ecolor	F	popset
F defineprocesso	olor	F	${\tt processcolor components}$
F defineprocesso	olordirect	F	pushset
F definesimplegr	ay	F	register
F definespotcolo	r	D	registered
F definetranspar	ency	F	registerspotcolor
F enable		F	rgb
F filter		F	rgbtocmyk
N forced		F	rgbtogray
F forcedmodel		F	rgbtohsv
F forcesupport		F	rgbtoxyz

N selector		D re	egistered	
F setlist		F se	et	
F setmodel		number	·s	data table
F setpagecolormo	odel	ofnode	)	function
D sets		privat	:e	function
F spec		public	:	function
F spot		regist	ervalue	function
F spotcolorname		restor	·e	function
F spotcolorparer	nt	save		function
F spotcolorvalue	2	setcle	eaner	function
B supported		showcu	ırrent	function
F toattributes		states	;	table
F transparencyco	omponents	F di	.sabletrigger	ing
B triggering		F en	abletriggeri	ng
F usecolors		F fi	.nalize	
D valid		Fin	itialize	
F value		F pr	ocess	
D values		F se	elective	
B weightgray		F si	mple.	
F xyztolab		F st	acked	
F xyztorgb		F st	acker	
counts	data table	system	1	function
define	function		loads	function
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N saturation
N screen
N softlight
N none
F register
D registered
B supported
F toattribute

N attribute
F cleanup
D data
F define

B triggering

F value

D values

 ${\sf F} \ {\sf defined layout component}$ 

F enable

F forcesupport

F handler

B hasorder

D listwise

F register

D registered

F resolve\_begin

F resolve end

F resolve reset

F resolve\_step

D scopes

F setfeatures

F setup

F start

F stop

B supported

D values

#### backends (context)

F addbookmarks

closeout function F analyzenormalsymbol codeinjections table F analyzesymbol F registerboxresource F attachmentid F registerfont F bitmap F restoreboxresource F clonefield current strina F copyimage defaults table F defaultprofile F definefield T codeinjections F definefieldset F prerollreference F setautoprefix F defineviewerlayer F vfstartcolor F discardpages F vfstopcolor F embedfile T nodeinjections F embedimage F cmvkcolor F enabletags F destination F exportformdata F gravcolor F fieldsurrounding F injectknockout F flushmergelayer F injectoverprint F getbookmarks F reference F getboxresourcebox F rqbcolor F getdefaultfieldvalue F spotcolor F getfieldcategory F transparency F getfieldset T registrations F getformatoption F getinfo F transparency D tables F getlinkstructureparent getcallbackstate function F getpreviewfigure included table F getreferencestructureobject F getrefobi B context B date F insertrenderingwindow B id F ip2 B metadata F jpg B pdf F maptag initialize function F mergebookmarks latelua function F mergecomments nodeinjections table F mergefields nothing function F mergereferences function openout F mergerenditions registered table F mergeviewerlayers T pdf F newimage T codeinjections F pna

F prerollreference

F presetsymbol F validfieldset
F presetsymbollist F vfstartcolor
F processrendering F vfstopcolor
F registerdocumentcloseaction F wrapimage

F registerdocumentopenaction

F registeredsymbol T nodeinjections
F registerfiguremask F addtags
F registerfigurerange F annotation
F registerpagecloseaction F attachfile

F registerpageopenaction F changestackedlayer
F registerpattern F cmykcolor

S name

F registersymbol F comment
F ruleactionbox F destination
F ruleactiondraw F effect

F ruleactionfill F getboxresourcedimensions
F ruleactionmp F graycolor
F ruleactionstrate

F ruleactionstroke F injectbitmap
F saveboxresource F insertu3d
F scanimage F knockout

F setattachmentsupport F negative
F setautoprefix F overprint
F setencryption F positive
F setfieldcalculationset F reference
F setfigurealternative F rgbcolor
F setfigurecolorspace F spotcolor

F setfiguremask F startalternate
F setformat F setformsmethod F startstackedlayer

F setpagetransition
F settaggingsupport
F setupviewerlayer
F setupviewerlayer
F setopstackedlayer

F setxmpfile F transparency
F startlayer F typesetfield
F startunicodetoactualtext F useboxresource
F startunicodetoactualtextdirect T registrations

F stoplayer F cmykindexcolor F stopunicodetoactualtext F cmykspotcolor

F stopunicodetoactualtextdirect F getspotcolorreference

F supportedformats F grayindexcolor
F unicodetoactualtext F grayspotcolor
F useviewerlayer F rgbindexcolor
F validcompactor F rgbspotcolor
F validfield F spotcolorname
F validfieldcategory F transparency

T tables

registrations table
setencryption function

tables writeout table function

# basexx (extra lua)

decode16	function	encode16	function
decode64	function	encode64	function
decode85	function	encode85	function
decodeLZW	function	encodeLZW	function
decodeRL	function	encodeRL	function

# bit32 (context)

arshift	function	extract	function
band	function	lrotate	function
bnot	function	lshift	function
bor	function	replace	function
btest	function	rrotate	function
bxor	function	rshift	function

## blobs (context)

append	function	strht	function
dimensions	function	strwd	function
dispose	function	tohpack	function
new	function	tonodes	function
pack	function	tovpack	function
strdp	function	write	function
strhd	function		

## boolean (context)

tocontext function
tonumber function

## buffers (context)

append	function	parallel	table
assign	function	F define	
collectcontent	function	F hassomecontent	
empty	function	F next	
erase	function	F place	
exists	function	F reset	
get	function	F save	
getcontent	function	prepend	function
getctxlua	function	raw	function
getlines	function	run	function
getmkvi	function	samplefile	function
gettex	function	splitsamplefile	function
loadcontent	function	undent	function

# builders (context)

Checksidefloat function F start hack table F stop  F qualityactions F report P parpassidentifier function passnames data table profiling table  F collapsing F addrivers F boxlinehandler F boxlinehandler F fixedprofile  F kerning F bigaturing F distance F fixedprofile  F constructors F get P getrivers  T constructors F pagehandler F pagelinehandler F pagelinehandler  F disable F pagelinehandler F profilebox F pagelinehandler  F datable F profilebox F profil	checkparcontext	function	F split	
hpack       table       F tag         F qualityactions       F tag         F report       parpassidentifier       function         F show       passnames       data table         kernel       table       profiling       table         F collapsing       F add       F addrivers       F addrivers       F distance       F fixedprofile       F distance       F distance       F distance       F distance       F fixedprofile       F distance       F pertivers       F distance       F distance       F pertivers       F destance       F pertivers       F destance       F pertivers       F pertivers       F pertivers       F pertivers       F destance       F pertivers       F data       F destance       F destance       F destance<	•			
F qualityactions F report F show Passnames Adata table Profiling Adata table Profiling Adata table F collapsing F hyphenating F hyphenating F historian F ligaturing F misttohlist F fixedprofile  I coal_box_filter F constructors F define F disable F disable F disable F disable F paragraphs F handler F disable F fixedprofile F pagelinehandler F disable F profilebox F pagelinehandler F disable F profilebox F profileines F handler F disable F profileines F basic F fixedprofile D names D numbers F report  D names D numbers F report  T expansion F rece F profilebox F registerpaspasscallback F fixedprofile F foxedprofile F fixedprofile F fixedprofile F foxedprofile F fixedprofile F				
F report F show  Remel  table  F collapsing F collapsing F kerning F kerning F ligaturing F mistrohlist  Cocal_box_filter F constructors N attribute F disable F define F define F basic F settines F basic F settines F basic F settines F settines F fefault F pagelinehandler F set basic F settines F settines F settines F festines F festines F festines F registerpaspasscallback function table F stop T data F collapsevbox F stop F trace F keeptogether F stop F registerogether F setgisterogether F setgisterogether F setgisterogether F setgisterogether F setgisterogether F solutions F federinesnapmethod F registerogetlush F forcespageflush F for	•	table	•	
F show kernel table profiling table  F collapsing F add F roclapsing F addrivers F kerning F boxlinehandler F ligaturing F distance F misttohlist F fixedprofile  local_box_filter function F get paragraphs table F petrivers  T constructors F list N attribute F pagehandler F define F define F define F define F pagelinehandler F disable F profilebox F set T methods F setlines F basic registerpaspasscallback function vyack table F handler F set F handler F folault Vyack F qualityactions F report  D names Vypacing D numbers F set F checkstrutdepth F start F collapsevbox F stop T data T expansion F trace D skip F stop F terace D skip F registertogether F registertogether F registertogether F registertogether F setfine F flushcontributions F fedfine F optimize F fedfine F forcestrutdepth F stortize F forcestrutdepth F				function
kernel     table     profiling     table       F collapsing     F add       F hyphenating     F addrivers       F kerning     F boxlinehandler       F ligaturing     F distance       F mlisttohlist     F fixedprofile       local_box_filter     function       paragraphs     table       T constructors     F list       N attribute     F pagelinehandler       F define     F pagelinehandler       F define     F profilebox       F enable     F profilelines       F set     F setlines       F basic     F setlines       F basic     registerpaspasscallback     function       F default     vpack     table       F hpack     F qualityactions     function       F report     Vpack     table       D names     Vspacing     table       D names     Vspacing     table       F start     F checkstrutdepth     F checkstrutdepth       F start     F checkstrutdepth     F checkstrutdepth       F stop     T data     D map       T expansion     D map     D map       F trace     D snapmethods     F registertogether       F keeptogether     D snapmethods     F flushcontributions	•		• •	
F collapsing F hyphenating F hyphenating F kerning F kerning F ligaturing F ligaturing F misttohlist  Coal_box_filter F unction F get F getrivers  T constructors F list N attribute F define F disable F panable F panable F panable F profilebox F enable F handler F disable F profilelines F handler F basic F basic F basic F oneline F hapack F phack F phack F set gualityactions F report D names V spacing D numbers F set F start F start F start F start F collapsevbox F stop T expansion F trace F keeptogether F registertogether F solution F forcepageflush F poptimize F forcestrutdepth F f getnofpreviouslines		tahlo		
F hyphenating F kerning F kerning F ligaturing F mistrohlist  Cocal_box_filter F mistrohlist F fixedprofile  F get F get F get F get F get F getrivers  T constructors F list N attribute F define F disable F pagelinehandler F disable F profilebox F enable F enable F handler F disable F profilebox F set F methods F set F methods F foreilines F basic F default F profile F pagelinehandler F set F set F set F set F set F set F methods F setlines F setlines F setlines F setlines F setjunes F setlines F setlines F set F collapsevbox F set F start F collapsevbox F stop T data T expansion F trace F keeptogether F registertogether F registertogether F solutions F define F forcestrutdepth F f forcespageflush F forcespageflush F poptimize F forcestrutdepth F f forcest		table	•	cabte
F kerning F ligaturing F misttohlist  Cocal_box_filter F dunction F get  F define F define F define F handler F handler F handler F basic F default F hapack F hapack F hapack F hore F one line D names D numbers F set F set F start				
F ligaturing F mlisttohlist  Cocal_box_filter F unction F get  F pagelinehandler  F pagelinehandler  F profilebox  F profilebox  F profilebox  F profilebox  F profilebox  F set  F set  F set  F set  F set  F set  F get  F get  F get  F get  F get  F gualityactions  F report  Vapack  T able  D anmes  Vapacing  T able  D categories  F set  F checkstrutdepth  F start  F collapsevbox  F stop  T data  T expansion  F trace  F keeptogether  F keeptogether  F registertogether  F solutions  T splitters  F define  F potimize  F forcepageflush  F optimize  T registered  F getnofpreviouslines				
F mistohlist  local_box_filter	-			
local_box_filter     function     F get       paragraphs     table     F getrivers       T constructors     F list       N attribute     F pagehandler       F define     F pagelinehandler       F disable     F profilebox       F enable     F profilelines       F enable     F profilelines       F handler     F set       T methods     F setlines       F basic     registerpaspasscallback     function       F default     vpack     table       F hpack     F qualityactions     foreport       F oneline     F report     table       D names     vspacing     table       D numbers     D categories     fockstrutdepth       F start     F collapsevbox     fockstrutdepth       F start     F collapsevbox     fockstrutdepth       F stop     T data     D map       T expansion     D skip     D skip       F keeptogether     D snapmethods     Fockstrutdepth       F registertogether     F definesnapmethod       T splitters     F flushcontributions       F define     F forcestrutdepth       F potimize     F forcestrutdepth       T registered     F getnofpreviouslines				
paragraphs       table       F getrivers         T constructors       F list         N attribute       F pagehandler         F define       F pagelinehandler         F define       F profilebox         F enable       F profilelines         F handler       F set         T methods       F setlines         F basic       registerpaspasscallback       function         F default       vpack       table         F hpack       F qualityactions       function         F oneline       F report       vpack       table         D names       vspacing       table         D numbers       D categories       f checkstrutdepth         F st       F checkstrutdepth       f collapsevbox         F stop       T data       T data         T expansion       D map       D skip         F keeptogether       D snapmethods       F registertogether         F keeptogether       F definesnapmethod       F solutions         T splitters       F flushcontributions       F flushcontributions         F define       F forcestrutdepth       F forcestrutdepth         F optimize       F getnofpreviouslines		function	•	
T constructors  N attribute F define F define F disable F enable F enable F handler F basic F basic F default F hack F oneline F oneline F set F set F set F set F report D names D numbers F set F start F start F stop F start F stop F stop F trace F keeptogether F keeptogether F selines F fullities F fullities F fullities F list F fullities F profilelines F set F collapsevbox F trace F stop F trace F define F registertogether F define F forcepageflush F orcestrutdepth F stoptimize F oforcestrutdepth F forcestrutdepth F getnofpreviouslines	<del>-</del> -		•	
R define F define F disable F disable F enable F enable F handler F basic F basic F default F hack F oneline F noneline F noneline F set F set F report D names D tategories F start F start F start F start F start F stop F start F stop F trace F keeptogether F keeptogether F registerous F define F registerous F define F fixed F define F forcestrutdepth F store F define F forcestrutdepth F forcestrutdepth F forcestrutdepth F forcestrutdepth F store F define F forcestrutdepth F getnofpreviouslines		tabte	•	
F define F disable F disable F enable F enable F handler F handler F basic F basic F default F hack F noeline F noeline F set F oneline F set F oneline F report  D names Vspacing D numbers F set F start F collapsevbox F stop T data T expansion F trace F keeptogether F septines F registertogether F solutions F registertogether F solutions F define F forcepageflush F optimize F optimize F officestrutdepth F f forcestrutdepth F f getnofpreviouslines				
F disable F enable F enable F enable F handler F handler F set T methods F basic F default F hpack F oneline F oneline F set F oneline F set F oneline F report  D names V spacing T able  D numbers F set F checkstrutdepth F start F start F collapsevbox F stop T data T expansion F trace F keeptogether F sequitered F set F define F solutions F define F officepageflush F optimize F officestrutdepth F forcestrutdepth F getnofpreviouslines			· -	
F enable F handler F handler F set T methods F basic F default F hpack F oneline F names  D names F set F set F checkstrutdepth F start F stop F trace F texpansion F trace F keeptogether F registertogether F registertogether F solutions F sluthers F set F checkstrutdepth F start F collapsevbox F tadta F trace F definesnapmethod F definesnapmethod F sluthcontributions F define F optimize F forcestrutdepth F forcestrutdepth F forcestrutdepth F forcestrutdepth F forcestrutdepth F forcestrutdepth F getnofpreviouslines			. •	
F handler T methods F basic F default F hpack F oneline F onames  D names  D numbers F set F set F collapsevbox F stop T data T expansion F trace F keeptogether F registertogether T solutions F registered F slixed F define F forcestrutdepth F stard F collapsevbox F stop F trace F checkstrutdepth F starb F collapsevbox F f data F equivery fine fine fine fine fine fine fine fine			·	
T methods F basic F basic F default F default F hpack F oneline F oneline F online F set F set F checkstrutdepth F start F start F stop F trace F keeptogether F registertogether F solutions F registertogether F define F define F optimize F optimize F registerogulars F set F forcestrutdepth F getnofpreviouslines			·	
F basic F default F default F hpack F noeline F oneline F onumbers F set F checkstrutdepth F start F start F stop F trace F keeptogether F registertogether T solutions F registered F spetmize F optimize F optimize F organsson F registertogether F solutions F registered F forcestrutdepth F forcestrutdepth F forcestrutdepth F forcestrutdepth F forcestrutdepth F define F forcestrutdepth F forcestrutdepth F forcestrutdepth F forcestrutdepth F forcestrutdepth F getnofpreviouslines				
F default F hpack F hpack F oneline F oneline F report  D names Vspacing table  D numbers D categories F set F checkstrutdepth F start F collapsevbox F stop T data T expansion F trace D skip F keeptogether D snapmethods F registertogether F solutions F registertogether F splitters F define F optimize F optimize F registered F getnofpreviouslines				function
F hpack F oneline F oneline F report  D names Vspacing table  D numbers F set F checkstrutdepth F start F collapsevbox F stop T data  T expansion F trace D skip F keeptogether F sepistertogether F registertogether F solutions F define F optimize F optimize F optimize F registerotogether F getnofpreviouslines				
F oneline D names Vspacing table  D numbers D categories F set F checkstrutdepth F start F collapsevbox F stop T data T expansion D map F trace D skip F keeptogether F registertogether F registertogether T solutions F define F define F forcestrutdepth F forcestrutdepth F forcestrutdepth F getnofpreviouslines			•	
D names vspacing table  D numbers D categories  F set F checkstrutdepth  F start F collapsevbox  F stop T data  T expansion D map  F trace D skip  F keeptogether D snapmethods  F registertogether F definesnapmethod  T solutions B fixed  T splitters F flushcontributions  F define F forcepageflush  F optimize F forcestrutdepth  T registered F getnofpreviouslines	•		, ,	
D numbers  F set  F checkstrutdepth  F start  F collapsevbox  F stop  T data  T expansion  F trace  D skip  F keeptogether  D snapmethods  F registertogether  F solutions  B fixed  T splitters  F define  F optimize  F optimize  T registered  D categories  F checkstrutdepth  F data  D map  D map  D snapmethods  F definesnapmethod  F forcepageflush  F forcepageflush  F forcestrutdepth  T registered  F getnofpreviouslines				table
F set F checkstrutdepth F start F collapsevbox F stop T data T expansion D map F trace D skip F keeptogether D snapmethods F registertogether F definesnapmethod T solutions B fixed T splitters F flushcontributions F define F forcepageflush F optimize F forcestrutdepth T registered F getnofpreviouslines			•	
F start F collapsevbox F stop T data T expansion D map F trace D skip F keeptogether D snapmethods F registertogether F definesnapmethod T solutions B fixed T splitters F flushcontributions F define F forcepageflush F optimize F forcestrutdepth T registered F getnofpreviouslines			•	
F stop T data T expansion D map F trace D skip F keeptogether D snapmethods F registertogether F definesnapmethod T solutions B fixed T splitters F flushcontributions F define F forcepageflush F optimize F forcestrutdepth T registered F getnofpreviouslines			·	
T expansion  F trace  D skip  F keeptogether  D snapmethods  F registertogether  F definesnapmethod  T solutions  F define  F optimize  T registered  F getnofpreviouslines			•	
F trace D skip  F keeptogether D snapmethods  F registertogether F definesnapmethod  T solutions B fixed  T splitters F flushcontributions  F define F forcepageflush  F optimize F forcestrutdepth  T registered F getnofpreviouslines	·			
F keeptogether  F registertogether  T solutions  F define  F flushcontributions  F define  F optimize  F registered  F getnofpreviouslines	·		·	
F registertogether  T solutions  B fixed  T splitters  F define  F optimize  T registered  F getnofpreviouslines	F keeptogether			
T solutions B fixed  T splitters F flushcontributions  F define F forcepageflush  F optimize F forcestrutdepth  T registered F getnofpreviouslines				
F define F forcepageflush F optimize F forcestrutdepth T registered F getnofpreviouslines			·	
F define F forcepageflush F optimize F forcestrutdepth T registered F getnofpreviouslines			F flushcontributions	
F optimize F forcestrutdepth T registered F getnofpreviouslines	·			
T registered F getnofpreviouslines	F optimize		. •	
	•		·	
	_			
F set F injectdisable	F set			

F injectpenalty F setmap F injectskip F interceptsamepagecontent F snapbox

F pagehandler F synchronizepage
F pageoverflow F tocategories
F popatsame F tocategory
F pushatsame F vboxhandler

# caches (context)

base	string	loadcontent	function
collapsecontent	function	loaddata	function
configfiles	function	more	string
contentstate	function	savecontent	function
defaults	table	savedata	function
getfirstreadablefile	function	setfirstwritablefile	function
getreadablepaths	function	setluanames	function
getwritablepath	function	treehash	function
hashed	function	usedpaths	function
is_writable	function		

#### callback (basic tex)

find function
known function
list function

register overloaded function
usage function

previous 19 next

#### callbacks (context)

freeze function B line break functions table B linebreak filter F start page number B linebreak quality F stop page number B local box filter function known B make extensible list data table B math rule pop function B missing character push function B mlist to hlist function register B open data file function report B packed vbox filter supported table B paragraph context B alignment\_filter B paragraph pass B append line filter B post linebreak filter B append to vlist filter B pre dump B begin paragraph B pre linebreak filter B buildpage filter B pre\_output\_filter B define font B process character B process jobname B find format file B find log file B quality font B get attribute B register extensible B get math dictionary B show build B get noad class B show error message B glyph run B show loners B handle overload B show lua call B handle uleader B show warning message B hpack\_filter B show whatsit B hpack quality B start file B hyphenate B start run B insert distance B stop file B insert par B stop run B tail append B intercept lua error B intercept tex error B trace memory B italic correction B vpack filter B kerning B vpack quality B ligaturing B wrapup run

#### catcodes (context)

 register function

## characters (context)

addcharacternames	function	T after_postscript	
adobename	function	T after_subscript	
bidi	data table	T anudatta	
blockrange	function	T before_half	
blocks	data table	T before_main	
can_have_space	data table	T before_postscript	
casemap	table	T before_subscript	
categories	data table	T below_mark	
category	function	T consonant	
categorytags	data table	T dependent_vowel	
classifiers	table	T halant	
collapsed	data table	T independent_vowel	
combined	data table	T nukta	
contextname	function	T post_mark	
csletters	data table	T pre_mark	
data	data table	T ra	
decomposed	data table	T stress_tone_mark	
description	function	T twopart_mark	
descriptions	data table	T vowel_modifier	
detailtags	data table	initialize	function
directions	table	is_character	data table
emoji	table	is_command	data table
F compact	table	is_command is_hyphenator	data table data table
-	table	_	
F compact	table	is_hyphenator	data table
F compact F known	function	is_hyphenator is_letter	data table data table
F compact F known F resolve		is_hyphenator is_letter is_mark	data table data table data table
F compact F known F resolve emojized	function	<pre>is_hyphenator is_letter is_mark is_nothing</pre>	data table data table data table data table
F compact F known F resolve emojized enccodes entities fallbacks	function data table	is_hyphenator is_letter is_mark is_nothing is_punctuation	data table data table data table data table data table
F compact F known F resolve emojized enccodes entities	function data table data table	is_hyphenator is_letter is_mark is_nothing is_punctuation is_spacing	data table data table data table data table data table data table
F compact F known F resolve emojized enccodes entities fallbacks	function data table data table data table	is_hyphenator is_letter is_mark is_nothing is_punctuation is_spacing is_symbol	data table
F compact F known F resolve emojized enccodes entities fallbacks filters	function data table data table data table data table	is_hyphenator is_letter is_mark is_nothing is_punctuation is_spacing is_symbol lcchars	data table
F compact F known F resolve emojized enccodes entities fallbacks filters fractions	function data table data table data table data table table	is_hyphenator is_letter is_mark is_nothing is_punctuation is_spacing is_symbol lcchars lccode	data table function
F compact F known F resolve emojized enccodes entities fallbacks filters fractions fromnumber	function data table data table data table data table table table function	is_hyphenator is_letter is_mark is_nothing is_punctuation is_spacing is_symbol lcchars lccode lccodes	data table
F compact F known F resolve emojized enccodes entities fallbacks filters fractions fromnumber fschars	function data table data table data table data table table function data table	is_hyphenator is_letter is_mark is_nothing is_punctuation is_spacing is_symbol lcchars lccode lccodes lettered	data table function data table function
F compact F known F resolve emojized enccodes entities fallbacks filters fractions fromnumber fschars fscodes	function data table data table data table data table table function data table data table	is_hyphenator is_letter is_mark is_nothing is_punctuation is_spacing is_symbol lcchars lccode lccodes lettered lhash linebreaks lower	data table function data table function data table
F compact F known F resolve emojized enccodes entities fallbacks filters fractions fromnumber fschars fscodes getrange	function data table data table data table data table table function data table data table function	is_hyphenator is_letter is_mark is_nothing is_punctuation is_spacing is_symbol lcchars lccode lccodes lettered lhash linebreaks	data table function data table function data table data table
F compact F known F resolve emojized enccodes entities fallbacks filters fractions fromnumber fschars fscodes getrange graphemes	function data table data table data table data table table function data table data table data table data table	is_hyphenator is_letter is_mark is_nothing is_punctuation is_spacing is_symbol lcchars lccode lccodes lettered lhash linebreaks lower	data table function data table function data table function
F compact F known F resolve emojized enccodes entities fallbacks filters fractions fromnumber fschars fscodes getrange graphemes hangul	function data table data table data table data table table function data table data table data table data table data table	is_hyphenator is_letter is_mark is_nothing is_punctuation is_spacing is_symbol lcchars lccode lccodes lettered lhash linebreaks lower mathlists	data table function data table function data table function data table data table data table
F compact F known F resolve emojized enccodes entities fallbacks filters fractions fromnumber fschars fscodes getrange graphemes hangul indicgroups	function data table data table data table data table table function data table data table data table data table data table	is_hyphenator is_letter is_mark is_nothing is_punctuation is_spacing is_symbol lcchars lccode lccodes lettered lhash linebreaks lower mathlists mirrors	data table function data table function data table function data table table table

remap\_hangul\_syllabe function table tex scripthash table D accentmapping setactivecatcodes function D commandmapping setlettercatcodes function F defineaccents setothercatcodes function F safechar shape function F strtextoutf function shaped F strtoutfpattern data table shash F toutf shchars data table F toutfpattern shcodes data table textclasses table showstring function tonumber function specialchars data table ucchars data table data table specials uccode function splits table uccodes data table uhash data table T char unicodechar function T compat function subscripts table upper data table superscripts table verbosemarks

data table

synonyms

#### chemistry (context)

component	function
define	function
definitions	data table
format	string
inlinechemical	function
instance	string

method string
molecule function
moleculeparser userdata
start function
stop function
undefine function

## containers (context)

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

## converters (context)

Α	function	cn-a	function
A:es	function	cn-c	function
A:ru	function	cn-d	function
A:sl	function	convert	function
AK	function	decimals	function
Alphabetic	function	define	function
Alphabetic:es	function	<pre>gregorian_to_hebrew</pre>	function
Alphabetic:ru	function	gregorian_to_jalali	function
Alphabetic:sl	function	hebrewnumerals	function
Character	function	helpers	table
Characters	function	hexstringtonumber	function
I	function	i	function
KA	function	isleapyear	function
KR	function	jalali_to_gregorian	function
R	function	lchexnumber	function
RK	function	lchexnumbers	function
Romannumerals	function	leapyear	function
Russiannumerals	function	lower	function
Sloveniannumerals	function	max	function
Spanishnumerals	function	maxchrs	function
Word	function	nicenumber	function
Words	function	nofdays	function
a	function	number	function
a:es	function	numbers	function
a:ru	function	octnumber	function
a:sl	function	octstringtonumber	function
abjadnodotnumerals	function	ordinal	function
abjadnumerals	function	r	function
alphabetic	function	romannumerals	function
alphabetic:es	function	russiannumerals	function
alphabetic:ru	function	sequences	data table
alphabetic:sl	function	settime	function
character	function	sloveniannumerals	function
characters	function	spaceddigits	function
chineseallnumerals	function	spanishnumerals	function
chinesecapnumerals	function	textime	function
chinesedatenumerals	function	toabjad	function
chinesenumerals	function	tochinese	function
chr	function	tohebrew	function
chrs	function	toroman	function
cn	function	totime	function

uchexnumber uchexnumbers upper verbose function function function table F translate weekday word

words

function function function

D data

## coroutine (basic lua)

close	function	running	function
create	function	status	function
isyieldable	function	wrap	function
resume	function	yield	function

#### ctxrunner (context)

load function prepfiles data table
preparedfile function resolve function

## debug (basic lua)

getinfo function
sethook function

traceback function

# dir (context)

collectpattern	function	globfiles	function
current	function	globpattern	function
expandlink	function	ls	function
expandname	function	makedirs	function
found	function	mkdirs	function
glob	function	pop	function
globdirs	function	push	function

## directives (context)

data	data table	
default	function	
disable	function	
done	table	
enable	function	
list	function	
name	string	

register	function
report	function
reset	function
show	function
value	function
values	function

# document (context)

arguments	data table	pdf_cleanup_procsets	function
files	table	pdf_identify_content	function
functions	table	<pre>pdf_serialize_content</pre>	function
getargument	function	pdf_strip_content	function
getfilename	function	pdf_strip_page	function
options	table	setargument	function
T commandline		setcommandline	function
D environments		setdefaultargument	function
D modes		setenvironments	function
D modules		setfilename	function
T ctxfile		setfilenames	function
D environments		setmodes	function
D modes		setmodules	function
D modules		variables	data table
pdf cleanup cidsets	function		

## documentdata (context)

variable function

## drivers (context)

1	f	
applyanchor	function	F updatefontstate
applyorientation	function	T whatsit
convert	function	S name
converters	table	T json
F analyze		T actions
F engine		F cleanup
F lmtx		F convert
F resyncbox		F finalize
enable	function	F initialize
gethpos	function	F outputfilename
getpos	function	F prepare
getrpos	function	F wrapup
getvpos	function	T flushers
helpers	table	F character
install	function	F popleaderlevel
instances	table	F pushleaderlevel
T empty		F rule
T actions		F setstate
F convert		F simplerule
F prepare		F specialrule
T flushers		F updatefontstate
F popleaderleve		T whatsit
F pushleaderlev	el	S name
T whatsit		T lua
S name		T actions
T js		F cleanup
T actions		F convert
F cleanup		F finalize
F convert		F initialize
F finalize		F outputfilename
F initialize		F prepare
F outputfilenam	e	F wrapup
F prepare		T flushers
F wrapup		F character
T flushers		F popleaderlevel
F character		F pushleaderlevel
F popleaderleve		F rule
F popleaderleve F pushleaderleve		F rule F simplerule
F popleaderleve F pushleaderleve F rule		F rule F simplerule F specialrule
F popleaderleve F pushleaderleve		F rule F simplerule

S name F cleanup T mpo F convert T actions F finalize F finalize F initialize F initialize F outputfilename T flushers F prepare F character F wrapup F popleaderlevel T flushers F pushleaderlevel F character F rule F flushimage F simplerule F fontchar F specialrule F aroup T whatsit F literal S name F popleaderlevel T mps F poporientation T actions F pushleaderlevel F cleanup F pushorientation F convert F restore F finalize F rule F initialize F save F outputfilename F setmatrix F prepare F setstate F wrapup F simplerule T flushers F space F character F specialrule F popleaderlevel F startclipping F pushleaderlevel F startmatrix F rule F startmirroring F simplerule F startrotation F specialrule F startscaling F updatefontstate F stopclipping T whatsit F stopmatrix S name F stopmirroring T none F stoprotation T actions F stopscaling T flushers F updatefontstate F popleaderlevel T whatsit F pushleaderlevel S name **lmtxversion** number T whatsit outputfilename function S name T pdf report function

T actions

# environment (context)

argument	function	luafilechunk	function
arguments	data table	luatexengine	string
basicengines	data table	luatexfunctionality	number
currentrun	number	luatexverbose	string
definefilefallback	function	luatexversion	number
definefilesynonym	function	maxnofruns	number
engineflags	data table	oldhome	string
filename	string	originalarguments	data table
filenames	table	outputfilename	string
files	table	ownbin	string
filesynonyms	data table	ownmain	string
forcedruns	number	ownname	string
getargument	function	ownpath	string
globfiles	function	prerollrun	boolean
homedir	string	rawarguments	data table
initex	boolean	reconstructcommandline	function
initexmode	boolean	relativepath	function
initializearguments	function	setargument	function
initializefilenames	function	splitarguments	function
inputfilebarename	string	suffix	string
inputfilename	string	texfile	function
inputfilesuffix	string	texmfos	string
jobfilefullname	string	texos	string
jobfilename	string	texroot	string
jobfilesuffix	string	truefilename	function
kindofrun	number	useluamodule	function
lmtxmode	number	usemodules	function
loadexamodes	function	validengines	data table
loadluafile	function	version	string
luafile	function	<del></del>	

# experiments (context)

data	data table	register	function
default	function	report	function
disable	function	reset	function
enable	function	show	function
list	function	value	function
name	string	values	function

#### figures (context)

applvratio function F resetstore badname function F scan bases data table F serialize bitmapimage function T sizes boxnumber number R art cachepaths data table B bleed check function B crop checkers data table B media conversions data table B none converters data table R trim current function F storedata number defaultdepth F totable defaultheight number T types defaultsearch hool ean N jbig2 defaultwidth number N jp2 function done N jpg function dummy N none existers data table N pdf exists function N png formats data table N stream found data table F wrap include aet function function aetinfo function includers data table getpdfinfo function initialize function loaded data table getrealpage function localpaths data table auess function guessfromstring function data table magics function function hash mergegoodies identifiers data table nofmissina number identify function number nofprocessed table order data table images data table F check paths F checksize patterns data table pop function F copy preferguality boolean F create data table F embed programs function F embedfromstore push F fetchdata registerpattern function function registerresource T keys registersuffix function F print data table F resetdata remappers

resources	data table	
scale	function	
set	function	
setconversion	function	
setlookups	function	

setorder
setpaths
suffixes
used

function		
function		
data	table	
data	table	

# file (basic lua)

addsuffix	function	needsupdating	function
basename	function	pathpart	function
checksum	function	readdata	function
collapsepath	function	removesuffix	function
сору	function	replacesuffix	function
dirname	function	reslash	function
expandname	function	robustname	function
extname	function	savechecksum	function
is_qualified_path	function	savedata	function
is_readable	function	size	function
is_rootbased_path	function	splitbase	function
is_writable	function	splitname	function
isreadable	function	splitpath	function
iswritable	function	strip	function
join	function	suffix	function
joinpath	function	suffixes	function
loadchecksum	function	suffixesonly	function
nameonly	function	suffixonly	function
nametotable	function	syncmtimes	function
needs_updating	function	withinbase	function

# fio (extra lua)

getposition	function	readinteger1le	function
read2dot14	function	readinteger2	function
readbytes	function	readinteger2le	function
readbytetable	function	readinteger3	function
readcardinal1	function	readinteger3le	function
readcardinal1le	function	readinteger4	function
readcardinal2	function	readinteger4le	function
readcardinal2le	function	readintegertable	function
readcardinal3	function	setposition	function
readcardinal3le	function	skipposition	function
readcardinal4	function	writecardinal1	function
readcardinal4le	function	writecardinal1le	function
readcardinaltable	function	writecardinal2	function
readcline	function	writecardinal2le	function
readcstring	function	writecardinal3	function
readfixed2	function	writecardinal3le	function
readfixed4	function	writecardinal4	function
readinteger1	function	writecardinal4le	function

# floats (context)

analysemethod	function	nofstacked	function
checkedpagefloat	function	рор	function
collect	function	push	function
consult	function	resave	function
flush	function	save	function
getvariable	function	stacked	function
hasstacked	function		

# font (basic tex)

addcharacters	function	getmathspec	function
addquality	function	getparameterfields	function
current	function	gettextcharacterfields	function
define	function	id	function
getfont	function	max	function
getfontdimen	function	nextid	function
getfontfields	function	setfont	function
getfontspec	function	setfontdimen	function
getmathcharacterfields	function	xscaled	function
getmathindex	function	yscaled	function

## fonts (context)

analyzers	table	F beforecopyingcharacters
D features		F beforepassingfonttotex
D initializers		D cache
D methods		F calculatescale
F setstate		F checkedfeatures
D states		F checkedfilename
B useunicodemarks		F collectprocessors
callbacks	table	F currentfonthasfeature
F callback		D designsizes
F compile		F enhanceparameters
F devirtualize		T enhancers
checkers	table	T afm
F getmissing		F apply
D mapping		F patch
F missing		T patches
F placeholder		F register
cid	table	F report
F getmap		F register
F loadfile		F report
collections	table	T otf
F checkenabled		F addfeature
F clonevector		F apply
F define		F enhance
T definitions		F patch
F direct		T patches
F found		F register
F prepare		F report
F process		F register
F register		F report
F registermain		T tfm
F report		F apply
F reset		F patch
T rscales		T patches
T vectors		F register
constructors	table	F report
F addcharacters		F register
F addcoreunicodes		F report
F aftercopyingchara	cters	N factor
F applyfinalizers		T features
F applymanipulators		D afm
F assignmathparamete	ers	D otf

D tfm	F datasetpositionprocessor
F finalize	S defaultbasealternate
F getfeatureaction	S defaultnodealternate
F getmathparameter	D features
F getprivate	F featuresinitializer
T handlers	F featuresprocessor
T afm	F getactualtext
B autoprefixed	F getalternate
D cache	F getgsub
D features	F getkern
F getkern	F getmultiple
T helpdata	F getstreamhash
D bothkerned	F getsubstitution
D leftkerned	T handlers
D ligatures	F ctx camelcasing
D rightkerned	F devanagari remove joiners
D texligatures	F devanagari reorder matras
F load	F devanagari reorder pre base reordering consonants
T readers	F devanagari_reorder_reph
F getinfo	F gpos context
Floadfont	F gpos contextchain
F loadshapes	F gpos_cursive
F setfeatures	F gpos_mark2base
B syncspace	F gpos_mark2ligature
N version	F gpos_mark2mark
T otf	F gpos_pair
F addfeature	F gpos_single
F basemodeinitializer	F gsub_alternate
D cache	F gsub_context
F collectlookups	F gsub_contextchain
T coverup	F gsub_ligature
T actions	F gsub_multiple
F alternate	F gsub_reversecontextchain
F chainposition	F gsub_single
F chainsubstitution	F trigger_space_kerns
F kern	T helpers
F ligature	F blockligatures
F multiple	F pardirstate
F pair	F txtdirstate
F single	F load
F substitution	F loadoutlinedata
F register	F loadstreamdata
S stepkey	F modeinitializer
F dataset	D mpscache

D pdfcache	T gsubhandlers
F plugininitializer	F alternate
F pluginprocessor	F chainedcontext
T plugins	F context
T text	F extension
D pngcache	F ligature
B pngenabled	F multiple
T readers	F reversechainedcontextsingle
F addunicodetable	F single
F avar	F gvar
F cbdt	F head
F cblc	T helpers
F cff	F axistofactors
F cff2	F cleanname
T cffencoder	F getaxisscale
F checkhash	F getfactors
F cmap	F getscales
F colr	F gotodatatable
F compact	F normalizedaxis
F condense	T normalizedaxishash
F cpal	F readvariationdata
F dsig	F reportskippedtable
F ebdt	F setvariabledata
F eblc	F hhea
F ebsc	F hmtx
F expand	F hvar
F extend	F kern
F fvar	F loadfont
F gdef	F loadshapes
F getcomponents	F loca
F getinfo	F math
F glyf	F maxp
F gpos	F mvar
T gposhandlers	F name
F chainedcontext	F os/2
F context	F pack
F cursive	F parsecharstrings
F extension	F post
F marktobase	F potracetocff
F marktoligature	F registerextender
F marktomark	F rehash
F pair	F sbix
F single	F stat
F gsub	T streamreader

F close F writecardinal1 F getposition F writecardinal1le F getsize F writecardinal2 F look F writecardinal2le F open F writecardinal3 F read2dot14 F writecardinal3le F readbyte F writecardinal4 F writecardinal4le F readbytes F readbytetable F writeinteger1 F readcardinal F writeinteger1le F readcardinal1 F writeinteger2 F readcardinal1le F writeinteger2le F readcardinal2 F writeinteger3 F readcardinal2le F writeinteger3le F readcardinal3 F writeinteger4 F readcardinal3le F writeinteger4le F readcardinal4 F writestring F readcardinal4le F stripredundant F readcardinaltable F svg F readchar N tableversion F readcline F unifvmissina F readcstring F unpack F readfixed2 F vhea F readfixed4 F vmtx F readinteger F vora F readinteger1 F vvar F readinteger1le F woff2otf F readinteger2 F registerpalette F readinteger2le F registerplugin F readinteger3 F reorderlookups F readinteger3le F scriptandlanguage F readinteger4 F setdynamics F readinteger4le F setfeatures T statistics F readintegertable D usedfeatures F readsignedbyte F readstring D sygcache B sygenabled F readtag T tables F setposition F size D baselines F skip D features D featuretypes F skiplong F skipposition D languages F skipshort D scripts F writebyte F texthandler

T vectors	F combine				
T arab	T combiner				
T gpos	D commands				
N curs	D helpers				
N kern	D math				
N mark	D predefined				
N mkmk	N version				
T gsub	D whatever				
N calt	F hashfeatures				
N ccmp	F hashinstance				
N cswh	T hashmethods				
N dlig	F normal				
N fina	F virtual				
N init	F initializefeature	S			
N isol	D loadedfonts				
N liga	N noffontsloaded				
N medi	N nofsharedfonts				
N mset	N nofsharedhashes				
N rclt	N nofsharedvectors				
N rlig	N privateoffset				
N version	D privateslots				
pfb	F readanddefine				
F filterencoding	F registerfeature				
F filtermetadata	F registerscriptset				
F loadvector	F resetfeature				
N version	B resolvevirtualtoo				
tfm	F scale				
D cache	F scaled				
D features	F setfactor				
N maxnestingdepth	F setfeature				
N maxnestingsize	F setmathparameter				
T readers	F setname				
F loadpk	B sharefonts				
F loadtfm	F trytosharefont				
F loadtfmvf	N version				
F loadvf	current	function			
F pktopdf	currentid	function			
F potracedtopdf	definers	table			
F showpk F addlookup					
reencode F analyze					
F setfeatures	atures F applypostprocessors				
N version F checkedmode					
vf F checkedscript					
T combinations	S defaultlookup				
	•				

Т

Т

Т

F define		enhanceid	function
F getspecification		expansions	data table
F internal		formats	data table
F loadfont		getalternate	function
F makespecification		getindices	function
T methods		getkern	function
F install		getmultiple	function
D variants		getsubstitution	function
F read		getters	table
F register		T alternate	
F registered		F opentype	
F registerfallbackf	ont	T kern	
F registersplit		F opentype	
F resetnullfont		F type1	
F resolve		F type3	
T resolvers		T multiple	
F file		F opentype	
F name		T substitution	
F spec		F opentype	
definetypeface	function	goodies	table
dropins	table	D colorschemes	
F clone		T data	
F getshape		T common-math.lf	g
F getshapes		S author	
F nextid		S comment	
F provide		S copyright	
F registerglyph		B initialized	
F registerglyphs		T mathematics	
F swap		T tweaks	
F swapone		T presets	
effects	table	F addmathk	erns
encodings	table	F braille	
T agl		F eulertoc	calligraphic
D ctxcodes		F fallback	(S
D extras		F modernto	calligraphic
D synonyms		F moveinte	egrals
D unicodes		F moveital	ics
D cache		F pagellar	adical
F is_known		F rsfstoso	ript
D known		F rsfsupri	ghttoscript
F load		F scriptto	ocalligraphic
F make_unicode_vect	or	F smalldig	jits
D math		F wipeanch	nors
N version		F wipeital	ics

F xitsarabic	D filenames	
S name	F getcompositions	
S version	T list	
T dejavu-math	F load	
S author	F prepare features	
S comment	F register	
S copyright	F registerpostproces	sor
B initialized	F report	
T mathematics	T suffixes	
T alternates	handlers	table
T dotless	hashes	table
S comment	D characters	
S feature	D classes	
N value	D csnames	
T bigslots	D descriptions	
T parameters	D dynamics	
N AccentBaseDepth	D emwidths	
N AccentTopShiftUp	D exheights	
N DelimiterDisplayPercent	D features	
N DelimiterDisplayShortfall	D identifiers	
N DelimiterPercent	D italics	
N DelimiterShortfall	D lastmathids	
N DisplayOperatorMinHeight	D marks	
N FlattenedAccentTopShiftUp	D mathparameters	
N FractionRuleThickness	D modes	
S PrimeBaselineDropMax	D originals	
S PrimeShiftUp	D parameters	
S PrimeShiftUpCramped	T processes	
N SubscriptShiftDown	D properties	
S SubscriptShiftDownWithSuperscript	D quads	
N SuperscriptShiftUp	D resources	
T tweaks	T setdynamics	
T aftercopying	T shapes	
S name	D spaces	
S version	D spacings	
T dejavu-text	T streams	
S author	D unicodes	
S comment	D unislots	
S copyright	D variants	
T extensions	D xheights	
B initialized	helpers	table
S name	F addextraprivate	
S version	F addprivate	
D designsizes	F appendcommands	

F	appendcommandtable	F stopcolor	
F	checkflags	T vfspecials	
F	checkmerge	T backgrounds	
F	checksteps	T outlines	
F	collectanchors	infofont	function
F	combineglyphs	iterators	table
D	commands	F characters	
F	composecharacters	F descriptions	
F	descriptiontoslot	F glyphs	
F	dimenfactor	loggers	table
F	expandglyph	F format	
D	extraprivates	F onetimemessage	
F	fontpatternhassize	F register	
F	getcoloredglyphs	F reportdefinedfonts	
F	getdigitwidth	F reportusedfeatures	
F	getinstancespec	mappings	table
F	getparameters	F addtounicode	
F	getprivatecharornode	F fromunicode16	
F	getprivatenode	F getentry	
F	getprivates	F loadfile	
F	getprivateslot	F loadline	
F	hasprivate	F makenameparser	
F	indextoslot	D overloads	
F	isprivate	F reset	
F	mathscriptslots	F tounicode	
F	name	F tounicode16	
F	nametoslot	F tounicode16sequence	е
F	newprivateslot	metapost	table
F	prependcommands	F baseline	
F	prependcommandtable	F boundingbox	
F	privateslot	F boxtomp	
F	registerglyphbox	F draw	
F	scalecommands	F fill	
F	setboxdirectly	F glyph	
F	setboxglyph	F maxbounds	
F	setboxglyphs	F paths	
F	setdigitwidth	F widthline	
F	setmetaglyph	F zeroline	
F	setmetaglyphs	mode	function
D	sharedprivates	names	data table
F	splitfontpattern	nulldata	data table
F	tochar	privateoffsets	table
Т	vfinjectors	B keepnames	
	F startcolor	N mathbase	

N mathextrabase		F registerfontfamily	F registerfontfamily			
N textbase		F textfallback				
N textextrabase		F typeface				
protrusions	data table	F typescript				
readers	table	F userdata				
F afm		specifiers	table			
F check_lua		D contextmerged				
F check_tfm		F contextnumber				
F lua		D contextnumbers				
F ofm		D contextsetups				
F opentype		F contexttostring				
F otf		F definecontext				
F pfb		F mergecontext				
D sequence		F presetcontext				
F tfm		F registercontext				
F ttc		T scriptsets				
F ttf		T af				
F woff		S language				
registersanitizer	function	N number				
reserveid	function	S script				
select	table	T always				
D alternatives		S autolanguage				
F bodyfont		S autoscript				
D data		B checkmissing				
F default		B curs				
D defaults		B kern				
F definefallbackfami	ily	B mark				
F definefontfamily		B mkmk				
F definefontfamilypr	reset	S mode				
D extras		N number				
F fallback		S script				
D fallbacks		S textcontrol				
F features		B wipemath				
F filefallback		T arabic				
F fontdata		B analyze				
F fontfallback		S autolanguage				
F fontsynonym		S autoscript				
F goodies		B calt				
F mathfallback		В сстр				
D methods		B clig				
D presets		B curs				
F registerfallback		B dlig				
F registerfiles		B fina				
F registerfontalter	native	B init				

D dead	Dtu
B isol	B vatu
B kern	T bengali-two
S language	B abvm
B liga	B abvs
B mark	B akhn
B medi	B blwf
B mkmk	B blwm
S mode	B blws
N number	B calt
B rlig	B cjct
S script	B dist
T ba	B half
S language	B haln
N number	S indic
S script	B init
T bandw:overlay	B kern
В сстр	S language
B dist	B locl
N number	S mode
T bengali-one	B nukt
B abvm	N number
B abvs	B pres
B akhn	B pstf
B blwf	B psts
B blwm	B rphf
B blws	S script
B calt	B vatu
B cjct	T boldened
B dist	S effect
B half	N number
B haln	T boldened-10
S indic	S effect
B init	N number
B kern	T boldened-15
S language	S effect
B locl	N number
S mode	T boldened-20
B nukt	S effect
N number	N number
B pres	T boldened-25
B pstf	S effect
B psts	N number
B rphf	T boldened-30
·	
S script	S effect

N number	S script
T ca	S textcontrol
S language	B wipemath
N number	Тсу
S script	S language
T camelcasing	N number
B camelcasing	S script
N number	T cz
T cn	S language
S language	N number
N number	S script
S script	T de
T color	S language
B ccmp	N number
S color	S script
B dist	T default
N number	S autolanguage
T color:bitmap	S autoscript
В сстр	B checkmissing
B dist	B curs
N number	B itlc
B sbix	B kern
T color:overlay	B liga
В сстр	B mark
B colr	B mkmk
B dist	S mode
N number	N number
T color:svg	S script
В сстр	S textcontrol
B dist	B wipemath
N number	T deo
B svg	S language
T complete	N number
S autolanguage	S script
S autoscript	T devanagari-one
B checkmissing	B abvm
B compose	B abvs
B curs	B akhn
B kern	B blwf
B liga	B blwm
B mark	B blws
B mkmk	B calt
S mode	B cjct
N number	B dist

B half	B unicoding
B haln	T es
S indic	S language
B kern	N number
S language	S script
B locl	T et
S mode	S language
B nukt	N number
N number	S script
B pres	T f:fractions
B psts	B frac
B rkrf	N number
B rphf	T f:inferiors
S script	N number
B vatu	B subs
T devanagari-two	T f:kern
B abvm	B kern
B abvs	N number
B akhn	T f:kerns
B blwf	B kern
B blwm	N number
B blws	T f:oldstyle
B calt	N number
B cjct	B onum
B dist	T f:smallcaps
B half	N number
B haln	B smcp
S indic	T f:superiors
B kern	N number
S language	B sups
B locl	T f:tabular
S mode	N number
B nukt	B tnum
N number	T fi
B pres	S language
B psts	N number
B rkrf	S script
B rphf	T followtext
S script	B liga
B vatu	N number
T dingbats	T fr
S goodies	S language
S mode	N number
N number	S script

Τfι	ullprotrusion	В	dist
N	number	В	half
S	protrusion	В	haln
T gı	r	S	indic
S	language	В	kern
N	number	S	language
S	script	В	locl
Τgι	rek	S	mode
N	number	В	nukt
S	script	N	number
Τgι	ujarati-one	В	pres
В	abvm	В	psts
В	abvs	В	rkrf
В	akhn	В	rphf
В	blwf	S	script
В	blwm	В	vatu
В	blws	Ç	jurmukhi-one
В	calt	В	abvm
В	cjct	В	abvs
В	dist	В	akhn
В	half	В	blwf
В	haln	В	blwm
S	indic	В	blws
В	kern	В	calt
S	language	В	cjct
В	locl	В	dist
S	mode	В	half
В	nukt	В	haln
N	number	S	indic
В	pres	В	kern
В	psts		language
	rkrf		locl
	rphf		mode
	script		nukt
	vatu	N	number
Τgι	ujarati-two		pres
	abvm		pstf
	abvs		psts
	akhn		rphf
	blwf		script
	blwm -		vatu
			jurmukhi-two
	calt		abvm
В	cjct	В	abvs

В			
	akhn		S script
В	blwf	Т	hr
В	blwm		S language
В	blws		N number
В	calt		S script
В	cjct	Т	hu
В	dist		S language
В	half		N number
В	haln		S script
S	indic	T	indic-common
В	kern		B abvm
S	language		B abvs
В	locl		B akhn
S	mode		B blwm
В	nukt		B blws
N	number		B calt
В	pres		B dist
В	pstf		B haln
В	psts		S indic
В	rphf		B kern
S	script		S language
В	vatu		B locl
Τh	ebrew		S mode
	ebrew analyze		S mode B nukt
В			
B S	analyze		B nukt
B S S B	analyze autolanguage autoscript calt		B nukt N number
B S S B	analyze autolanguage autoscript		B nukt N number B pres B psts B rphf
B S S B	analyze autolanguage autoscript calt		B nukt N number B pres B psts
B S S B B	analyze autolanguage autoscript calt ccmp clig curs	Т	B nukt N number B pres B psts B rphf
B S S B B B	analyze autolanguage autoscript calt ccmp clig curs dlig	Т	B nukt N number B pres B psts B rphf inlinenumbers N number B pnum
B S S B B B	analyze autolanguage autoscript calt ccmp clig curs dlig fina	Т	B nukt N number B pres B psts B rphf inlinenumbers N number B pnum B tnum
B S S B B B B	analyze autolanguage autoscript calt ccmp clig curs dlig fina init	Т	B nukt N number B pres B psts B rphf inlinenumbers N number B pnum B tnum is
B S S B B B B B B B	analyze autolanguage autoscript calt ccmp clig curs dlig fina init isol	Т	B nukt N number B pres B psts B rphf inlinenumbers N number B pnum B tnum is S language
B S S B B B B B B B B	analyze autolanguage autoscript calt ccmp clig curs dlig fina init isol kern	Т	B nukt N number B pres B psts B rphf inlinenumbers N number B pnum B tnum is S language N number
B S S S B B B B B B B B S S	analyze autolanguage autoscript calt ccmp clig curs dlig fina init isol kern language	Т	B nukt N number B pres B psts B rphf inlinenumbers N number B pnum B tnum is S language N number S script
B S S S B B B B B B B B B B B B B B B B	analyze autolanguage autoscript calt ccmp clig curs dlig fina init isol kern language	т	B nukt N number B pres B psts B rphf inlinenumbers N number B pnum B tnum is S language N number S script it
B S S S S B B B B B B B B B B B B B B B	analyze autolanguage autoscript calt ccmp clig curs dlig fina init isol kern language liga mark	т	B nukt N number B pres B psts B rphf inlinenumbers N number B pnum B tnum is S language N number S script it S language
B S S S S B B B B B B B B B B B B B B B	analyze autolanguage autoscript calt ccmp clig curs dlig fina init isol kern language liga mark medi	т	B nukt N number B pres B psts B rphf inlinenumbers N number B pnum B tnum is S language N number S script it S language N number
B S S S S S B B B B B B B B B B B B B B	analyze autolanguage autoscript calt ccmp clig curs dlig fina init isol kern language liga mark medi mkmk	т	B nukt N number B pres B psts B rphf inlinenumbers N number B pnum B tnum is S language N number S script it S language N number S script it S language N number
B S S S B B B B B B B B B B B B B B B B	analyze autolanguage autoscript calt ccmp clig curs dlig fina init isol kern language liga mark medi mkmk mode	т т	B nukt N number B pres B psts B rphf inlinenumbers N number B pnum B tnum is S language N number S script it S language N number S script ja
B S S S B B B B B B B B B B B B B B B B	analyze autolanguage autoscript calt ccmp clig curs dlig fina init isol kern language liga mark medi mkmk mode number	T T	B nukt N number B pres B pres B psts B rphf inlinenumbers N number B pnum B tnum is S language N number S script it S language N number S script ja S language
B S S S B B B B B B B B B B B B B B B B	analyze autolanguage autoscript calt ccmp clig curs dlig fina init isol kern language liga mark medi mkmk mode	т	B nukt N number B pres B psts B rphf inlinenumbers N number B pnum B tnum is S language N number S script it S language N number S script ja

Т	jamoforms		В	half
	B ljmo		В	haln
	N number		S	indic
	B tjmo		В	kern
	B vjmo		S	language
Т	just-os		В	locl
	S mode		S	mode
	N number		В	nukt
	B onum		N	number
Т	kannada-one		В	pref
	B abvm		В	pres
	B abvs		В	pstf
	B akhn		В	psts
	B blwf		В	rphf
	B blwm		S	script
	B blws	Т	ι	a
	B calt		S	language
	B cjct		N	number
	B dist		S	script
	B half	Т	ι	atn
	B haln		N	number
	S indic		S	script
	B kern	Т	ι	etterspacing
	S language		В	ccmp
	B locl		В	clig
	S mode		В	dlig
	B nukt		S	keepligatures
	N number		В	liga
	B pref		N	number
	B pres		В	rlig
	B pstf	Т	ι	igatures
	B psts		S	autolanguage
	B rphf		S	autoscript
	S script		В	checkmissing
Т	kannada-two		В	curs
	B abvm		В	kern
	B abvs		В	liga
	B akhn		В	mark
	B blwf		В	mkmk
	B blwm		S	mode
	B blws		N	number
	B calt		S	script
	B cjct		S	textcontrol
	B dist		В	wipemath

T lm-math-bold	B kern
S effect	S language
N number	B locl
T lowercasing	S mode
B lowercasing	B nukt
N number	N number
T malayalam-one	B pref
B abvm	B pres
B abvs	B pstf
B akhn	B psts
B blwf	B rphf
B blwm	S script
B blws	T math
B calt	B compactmath
B cjct	B flattenaccents
B dist	B kern
B half	S language
B haln	B mathalternates
S indic	S mathexpansion
B kern	S mode
S language	N number
B locl	S script
S mode	B ssty
B nukt	B wipemath
N number	T math-script
B pref	B compactmath
B pres	B flattenaccents
B pstf	B kern
B psts	S language
B rphf	B mathalternates
S script	S mathexpansion
T malayalam-two	S mode
B abvm	N number
B abvs	S script
B akhn	N ssty
B blwf	B wipemath
B blwm	T math-scriptscript
B blws	B compactmath
B calt	B flattenaccents
B cjct	B kern
B dist	S language
B half	B mathalternates
B haln	S mathexpansion
S indic	S mode

N number	S mset
S script	N number
N ssty	B rclt
B wipemath	B rlig
T math-text	S script
B compactmath	S textcontrol
B flattenaccents	B wipemath
B kern	T nl
S language	S language
B mathalternates	N number
S mathexpansion	S script
S mode	T none
N number	B features
S script	S mode
B ssty	N number
B wipemath	T oldstyle
T mathematics	S autolanguage
B compactmath	S autoscript
B flattenaccents	B checkmissing
B kern	B curs
S language	B kern
B mathalternates	B liga
S mathexpansion	B mark
S mode	B mkmk
N number	S mode
S script	N number
B wipemath	B onum
T mixed	S script
T mongolian	S textcontrol
S autolanguage	B wipemath
S autoscript	T oldstylenumbers
B calt	N number
B checkmissing	B onum
B curs	T original
B fina	S autolanguage
B init	S autoscript
B isol	B checkmissing
B itlc	B curs
B kern	B itlc
B liga	B kern
B mark	B liga
B medi	B mark
B mkmk	B mkmk
S mode	S mode

N. numbo n	M. numban
N number	N number
S script	B pres
S textcontrol	B pstf
B wipemath	B psts
T oriya-one	B rphf
B abvm	S script
B abvs	T pl
B akhn	S language
B blwf	N number
B blwm	S script
B blws	T primes
B calt	N number
B cjct	B primes
B dist	T pt
B haln	S language
S indic	N number
B kern	S script
S language	T quality
B locl	S expansion
S mode	N number
B nukt	S protrusion
N number	T reordercombining
B pres	N number
B pstf	B reordercombining
B psts	T ro
B rphf	S language
S script	N number
T oriya-two	S script
B abvm	T ru
B abvs	S language
B akhn	N number
B blwf	S script
B blwm	T semitic-complete
B blws	B analyze
B calt	S autolanguage
B cjct	S autoscript
B dist	B calt
B haln	В сстр
	B clig
S indic	-
S indic B kern	B curs
B kern	B curs
B kern S language	B dlig
B kern S language B locl	B dlig B fina
B kern S language	B dlig

B kern	B rlig
S language	S script
B liga	T simplehebrew
B mark	B analyze
B medi	S autolanguage
B mkmk	S autoscript
S mode	B calt
N number	В сстр
B rlig	B curs
T semitic-simple	B fina
B analyze	B init
S autolanguage	B isol
S autoscript	B kern
B calt	S language
В сстр	B mark
B curs	B medi
B fina	B mkmk
B init	S mode
B isol	N number
B kern	B rlig
S language	S script
B mark	T sk
B medi	S language
B mkmk	N number
S mode	S script
N number	T sl
B rlig	S language
T simplearabic	N number
B analyze	S script
S autolanguage	T slanted
S autoscript	N number
B calt	N slant
B ccmp	T smallcaps
B curs	S autolanguage
B fina	S autoscript
B init	B checkmissing
B isol	B curs
B kern	B kern
S language	B mark
B mark	B mkmk
B medi	S mode
B mkmk	N number
S mode	S script
N number	B smcp

S textcontrol	B abvm
B wipemath	B abvs
T sv	B akhn
S language	B blwm
N number	B blws
S script	B calt
T syriac	B dist
B analyze	B half
S autolanguage	B haln
S autoscript	S indic
B calt	B kern
В сстр	S language
B clig	B locl
B curs	S mode
B dlig	B nukt
B fin2	N number
B fin3	B pref
B fina	B pres
B init	B psts
B isol	B rphf
B kern	S script
S language	T tamil-two
B liga	B abvm
B mark	B abvs
B med2	B akhn
B medi	B blwm
B mkmk	B blws
S mode	B calt
N number	B dist
B rlig	B half
S script	B haln
T system:tabnum	S indic
B lnum	B kern
N number	S language
B tnum	B locl
T tabledigits	S mode
N number	B nukt
B tabledigits	N number
B tnum	B pref
T tabularnumbers	B pres
N number	B psts
B pnum	B rphf
B tnum	S script
T tamil-one	T telugu-one

В	abvm		B pres
В	abvs		B pstf
В	akhn		B psts
В	blwf		B rphf
В	blwm		S script
В	blws	Т	th
В	calt		S language
В	cjct		N number
В	dist		S script
В	half	Т	tibetan
В	haln		B abvm
S	indic		B abvs
В	kern		S autolanguage
S	language		S autoscript
В	locl		B blwm
S	mode		B blws
В	nukt		B calt
N	number		B ccmp
В	pref		B checkmissing
В	pres		B curs
В	pstf		B kern
В	psts		S language
В	rphf		B liga
S	script		B locl
Τt	elugu-two		B mark
В	abvm		B mkmk
В	abvs		S mode
	akhn		N number
В	blwf		S script
	blwm		S textcontrol
	blws		B wipemath
	calt	Т	tr
	cjct		S language
	dist		N number
	half		S script
	haln	Т	uk
	indic .		S language
	kern		N number
	language	_	S script
	locl	I	uppercasing
	mode		N number
	nukt	_	B uppercasing
	number	I	us
В	pref		S language

N number	F showcontext	
S script	F splitcontext	
T virtualmath	D synonyms	
B compactmath	D variants	
B flattenaccents	symbols	table
B kern	T emoji	
S language	F checked	
B mathalternates	F resolved	
S mathexpansion	F uselibrary	
S mode	tables	table
N number	toeffect	function
S script	tracers	table
S script B wipemath	tracers treatments	table table
·		
B wipemath	treatments	
B wipemath T vn	<b>treatments</b> F applyfixes	
B wipemath T vn S language	<b>treatments</b> F applyfixes  D data	
B wipemath T vn S language N number	treatments F applyfixes D data S filename	

## functions (context)

**dummy** function

# graphics (context)

backgrounds	table	registerpdffont	function
F fetchmultipar		synchronizers	table
F pair		F collapse	
F path		F collect	
F point		F extend	
bitmaps	table	F getbottom	
F flush		F getd	
F new		F geth	
F placeholder		F getkind	
F tocontext		F getsize	
identifiers	table	F gettask	
F bitmap		F gettop	
F jp2		F getw	
F jpg		F getx	
F png		F gety	
identify	function	F prune	
${\it registerpdfcompactor}$	function		

# gzip (context)

compress	function	load	function
compressed	function	save	function
decompress	function	suffix	function

# images (context)

check	function	В сгор	
checksize	function	B media	
сору	function	B none	
create	function	B trim	
embed	function	storedata	function
${\tt embedfromstore}$	function	totable	function
fetchdata	function	types	table
keys	table	N jbig2	
print	function	N jp2	
resetdata	function	N jpg	
resetstore	function	N none	
scan	function	N pdf	
serialize	function	N png	
sizes	table	N stream	
B art		wrap	function
B bleed			

#### interactions (context)

attachments data table fields table F clone F define F defineset F insert general table F getidentity F getidentityvariable 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 data table pages table F setpagetransition F setupcanvas table references F setclosedocumentaction F setclosepageaction F setopendocumentaction F setopenpageaction

data table

renderings

#### interfaces (context)

arrays	table	namesofscanners	table
cachedsetups	data table	namespaces	table
cachesetup	function	F define	table
cardinals	table	F list	
		numbers	table
checkedspecification			20020
complete	data table	registernamespace	function
constants	data table	registerscanner	function
corenamespaces	data table	scanners	data table
currentinterface	string	setconstant	function
currentresponse	string	setcount	function
definecommand	function	setdimen	function
defined	function	setelement	function
doifelsemessage	function	setformat	function
elements	data table	setmacro	function
floats	table	setmessage	function
formats	data table	setmessages	function
getmessage	function	settranslation	function
getnamespace	function	setupstrings	data table
getsetupstring	function	setvariable	function
hashedsetups	data table	showmessage	function
implement	function	storedscanners	data table
integers	table	tolist	function
interfacedcommand	function	translations	data table
interfaces	table	usednamespaces	data table
knownscanner	function	variables	data table
message	function	writestatus	function
nameofscanner	function		

# io (basic lua)

ask	function	open	overloaded function
bytes	function	output	overloaded function
characters	function	pathseparator	string
close	function	popen	overloaded function
copydata	function	read	function
exists	function	readall	function
fileseparator	string	readnumber	function
flush	function	readstring	function
gobble	function	savedata	function
input	overloaded function	size	function
lines	overloaded function	stderr	userdata
loadchunk	function	stdin	userdata
loaddata	function	stdout	userdata
loadlines	function	tmpfile	function
newreader	function	type	function
noflines	function	write	function

# job (context)

comment	function	D collected	
datasets	table	F countervalue	
D collected	cabic	F extend	
F extend		F realpage	
F getdata		F realpageorder	
F setdata		F setstate	
D tobesaved		D tobesaved	
disablesave	function	parwrappers	table
embedded	table	D collected	
D collected		D tobesaved	
D tobesaved		positions	table
fileobjreferences	table	F b column	
D collected		- F b region	
D tobesaved		_	
files	table	D collected	
D collected		F column	
F context		F columnofpos	
B forcerun		F copy	
F run		F depth	
D tobesaved		F e_column	
getrandomseed	function	F e_region	
initialize	function	F enhance	
linkedlists	table	F extra	
D collected		F get	
D tobesaved		F getcolumndata	
load	function	F getfree	
loadother	function	F gethpos	
meshedup	table	F getpos	
D collected		F getreserved	
D tobesaved		F getrpos	
objects	table	F getsync	
D collected		F gettobesaved	
F get		F getvpos	
F number		F hangafter	
F page		F hangindent	
F save		F height	
F set		F hsize	
D tobesaved		N lastx	
pack 	boolean	N lasty	
packversion	number	F leftskip	
pagestates	table	F lowerleft	

F lowerright F width F markregionbox Fx Fn F xy F onsamepage Fу register function F overlapping function save F p table structure F page F paragraph D collected F parindent T components F position T namestack Fr T tobesaved T branches F region F registerhandlers S name F replace S type variables table F rightskip F set D checksums F setall D collected F setregionbox F getchecksum F makechecksum F setspec F restore F settobesaved D tobesaved F save F upperleft F setchecksum F upperright D tobesaved

F used

F whd

version

number

# language (basic tex)

clean	function	id	function
clearhyphenation	function	new	function
clearpatterns	function	patterns	function
current	function	postexhyphenchar	function
gethjcode	function	posthyphenchar	function
has_language	function	preexhyphenchar	function
hyphenate	function	prehyphenchar	function
hyphenation	function	sethjcode	function
hyphenationmin	function	setwordhandler	function

# languages (context)

F injecthyphens

addgoodiesdata	function	F installmethod	
addgoodiesfile	function	F lasttrace	
appliedoptions	table	F loadpatterns	
associate	function	F registerexception	
associated	data table	F registerpattern	
association	function	F setfeatures	
counters	data table	installed	function
current	function	installhandler	function
data	data table	labels	table
decimals	data table	F define	
define	function	F split	
explicithyphen	function	loadable	function
flatten	function	loadwords	function
frequencies	table	logger	table
F averagecharwidth		F report	
F getdata		nofflattened	function
getdata	function	numbers	data table
getnumber	function	postexhyphenchar	function
goodiefiles	function	posthyphenchar	function
hjcounts	table	preexhyphenchar	function
hyphenate	function	prehyphenchar	function
hyphenators	table	registered	data table
T dictionaries		registeredactions	table
D featuresets		replacements	table
F handler		F add	
T methods		F addlist	
F expanded		F handler	
B none		F set	
F original		serializediscretionary	function
F tex		setexceptions	function
F traditional		setgoodieshandler	function
F popmethod		setoptions	function
F pushmethod		setpatterns	function
F setmethod		setsynonym	function
F setup		setwordhandler	function
F showhyphenationtrace		showdiscretionaries	function
T traditional		strippedgoodiewords	function
F definefeatures		tolang	function
F gettrace		transliteration	table
F hyphenate		F exception	

F handler

visualizediscretionaries function F register words table F set F check F use function unload T data urls table F disable D characters F enable T enablers N lefthyphenmin D mapping B enables B packslashes F found N righthyphenmin F load T methods F setcharacters version number N threshold

#### layouts (context)

getcanvasfunctionstatustagetpagedimensionsfunctionF isleftpagesetupcanvasfunctionF leftorrightpageaction

table

# lfs (extra lua)

attributes	overloaded	function	link	overloaded	function
chdir	overloaded	function	mkdir	${\tt overloaded}$	function
currentdir	function		mkdirs	function	
dir	overloaded	function	modification	function	
isdir	overloaded	function	readlink	function	
isfile	overloaded	function	rmdir	overloaded	function
isfound	function		setexecutable	function	
isreadabledir	function		symlink	function	
isreadablefile	function		symlinktarget	function	
iswriteabledir	function		touch	overloaded	function
iswriteablefile	function		walkdir	function	

#### libraries (context)

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

#### lmx (context)

color	function
convert	function
convertfile	function
convertstring	function
einject	function
eprint	function
escape	function
finalized	function
finject	function
fprint	function
get	function
getvariables	function
htmfile	function
html	table

F a F td F th

include function
inherited table

S color-background-four

S color-background-one

S color-background-three

S color-background-two

S title

initialize function
inject function
lmxfile function

loadedfile	function
make	function
new	function
overloaderror	function
popupfile	function
print	function
pv	function
report	function
reset	function
result	function
set	function
show	function
showerror	function
stripcss	function
tv	function
type	function
urlescape	function
variable	function
variables	table

- S color-background-blue
- S color-background-body
- S color-background-green
- S color-background-main
- S color-background-purple
- S color-background-yellow
- S title-default

# logs (context)

	£	+6	£
application	function	setformats	function
categories	function	setformatters	function
direct	function	setlogfile	function
disable	function	setmessenger	function
enable	function	setprocessor	function
finalactions	function	settarget	function
flush	function	settimedlog	function
loggingerrors	function	settranslations	function
messenger	function	show	function
new	function	start_page_number	function
newline	function	start_run	function
poplogfile	function	starterrorlogging	function
poptarget	function	startfilelogging	function
private	table	status	function
F enablepagetiming		stop_page_number	function
F getpagetiming		stoperrorlogging	function
pushlogfile	function	stopfilelogging	function
pushtarget	function	subdirect	function
registerfinalactions	function	subreport	function
report	function	system	function
reporter	function	texerrormessage	function
resetlogfile	function	writer	function

# lpdf (context)

action	function	copyunicode	function
	function	deferredobject	function
adddocumentcolorspace adddocumentextgstate	function	delayedobject	function
adddocumentpattern	function	destinationspecification	function
adddocumentshade	function	dictionary	function
addtocatalog	function	docstring	function
addtoinfo	function	encodingvalues	table
addtonames	function	N base16	tabte
addtopageattributes	function	N base10	
addtopageresources	function	N decoded	
addtopagesattributes	function	N encoded	
addxmpinfo	function	N plain	
annotationspecification	function	N utf16be	
array	function	N utf16le	
attachmentsymbols	function	epdf	table
boolean	function	F allcontent	
border	function	F analyzefonts	
checkedkey	function	F contentplugin	
checkedresources	function	F contenttostring	
checkedvalue	function	F contenttotext	
circularshade	function	D encryptioncodes	
close	function	F expanded	
cmykcode	function	F expandwidths	
collectedresources	function	F fontplugin	
color	function	F getpagecontent	
colorspace	function	F getstructure	
colorspaceconstants	data table	T helpers	
colorspec	function	F tounicodetable	
colorvalue	function	T image	
colorvalues	function	F close	
commentsymbols	function	F copy	
compresslevel	function	F new	
constant	function	F open	
copyarray	function	F query	
copyboolean	function	F load	
copyconstant	function	F mergewidths	
copydictionary	function	D objectcodes	
copyfloat	function	F objectrange	
copyinteger	function	F objecttype	
copynumber 	function	F pageplugin	
copystring	function	F parsecontent	

F producer		N PopUp	
T resolvers		N PushButton	
F destinations		N Radio	
F embeddedfiles		N RadiosInUnison	
F javascripts		N ReadOnly	
F layers		N Required	
F pages		N RichText	
F structure		N Sort	
F widgets		N file	
F unload		N fixed	
F verboseobject		N nocheck	
escaped	function	N protected	
finalizedocument	function	N readonly	
finalizepage	function	N required	
finalizesignature	function	N sorted	
finishtransparencycode	function	N unavailable	
flags	table	flushfonts	function
T annotations		flushgroup	function
N AutoView		flushobject	function
N Hidden		flushstreamfileobject	function
N Invisible		flushstreamobject	function
N Locked		fonts	table
N LockedContents		F color_direct	
N NoRotate		F color_indirect	
N NoView		formats	data table
N NoZoom		frombytes	function
N Print		fromeight	function
N Printable		frompdfdoc	function
N ReadOnly		fromsixteen	function
N ToggleNoView		getcatalog	function
N auto		getcompression	function
N hidden		getfontname	function
N printable		getfontobjectnumber	function
T widgets		getinfo	function
N Comb		getmatrix	function
N CommitOnSelChange		getnofpages	function
N DoNotScroll		getpageproperties	function
N DoNotSpellCheck		getpagereference	function
N Edit		getpagetags	function
N FileSelect		getpos	function
N MultiLine		gettrailerid	function
N NoExport		getversion	function
N NoToggleToOff		getxformname	function
N Password		graycode	function

h_hex_2	table	N fillin	
S		N modify	
S		N print	
S		N quality	
S		preparesignature	function
S		print	function
S (		procset	function
S )		protectresources	boolean
S \		quads	function
h_hex_4	table	rectangle	function
hasmatrix	function	reference	function
immediateobject	function	registerannotation	function
includeimage	function	registerdestination	function
initialize	function	registerdocumentfinalizer	function
injectors	table	registerfontmethod	function
F bitmap		registerinitializer	function
F jp2		registerpagefinalizer	function
F jpg		registerpattern	function
F png		registersignature	function
injectxmpinfo	function	replacexmpinfo	function
insertxmpinfo	function	reserveobject	function
lastreferredpage	function	rgbcode	function
layerreference	function	rotationcm	function
limited	function	setcompression	function
linearshade	function	setencryption	function
literal	function	setincludecidset	function
majorversion	function	setincludeprocset	function
makenametree	function	setpageorder	function
minorversion	function	setpagestate	function
noffontregistries	function	setpagetag	function
nofpages	function	setuserdata	function
null	function	setversion	function
number	function	sharedobject	function
object	function	shareobject	function
objectcompresslevel	function	shareobjectreference	function
pagereference	function	spotcode	function
patternstream	function	stream	function
pdfcolor	function	string	function
pdftimestamp	function	tocidset	function
permissions	table	toeight	function
N access		topdfdoc	function
N add		topermissions	function
N assemble		tosixteen	function
N extract		transparency	function

transparencycode	function	N dejavusansmonoboldttf-1-0-0	
transparencygroups	table	<pre>usedfontobjects</pre>	
B none		N dejavusansmonoboldttf-1-0-0	
transparencyvalue	function	<pre>usedfontstreams</pre>	
unicode	function	<b>usedindices</b> table	
usedcharacters	table	T dejavusansmonoboldttf-1-0-0	
usedfontnames	table	verbose function	

# lpeg (basic lua)

В	function	firstofsplit	function
C	function	frontstripper	function
Carg	function	instringchecker	function
Cb	function	is_lpeg	function
Cc	function	keeper	function
Cf	function	locale	function
Cg	function	match	function
Cmt	function	oneof	function
Ср	function	patterns	data table
Cs	function	pcode	function
Ct	function	print	function
P	function	ptree	function
R	function	replacer	function
S	function	secondofsplit	function
UP	function	setmaxstack	function
UR	function	setutfcasers	function
US	function	split	function
V	function	splitat	function
afterprefix	function	splitter	function
anywhere	function	stripper	function
append	function	times	function
balancer	function	tsplitat	function
beforesuffix	function	tsplitter	function
checkedsplit	function	type	function
containsws	function	utfR	function
counter	function	utfchartabletopattern	function
endstripper	function	utfreplacer	function
finder	function	version	string

# lua (basic tex)

bytecode table getversion function bytedata data table lastbytecode number bytedone table messages data table callbytecode function newindex function finalizeinitex function newtable function firstbytecode number numbers data table get_functions_table function registercode function getbytecode function registeredcodes function getdebuginfo function registerinitexfinalizer function getdebuginfo function setbytecode function setbytecode function setbytecode function getgetinctionstable overloaded function setexitcode function getpreciseseconds function setnibble function setnibble function getpreciseseconds function subnibble function getruntime function yersion string getstacktop	addnibble	function	getstartupfile	function
bytedone table messages data table callbytecode function newindex function finalizeinitex function newtable function firstbytecode number numbers data table get_functions_table function registercode function getbytecode function registeredcodes function getdebuginfo function registerinitexfinalizer function getexitcode function setbytecode function setbytecode function getfunctionstable overloaded function setexitcode function getpreciseseconds function startupfile string getpreciseticks function subnibble function getruntime function setring string setruntime function setring string setruntime function setring string	bytecode	table	getversion	function
callbytecodefunctionnewindexfunctionfinalizeinitexfunctionnewtablefunctionfirstbytecodenumbernumbersdata tableget_functions_tablefunctionregistercodefunctiongetbytecodefunctionregisteredcodesfunctiongetcurrenttimefunctionregisterinitexfinalizerfunctiongetdebuginfofunctionregisternamefunctiongetexitcodefunctionsetbytecodefunctiongetfunctionstableoverloaded functionsetexitcodefunctiongetnibblefunctionsetnibblefunctiongetprecisesecondsfunctionstartupfilestringgetpreciseticksfunctionsubnibblefunctiongetruntimefunctionversionstring	bytedata	data table	lastbytecode	number
finalizeinitex function newtable function firstbytecode number numbers data table get_functions_table function registercode function getbytecode function registeredcodes function getcurrenttime function registerinitexfinalizer function getexitcode function setbytecode function setbytecode function getfunctionstable overloaded function setexitcode function getribble function setnibble function setnibble function getpreciseseconds function subnibble function getruntime function subnibble function string	bytedone	table	messages	data table
firstbytecode number numbers data table get_functions_table function registercode function getbytecode function registeredcodes function getcurrenttime function registerinitexfinalizer function getdebuginfo function registername function getexitcode function setbytecode function getfunctionstable overloaded function setexitcode function getnibble function setnibble function setnibble function getpreciseseconds function startupfile string getpreciseticks function version string	callbytecode	function	newindex	function
get_functions_tablefunctionregistercodefunctiongetbytecodefunctionregisteredcodesfunctiongetcurrenttimefunctionregisterinitexfinalizerfunctiongetdebuginfofunctionregisternamefunctiongetexitcodefunctionsetbytecodefunctiongetfunctionstableoverloaded functionsetexitcodefunctiongetnibblefunctionsetnibblefunctiongetprecisesecondsfunctionstartupfilestringgetpreciseticksfunctionsubnibblefunctiongetruntimefunctionversionstring	finalizeinitex	function	newtable	function
getbytecodefunctionregisteredcodesfunctiongetcurrenttimefunctionregisterinitexfinalizerfunctiongetdebuginfofunctionregisternamefunctiongetexitcodefunctionsetbytecodefunctiongetfunctionstableoverloaded functionsetexitcodefunctiongetnibblefunctionsetnibblefunctiongetprecisesecondsfunctionstartupfilestringgetpreciseticksfunctionsubnibblefunctiongetruntimefunctionversionstring	firstbytecode	number	numbers	data table
getcurrenttimefunctionregisterinitexfinalizerfunctiongetdebuginfofunctionregisternamefunctiongetexitcodefunctionsetbytecodefunctiongetfunctionstableoverloaded functionsetexitcodefunctiongetnibblefunctionsetnibblefunctiongetprecisesecondsfunctionstartupfilestringgetpreciseticksfunctionsubnibblefunctiongetruntimefunctionversionstring	get_functions_table	function	registercode	function
getdebuginfofunctionregisternamefunctiongetexitcodefunctionsetbytecodefunctiongetfunctionstableoverloaded functionsetexitcodefunctiongetnibblefunctionsetnibblefunctiongetprecisesecondsfunctionstartupfilestringgetpreciseticksfunctionsubnibblefunctiongetruntimefunctionversionstring	getbytecode	function	registeredcodes	function
getexitcodefunctionsetbytecodefunctiongetfunctionstableoverloaded functionsetexitcodefunctiongetnibblefunctionsetnibblefunctiongetprecisesecondsfunctionstartupfilestringgetpreciseticksfunctionsubnibblefunctiongetruntimefunctionversionstring	getcurrenttime	function	registerinitexfinalizer	function
getfunctionstable getnibbleoverloaded functionsetexitcodefunctiongetnibblefunctionsetnibblefunctiongetprecisesecondsfunctionstartupfilestringgetpreciseticksfunctionsubnibblefunctiongetruntimefunctionversionstring	getdebuginfo	function	registername	function
getnibblefunctionsetnibblefunctiongetprecisesecondsfunctionstartupfilestringgetpreciseticksfunctionsubnibblefunctiongetruntimefunctionversionstring	getexitcode	function	setbytecode	function
getprecisesecondsfunctionstartupfilestringgetpreciseticksfunctionsubnibblefunctiongetruntimefunctionversionstring	getfunctionstable	overloaded function	setexitcode	function
getpreciseticksfunctionsubnibblefunctiongetruntimefunctionversionstring	getnibble	function	setnibble	function
getruntime function version string	getpreciseseconds	function	startupfile	string
-	getpreciseticks	function	subnibble	function
<pre>getstacktop function</pre>	getruntime	function	version	string
· ·	getstacktop	function		

#### luac (extra lua)

inspect function
print function

#### luatex (context)

abort function F disable function cleanup F enable cleanuptempfiles function F finish currentfile function F pause currentlevel function F popline currenttotal function F pushline function poprunstate F registerdisabler function pushrunstate F registerenabler registerdumpactions function F resetfilename registerpageactions function F resume registerstartactions function F setfilename registerstopactions function F setup registertempfile function F start number starttime F stop svnctex table F wrapup

F blockfilename wrapup function

F collect

# lxml (context)

all function first function applyfunction function first function applyselectors function flush function att function flushlinewise function att function flushsetups function badinclusions function flushspacewise function chainattribute function get_id function checkindex function getid function collected function getindex function command function id function id function concat function idsplitter userdata concatrange function ifatt function context function include function convert function include function include function inclusion function inclusion function index function index function index function delete function index function direct function installsetup function direct function installsetup function directives table last function function function function directives table last function lastmatch function installsetup function directives table last function lastmatch function f				
applyfunction function first function applyselectors function flush function att function flush function flushsetups function flushspacewise function flushspacewise function flushspacewise function flushspacewise function get_id function getid function collected function getindex function collected function id function id function concat function idsplitter userdata concatrange function ifatt function context function ifatt function convert function include function convert function include function include function inclusion function delete function index function index function direct function index function function function function inclusion function direct function installsetup function directives table last function function function function findex function f	addindex	function	filter	function
applyselectors function flush function att function flushsetups function flushspacewise function flushspacewise function flushspacewise function flushspacewise function flushspacewise function get_id function getid function collected function getindex function id function command function id function id function concat function idsplitter userdata concatrange function ifatt function context function ifattempty function convert function include function include function include function inclusion function inclusion function delete function index function index function direct function installsetup function function function function installsetup function function function function installsetup function directives table last function function function function finetion function function function function function faster function f				
att function flushlinewise function badinclusions function flushspacewise function chainattribute function get_id function collected function getindex function command function id function id function concat function id function id function context function ifattempty function context function include function include function include function inclusion function installsetup function direct function installsetup function function function function lastatt function function function function function for function for function for function				
attribute function flushsetups function badinclusions function flushspacewise function chainattribute function get_id function collected function getindex function command function id function id function concat function idsplitter userdata concatrange function ifatt function context function include function convert function include function include function inclusion function delete function inclusions function depth function inclusions function inclusion function function function inclusion function inclusion function inclusion function direct function inclusions function function function directives table last function function function function function for fatter function func				
badinclusionsfunctionflushspacewisefunctionchainattributefunctionget_idfunctioncheckindexfunctiongetindexfunctioncollectedfunctionidfunctioncommandfunctionidsplitteruserdataconcatfunctionifattfunctionconcatrangefunctionifattemptyfunctioncontextfunctionincludefunctionconvertfunctioninclusionfunctioncountfunctionindexfunctiondeletefunctioninlineverbatimfunctiondirectfunctioninstallsetupfunctiondirectivestablelastfunctionF afterlastattfunctionF beforelastmatchfunctionF loadloadfunctionF setuploadfunctiondisplayverbatimfunctionloaddatafunctiondoiffunctionloadedtabledoifelsefunctionloadedtabledoifelsefunctionmainfunctiondoifelseemptyfunctionmatchfunctiondoifelsetextfunctionnamefunction				
chainattribute function get_id function checkindex function getid function collected function getindex function command function id function concat function idsplitter userdata concatrange function ifatt function context function include function convert function include function count function inclusion function delete function index function direct function inlineverbatim function direct function installsetup function f F after lastatt function F before lastmatch function F before lastmatch function F setup  displayverbatim function doif function loaddata function doifelse function main function doifelseempty function match function doifelseempty function match function doifelsetext function mame function			•	
checkindex function getid function collected function getindex function command function id function concat function idsplitter userdata concatrange function ifatt function content function include function convert function include function convert function inclusion function count function inclusion function delete function index function direct function installsetup function direct function installsetup function function function function function installsetup function directives table last function function for food function for food function for food function for food function function for function function function for function f		function	flushspacewise	function
collected function getindex function command function id function concat function idsplitter userdata concatrange function ifatt function content function include function context function include function convert function inclusion function count function inclusion function delete function index function depth function intlineverbatim function direct function installsetup function function function function function installsetup function for fafter last function for fload function for fload function from function funct		function	<del>get_id</del>	function
command function id function concat function idsplitter userdata concatrange function ifatt function content function include function convert function inclusion function count function inclusions function delete function index function direct function installsetup function direct function installsetup function f after lastatt function F before lastmatch function F handle lastmatch function F before lastmatch function f setup load function displayverbatim function loaddata function diff function loaddata function doif function main function doifelse function match function doifelsetext function match function f function mame function	checkindex	function	getid	function
concat function idsplitter userdata concatrange function ifatt function content function include function convert function include function convert function inclusion function count function inclusions function delete function inclusions function depth function inlineverbatim function direct function installsetup function directives table last function Fafter lastatt function F before lastmatch function F handle F load load function f setup function displayverbatim function loaddata function doif function function main function doifelse function main function doifelseempty function match function doifelsetext function name function	collected	function	getindex	function
concatrange function ifatt function content function function include function context function inclusion function convert function inclusion function delete function index function depth function inlineverbatim function direct function installsetup function frafter lastatt function function function frafter lastatt function frandle function fracture function frandle fload function fracture function fracture function frandle fload function fracture function function function function function function function function function doif function function function doif function function function doifelseempty function match function doifelsetext function name function	command	function	id	function
contentfunctionifattemptyfunctioncontextfunctionincludefunctionconvertfunctioninclusionfunctioncountfunctionindexfunctiondeletefunctioninlineverbatimfunctiondepthfunctioninstallsetupfunctiondirectfunctioninstallsetupfunctiondirectivestablelastfunctionF afterlastmatchfunctionF beforelastmatchfunctionF handlelastparfunctionF loadloadfunctionF setuploaddatafunctiondisplayverbatimfunctionloaddatafunctiondoiffunctionloadedtabledoifelsefunctionmainfunctiondoifelseemptyfunctionmatchfunctiondoifelsetextfunctionnamefunction	concat	function	idsplitter	userdata
<pre>context function convert function count function delete function depth function direct function  f after F before F handle F load F setup f function displayverbatim function doifelseempty f function f fun</pre>	concatrange	function	ifatt	function
convertfunctioninclusionfunctioncountfunctioninclusionsfunctiondeletefunctionindexfunctiondepthfunctioninlineverbatimfunctiondirectfunctioninstallsetupfunctiondirectivestablelastfunctionF afterlastattfunctionF beforelastmatchfunctionF handlelastparfunctionF loadloadfunctionF setuploadbufferfunctiondisplayverbatimfunctionloaddatafunctiondoiffunctionloadedtabledoifelsefunctionmainfunctiondoifelseemptyfunctionmatchfunctiondoifelsetextfunctionmatchfunction	content	function	ifattempty	function
count function inclusions function delete function index function depth function inlineverbatim function direct function installsetup function directives table last function  F after lastatt function  F before lastmatch function  F handle lastpar function  F load load function  F setup loadbuffer function  displayverbatim function loaddata function doif function loaded table  doifelse function main function  doifelseempty function match function  doifelsetext function name function	context	function	include	function
deletefunctionindexfunctiondepthfunctioninlineverbatimfunctiondirectfunctioninstallsetupfunctiondirectivestablelastfunctionF afterlastattfunctionF beforelastmatchfunctionF handleloadfunctionF loadloadfunctionF setuploadbufferfunctiondisplayverbatimfunctionloaddatafunctiondoiffunctionloadedtabledoifelsefunctionmainfunctiondoifelseemptyfunctionmatchfunctiondoifelsetextfunctionnamefunction	convert	function	inclusion	function
depthfunctioninlineverbatimfunctiondirectfunctioninstallsetupfunctiondirectivestablelastfunctionF afterlastattfunctionF beforelastmatchfunctionF handlelastparfunctionF loadloadfunctionF setuploadbufferfunctiondisplayverbatimfunctionloaddatafunctiondoiffunctionloadedtabledoifelsefunctionmainfunctiondoifelseemptyfunctionmatchfunctiondoifelsetextfunctionnamefunction	count	function	inclusions	function
directfunctioninstallsetupfunctiondirectivestablelastfunctionF afterlastattfunctionF beforelastmatchfunctionF handleloadfunctionF loadloadfunctionF setuploadbufferfunctiondisplayverbatimfunctionloaddatafunctiondoiffunctionloadedtabledoifelsefunctionmainfunctiondoifelseemptyfunctionmatchfunctiondoifelsetextfunctionnamefunction	delete	function	index	function
directivestablelastfunctionF afterlastattfunctionF beforelastmatchfunctionF handlelastparfunctionF loadloadfunctionF setuploadbufferfunctiondisplayverbatimfunctionloaddatafunctiondoiffunctionloadedtabledoifelsefunctionmainfunctiondoifelseemptyfunctionmatchfunctiondoifelsetextfunctionnamefunction	depth	function	inlineverbatim	function
F after lastatt function F before lastmatch function F handle lastpar function F load load function F setup loadbuffer function displayverbatim function loaddata function doif function loaded table doifelse function main function doifelseempty function match function doifelsetext function name function	direct	function	installsetup	function
F before lastmatch function F handle lastpar function F load load function F setup loadbuffer function displayverbatim function loaddata function doif function loaded table doifelse function main function doifelseempty function match function doifelsetext function name function	directives	table	last	function
F handle F load F load F setup  displayverbatim f unction f unction  doif f unction f unction loaddata f unction loaddata f unction loaded table doifelse f unction main f unction doifelseempty f unction match f unction f unction	F after		lastatt	function
F load function F setup loadbuffer function  displayverbatim function loaddata function  doif function loaded table  doifelse function main function  doifelseempty function match function  doifelsetext function name function	F before		lastmatch	function
F setup loadbuffer function displayverbatim function loaddata function doif function loaded table doifelse function main function doifelseempty function match function doifelsetext function name function	F handle		lastpar	function
displayverbatimfunctionloaddatafunctiondoiffunctionloadedtabledoifelsefunctionmainfunctiondoifelseemptyfunctionmatchfunctiondoifelsetextfunctionnamefunction	F load		load	function
doiffunctionloadedtabledoifelsefunctionmainfunctiondoifelseemptyfunctionmatchfunctiondoifelsetextfunctionnamefunction	F setup		loadbuffer	function
doifelsefunctionmainfunctiondoifelseemptyfunctionmatchfunctiondoifelsetextfunctionnamefunction	displayverbatim	function	loaddata	function
doifelseemptyfunctionmatchfunctiondoifelsetextfunctionnamefunction	doif	function	loaded	table
doifelsetext function name function	doifelse	function	main	function
	doifelseempty	function	match	function
<pre>doifempty function namespace function</pre>	doifelsetext	function	name	function
	doifempty	function	namespace	function
doifnot function nonspace function	doifnot	function	nonspace	function
doifnotempty function par function	doifnotempty	function	par	function
doifnottext function param function	doifnottext	function	param	function
doiftext function parameter function	doiftext	function	parameter	function
element function path function	element	function	path	function
elements function popmatch function	elements	function	popmatch	function
entities data table pos function	entities	data table	• •	function
fileline function position function	fileline	function	position	function
filename function pure function	filename	function	pure	function

pushmatch	function	sorters	table
raw	function	F add	
rawroot	function	F compare	
rawtex	function	F flush	
refatt	function	F reset	
register	function	F show	
registerentity	function	F sort	
removesetup	function	splitid	function
replace	function	startraw	function
resetcdata	function	startunescaped	function
resetsetups	function	stopraw	function
resolvedentity	function	stopunescaped	function
root	function	store	function
save	function	strip	function
serialize	function	stripped	function
setaction	function	tag	function
setatt	function	texatt	function
setattribute	function	text	function
setcdata	function	tobuffer	function
setcommandtonone	function	tofile	function
setcommandtotext	function	toparameters	function
setpar	function	toverbatim	function
setparam	function	verbatim	function
setparameter	function	withindex	function
setsetup	function	xmltexhandler	data table
snippet	function		

#### math (basic lua)

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

min	function	
mininteger	number	
mod	function	
modf	function	
odd	function	
pi	number	
pow	function	
rad	function	
random	overloaded	function
randomseed	function	
round	function	
setrandomseedi	function	
sin	function	
sind	function	
sinh	function	
sqrt	function	
tan	function	
tand	function	
tanh	function	
tointeger	function	
type	function	

function

ult

#### mathematics (context)

addfallbacks	function	familyname	function
addvariant	function	functiontype	function
alphabets	data table	gaps	data table
alternatives	data table	getblobindex	function
beforepassingfonttotex	function	getboth	function
big	function	getdomainname	function
boldmap	data table	getextensibledata	function
categories	table	getmathblob	function
D functions		getoptionallabel	function
charactersets	data table	getstyle	function
checkaftercopyingfont	function	gettextblob	function
classes	data table	getverboselabel	function
classnames	data table	horizontalcode	function
codes	data table	initializeparameters	function
define	function	makefont	function
dictionaries	table	mapremap	data table
D data		markblobindexdone	function
D defaults		overloadparameters	function
D groups		preset	function
F groupset		presets	table
F groupsetgroup		T less	
F name		T more	
D names		T zero	
F registercharacter		privatebase	number
F registergroup		registerextensible	function
F registergroupset		registersimplematrix	function
D sets		registerverboselabel	function
D variants		remapalphabets	function
dimensions	function	renderextensible	function
disablecollecting	function	renderings	table
domainlabels	table	D mappings	
domainnames	table	D numbers	
N default		D sets	
enablecollecting	function	renderset	function
extensiblecode	function	resetattributes	function
extensibles	data table	scaleparameters	function
extrabase	number	setextensibledata	function
fallbacks	table	setmathsymbol	function
F apply		sets	data table
F install		setsnapping	function
fallbackstyleattr	function	setvariant	function
=			

data table styles F fixaccents syncboth function F fixellipses function synchame F fixintegrals function syncstyle F fixoldschool tagging table F fixprimes B mfenced F fixradicals toengineclass function F fixslashes function toname F fixvariants tostyle function F flattenaccents tweakaftercopyingfont function F inspect tweakbeforecopyingfont function F keepbases tweaks table F kernpairs F accentdimensions F kerns F action T kernsets F addactuarian т., F addarrows F margins F addbars F message F addcomposites F moveitalics F movelimits F addequals F addfourier F parameters F addmirrors F radicalbodymargins F addparts F radicaldegreeanchors F addprivates F replace F addrules F replacealphabets F addscripts F replacerules F bigslots F setoptions F checkaccents F setovershoots F checkspacing F showinfo F copyaccents F simplifykerns T datasets F sortvariants T accentdimensions F staircase T accent T subsets Tover T acenorsuvxz T under T bhklt T addarrows T d T addscripts T dotless Τf T checkspacing T copyaccents T gigy T fixprimes T horizontalfences T fixslashes Τi T wipecues T integrals F dimensions T letterlike F extendaccents T mw F fallbacks Тр

F substitute		utfmathclass	function
F topanchors		utfmathcommand	function
F tweaks		utfmathfiller	function
F version		utfmathstretch	function
F wipeanchors		variantcode	function
F wipecues		variantcount	function
F wipeitalics		virtualize	function
F wipevariants		virtualized	data table
utfmathaccent	function		

# md5 (extra lua)

HEX	function	sum	function
dec	function	sumHEXA	function
hex	function	sumhexa	function

#### metapost (context)

checkformat
checktracingonline
cm
codes

function function function table

N addto

N ampersand

N and

N assignment N atleast

N begingroup

N btex

N capsule

N colon

N comma

N controls

N curl

N cycle

N definedmacro

N delimiters

N endgroup

N equals

N etex

N everyjob

N exittest

N expandafter

N fiorelse

Nif

N input

N interim

N internal

N iteration

N leftbrace

N leftbracket

N leftdelimiter

N let

N macrodef

N macrospecial

N maketext

N message

N mode

N newinternal

N nullary

N numeric

N of

N ofbinary

N onlyset

N parametertype

N pathconnect

N pathjoin

N plusorminus

N primarybinary

N primarydef

N property

N protection

N relax

N repeatloop

N rightbrace

N rightbracket

N rightdelimiter

N runscript

N save

N scantokens

N secondarybinary

N secondarydef

N semicolon

N setbounds

N shipout

. ....

N show N slash

N step

N stop

N str

N string

N tag

N tension

N tertiarybinary

N tertiarydef

N thingstoadd

N to

N typename

N unary

N undefinedcs

N until		getparameterset	function
N void		getrecord	function
N with		getstatistics	function
N within		gettext	function
N write		gettolerance	function
colorinitializer	function	graphic	function
convert	function	graphic_base_pass	function
currentmpx	function	hascurvature	function
currentmpxstatus	function	includesvgbuffer	function
defaultformat	string	includesvgfile	function
defaultinstance	string	installplugin	function
defaultmethod	string	isobject	function
directrun	function	knownparameters	table
escaped	function	lastlog	string
exectime	table	load	function
extensiondata	data table	maketext	function
filterclippath	function	metafonts	table
flush	function	metafun	table
flushers	table	F interpolate	
T pdf		F topath	
F flushfigure		mptopdf	table
F startfigure		F convertmpstopdf	
F stopfigure		N nofconverted	
F textfigure		n	number
F textfigure F tocomment		n newlogger	number function
3	function	newlogger nofruns	
F tocomment	function table	newlogger	function
F tocomment  flushnormalpath  fonts  F define		newlogger nofruns nofscriptruns nvformat	function number function function
F tocomment  flushnormalpath  fonts  F define  format_number	table function	newlogger nofruns nofscriptruns nvformat pdfliterals	function number function function function
F tocomment flushnormalpath fonts F define format_number format_string	table function function	newlogger nofruns nofscriptruns nvformat pdfliterals pluginactions	function number function function function function
F tocomment flushnormalpath fonts F define format_number format_string formatnumber	table  function function function	newlogger nofruns nofscriptruns nvformat pdfliterals pluginactions popformat	function number function function function function function
F tocomment flushnormalpath fonts F define format_number format_string formatnumber getbackendoption	table  function function function function	newlogger nofruns nofscriptruns nvformat pdfliterals pluginactions popformat popscriptrunner	function number function function function function function function
F tocomment flushnormalpath fonts F define format_number format_string formatnumber getbackendoption getbendtolerance	function function function function function function	newlogger nofruns nofscriptruns nvformat pdfliterals pluginactions popformat popscriptrunner popvariable	function number function function function function function function function
F tocomment flushnormalpath fonts F define format_number format_string formatnumber getbackendoption getbendtolerance getbuffer	function function function function function function function	newlogger nofruns nofscriptruns nvformat pdfliterals pluginactions popformat popscriptrunner popvariable popvariables	function number function function function function function function function
F tocomment flushnormalpath fonts F define format_number format_string formatnumber getbackendoption getbendtolerance getbuffer getclippath	function function function function function function function function	newlogger nofruns nofscriptruns nvformat pdfliterals pluginactions popformat popscriptrunner popvariable preparetextextsdata	function number function function function function function function function function
F tocomment flushnormalpath fonts F define format_number format_string formatnumber getbackendoption getbendtolerance getbuffer getclippath getextensions	function	newlogger nofruns nofscriptruns nvformat pdfliterals pluginactions popformat popscriptrunner popvariable preparetextextsdata process	function number function function function function function function function function function function
F tocomment flushnormalpath fonts F define format_number format_string formatnumber getbackendoption getbendtolerance getbuffer getclippath getextensions getextradata	function	newlogger nofruns nofscriptruns nvformat pdfliterals pluginactions popformat popscriptrunner popvariable popvariables preparetextextsdata process processing	function number function function function function function function function function function function function
F tocomment flushnormalpath fonts F define format_number format_string formatnumber getbackendoption getbendtolerance getbuffer getclippath getextensions getextradata gethashentries	function	newlogger nofruns nofscriptruns nvformat pdfliterals pluginactions popformat popscriptrunner popvariable popvariables preparetextextsdata process processing processplugins	function number function function function function function function function function function function function function
F tocomment flushnormalpath fonts F define format_number format_string formatnumber getbackendoption getbendtolerance getbuffer getclippath getextensions getextradata gethashentries getinstancebyname	function	newlogger nofruns nofscriptruns nvformat pdfliterals pluginactions popformat popscriptrunner popvariable popvariables preparetextextsdata process processing processplugins properties	function number function function function function function function function function function function function function function
F tocomment flushnormalpath fonts F define format_number format_string formatnumber getbackendoption getbendtolerance getbuffer getclippath getextensions getextradata gethashentries getinstancebyname getinstancenames	function	newlogger nofruns nofscriptruns nvformat pdfliterals pluginactions popformat popscriptrunner popvariable popvariables preparetextextsdata process processing processplugins properties pushformat	function number function function function function function function function function function function function function function function
F tocomment flushnormalpath fonts  F define format_number format_string formatnumber getbackendoption getbendtolerance getbuffer getclippath getextensions getextradata gethashentries getinstancebyname getinstancenames getjobdata	function	newlogger nofruns nofscriptruns nvformat pdfliterals pluginactions popformat popscriptrunner popvariable popvariables preparetextextsdata process processing processplugins properties pushformat pushscriptrunner	function number function function function function function function function function function function function function function function function
F tocomment flushnormalpath fonts  F define format_number format_string formatnumber getbackendoption getbendtolerance getbuffer getclippath getextensions getextradata gethashentries getinstancebyname getinstancenames getjobdata getmovetolerance	function	newlogger nofruns nofscriptruns nvformat pdfliterals pluginactions popformat popscriptrunner popvariable popvariables preparetextextsdata process processing processplugins properties pushformat pushscriptrunner pushvariable	function number function function function function function function function function function function function function function function function function function function
F tocomment flushnormalpath fonts F define format_number format_string formatnumber getbackendoption getbendtolerance getbuffer getclippath getextensions getextradata gethashentries getinstancebyname getinstancenames getjobdata getmovetolerance getparameter	function	newlogger nofruns nofscriptruns nvformat pdfliterals pluginactions popformat popscriptrunner popvariable popvariables preparetextextsdata process processing processplugins properties pushformat pushscriptrunner pushvariable pushvariables	function number function
F tocomment flushnormalpath fonts  F define format_number format_string formatnumber getbackendoption getbendtolerance getbuffer getclippath getextensions getextradata gethashentries getinstancebyname getinstancenames getjobdata getmovetolerance	function	newlogger nofruns nofscriptruns nvformat pdfliterals pluginactions popformat popscriptrunner popvariable popvariables preparetextextsdata process processing processplugins properties pushformat pushscriptrunner pushvariable	function number function function function function function function function function function function function function function function function function function function

registerdirect	function	N in		
registerscript	function	N mm		
registertokens	function	N pc		
remappedtext	function	N pt		
remaptext	function	N px		
reporterror	function	<pre>svgglyphtomp function</pre>		
reportsvgfonts	function	svgstyphromp function svgshapestomp function		
reset	function	svgshapestomp runction svgshapestopdf function		
resetbackendoptions	function	svgsplitcolor function		
resetlastlog	function	svgtomp function		
resetplugins	function	svgtomp runctio		
run	function	sxsy functio		
runinternal	function	tex	table	
runscript	function	Fget		
scanparameters	function	F reset		
scriptindex	function	F set		
setbendtolerance	function	F setfrombuffer		
setbuffer	function	texerrors boolean		
setextensions	function	texexp funct:		
setlogging	function	theclippath	function	
setmovetolerance	function	tographic	function	
setoutercolor	function	totable function		
		types table		
setparameter	function	types	table	
setparameter setparameterset	function function	<b>types</b> N boolean	table	
•			table	
setparameterset	function	N boolean	table	
setparameterset setrecord	function function	N boolean N cmykcolor	table	
setparameterset setrecord settext	function function function	N boolean N cmykcolor N color	table	
setparameterset setrecord settext settolerance	function function function function	N boolean N cmykcolor N color N dependent	table	
setparameterset setrecord settext settolerance setvariable	function function function function function	N boolean N cmykcolor N color N dependent N independent	table	
setparameterset setrecord settext settolerance setvariable showlog	function function function function function boolean	N boolean N cmykcolor N color N dependent N independent N known	table	
setparameterset setrecord settext settolerance setvariable showlog showsvgpage	function function function function function boolean function	N boolean N cmykcolor N color N dependent N independent N known N nep	table	
setparameterset setrecord settext settolerance setvariable showlog showsvgpage simple	function function function function function boolean function function	N boolean N cmykcolor N color N dependent N independent N known N nep N numeric	table	
setparameterset setrecord settext settolerance setvariable showlog showsvgpage simple splitprescript	function function function function function boolean function function function function	N boolean N cmykcolor N color N dependent N independent N known N nep N numeric N pair	table	
setparameterset setrecord settext settolerance setvariable showlog showsvgpage simple splitprescript startgraphic	function function function function function boolean function function function function function function	N boolean N cmykcolor N color N dependent N independent N known N nep N numeric N pair	table	
setparameterset setrecord settext settolerance setvariable showlog showsvgpage simple splitprescript startgraphic startsvghashing	function function function function function boolean function	N boolean N cmykcolor N color N dependent N independent N known N nep N numeric N pair N path	table	
setparameterset setrecord settext settolerance setvariable showlog showsvgpage simple splitprescript startgraphic startsvghashing stopgraphic	function function function function function boolean function	N boolean N cmykcolor N color N dependent N independent N known N nep N numeric N pair N path N pen N picture	table	
setparameterset setrecord settext settolerance setvariable showlog showsvgpage simple splitprescript startgraphic startsvghashing stopgraphic stopsvghashing svformat svgcolorremapper	function function function function function boolean function	N boolean N cmykcolor N color N dependent N independent N known N nep N numeric N pair N path N pen N picture N protodependent	table	
setparameterset setrecord settext settolerance setvariable showlog showsvgpage simple splitprescript startgraphic startsvghashing stopgraphic stopsvghashing svformat	function function function function function boolean function	N boolean N cmykcolor N color N dependent N independent N known N nep N numeric N pair N path N pen N picture N protodependent N string	table	
setparameterset setrecord settext settolerance setvariable showlog showsvgpage simple splitprescript startgraphic startsvghashing stopgraphic stopsvghashing svformat svgcolorremapper	function function function function function boolean function	N boolean N cmykcolor N color N dependent N independent N known N nep N numeric N pair N path N pen N picture N protodependent N string N structured	table	
setparameterset setrecord settext settolerance setvariable showlog showsvgpage simple splitprescript startgraphic startsvghashing stopgraphic stopsvghashing svformat svgcolorremapper svgfactors	function function function function function boolean function	N boolean N cmykcolor N color N dependent N independent N known N nep N numeric N pair N path N pen N picture N protodependent N string N structured N suffixedmacro	table	
setparameterset setrecord settext settolerance setvariable showlog showsvgpage simple splitprescript startgraphic startsvghashing stopgraphic stopsvghashing svformat svgcolorremapper svgfactors N %	function function function function function boolean function	N boolean N cmykcolor N color N dependent N independent N known N nep N numeric N pair N path N pen N picture N protodependent N string N structured N suffixedmacro N tokenlist	table	
setparameterset setrecord settext settolerance setvariable showlog showsvgpage simple splitprescript startgraphic startsvghashing stopgraphic stopsvghashing svformat svgcolorremapper svgfactors  N % N bp	function function function function function boolean function	N boolean N cmykcolor N color N dependent N independent N known N nep N numeric N pair N path N pen N picture N protodependent N string N structured N suffixedmacro N tokenlist N transform	table	

N unknownpen
N unknownpicture
N unknownstring

 ${\sf N}$  unsuffixedmacro

typesvgpage unload untagvariable variables function function function table

N vacuous

#### mime (context)

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
report function
stuff function
unb64 function
unqp function
wrap function
wrapt table

F base64

F default

F quoted-printable

F text

wrp function

# mp (context)

autoinject	function	fprint	function
aux	function	get	table
F boolean		F hashentry	
F color		graphformat	function
F direct		inject	function
F draw		F boolean	
F fill		F cmykcolor	
F flush		F color	
F fprint		F integer	
Finteger		F number	
F number		F numeric	
F numeric		F pair	
F pair		F path	
F pairpoints		F pt	
F path		F quadruplet	
F pathpoints		F string	
F points		F transform	
F print		F triplet	
F quadruple		F whatever	
F quadruplepoints		F whd	
F quoted		F xy	
F size		integer	function
F string		<pre>lmt_color_functions</pre>	table
F transform		F shade	
F triplet		F step	
F tripletpoints		lmt_contours_bitmap_get	function
F vprint		<pre>lmt_contours_bitmap_set</pre>	function
boolean	function	lmt_contours_cleanup	function
cleaned	function	lmt_contours_color	function
color	function	<b>lmt_contours_edge_get_band</b>	function
dataset	function	lmt_contours_edge_get_cell	function
datasets	function	lmt_contours_edge_paths	function
F load		lmt_contours_edge_set	function
direct	function	<pre>lmt_contours_edge_set_by_band</pre>	function
draw	function	<pre>lmt_contours_edge_set_by_cell</pre>	function
expandtex	function	lmt_contours_format	function
fill	function	<pre>lmt_contours_function</pre>	function
flatten	function	lmt_contours_maxmean	function
flush	function	lmt_contours_maxz	function
format	function	lmt_contours_minmean	function
formatted	function	lmt_contours_minz	function

lmt_contours_nofvalues	function	mf_blob_size	function
lmt_contours_nx	function	mf_blob_width	function
lmt_contours_ny	function	mf_external_figure	function
lmt_contours_range	function	mf_finish_saving_data	function
lmt_contours_shade_paths	function	mf_formatted_text	function
<pre>lmt_contours_shade_set</pre>	function	mf_get_outline_text	function
lmt_contours_shape_paths	function	mf_graphic_text	function
lmt_contours_start	function	mf_inject_blob	function
<pre>lmt_contours_stop</pre>	function	mf_map_move	function
lmt_contours_value	function	mf_map_text	function
lmt_contours_xrange	function	mf_named_color	function
lmt_contours_yrange	function	mf_outline_text	function
lmt_function_x	function	mf_save_data	function
lmt_glyphshape_accent	function	mf_script_index	function
<pre>lmt_glyphshape_baseline</pre>	function	mf_start_saving_data	function
<pre>lmt_glyphshape_boundingbox</pre>	function	mf_stop_saving_data	function
lmt_glyphshape_depth	function	mode	function
lmt_glyphshape_height	function	n	function
lmt_glyphshape_italic	function	number	function
lmt_glyphshape_llx	function	numeric	function
lmt_glyphshape_n	function	pair	function
lmt_glyphshape_path	function	pairpoints	function
lmt_glyphshape_start	function	path	function
lmt_glyphshape_stop	function	pathpoints	function
lmt_glyphshape_usedbox	function	points	function
<pre>lmt_glyphshape_usedline</pre>	function	print	function
lmt_glyphshape_width	function	F boolean	
lmt_mesh_set	function	F color	
lmt_mesh_update	function	F direct	
<pre>lmt_poisson_generate</pre>	function	F draw	
<pre>lmt_start_potrace</pre>	function	F fill	
<pre>lmt_step_potrace</pre>	function	F flush	
lmt_stop_potrace	function	F fprint	
lmt_surface_do	function	F integer	
lmt_svg_include	function	F number	
mf_blob_add	function	F numeric	
mf_blob_dimensions	function	F pair	
mf_blob_index	function	F pairpoints	
mf_blob_new	function	F path	
mf_blob_raw_content	function	F pathpoints	
mf_blob_raw_dimensions	function	F points	
mf_blob_raw_reset	function	F print	
mf_blob_raw_toutf	function	F quadruple	
mf blob raw wipe	function	F quadruplepoints	

F quoted		F path	
F size		F pen	
F string		F property	
F transform		F string	
F triplet		F symbol	
F tripletpoints		F token	
F vprint		T tokenscanners	
processingmode	function	F transform	
quadruple	function	T typescanners	
quadruplepoints	function	F whatever	
quoted	function	set	table
report	function	size	function
scan	table	skip	table
F boolean		F token	
F cmykcolor		solve	function
F color		string	function
F expression		systemmode	function
F integer		transform	function
F next		triplet	function
F number		tripletpoints	function
F numeric		vprint	function
F pair			

#### mplib (extra tex)

execute	function	injectpair	function
expandtex	function	injectpath	function
finder	function	injectstring	function
finders	table	injecttransform	function
F file		injectwhatever	function
F mpstemplate		new	overloaded function
finish	function	peninfo	function
getcallbackstate	function	propertycodes	table
getcodes	function	realtimelogging	boolean
getcolormodels	function	scanboolean	function
getfields	function	scancmykcolor	function
gethashentries	function	scancolor	function
gethashentry	function	scanexpression	function
getinternalactions	function	scaninteger	function
getknotstates	function	scannext	function
getlogtargets	function	scannumber	function
getobjecttypes	function	scannumeric	function
getscantypes	function	scanpair	function
getstates	function	scanpath	function
getstatistics	function	scanpen	function
getstatus	function	scanproperty	function
gettolerance	function	scanstring	function
gettype	function	scansymbol	function
gettypes	function	scantoken	function
injectboolean	function	scantransform	function
injectcmykcolor	function	settolerance	function
injectcolor	function	showcontext	function
injectinteger	function	skiptoken	function
injectnumber	function	solvepath	function
injectnumeric	function	version	function

# noads (context)

handlers	table	F snap	
F alternates		F spacing	
F autofences		F suspicious	
F classes		F tags	
F collapse		F unscript	
F dictionaries		F unstack	
F export		F variants	
F families		process	function
F fencing		processnested	function
F intervals		processors	table
F kernpairs		T dictionaries	
F makeup		T intervals	
F normalize		F mlisttohlist	
F numbers		T suspicious	
F relocate		T unscript	
F render		T unstack	
F showtree		processouter	function

#### node (basic tex)

checkdiscretionaries checkdiscretionary copy copylist count currentattributes

dimensions

direct F add

F addmargins
F addxoffset
F addxymargins
F addyoffset
F appendaftertail
F beginofmath
F checkdiscretionaries

F checkdiscretionary
F collapsing
F copy
F copylist
F copyonly
F count

F currentattributes
F dimensions
F effectiveglue
F endofmath
F exchange

F fields

F findattribute F findattributerange

F findnode
F firstchar
F firstglyph
F firstglyphnode
F firstitalicglyph
F flattendiscretionaries
F flattenleaders
F flushlist

F flushnode
F free
F freeze
F getanchors

function function

function function function

function
table

F getattribute

F getattributelist F getattributes

F getboth
F getbottom

F getbottomdelimiter

F getbox

F getcachestate

F getchardict
F getcharspec
F getchoice
F getclass
F getcontrol

F getcornerkerns
F getdata
F getdegree
F getdelimiter
F getdenominator
F getdepth
F getdirection

F getdisc

F getdiscpart
F getexcept
F getexpansion
F getfam
F getfield
F getfielderror
F getfont
F getgeometry
F getglue
F getglyphdata

F getglyphdimensions
F getheight
F getid
F getindex
F getinputfields
F getkern

F getkerndimensionF getlanguageF getleader

F getleftdelimiter F getxscale F getlist F getxyscales F getlistdimensions F getyscale F getnext F gluetostring F getnodes F hasattribute F hasdimensions F getnormalizedline F getnucleus F hasdiscoption F hasfield F getnumerator F getoffsets F hasgeometry F hasglyph F getoptions F getorientation F hasglyphoption F getparstate F hasusage F getpenalty F hpack F getpost F hyphenating F getpre F id F getprev F ignoremathskip F getprime F insertafter F inserthefore F getpropertiestable F isboth F getproperty F ischar F getreplace F getrightdelimiter F isdirect F getruledimensions F isglyph F getscale F isitalicglyph F getscales F isloop F getscript F isnext F getscripts F isnextchar F getshift F isnextglyph F getslant F isnode F getspeciallist F isprev F getstate F isprevchar F getsub F isprevglyph F issimilarglyph F getsubpre F getsubtype F isspeciallist F isvalid F getsup F iszeroglue F getsuppre F gettop F kerning F lastnode F gettopdelimiter F length F gettotal F ligaturing F getusage F getusedattributes F makeextensible F getweight F migrate F getwhd F mlisttohlist F naturalhsize F getwidth

F getwordrange

F naturalwidth

F new F setgeometry F newcontinuationatom F setglue F newmathglyph F setglyphdata F newtextglyph F setheight F patchattributes F setindex F patchparshape F setinputfields F prependbeforehead F setkern F protectglyph F setlanguage F setleader F protectglyphs F protectglyphsnone F setleftdelimiter F protrusionskippable F setlink F rangedimensions F setlist F remove F setnext F removefromlist F setnucleus F repack F setnumerator F reverse F setoffsets F serialized F setoptions F setanchors F setorientation F setattribute F setpenalty F setattributelist F setpost F setattributes F setpre F setboth F setprev F setbottom F setprime F setbottomdelimiter F setproperty F setbox F setreplace F setchar F setrightdelimiter F setchardict F setruledimensions F setchoice F setscale F setclass F setscales F setcontrol F setscript F setdata F setscripts F setdegree F setshift F setdelimiter F setslant F setdenominator F setspeciallist F setdepth F setsplit F setdirection F setstate F setdisc F setsub F setdiscpart F setsubpre F setexcept F setsubtype F setexpansion F setsup F setfam F setsuppre F setfield F settop

F setfielderror

F setfont

F settopdelimiter

F settotal

F setweight		getattribute	function
F setwhd		getcachestate	function
F setwidth		getfield	function
F show		getfielderror	function
F size		getglue	function
F slide		getpropertiestable	function
F softenhyphens		getproperty	function
F startofpar		gluetostring	function
F subtypes		hasattribute	function
F tail		hasfield	function
F todirect		hasglyph	function
F tonode		hpack	function
F tostring		hyphenating	function
F tovaliddirect		id	function
F traverse		insertafter	function
F traversechar		insertbefore	function
F traversecontent		instock	function
F traverseglyph		inuse	function
F traverseid		isnode	function
F traverseitalic		iszeroglue	function
F traverseleader		kerning	function
F traverselist		lastnode	function
F type		length	function
F types		ligaturing	function
F unprotectglyph		makeextensible	function
F unprotectglyphs		mlisttohlist	function
F unsetattribute		new	function
F unsetattributes		protectglyph	function
F usedlist		protectglyphs	function
F usesfont		protrusionskippable	function
F verticalbreak		rangedimensions	function
F vpack		remove	function
F write		serialized	function
F xscaled		setattribute	function
F yscaled		setfield	function
effectiveglue	function	setfielderror	function
endofmath	function	setglue	function
family_font	function	setproperty	function
fields	function	show	function
findattribute	function	size	function
flattendiscretionaries	function	slide	function
flushlist	function	subtypes	function
flushnode	function	tail	function
free	function	todirect	function

tonode	function	unprotectglyphs	function
tostring	function	unsetattribute	function
traverse	function	usedlist	function
traverseid	function	usesfont	function
type	function	vpack	function
types	function	write	function
unprotectalyph	function		

#### nodes (context)

accentcodes	data table	T stack	
adaptive	table	dircodes	data table
F handlehorizontal		directioncodes	data table
F handlevertical		directionvalues	data table
T methods		dirvalues	data table
F set		disccodes	data table
aligned	function	discretionarycodes	data table
append	function	fencecodes	data table
apply	function	fields	function
applyvisuals	function	fieldtypes	table
astable	function	fillcodes	data table
attributecodes	data table	fillvalues	data table
basepoints	function	firstdirinbox	function
boundarycodes	data table	flush	function
boxes	table	flushlist	function
F count		flushnode	function
F dimensions		fractioncodes	data table
F direct		fullhpack	function
F dispose		getattr	function
F found		getattribute	function
F prune		getboth	function
F reset		getbox	function
F restore		getchar	function
F save		getfield	function
F savenode		getfont	function
builders	table	getid	function
F buildpage_filter		getleader	function
F vbox_filter		getlist	function
F vpack_filter		getnext	function
choicecodes	data table	getprev	function
concat	function	getproperty	function
сору	function	getsubtype	function
copy_node	function	gluecodes	data table
copylist	function	glyphcodes	data table
countall	function	handlers	table
currentattributes	function	F adjusters	
delete	function	F aligncharacter	
destinations	table	F backgrounds	
N attribute		F backgroundspage	
T done		F backgroundsvbox	
F handler		F characters	

F checkglyphs		F setmove	
F checkparcounter		F setposition	
F cleanupbox		F setspacekerns	
F cleanuppage		insertafter	function
F export		insertbefore	function
F finalizebox		insertlistafter	function
F finalizelist		installattributehandler	function
F flatten		is_display_math	function
F flattenline		isdirect	function
T linebreakchecks		isnode	function
F mathalignrelocate		isnut	function
F mathmatrixornaments		kerncodes	data table
F mathmatrixrules		leftmarginwidth	function
F migrate		linefillers	table
F protectglyphs		F filler	
F recolor		F handler	
F show		F set	
F showhyphenation		lines	table
F showpreamble		T boxed	
F stripping		F addlinenumbers	
F textbackgrounds		F register	
F unprotectglyphs		F setup	
F visualizehyphenation		D data	
F wipe		F finalize	
hasattribute	function	F number	
hasfield	function	link	function
hpack	function	linked	function
idsandsubtypes	function	list	function
idstostring	function	listcodes	data table
injections	table	listtoutf	function
F copy		literalvalues	data table
F getligaindex		locate	function
F getthreshold		markcodes	data table
F handler		markers	table
F installgetspaceboth		F get	
F installnewkern		F set	
F isspace		mathcodes	data table
F keepcounts		mathvalues	data table
F reset		maxboxwidth	function
F resetcounts		migrations	table
F setcursive		F setinserts	
F setkern		F setmarks	
F setligaindex		new	function
F setmark		noadcodes	data table

nodecodes nopts nuts data table
function
table

F firstglyph
F firstglyphnode
F firstitalicglyph

F flattendiscretionaries

F addxoffset
F addxymargins
F addyoffset

F addmargins

F addyoffset
F append
F appendaftertail

F apply
F applyvisuals
F beginofmath

F checkdiscretionaries
F checkslide

F collapsing
T colors
F set
T components

F copynocomponents
F copyonlyglyphs

F count F flush

F get
F set
F concat
F copy

F copy\_properties
F copylist

F copynode
F copyonly
F copyvisual
F count

F countall

F currentattributes

F delete
F dimensions
F dirdimensions
F effectiveglue
F endofmath

F exchange F findattribute F findattributerange

F findnode

F firstchar

F flattenleaders
F flush
F flushlist
F flushnode
F free
F freeze

F freeze
F fullhpack
F getanchors
F getattr
F getattribute
F getattributelist
F getattributes
F getattributes
F getattrib
F getattrs
F getattrs
F getboth

F getbottomdelimiter
F getbox
F getboxglue

F getbottom

F getoxytue
F getchar
F getchardict
F getcharspec
F getchoice
F getclass
F getcomponents
F getcornerkerns
F getdata

F getdelimiter
F getdenominator
F getdepth
F getdirection
F getdisc

F getdegree

F getdiscretionary
F getexcept
F getexpansion
F getfam
F getfield

F getfont

F getdiscpart

F getgeometry F getsub F getglue F getsubpre F getglyphdata F getsubtype F getglyphdimensions F getsup F getheight F getsuppre F getid F getsurround F getindex F aettop F getinputfields F gettopdelimiter F getkern F gettotal F getkerndimension F getusedattributes F getvalue F getlang F getlanguage F getweight F getleader F getwhd F getleftdelimiter F getwidth F getlist F getwordrange F getlistdimensions F getxscale F getmiddle F getxyscales F getyscale F getmiddledelimiter F gluetostring F getnext F hasattribute F getnormalizedline F getnucleus F hasdimensions F getnumerator F hasdiscoption F getoffsets F hasfield F hasgeometry F getoptions F getorientation F hasglyph F getparstate F hasglyphoption F hpack F getpenalty F getpost F hyphenating F ignoremathskip F getpre F getprev F insertafter F insertbefore F getprime F getprop F insertlistafter F getreplace F is display math F isboth F getrightdelimiter F ischar F getruledata F getruledimensions F isdirect F isdone F getscale F getscales F isglyph F getscript F isitalicglyph F getscripts F isnext F getshift F isnextchar

F getslant

F getspeciallist F getstate

previous 117 next

F isnextglyph
F isnode

F isnut

F isprev F imagerule F isprevchar F indentskip F isprevglyph F italickern F kern F issimilarglyph F iszeroglue F latelua F leader F kerning F lastnode F lefthangskip F lenath F leftmarginkern F ligaturing F leftskip F link F lineskip F linked F literal F locate F luaboundary F migrate F mathchar F mathtextchar F migratebox F mlisttohlist F negatedglue F naturalhsize F noad F naturalwidth F originliteral F nestedtracedslide F outlinerule F pageliteral F new F newcontinuationatom F penalty F newmathglyph F radical F openup F rawliteral F patchattributes F register F patchparshape F restore T pool F righthangskip F accent F rightmarginkern F baselineskip F rightskip F boundary F rule F boxrule F save F choice F savepos F setmatrix F cleanup F delim F setstate F delimiter F shrink F direction F spacefontkern F directliteral F startrotation F disc F stock F emptyrule F stretch F fence F strutrule F fontkern F subbox F fraction F submlist F glue F temp F gluespec F usage F userdefined F glyph

F hlist

T userids

F usernode F setchardict F userrule F setchoice F virtualrule F setclass F vlist F setcomponents F wordboundary F setdata F prepend F setdegree F prependbeforehead F setdelimiter F setdenominator F processranges F processwords F setdepth F protectglyph F setdirection F protectglyphs F setdisc F protectglyphsnone F setdiscpart F protrusionskippable F setdiscretionary F rangedimensions F setexcept F rawprop F setexpansion F reference F setfam F rehpack F setfield F setfont F remove F removefromlist F setgeometry F repack F setglue F repackhlist F setglyphdata F replace F setheight F reverse F setinputfields T rules F setkern T ruleactions F setlang F hox F setlanguage F draw F setleader F setleftdelimiter F fill F mp F setlink F stroke F setlist F userrule F setmiddledelimiter F serialized F setnext F setanchors F setnucleus F setattr F setnumerator F setattribute F setoffsets F setattributelist F setoptions F setattributes F setorientation F setattrlist F setparproperty F setattrs F setpenalty F setboth F setpost F setbottom F setpre F setbox F setprev F setprime F setboxglue

F setprop

F setchar

F tracedslide F setreplace F setrightdelimiter F traverse F setruledata F traversechar F setruledimensions F traversecontent F setscale F traverseglyph F setscales F traverseid F setscript F traverseitalic F setscripts F traverseleader F traverselist F setshift F setslant T traversers F setspeciallist F alignrecord F setsplit F boundary F setstate F char F setsub F content F setsubpre F dir F setsubtype F disc F setsup F glue F setsuppre F glyph F setsurround F hlist F leader F settop F setvalue F list F mark F setvisual F setvisuals F next F setweight F node F setwhd F penalty F setwidth F rule F show F unset F slide F vlist F softenhyphens F whatsit F somepenalty T treversers F char F somespace F splitbox F content F startofpar F glyph F leader F striprange F tail F list F takeattr F node F takebox T typesetters F takelist F tohbox F tohpack F theprop F tonode F tonodes F tonodes F toybox F tonut F tovpack F unprotectglyph F tosequence F tostring F unprotectglyphs

F unsetattribute		F savepos	
F unsetattributes		F setmatrix	
F untracedslide		F stock	
F usedlist		F usage	
F usesfont		F usage	
F verticalbreak		F vlist	
			function
F vianodes		prepend print	function
F vianuts		print	table
F vpack		processors	table
F write		F alignment_filter	
F xscaled		F append_line_filter	
F yscaled	function	F glyph_run	
packlist	data table	F post_linebreak_filter	
parcodes	data table	F pre_linebreak_filter	
penaltycodes		F trace_glyph_run_a	
plugindata	table	F trace_glyph_run_b	+-61-
F finalizer		properties	table
F initializer		T data	£
S name		pts radicalcodes	function data table
T namespace			
N attribute		references	table
D data		N attribute	
F enable		T done	
F handler		F handler	
F register		T stack	£ ± ±
D registered		rehpack	function
D values		remove	function
F processor	6	repackhlist	function
points	function	replace	function
pool	table	report	function
F baselineskip		rightmarginwidth	function
F cleanup		rulecodes	data table
F directliteral		rules	table
F glyph		F handler	
F hlist		F process	
F latelua		F set	
Fleader		F userrule	
F lineskip		serialize	function
F literal		serializebox	function
F luaboundary		serialized	function
F originliteral		setattr	function
F register		setattribute	function
F restore		setattrlist	function
F save		setboth	function

setbox	function	F enablegroup	
setboxtonaturalwd	function	F freeze	
setchar	function	F freezegroup	
setfield	function	F new	
setfont	function	F prependaction	
setleader	function	F removeaction	
setlink	function	F replaceaction	
setlist	function	F restart	
setnext	function	F setaction	
setprev	function	F showactions	
setproperty	function	F table	
shadows	table	tobasepoints	function
F handler		tocentimeters	function
F set		tociceros	function
shifts	table	todidots	function
F handler		todimen	function
F set		toinches	function
showboxes	function	tomillimeters	function
showlist	function	tonode	function
showsimplelist	function	tonodes	function
skipcodes	data table	tonut	function
snapshots	table	topicas	function
F getsamples		topoints	function
F resetsamples		toscaledpoints	function
F takesample		tosequence	function
somepenalty	function	tostring	function
somespace	function	totable	function
specialskipcodes	table	totree	function
splitbox	function	toutf	function
startofpar	function	tracers	table
stripdiscretionaries	function	T colors	
stripping	table	F reset	
T glyphs		F set	
F set		F setlist	
subtypes	data table	F directions	
tail	function	F fontchar	
takeattr	function	T frequencies	
takebox	function	F register	
tasks	table	T pool	
F actions		T nodes	
F actions F appendaction		T nodes F rule	
F actions F appendaction F disableaction		T nodes F rule T nuts	
F actions F appendaction		T nodes F rule	

F rule F enable F setlist T filters F setproperties N halue F start N hkern N hpenalty T steppers F check N toddler F codes N value F features N vkern F font N vpenalty F glyphs F getusedfont F handler F message F markfonts F messages F nofsteps T modes F register N boundary F reset N depth F start N dir N discretionary F stop N expansion F stop N fontkern T transparencies N glue F reset F set N glyph F setlist N hbox function traverse N halue traverseid function N hkern table typesetters N hpenalty F hbox N insert F hpack N italic F tohbox N kern F tohpack N line F tonodes N marginkern F tovbox N mark F tovpack N math F vpack N mathglue unsetattribute function N mathkern upcomingproperties function N origin usedlist function N par vianodes function N penalty vianuts function N simple visualizebox function N simplehbox visualizers table N simplevbox F attribute N simplevtop T attributes N space F box N strut F definelayer N toddler

N	user	
N	vbox	
N	vglue	
N	vkern	
N	vpenalty	
N	vtop	
N	whatsit	
Fr	egister	1

F setfont
F setlayer
F setruledglyph
F setvisual

vpack function
whatsitcodes data table
write function

F registercache

# number (context)

	function
basepoints	function
bytetodecimal	function
compactfloat	function
decimaltobyte	function
dimenfactors	data table
formatted	function
formattedfloat	function
idiv	function
maxdimen	number
nopts	function
nubasepoints	function
nupoints	function
percent	function
points	function
pts	function
signed	function
sparseexponent	function
splitdimen	function
to16dot16	function

tobasepoints	function
tobitstring	function
tocentimeters	function
tociceros	function
tocontext	function
todidots	function
todimen	function
toediths	function
toevenhex	function
toinches	function
tomillimeters	function
tonumberf	function
tonumberg	function
topicas	function
topoints	function
toscaled	function
toscaledpoints	function
totoves	function
valid	function

# objects (context)

data	table	page	function
dimensions	function	reference	function
found	function	register	function
n	number	restore	function

# optional (context)

curl	table	library	table
F escape		F load	
F fetch		loaded	table
F getversion		lz4	table
F initialize		F compress	
F unescape		F decompresssize	
foreign	table	F framecompress	
F abivalues		F framedecompres	s
F getbuffer		F initialize	
F initialize		lzma	table
F load		F compress	
F newbuffer		F decompress	
F totable		F initialize	
F types		lzo	table
ghostscript	table	F compress	
F execute		F decompresssize	
F initialize		F initialize	
graphicsmagick	table	mujs	table
F execute		F dofile	
F getnoisetypes		F execute	
F initialize		F initialize	
hb	table	F reset	
F getshapers		F setclosefile	
F getversion		F setconsole	
F initialize		F setfindfile	
F loadfont		F setopenfile	
F shapestring		F setreadfile	
imagemagick	table	F setseekfile	
F execute		mysql	table
F initialize		F close	
kpse	table	F execute	
F expand_braces		F getmessage	
F expand_path		F initialize	
F expand_var		F open	
F find_file		openssl	table
F find_files		F getversion	
F get_file_types		F initialize	
F initialize		F sign	
F readable_file		F verify	
F set_program_na	me	postgress	table
F var_value		F close	

F execute F open zint table F getmessage F initialize F execute F initialize F open sqlite table zstd table F close F compress F execute F decompress F initialize F getmessage

F initialize

#### os (basic lua)

function

now

getenv	function	pipeto	function
setenv	function	platform	string
binsuffix	string	remove	overloaded function
binsuffixes	table	rename	overloaded function
bits	number	resultof	function
clock	function	runtime	function
converttime	function	selfarg	table
date	overloaded function	selfbin	string
difftime	function	selfcore	string
enableansi	function	selfdir	string
env	data table	selflink	string
execute	overloaded function	selfname	string
exit	overloaded function	selfpath	string
fulltime	function	setenv	overloaded function
getcodepage	function	setexitcode	function
getenv	overloaded function	setlocale	overloaded function
getnamevalues	function	sleep	function
gettimeofday	function	time	function
gettypevalues	function	timezone	function
getunamefields	function	tmpname	function
isleapyear	function	today	function
launch	function	type	string
libsuffix	string	uname	function
localtime	function	uuid	function
name	string	validdate	function
newline	string	weekday	function
nofdays	function	where	function

which

function

# package (basic lua)

config	string	loadlib	function
cpath	string	luapaths	function
extralibpath	function	path	string
extralibpaths	function	poplibpath	function
extraluapath	function	popluapath	function
extraluapaths	function	preload	table
helpers	table	pushlibpath	function
libpaths	function	pushluapath	function
loaded	table	searchers	table
loaders	table	searchpath	function

# pagebuilders (context)

<pre>columnsets table</pre>	F sethsize
F add	F sethspan
F block	F setlines
F check	F setproperties
F currentcolumn	F setstart
F define	F setvsize
F finishflush	<b>injections</b> table
F flushareas	F flushafter
F flushcolumn	F flushbefore
F flushrest	F save
F goto	mixedcolumns table
F noto	F cleanup
F prepareflush	F finalize
F put	F getlist
F registerarea	F getrest
F reset	F getsplit
F setarea	F setsplit

# pdf (context)

immediateobj function

# pdfe (extra tex)

arraytotable	function
close	function
closestream	function
dictionarytotable	function
getarray	function
getboolean	function
getbox	function
getcatalog	function
getdictionary	function
getencodingvalues	function
getfieldtypes	function
getfromarray	function
getfromdictionary	function
getfromobject	function
getfromreference	function
getfromstream	function
getinfo	function
getinteger	function
getmemoryusage	function
getname	function
getnofobjects	function
getnofpages	function

getnumber	function
getobjectrange	function
getpage	function
getpages	function
getpermissions	function
getsize	function
getstatus	function
getstatusvalues	function
getstream	function
getstring	function
gettrailer	function
getversion	function
new	function
open	function
openfile	function
openstream	function
pagestotable	function
readfromstream	function
readwholestream	function
type	function
unencrypt	function

# physics (context)

#### units table

F registershortcut

F registerunit

D tables

#### pngdecode (extra tex)

applyfilter	function	splitmask
expand	function	tocmyk
interlace	function	tomask
makemask	function	

function

function
function

# posit (extra lua)

NaN	function	сору	function
NaR	function	cos	function
add	function	exp	function
band	function	exp2	function
bor	function	floor	function
bxor	function	fromposit	function
div	function	integer	function
eq	function	log	function
le	function	log10	function
lt	function	log1p	function
mul	function	log2	function
name	string	logb	function
pow	function	max	function
shl	function	min	function
shr	function	modf	function
sub	function	new	function
tostring	function	pow	function
unm	function	rotate	function
abs	function	round	function
acos	function	rounded	function
asin	function	shift	function
atan	function	sin	function
band	function	sqrt	function
bor	function	tan	function
bxor	function	tonumber	function
ceil	function	toposit	function
conj	function	tostring	function

# potrace (extra tex)

checked	function	
concat	function	
contourplot	function	
convert	function	
count	function	
flush	function	
free	function	
getbitmap	function	
getnewfields	function	

getpolicyvalues	function
getprocessfields	function
new	function
process	function
setbitmap	function
stripped	function
totable	function
trace	function

# publications (context)

addtexentry	function	concatstate	function
analyze	function	converttoxml	function
anywhere	function	currentspecification	table
authorcache	data table	S author	
authorcollapsers	data table	T categories	
authorhashers	table	T article	
F invertedshort		S category	
F normal		T extra	
F normalinverted		T fields	
F normalshort		S author	
F sequential		S editor	
F sequentialshort		S journal	
F short		S keywords	
authormap	data table	S note	
authortoregister	function	S number	
btx	table	S pages	
casters	table	S title	
F author		S volume	
F keyword		S year	
F pagenumber		T optional	
F range		T required	
checkeddataset	function	T sets	
citevariants	table	T author	
F author		T virtual	
F authornum		T book	
F authoryear		S category	
F authoryears		T extra	
F category		T fields	
F default		S address	
F entry		S author	
F index		S edition	
F keywords		S editor	
F num		S keywords	
F page		S note	
F short		S number	
F tag		S publisher	
F textnum		S subtitle	
F year	doto toble	S title	
collected	data table	S volume	
components	table	S year	
F author		T optional	

T required	S page	
T sets	S pages	
T author	S volume	
T editionset	S version	
T virtual	D virtual	
T demo-a	T virtualfields	
S category	B authornum	
T extra	B authoryear	
T fields	B authoryears	
S author	B num	
S institution	B suffix	
S organization	datasets	table
S subtitle	detailed	table
S title	endnotes_to_btx	function
S year	enhancer	table
T optional	S arguments	
T required	T askip	
T sets	B dirty	
T author	T gskip	
T virtual	T kind	
T demo-b	T list	
S category	T system	
T extra	T order	
T fields	N steps	
S author	enhancers	table
S institution	F details	
S organization	F order	
S subtitle	F suffixes	
S title	finder	function
S year	firstofrange	function
T optional	found	function
T required	get	function
T sets	getcasted	function
T authors	getdetail	function
T virtual	getdirect	function
S comment	getfaster	function
S copyright	getfield	function
T fields	getfuzzy	function
S name	getindex	function
T types	inspectors	data table
S author	journals	table
S editor	F abbreviated	
S keywords	F add	
S number	F expanded	

F load		F endnote	
F save		F json	
lastofrange	function	F lua	
lists	table	F refman	
F collectentries		F registercleaner	
F combiinlist		F xml	
F fetchentries		loadreplacementfile	function
F filterall		meanings	table
F flushcombi		new	function
F flushentry		okay	function
F flushtag		oneorrange	function
T methods		parenttag	function
F dataset		permitted	function
F force		prerollcmdstring	function
F global		refman_to_btx	function
F label		resolvedname	function
F local		save	function
F nofregistered		savers	table
F prepareentries		F bib	
F register		F lua	
F sameasprevious		F xml	
T sorters		search	function
F cite		setcategory	function
F dataset		setspecification	function
F default		singularorplural	function
F index		sortedentries	function
F list		sortmethods	table
F reference		T authortitle	
F short		T sequence	
F used		T authoryear	
F uservariable		T sequence	
listvariants	table	T dataset	
F default		T sequence	
F index		T key	
F num		T sequence	
F short		specifications	table
F tag		T default	
load	function	S author	
loadbibdata	function	S comment	
loaddefinitionfile	function	S copyright	
loaders	table	S name	
F bbl		S version	
F bib		D virtual	
F buffer		splitauthor	function

splitoneauthor function F showdatasetcompleteness statistics table F showdatasetfields N nofbytes F showentry N nofdatasets F showfields N nofdefinitions F showhashedauthors N nofshortcuts F showtables tables table F showvariants table D implicits typesetters D origins F author D privates F string usedataset function D sets function usedentries D specials writers table D types D virtuals F author function tags F keyword

tags function
tracers table
F showdatasetauthors

# regimes (context)

backmapping	data table	mapping	data table
cleanup	function	рор	function
disable	function	process	function
enable	function	push	function
fromregime	function	toregime	function
list	function	translate	function

#### resolvers (context)

allprefixes	function	findfiles
appendhash	function	findgivenfile
automount	function	findgivenfiles
booleanvariable	function	findlib
cacheversion	string	findpath
checkedvariable	function	findpk
cleanedpathlist	function	findtexfile
cleaners	data table	findwildcardfile
cleanpath	function	findwildcardfiles
cleanpathlist	function	formatofsuffix
cleanupbinfile	function	formatofvariable
concatinators	data table	formats
configbanner	string	foundintree
configurationfiles	function	foundintrees
dangerous	data table	generators
datastate	function	get_from_content
decompressors	table	getenv
F register		getextrapaths
F unregister		getfilehashes
defaultsuffixes	table	gethashes
dirstatus	function	getownpath
dowithfilesandreport	function	getreadfilename
dowithfilesintree	function	hashers
dowithpath	function	homedir
dowithvariable	function	ignorelibrary
executers	table	initialized
expandbraces	function	installinputfilehandler
expandedpathfromlist	function	installinputlinehandler
expandedpathlist	function	jobpath
expandedpathlistfromvariable	function	jobs
expandpath	function	F collectstructure
expandpathfromvariable	function	F currentcomponent
expansion	function	F currentenvironment
extendtexmfvariable	function	F currentproduct
filtered_from_content	function	F currentproject
find_file	function	F currentstructure
find_files	function	F justacomponent
findbinfile	function	F namelist
findctxfile	function	D processors
finders	data table	F productcomponent
findfile	function	F usefile

function data table function function data table function function function function function function function data table string function function function function function table

ioinpath function registerfilehash function knownvariables function registerintrees function libraries table registermethod function registerzipfile F optionalloaded function relations data table F validoptional function load function renew loadbinfile function function renewcache loaders data table repath function loadlualib function reset function loadtexfile function resetextrapaths function loadtime function resetresolve function locateformat function resol ve function locators data table data table savers luacnffallback strina scandata function luacnfname scanfiles function string luacnfspec schemes table strina luacnfstate string T cleaners macros table F md5 F convertfile F none F decodecomment F strip F enablecomment F cleanname F encodecomment F fetchstring F preprocessed F fetchtable F processmk F install setdvnamic function F processmklx setenv function F processmkvi function F version showpath maxreadlevel number simplescanfiles function methodhandler function splitconfigurationpath function openbinfile function splitexpansions function data table splitmethod function openers function openfile splitpath function opentexfile function stackpath function ownpath string starttiming function popextrapath function stoptiming function function suffixes data table popinputname poppath function suffixmap data table data table suffixofformat function prefixes prependhash function texdatablob function pushextrapath function toppath function pushinputname function tracers data table function function pushpath unexpandedpath

unexpandedpathlist

unresolve

function

function

function

function

registerextrapath

registerfile

updaterelations	function	validatedpath	function
updatescript	function	variable	function
uselibrary	function	variableofformat	function
usertypes	data table	variableofformatorsuffix	function
usezipfile	function	wildcardpattern	function

## sandbox (context)

disablelibraries	function	possiblepath	function
disablerunners	function	redefine	function
enable	function	register	function
filehandlerone	function	registerbinary	function
filehandlertwo	function	registerlibrary	function
finalizer	function	registerroot	function
getrunner	function	registerrunner	function
initializer	function	report	function
iohandler	function	setfilenamelogger	function
logcalls	function	setlogger	function
logfiles	function	setreporter	function
original	function	settrace	function
overload	function	validfilename	function

#### scripts (context)

$\hbox{\it autofont} feature$	table		
F disable			
F enable			
F handler			
colors	data table		
decomposehangul	function		
defaults	table		
N inter_char_half	_shrink_factor		
N inter_char_half	N inter_char_half_stretch_factor		
N inter_char_hang	N inter_char_hangul_penalty		
N inter_char_quar	N inter_char_quarter_shrink_factor		
N inter_char_quar	N inter_char_quarter_stretch_factor		
N inter_char_shri	nk_factor		
N inter_char_stre	tch_factor		
N inter_word_stre	tch_factor		
getdata	function		
getinjector	function		
getsplitter	function		
getstatus	function		

```
handlers
                  data table
helpers
                  data table
injectors
                  data table
inserters
                  table
   F nobreakspace_after
   F nobreakspace before
   F space after
   F space before
   F zerowidthspace after
   F zerowidthspace before
installdataset function
installmethod
                  function
numbertodataset data table
numbertohandler data table
reset
                  function
set
                  function
                  function
setstatus
```

data table

splitters

## set (context)

contains function
create function
tolist function

tonumber function
totable function

# sha2 (extra lua)

HASH256	function	hash256	function
HASH384	function	hash384	function
HASH512	function	hash512	function
HEX256	function	hex256	function
HEX384	function	hex384	function
HEX512	function	hex512	function
digest256	function	sum256	function
digest384	function	sum384	function
digest512	function	sum512	function

# sio (extra lua)

read2dot14	function
readbytes	function
readbytetable	function
readcardinal1	function
readcardinal1le	function
readcardinal2	function
readcardinal2le	function
readcardinal3	function
readcardinal3le	function
readcardinal4	function
readcardinal4le	function
readcardinaltable	function
readcline	function
readcstring	function
readfixed2	function
readfixed4	function
readinteger1	function

readinteger1le	function
readinteger2	function
readinteger2le	function
readinteger3	function
readinteger3le	function
readinteger4	function
readinteger4le	function
readintegertable	function
tocardinal1	function
tocardinal1le	function
tocardinal2	function
tocardinal2le	function
tocardinal3	function
tocardinal3le	function
tocardinal4	function
tocardinal4le	function

#### socket (extra lua)

S content-location

**BLOCKSIZE** number S content-md5 DATAGRAMSIZE number S content-range SETSIZE number S content-transfer-encoding **SOCKETINVALID** number S content-type bind function S cookie function choose S date connect function S diagnostic-code function connect4 S dsn-gateway connect6 function S etag dns table S expect F getaddrinfo S expires F gethostname S final-log-id F getnameinfo S final-recipient F tohostname S from F toip S host aettime function S if-match headers table S if-modified-since T canonic S if-none-match S if-range S accept S accept-charset S if-unmodified-since S accept-encoding S in-reply-to S accept-language S keywords S last-attempt-date S accept-ranges S action S last-modified S age S location S allow S max-forwards S alternate-recipient S message-id S arrival-date S mime-version S authorization S original-envelope-id S bcc S original-recipient S cache-control S pragma S cc S proxy-authenticate S comments S proxy-authorization S connection S range S content-description S received S content-disposition S received-from-mta S content-encoding S references S content-id S referer S remote-mta S content-language S content-length S reply-to

S reporting-mta

S resent-	bcc	protect	function
S resent-	сс	report	function
S resent-	date	select	function
S resent-	from	sink	function
S resent-	message-id	sinkt	table
S resent-	reply-to	F close-when-d	one
S resent-	sender	F default	
S resent-	to	F http-chunked	
S retry-a	fter	F keep-open	
S return-	path	skip	function
S sender		sleep	function
S server		source	function
S smtp-re	mote-recipient	sourcet	table
S status		F by-length	
S subject		F default	
S te		F http-chunked	
S to		F until-closed	
S trailer		tcp	function
S transfe	r-encoding	tcp4	function
S upgrade		tcp6	function
S user-ago	ent	tp	table
S vary		N TIMEOUT	
S via		F connect	
S warning		try	function
S will-re	try-until	udp	function
S www-autl	henticate	udp4	function
S x-maile	r	udp6	function
F lower		url	table
F normalize	!	F absolute	
http	table	F build	
N TIMEOUT		F build_path	
S USERAGENT	•	F escape	
F genericfo	rm	F parse	
F open		F parse_path	
F request		F unescape	
newtry	function		

#### sorters (context)

basicsorter	function	B pm	
comparers	table	B uc	
F basic		B zc	
constants	table	B zm	
S defaultdigits		definitions	data table
S defaultlanguag	e	firstofsplit	function
S defaultmethod		packch	function
N digitsmaximum		packuc	function
N digitsoffset		replacementlist	function
N ignoredoffset		setlanguage	function
N replacementoff	set	sort	function
T validmethods		splitters	table
B ch		F utf	
B mc		strip	function
B mm		tracers	data table
Врс		update	function

# sparse (extra lua)

concat	function	range	function
get	function	restore	function
max	function	set	function
min	function	traverse	function
new	function	wipe	function

## statistics (context)

benchmarktimer	function	resettiming	function
checkfmtstatus	function	runtime	function
currenttime	function	savefmtstatus	function
elapsed	function	show	function
elapsedindeed	function	showmemory	function
elapsedseconds	function	showusage	function
elapsedtime	function	starttiming	function
enable	boolean	stoptiming	function
formatruntime	function	threshold	number
hastiming	function	timed	function
memused	function	tracefunction	function
register	function		

# status (basic tex)

getbufferstate	function	getluastate	function
getcallbackstate	function	getmarkstate	function
getconstants	function	getneststate	function
geterrorlinestate	function	getnodestate	function
geterrorstate	function	getparameterstate	function
getexpandstate	function	getpoolstate	function
getextrastate	function	getreadstate	function
getfilestate	function	getsavestate	function
getfontstate	function	getsparsestate	function
gethalferrorlinestate	function	getstringstate	function
gethashstate	function	gettexstate	function
gethyphenationstate	function	gettokenstate	function
getinputstate	function	getwarningstate	function
getinsertstate	function	iocodes	table
getlanguagestate	function	list	function
getlinebreakstate	function	resetmessages	function
getlookupstate	function		

## storage (context)

allocate	function	noftables	number
data	table	register	function
mark	function	shared	data table
marked	function	storedfunctions	data table
max	number	strip	boolean
min	number	tofmodules	number
nofmodules	number	toftables	number

# streams (context)

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

# string (basic lua)

autodouble	function	octtointeger	function
autosingle	function	optionalquoted	function
booleanstring	function	pack	function
byte	function	packrowscolumns	function
bytepairs	function	packsize	function
bytes	function	quote	function
bytetable	function	quoted	function
char	function	rep	function
characterpairs	function	replacenewlines	function
characters	function	reverse	function
checkedsplit	function	split	function
chrtointeger	function	splitlines	function
collapsespaces	function	splitup	function
containsws	function	strip	function
count	function	sub	function
dectointeger	function	texhashed	function
dump	function	texnewlines	function
escapedpattern	function	tformat	function
escapedquotes	function	toHEX	function
explode	function	toboolean	function
f6	function	tobytes	function
find	function	tocontext	function
format	function	todec	function
formatter	function	todimen	function
formatters	function	tohex	function
fullstrip	function	tonodes	function
gmatch	function	topattern	function
gsub	function	totable	function
hextocharacters	function	tounicode16	function
hextointeger	function	toutf	function
is_boolean	function	toutf32	function
is_empty	function	toutf8	function
itself	function	tracedchar	function
len	function	tracedchars	table
limit	function	unescapedquotes	function
linetable	function	unpack	function
longtostring	function	unquote	function
lower	function	unquoted	function
match	function	upper	function
nospaces	function	utf16toutf8	function
nspaces	table	utfcharacter	function

utfcharacters	function	utfvalue	function
utfcharactertable	function	utfvalues	function
utflength	function	utfvaluetable	function
utfpadd	function	valid	function
utfpadding	function	wordsplitter	function

## structures (context)

atlocation	function	F last	
blocks	table	F next	
D collected		F prev	
F define		F previous	
F empty		F raw	
F print		F record	
F save		F reset	
F select		F restart	
F setstate		F restore	
D states		F save	
D tobesaved		F set	
F uservariable		F setlevel	
bookmarks	table	F setoffset	
T extras		F setown	
F get		F setstate	
F mergesections		F setvalue	
F register		T specials	
F reset		F userpage	
F tosections		F subs	
F finalize		D tobesaved	
F flatten		F value	
F installhandler		F way	
F merge		currentsectionnumber	
S method		descriptions	table
F overload		documents	table
F place		D data	
F register		F initialize	
F setopened		F preset	
F setup		F reset	
counters	table	floats	table
F add		formulas 	table
F analyze		helpers	table
F check		F analyze	
D collected		F formulanumber	
F compact		F merged	
F converted		F page	
F currentvalue		F pageofinternal	
D data		F prefix	
F define		F prefixlastpage	
F first		F prefixpage	
F get		F simplify	

F title		F popnesting	
F touserdata		F prefix	
inserts	table	F prefixednumber	
F attach		F prefixedpage	
D data		F process	
F define		D pushed	
F detach		F pushnesting	
F getdata		F rawnumber	
F getlocation		F realpage	
F getname		F reordered	
F getnumber		T result	
F nofdetached		F savedlistnumber	
F setlocation		F savedlistprefixednumber	
F setup		F savedlisttitle	
D stored		D sectionblocks	
itemgroups	table	F sectionnumber	
D collected		F size	
D tobesaved		F title	
lists	table	D tobesaved	
F addto		F use	
F analyze		F userdata	
B autoreorder		F uservalue	
B datorcorder		. 450.74446	
D cached		marks table	
D cached		marks table	
D cached D collected		marks table	
D cached D collected F discard		marks table F number F title	
D cached D collected F discard F enhance		marks table F number F title notes table	
D cached D collected F discard F enhance T enhancers		<pre>marks table   F number   F title notes table   F check_spacing</pre>	
D cached D collected F discard F enhance T enhancers F external		marks table F number F title notes table F check_spacing F checkpagechange	
D cached D collected F discard F enhance T enhancers F external F filter		marks table F number F title notes table F check_spacing F checkpagechange F define	
D cached D collected F discard F enhance T enhancers F external F filter F formulanumber		<pre>marks table   F number   F title notes table   F check_spacing   F checkpagechange   F define   F doifonsamepageasprevious</pre>	
D cached D collected F discard F enhance T enhancers F external F filter F formulanumber F getresult		<pre>marks table   F number   F title notes table   F check_spacing   F checkpagechange   F define   F doifonsamepageasprevious   F get</pre>	
D cached D collected F discard F enhance T enhancers F external F filter F formulanumber F getresult F groupindex		marks table F number F title notes table F check_spacing F checkpagechange F define F doifonsamepageasprevious F get F getdeltapage	
D cached D collected F discard F enhance T enhancers F external F filter F formulanumber F getresult F groupindex F hasnumberdata		marks table F number F title notes table F check_spacing F checkpagechange F define F doifonsamepageasprevious F get F getdeltapage F getinternal	
D cached D collected F discard F enhance T enhancers F external F filter F formulanumber F getresult F groupindex F hasnumberdata F haspagedata		marks table  F number F title  notes table  F check_spacing F checkpagechange F define F doifonsamepageasprevious F get F getdeltapage F getinternal F getn	
D cached D collected F discard F enhance T enhancers F external F filter F formulanumber F getresult F groupindex F hasnumberdata F haspagedata F hastitledata		marks table  F number F title  notes table  F check_spacing F checkpagechange F define F doifonsamepageasprevious F get F getdeltapage F getinternal F getn F getstate	
D cached D collected F discard F enhance T enhancers F external F filter F formulanumber F getresult F groupindex F hasnumberdata F haspagedata F integrate		marks table F number F title notes table F check_spacing F checkpagechange F define F doifonsamepageasprevious F get F getdeltapage F getinternal F getn F getstate F hascontent	
D cached D collected F discard F enhance T enhancers F external F filter F formulanumber F getresult F groupindex F hasnumberdata F haspagedata F hastitledata F integrate F iscached		marks table F number F title notes table F check_spacing F checkpagechange F define F doifonsamepageasprevious F get F getdeltapage F getinternal F getn F getstate F hascontent F internal	
D cached D collected F discard F enhance T enhancers F external F filter F formulanumber F getresult F groupindex F hasnumberdata F haspagedata F hastitledata F integrate F iscached D kinds		marks table F number F title  notes table  F check_spacing F checkpagechange F define F doifonsamepageasprevious F get F getdeltapage F getinternal F getn F getstate F hascontent F internal F internal	
D cached D collected F discard F enhance T enhancers F external F filter F formulanumber F getresult F groupindex F hasnumberdata F haspagedata F hastitledata F integrate F iscached D kinds F label		marks table F number F title notes table F check_spacing F checkpagechange F define F doifonsamepageasprevious F get F getdeltapage F getinternal F getn F getstate F hascontent F internal F internal F listindex	
D cached D collected F discard F enhance T enhancers F external F filter F formulanumber F getresult F groupindex F hasnumberdata F haspagedata F hastitledata F integrate F iscached D kinds F label F location		marks table F number F title notes table F check_spacing F checkpagechange F define F doifonsamepageasprevious F get F getdeltapage F getinternal F getn F getstate F hascontent F internal F internal F listindex D numbers	
D cached D collected F discard F enhance T enhancers F external F filter F formulanumber F getresult F groupindex F hasnumberdata F haspagedata F hastitledata F integrate F iscached D kinds F label F location D names		marks table F number F title  notes table F check_spacing F checkpagechange F define F doifonsamepageasprevious F get F getdeltapage F getinternal F getn F getstate F hascontent F internal F internal F internal F internal F listindex D numbers F ordered	

F	save		F	<sup>:</sup> get
F	setstate		F 1	filter
D	states		F 1	filterdefault
F	store		D 1	filters
page	es	table	D 1	flaginternals
F	allmarked		F 1	forceinnermode
F	analyze		F 1	from
D	collected		D 1	functions
F	fraction		Fζ	get
F	getlabels		Fζ	getcurrentlabel
F	in_body		Fζ	getcurrentmetadata
F	is_odd		Fζ	getcurrentprefixspec
F	mark		Fζ	getinnermethod
F	marked		Fζ	getinternalcachedlistreference
F	markedlist		Fζ	getinternallistreference
N	l nofpages		Fζ	getinternalreference
F	number		Fζ	getoutermethod
F	on_right		Dł	nandlers
F	save		Fi	identify
D	tobesaved		Fi	import
F	toranges		Fi	inject
refe	erences	table	Fi	injectcurrentset
F	analyze		Si	innermethod
F	checked		Fi	integrate
F	checkedfile		Di	internals
F	checkedfileorurl		F 1	Load
F	checkedprogram		F 1	loadpresets
F	checkedrealpage		Fn	nark
F	checkedurl		S	outermethod
D	collected		Fβ	oagefromhash
U	componentsplitter		D	pages
F	currentmetadata		Up	orefixsplitter
F	currentorder		D	oroductdata
D	currentset		Τţ	orograms
F	define		Т	data
D	defined		F	define
D	derived		F	get
F	enhance		Fı	realpageofpage
D	executers		Uı	referencesplitter
F	export		Dι	referred
Т	files		Fı	referredpage
	T data		Fı	registerfinalizer
	F define		Fı	registerinitializer
	F found		Fı	registerpage

F reset		F define	
D runners		F enhance	
F set		F extend	
F setandgetattribu		F filter	
F setinternalrefe	rence	F filtercollected	
F setlinkmethod		F finalize	
F setnextinternal		F findinternal	
F setnextorder		F flush	
F setreferencerea	Lpage	F get	
F setstructure		F integrate	
D specials		F prepare	
F splitcomponent		F process	
F splitprefix		F setmethod	
F splitreference		F sort	
F synchronizepage		F store	
T testrunners		D tobesaved	
Finner		F tweak	
F special		F unique	
F special operat		F use	
	tion with arguments	F userdata <b>sections</b>	table
T testspecials			table
F deltapage		F autodepth	
Fi		F cct	
F internal		D collected	
F internal F page		D collected F current	
F internal F page F realpage		D collected F current F currentblock	
F internal F page F realpage F section		D collected F current F currentblock F currentid	
F internal F page F realpage F section F userpage		D collected F current F currentblock F currentid F currentlevel	
F internal F page F realpage F section F userpage D tobereferred		D collected F current F currentblock F currentid F currentlevel F currentsectioninde:	×
F internal F page F realpage F section F userpage D tobereferred D tobesaved		D collected F current F currentblock F currentid F currentlevel F currentsectioninde: F depthnumber	x
F internal F page F realpage F section F userpage D tobereferred D tobesaved D tracedpages		D collected F current F currentblock F currentid F currentlevel F currentsectioninde: F depthnumber F finddata	×
F internal F page F realpage F section F userpage D tobereferred D tobesaved D tracedpages T urls		D collected F current F currentblock F currentid F currentlevel F currentsectioninde: F depthnumber F finddata F findnumber	×
F internal F page F realpage F section F userpage D tobereferred D tobesaved D tracedpages T urls T data		D collected F current F currentblock F currentid F currentlevel F currentsectioninde: F depthnumber F finddata F findnumber F fullnumber	x
F internal F page F realpage F section F userpage D tobereferred D tobesaved D tracedpages T urls T data F define		D collected F current F currentblock F currentid F currentlevel F currentsectioninde: F depthnumber F finddata F findnumber F fullnumber F getcurrentlevel	x
F internal F page F realpage F section F userpage D tobereferred D tobesaved D tracedpages T urls T data F define F found		D collected F current F currentblock F currentid F currentlevel F currentsectioninde: F depthnumber F finddata F findnumber F fullnumber F getcurrentlevel F getlevel	x
F internal F page F realpage F section F userpage D tobereferred D tobesaved D tracedpages T urls T data F define F found F get		D collected F current F currentblock F currentid F currentlevel F currentsectioninde: F depthnumber F finddata F findnumber F fullnumber F getcurrentlevel F getlevel F getnumber	×
F internal F page F realpage F section F userpage D tobereferred D tobesaved D tracedpages T urls T data F define F found F get F untex		D collected F current F currentblock F currentid F currentlevel F currentsectioninde: F depthnumber F finddata F findnumber F fullnumber F getcurrentlevel F getlevel F getnumber F internalreference	×
F internal F page F realpage F section F userpage D tobereferred D tobesaved D tracedpages T urls T data F define F found F get F untex D usedinternals		D collected F current F currentblock F currentid F currentlevel F currentsectioninde: F depthnumber F finddata F findnumber F fullnumber F getcurrentlevel F getlevel F getnumber F internalreference D levelmap	x
F internal F page F realpage F section F userpage D tobereferred D tobesaved D tracedpages T urls T data F define F found F get F untex		D collected F current F currentblock F currentid F currentlevel F currentsectioninde: F depthnumber F finddata F findnumber F fullnumber F getcurrentlevel F getlevel F getnumber F internalreference D levelmap D levels	x
F internal F page F realpage F section F userpage D tobereferred D tobesaved D tracedpages T urls T data F define F found F get F untex D usedinternals D usedviews F valid	table	D collected F current F currentblock F currentid F currentlevel F currentsectioninde: F depthnumber F finddata F findnumber F fullnumber F getcurrentlevel F getlevel F getnumber F internalreference D levels F matchingtilldepth	×
F internal F page F realpage F section F userpage D tobereferred D tobesaved D tracedpages T urls T data F define F found F get F untex D usedinternals D usedviews	table	D collected F current F currentblock F currentid F currentlevel F currentsectioninde: F depthnumber F finddata F findnumber F fullnumber F getcurrentlevel F getlevel F getnumber F internalreference D levelmap D levels	x
F internal F page F realpage F section F userpage D tobereferred D tobesaved D tracedpages T urls T data F define F found F get F untex D usedinternals D usedviews F valid registers	table	D collected F current F currentblock F currentid F currentlevel F currentsectioninde: F depthnumber F finddata F findnumber F fullnumber F getcurrentlevel F getlevel F getnumber F internalreference D levelmap D levels F matchingtilldepth F numbers	x
F internal F page F realpage F section F userpage D tobereferred D tobesaved D tracedpages T urls T data F define F found F get F untex D usedinternals D usedviews F valid registers F analyze	table	D collected F current F currentblock F currentid F currentlevel F currentsectioninde: F depthnumber F finddata F findnumber F fullnumber F getcurrentlevel F getlevel F getnumber F internalreference D levelmap D levels F matchingtilldepth F numberatdepth	x

F pushblock		F pages	
F register		F prepare	
D registered		F process	
F reportstructure		F register	
F save		F registershown	
T sectionblockdata		F registerused	
T bodypart		F reset	
S bookmark		F resetall	
F set		F resetlist	
F setblock		F resetshown	
F setchecker		F resetused	
F setentry		F sort	
F setinitialblock		F synonym	
F setlevel		D tobesaved	
F setnumber		tags	table
F showstructure		T backend	
F structuredata		T checks	
F title		F marginanchor	
D tobesaved		F margintext	
F typesetnumber		F math	
F userdata		F mrow	
B verbose		F mtable	
sets	table	T destinationhash	
F define		T extras	
F get		F adddestination	
F getall		F addimplicit	
D setlist		F addinternal	
specials	table	F addreference	
D collected		F combination	
F retrieve		F combinationpair	
F store		F delimitedsymbol	
D tobesaved		F description	
synonyms	table	F descriptionsymbol	
F analyzed		F document	
D collected		F float	
F compare		F formulacontent	
F define		F image	
F enhance		F item	
F filter		F itemgroup	
F finalize		F link	
F flush		F listitem	
F isshown		F mmultiscripts	
F isused		F mover	
F meaning		F msub	

F msubsup F initializeexport D labels F msup F munder F last F munderover F lastinchain F paragraph F localexport F publication F locatedtag F reference D overloads F registerlocation T patterns F registerpages U splitter F registerseparator F pop F section D properties F sorting F push F subsentencesymbol F registerextradata F synonym F registermetadata F tablecell F restart F tabulate F setaspect F tabulatecell F setattributehash T finalizers F setcodepoint F descriptions F setcombination T fixes F setcombinationpair F linenumber F setconstruct F fontfaced F setfigure T listdata F setfloat T referencehash F setformulacontent F setattribute F sethighlight F tofontface F setitem T usedimages F setitemgroup T image F setlist T usedstyles F setnotation T construct F setnotationsymbol T highlight F setparagraph F current F setproperty F elementtag F setpublication F enabled F setregister F setsorting F exportbox F finishexport F setsynonym F settablecell F getextradata F settabulatecell F getid F settagdelimitedsymbol F getitemgroup F getmetadata F settagsubsentencesymbol F gettablecell F setupexport F gettabulatecell F setuserproperties F handler D specifications T ignored F start

F stop T usewithcare

F strip

D taglist

# table (basic lua)

allkeys	function	orderedhash	function
append	function	pack	function
are_equal	function	prepend	function
collapsed	function	print	function
collapsedhash	function	remove	function
combine	function	reverse	function
compact	function	reversed	function
concat	function	save	function
contains	function	sequenced	function
сору	function	serialize	function
count	function	setmetatablecall	function
create	function	setmetatableindex	function
derive	function	setmetatableindices	function
deserialize	function	setmetatablekey	function
drop	function	setmetatablenewindex	function
fastcopy	function	sort	function
fastserialize	function	sorted	function
filtered	function	sortedhash	function
flattened	function	sortedhashkeys	function
fromhash	function	sortedhashonly	function
getmetatablekey	function	sortedindexonly	function
getn	function	sortedkeys	function
has_one_entry	function	sortedpairs	function
hashed	function	sparse	function
identical	function	strip	function
imerge	function	sub	function
imerged	function	swapped	function
insert	function	tocontext	function
is_empty	function	tocsv	function
is_simple_table	function	tofile	function
keys	function	tohandle	function
load	function	tohash	function
loweredkeys	function	toxml	function
makeweak	function	twowaymapper	function
merge	function	unique	function
merged	function	unnest	function
mirrored	function	unpack	function
move	function	values	function
ordered	function		

# tex (basic tex)

omende	table		function
amcode attribute	table	error expandasvalue	function
automigrationcodes	data table	experiments	data table
•	data table	extraprimitives	function
autoparagraphcodes badness	function	fatalerror	function
boundaries	table	fillcodes	data table
D names	table	flagcodes	data table
		fontidentifier	function
D numbers		fontname	function
F system	table	forcehmode	function
box	table	forceinputstatefile	function
boxresources	table	·	function
F getbox		forceinputstateline	
F getdimensions		fprint	function
F save		frozenparcodes	data table
F use	data table	get	function
breakcodes		getadjustoptionvalues	function
buildcodes	data table	getalignmentcontextvalues	function
catcode	table	getamcode	function
cccode	table	getappendlinecontextvalues	function
charactercontrolcodes	data table	getattribute	function
charactertagcodes	data table	getautomigrationvalues	function
chardef	function	getautoparagraphvalues	function
classoptioncodes	data table	getbox	function
codes	table	getboxdir	function
conditionals	data table	getboxresourcebox	function
constants	data table	getboxresourcedimensions	function
count	table	getbreakcontextvalues	function
cprint	function	getbuildcontextvalues	function
ctdcatcodes	number	getcardinalvalue	function
ctxcatcodes	number	getcatcode	function
definefont	function	getcccode	function
delcode	table	getcharactercontrolvalues	function
dimen	table	getcharactertagvalues	function
dimensiondef	function	getcount	function
directioncodes	data table	getdelcode	function
directives	data table	getdelcodes	function
discoptioncodes	data table	getdimen	function
discpartcodes	data table	getdimensionvalue	function
dontcomplain	function	getdirectionvalues	function
doublescriptoptioncodes	data table	getdiscoptionvalues	function
enableprimitives	function	getdiscpartvalues	function

getdoublescriptoptionvalues	function	getlistanchorvalues	function
geterrorvalues	function	getlistfields	function
getfillvalues	function	getlistgeometryvalues	function
getflagvalues	function	getlistsignvalues	function
getfloat	function	getlocalbox	function
getfontoffamily	function	getlocalboxlocations	function
getfrozenparvalues	function	getlocallevel	function
getglue	function	getmark	function
getglueoptionvalues	function	getmarknames	function
getglyphdata	function	getmath	function
getglyphdiscvalues	function	getmathclassoptionvalues	function
getglyphoptionvalues	function	getmathcode	function
getglyphprotectionvalues	function	getmathcodes	function
getglyphscales	function	getmathcontrolvalues	function
getglyphscript	function	getmathdir	function
getglyphstate	function	getmathgluevalues	function
getgroupvalues	function	getmathoptionvalues	function
gethccode	function	getmathparametervalues	function
gethelptext	function	getmathscriptordervalues	function
gethmcode	function	getmathscriptsmodevalues	function
gethyphenationvalues	function	getmathstylenamevalues	function
getiftypes	function	getmathstylevalues	function
getinputstatefile	function	getmathstylevariant	function
getinputstateline	function	getmathsurroundvalues	function
getinputstatemode	function	getmathvariantpresets	function
getinsertcontent	function	getmathvariantvalues	function
getinsertdepth	function	getmeasure	function
getinsertdistance	function	getmode	function
getinsertheight	function	getmodevalues	function
getinsertlimit	function	getmuglue	function
getinsertmultiplier	function	getmuskip	function
getinsertwidth	function	getnest	function
getintegervalue	function	getnestfields	function
getinteraction	function	getnestlevel	function
getinteractionmodes	function	getnoadoptionvalues	function
getiovalues	function	getnormalizelinevalues	function
getkerneloptionvalues	function	getnormalizeparvalues	function
getlargestusedmark	function	getoutputactive	function
getlccode	function	getpacktypevalues	function
getlinebreakparameterfields	function	getpagecontextvalues	function
getlinebreakresultfields	function	getpagestate	function
getlinebreakstatevalues	function	getpagestatevalues	function
getlinedir	function	getparametermodevalues	function
getlist	function	getparcontextvalues	function

function isdimen getpardir isfloat getparmodevalues function function isalue getparstate getparstatefields function ismuglue **getpartriggervalues** function ismuskip getpenaltyoptionvalues function isprintable **getpositvalue** function isskip getprepoststatevalues function istoks getprimitiveorigins function lastnodetype **getprotrusionboundaryvalues** function 1 ccode **getregisterindex** function linehreak **getruleoptionvalues** function linebreakstatecodes getrunstate function listanchorcodes **getrunstatevalues** function listgeometrycodes getsfcode function lists getshapingpenaltiesvalues function listsiancodes function luacatcodes getskip getspecialmathclassvalues function magicconstants getspecification function N allfitnessvalues getspecificationoptionvalues function N assumedmathcontrol gettextcontrolvalues function N awfulbad gettextdir function N decentcriterion gettoks function N defaultcatcodetable getuccode function N defaultcharactercontrol **getuleaderlocationvalues** function N defaultdeadcvcles **getunitclassvalues** function N defaulteqnogapstep table qlue N defaulthangafter glueoptioncodes data table N defaultoutputbox glyphdisccodes data table N defaultpredisplaygap **qlyphoptioncodes** data table N defaultrule data table groupcodes N defaultspacefactor function hashtokens N defaulttolerance hccode table N deplorable hmcode table N ejectpenalty hshcatcodes number N ignoredepth hyphenationcodes data table N infinitebad ifs data table N infinitepenalty inicatcodes number N infinity integerdef function N largewidthexcess interactioncodes data table N loosecriterion isattribute function N mathallclass function isbox N mathbeginclass iscount function N mathdefaultpenalty isdefined function N mathendclass

function function function function function function function function function table function data table data table data table table data table number table

N mathlastuserclass N maxtoksregisterindex N maxattributeregisterindex N maxtwinlength N maxboxregisterindex N mincardinal N maxbytecodeindex N mindatavalue N maxcalculatedbadness N mindimen N maxcardinal N mindimension N minhalfword N maxcategorycode N maxcharactercode N mininfinity N maxdatavalue N mininteger N maxdimen N minnoffitnessvalues N maxdimenregisterindex N minguarterword N maxdimension N minscalefactor N maxdimensionregisterindex N minspacefactor N maxendlinecharacter N nocatcodetable N maxfloatregisterindex N null N maxfontadjustshrinkfactor N nullflag N maxfontadjuststep N nullfont N maxfontadjuststretchfactor N onebp N maxfunctionreference N presetrulethickness N maxglueregisterindex N runningrule N maxhalfvalue N smallstretchability N maxhalfword N specialspacefactor N maxinteger N texeathsize N maxintegerregisterindex N texhashprime N maxintregisterindex N texhashsize N maxlimitedscale N two N maxmarkindex N undefinedmathparameter N maxmathclasscode N maxmathfamilyindex N unusedattributevalue N maxmathscalingfactor N unusedmathfamily N maxmathstylescale N unusedmathstyle N maxmuglueregisterindex N unusedscriptvalue N maxnewlinecharacter N unusedstatevalue N maxnofbytecodes N zeroglue mathchardef function N maxnofcatcodetables N maxnoffitnessvalues mathcode table mathcontrolcodes data table N maxnoffonts mathoptioncodes data table N maxnoflanguages mathparametercodes data table N maxnofmarks N maxnofmathfamilies mathscriptordercodes data table N maxquarterword mathscriptsmodecodes data table modelevels table N maxscalefactor N maxsizeofword N horizontal

N maxspacefactor

N mathfirstuserclass

N math		setattribute	function
N unset		setbox	function
N vertical		setboxdir	function
modes	data table	setcardinalvalue	function
mprint	function	setcatcode	function
muglue	table	setcccode	function
muskip	table	setconditional	function
nest	table	setcount	function
nilcatcodes	number	setdelcode	function
noadoptioncodes	data table	setdimen	function
normalizelinecodes	data table	setdimensionvalue	function
normalizeparcodes	data table	setfloat	function
notcatcodes	number	setglue	function
number	function	setglyphdata	function
parcontextcodes	data table	setglyphscript	function
partriggercodes	data table	setglyphstate	function
penaltyoptioncodes	data table	sethccode	function
poplocal	function	sethmcode	function
popsavelevel	function	setinputstatefile	function
posit	table	setinputstateline	function
positdef	function	setinputstatemode	function
preparelinebreak	function	setinsertcontent	function
primitives	function	setinsertdistance	function
print	function	setinsertlimit	function
protrusionboundarycodes	data table	setinsertmultiplier	function
prtcatcodes	number	setintegervalue	function
pushlocal	function	setinteraction	function
pushsavelevel	function	setlccode	function
quitlocal	function	setlinedir	function
quittoks	function	setlist	function
resetparagraph	function	setlocalbox	function
rlncatcodes	number	setmath	function
romannumeral	function	setmathcode	function
round	function	setmathdir	function
ruleoptioncodes	data table	setmuglue	function
runlocal	function	setmuskip	function
runstatecodes	data table	setnest	function
runstring	function	setpardir	function
runtoks	function	setpositvalue	function
saveboxresource	function	setrunstate	overloaded funct
scale	function	setsfcode	function
scantoks	function	setskip	function
set	function	settextdir	function
setamcode	function	settoks	function

setuccode function textcontrolcodes data table table table sfcode toks shapingpenaltiescodes data table tonumber function shiftparshape function toscaled function shipout function **tpacatcodes** number showcontext function **tpbcatcodes** number skip table tprint function data table snapshotpar function trackers sp function triggerbuildpage function **specialmathclasscodes** data table txtcatcodes number specificationoptioncodes data table uccode table splitbox function uprint function sprint function function useboxresource stringtocodesbitmap function userdiscoptioncodes data table data table userglyphoptioncodes data table systemmodes function vrbcatcodes takebox number texcatcodes number write function

# texconfig (basic tex)

buffersize     table     languagesize     table       N size     N size       N step     N step       errorlinesize     table     marksize     table       N size     N size	
N step N step errorlinesize table marksize table	
errorlinesize table marksize table	
N cizo	le
N 5126 N 5126	
<b>expandsize</b> table N step	
N size nestsize tab	le
filesize table N size	
N size N step	
N step nodesize tab	le
firstline string N size	
fontsize table N step	
N size parametersize tab	le
N step N size	
formatname string N step	
functionsize number poolsize tab	le
halferrorlinesize table N size	
N size N step	
hashsize table propertiessize numb	ber
N size savesize tab	le
N step N size	
<pre>init</pre>	
<pre>inputsize table shell_escape str</pre>	ing
N size stringsize tab	le
N step N size	
<pre>insertsize</pre>	
N size tokensize tab	le
N step N size	
<pre>kpse_init boolean N step</pre>	

# texio (basic tex)

closeinput	function	write	function
forceendoffile	function	write_nl	function
getinputindex	function	writenl	function
getselectorvalues	function	writeselector	function
getsourcefilename	function	writeselectorlf	function
setlogfile	function	writeselectornl	function
terminal	function		

# token (basic tex)

create	function	getexpandable	function
expand	function	getexpansion	function
expand macro	function	getfields	function
expandmacro	function	getflags	function
future expand	function	getfrozen	function
futureexpand	function	getfunctionvalues	function
get_active	function	getid	function
get cmdchrcs	function	getimmutable	function
get cmdname	function	getindex	function
get command	function	getinstance	function
get csname	function	getinteger	function
get_cstoken	function	getmacro	function
get_dimension	function	getmeaning	function
get expandable	function	getnoaligned	function
get_fields	function	getparameters	function
get_flags	function	getpermanent	function
get_frozen	function	getprimitive	function
get_id	function	getprimitives	function
get_immutable	function	getprotected	function
get_index	function	getrange	function
get_instance	function	gettok	function
get_integer	function	gettolerant	function
get_macro	function	gobble	function
get_meaning	function	<pre>gobble_dimension</pre>	function
get_noaligned	function	gobble_integer	function
<pre>get_parameters</pre>	function	gobbledimension	function
get_permanent	function	gobbleinteger	function
get_primitive	function	grab	function
get_protected	function	is_defined	function
get_range	function	is_next_char	function
get_tok	function	is_token	function
get_tolerant	function	isdefined	function
getactive	function	isnextchar	function
getcmdchrcs	function	istoken	function
getcmdname	function	locatemacro	function
getcommand	function	new	function
getcommandvalues	function	peek_next	function
getconstant	function	peek_next_char	function
getcsname	function	peek_next_expanded	function
getcstoken	function	peeknext	function
getdimension	function	peeknextchar	function

peeknextexpanded	function	scan_value	function
pop_macro	function	scan_word	function
popmacro	function	scanargument	function
push_macro	function	scanbox	function
pushmacro	function	scancardinal	function
put_back	function	scanchar	function
put_next	function	scancmdchr	function
putback	function	scancmdchrexpanded	function
putnext	function	scancode	function
save_lua	function	scancsname	function
savelua	function	scancstoken	function
scan_argument	function	scandelimited	function
scan_box	function	scandetokened	function
scan_cardinal	function	scandimen	function
scan_char	function	scandimenargument	function
scan_cmdchr	function	scandimension	function
scan_cmdchr_expanded	function	scandimensionargument	function
scan_code	function	scanfloat	function
scan_csname	function	scanglue	function
scan_delimited	function	scanint	function
scan_dimen	function	scaninteger	function
scan_dimen_argument	function	scanintegerargument	function
scan_float	function	scankey	function
scan_glue	function	scankeyword	function
scan_integer	function	scankeywordcs	function
scan_integer_argument	function	scanletters	function
scan_key	function	scanluacardinal	function
scan_keyword	function	scanluainteger	function
scan_keyword_cs	function	scanluanumber	function
scan_letters	function	scannext	function
scan_luacardinal	function	scannextchar	function
scan_luainteger	function	scannextexpanded	function
scan_luanumber	function	scanposit	function
scan_next	function	scanreal	function
scan_next_char	function	scanscale	function
scan_next_expanded	function	scanskip	function
scan_real	function	scanstring	function
scan_scale	function	scantoken	function
scan_skip	function	scantokencode	function
scan_string	function	scantokenlist	function
scan_token	function	scantokenstring	function
scan_token_code	function	scantoks	function
scan_tokenlist	function	scanvalue	function
scan_toks	function	scanword	function

serialize	function	setmacro	function
set_dimension	function	skip_next	function
set_integer	function	skip_next_expanded	function
set_lua	function	skipnext	function
set_macro	function	skipnextexpanded	function
setdimension	function	type	function
setinteger	function	undefine_macro	function
setlua	function	undefinemacro	function

# tokens (context)

accessors	table	S todimen	
F active		S toglue	
F cmd		S tonumber	
F cmdchrcs		S tostring	
F cmdname		create	function
F command		defined	function
F csname		flags	function
F expandab	le	getinteger	function
F frozen		getters	table
F index		F box	
F name		F count	
F protecte	d	F cstoken	
F range		F dimen	
astable	function	F glue	
bits	table	F macro	
N active		F meaning	
N alignmen	t	F skip	
N begingro	up	F token	
N characte	r	gobble	function
N close		isdefined	function
N comment		istoken	function
N endgroup		new	function
N endoflin	e	pickup	function
N escape		popmacro	function
N ignore		presets	table
N invalid		T 1 argume	nt
N letter		T 1 intege	r
N mathshif	t	T 1 option	al
N open		T 1 string	
N other		T 2 argume	nts
N paramete	r	T 2 intege	rs
N space		T 2 option	als
N subscrip	t	T 2 string	S
N superscr	ipt	T 3 argume	nts
N whitespa	ce	T 3 intege	rs
cache	data table	T 3 option	als
commands	data table	T 3 string	s
compile	function	T 4 argume	nts
constant	function	T 4 intege	rs
converters	table	T 4 option	als
S toboolea	n	T 4 string	S

T 5 strings	F luanumber
T 6 strings	F lxmlid
T 7 strings	F next
T 8 strings	F nextchar
pushmacro function	F nextexpanded
scanners table	F number
Fargument	F optional
F argumentasis	F peek
F array	F peekchar
F boolean	F peekexpanded
F box	F posit
F bracketed	F real
F bracketedasis	F scanclose
F cardinal	F scanopen
F char	F skip
F cmdchr	F skipexpanded
F cmdchrexpanded	F string
F code	F table
F conditional	F token
F count	F tokencode
F csname	F tokenlist
F csnameunchecked	F tokens
F delimited	F tokenstring
F detokened	F toks
F dimen	F value
F dimenargument	F vbox
F dimension	F verbatim
F float	F vtop
F glue	F whd
F gluespec	F word
F gluevalues	<b>setinteger</b> function
F hash	<b>setters</b> table
F hbox	F box
F integer	F char
F integerargument	F count
F ischar	F dimen
F key	F glue
F keyword	F lua
F keywordcs	F macro
F letters	F skip
F list	<b>shortcuts</b> table
F lua	T bits
F luacardinal	N active
F luainteger	N alignment

N begingroup	F band
N character	F bor
N close	F bxor
N comment	F ceil
N endgroup	F conj
N endofline	F copy
N escape	F cos
N ignore	F exp
N invalid	F exp2
N letter	F floor
N mathshift	F fromposit
N open	F integer
N other	F log
N parameter	F log10
N space	F log1p
N subscript	F log2
N superscript	F logb
N whitespace	F max
N close	F min
F inspect	F modf
N open	F new
T posit	F pow
F NaN	F rotate
F NaR	F round
Fadd	F rounded
Fband	F shift
Fbor	F sin
Fbxor	F sqrt
Fdiv	F tan
Feq	F tonumber
Fle	F toposit
Flt	F tostring
Fmul	F report
Sname	F scanargument
Fpow	F scanargumentasis
Fshl	F scanarray
Fshr	F scanboolean
Fsub	F scanbox
Ftostring	F scanbracketed
Funm	F scanbracketedasis
F abs	F scancardinal
F acos	
	F scanclose
F asin	F scanclose F scancode
F asin F atan	

F scancsname F gluespec F scancsnameunchecked F gluevalues F scandelimited F hash F scandetokened F hbox F scandimen F integer F scandimenargument F integerargument F scandimension F ischar F scanfloat F kev F scanglue F keyword F scangluespec F keywordcs F scangluevalues F letters F scanhash F list F scanhbox F lua F luacardinal F scaninteger F scanintegerargument F luainteger F scankeyword F luanumber F scankeywordcs F lxmlid F scanletters F next F scanlist F nextchar F nextexpanded F scanlua T scanners F number F argument F optional F argumentasis F peek F array F peekchar F boolean F peekexpanded F box F posit F bracketed F real F bracketedasis F scanclose F cardinal F scanopen F char F skip F cmdchr F skipexpanded F cmdchrexpanded F string F code F table F conditional F token F count F tokencode F csname F tokenlist F csnameunchecked F tokens F delimited F tokenstring F detokened F toks F dimen F value F dimenargument F vbox F dimension F verbatim F float F vtop

F glue

F whd

F word	F getinteger
F scannumber	T getters
F scanopen	F box
F scanoptional	F count
F scanposit	F cstoken
F scanstring	F dimen
F scantable	F glue
F scantokenlist	F macro
F scantokenstring	F meaning
F scantoks	F skip
F scanvbox	F token
F scanverbatim	F gobble
F scanvtop	F isdefined
F scanword	F istoken
F toboolean	F new
F todimen	F pickup
T tokens	F popmacro
T accessors	T presets
F active	F pushmacro
F cmd	F setinteger
F cmdchrcs	T setters
F cmdname	F box
F command	F char
F csname	F count
F expandable	F dimen
F frozen	F glue
F index	F lua
F name	F macro
F protected	F skip
F range	T shortcuts
F astable	N close
D cache	F inspect
D commands	N open
F compile	F report
F constant	F scanargument
T converters	F scanargumentasis
S toboolean	F scanarray
S todimen	F scanboolean
S toglue	F scanbox
S tonumber	F scanbracketed
S tostring	F scanbracketedasis
F create	F scancardinal
F defined	F scanclose
F flags	F scancode

F scanconditional F scannumber F scancsname F scanopen F scancsnameunchecked F scanoptional F scandelimited F scanposit F scandetokened F scanstring F scandimen F scantable F scandimenargument F scantokenlist F scandimension F scantokenstring

F scanfloat F scantoks F scanglue F scanvbox F scanverbatim F scangluespec F scangluevalues F scanvtop F scanhash F scanword F scanhbox F toboolean F scaninteger F todimen F scanintegerargument F tonumber F scankeyword F tostring F scankeywordcs D values F scanletters F tonumber F scanlist F tostring

F scanlua values data table

### tracers (context)

printerror function printwarning function

showlines function

# trackers (context)

data	data table	register	function
default	function	report	function
disable	function	reset	function
done	table	savehash	function
dumphashtofile	function	show	function
enable	function	value	function
list	function	values	function
name	string		

# typesetters (context)

-14	4-11-		
alignments	table	F getmethod	
F handler		F handler	
F set	4-1-1-	T handlers	
breakpoints	table	F installhandler	
F define		F set	
F handler		F setcolor	
D mapping		F tomode	
T methods		firstlines	table
T numbers		T actions	
F set		F default	
F setreplacement		F line	
cases	table	F word	
T actions		F handler	
F handler		F set	
F register		fontkerns	table
F set		F handler	
characteralign	table	initials	table
F handler		T actions	
F resetcharacter	align	F default	
F setcharacteral	ign	F handler	
characters	table	F set	
F handler		injectors	table
T methods		F check	
F replacenbsp		T list	
F replacenbspace	s	F mark	
checkers	table	F reset	
F handler		F set	
F reset		F show	
F set		italics	table
cleaners	table	F enablemath	
F handler		F enabletext	
F set		F handler	
corrections	table	kerns	table
F handler		D factors	
digits	table	F handler	
T actions		F keepligature	
F handler		D mapping	
F set		F set	
directions	table	localboxes	table
F getfences		F handler	
F getglobal		manipulators	table

F apply F attach F applyspecification F check showinvisibles function T methods function F Word showsuspects spacings table F Words F abbreviatedjournal F define F expandedjournal F handler F lowercase D mapping F stripperiod T numbers F uppercase T frenchpunctuation T patterns T characters U list S name U pair N number F splitspecification F reset margins table F set F finalhandler F setup table F globalhandler stacking F localhandler F getindex F save F getselection marksuspects function F handler paragraphs table svnchronize table F addanchortoline F handler F addtoline tighten table F calculatedelta F handler F checkline wrappers table **xtables** table F moveinline table periodkerns F cleanup D factors F construct F handler F create D mapping F finish row F set F flush table processors F initialize construct F apply F initialize reflow height F initialize reflow width F register F reset F next row F split F reflow height F reflow width F startapply F stopapply F set construct F stripped F set\_reflow\_height F tostrina F set reflow width rubies table

## updaters (context)

apply function
register function

# url (context)

addscheme	function	hashed	function
barepath	function	hasscheme	function
construct	function	query	function
decode	function	split	function
encode	function	toquery	function
escape	function	unescape	function
filename	function	unescapeget	function

# utf8 (basic lua)

char	function	codes	function
charpattern	string	len	function
codepoint	function	offset	function

# utilities (context)

d = h	+ah1a	_		
debugger	table		readsignedbyte	
F disable			readstring	
F enable			readtag	
F savestats			setposition	
F showstats			size	
F showtraceback			skip	
files	table		skiplong	
F close			skipposition	
F getposition			skipshort	
F getsize			writebyte	
F look			writecardinal1	
F open			writecardinal1	le
F read2dot14			writecardinal2	
F readbyte			writecardinal2	le
F readbytes			writecardinal3	
F readbytetable	<u> </u>		writecardinal3	le
F readcardinal			writecardinal4	
F readcardinal1			writecardinal4	le
F readcardinal1			writeinteger1	
F readcardinal2			writeinteger1l	e
F readcardinal2		F	writeinteger2	
F readcardinal3		F	writeinteger2l	e
F readcardinal3	3le	F	writeinteger3	
F readcardinal4	1	F	writeinteger3l	e
F readcardinal4	4le	F	writeinteger4	
F readcardinalt	table	F	writeinteger4l	e
F readchar			writestring	
F readcline			atters	table
F readcstring		F	formatcolumns	
F readfixed2		F	list	
F readfixed4			stripzeros •	
F readinteger		ghos	tscript	table
F readinteger1		F	convert	
F readinteger1l	Le		statistics	
F readinteger2		grap	hicmagick	table
F readinteger2l	Le		convert	
F readinteger3			statistics	
F readinteger3l	le	grap	hicsmagick	table
F readinteger4		F	convert	
F readinteger4l	le	F	statistics	
F readintegerta	able	json	I	table

Fload	T hashes
F tojson	T settings to list
F tolua	T tablet
F tostring	T settings to set
lua table	T min,max,fit,broad,auto
B alwaysstripcode	B auto
F checkmemory	B broad
F compile	B fit
F loadedluacode	B max
F loadstring	B min
F loadstripped	T text,hidden,paper,page,leftpage,rightpage
N nofstrippedbytes	B hidden
N nofstrippedchunks	B leftpage
F registerfinalizer	B page
B stripcode	B paper
T strippedchunks	B rightpage
F strippedloadstring	B text
T suffixes	F iterator
S lmt	F keq_to_hash
S lua	F listitem
S luc	F make_settings_to_hash_pattern
S lui	F mergehashes
S luj	F options_to_array
S luv	F options_to_hash
S tma	T patterns
S tmc	U settings_to_array
S tua	U settings_to_hash_a
S tuc	U settings_to_hash_b
<b>packers</b> table	U settings_to_hash_c
F hashed	U settings_to_hash_d
F new	U unittotex
F pack	F process_stripped_settings
F simplehashed	F rfc4180splitter
F strip	F runtime
F unpack	F settings_to_array
N version	F settings_to_array_obey_fences
<b>parsers</b> table	F settings_to_array_with_repeat
F add_settings_to_array	F settings_to_hash
F arguments_to_table	F settings_to_hash_colon_too
F array_to_string	F settings_to_hash_strict
F csvsplitter	F settings_to_hash_tolerant
F getparameters	F settings_to_numbers
F groupedsplitat	F settings_to_set
F hash_to_string	F simple_hash_to_string

F splitmethod		F	list	
F splitthousand	S	F	new	
F stepper		F	register	
F stripped_sett	ings_to_array	F	report	
F totime		F	reset	
F unittotex		F	show	
F unittoxml		stac	ker	table
randomizer	table	F	new	
F get		stor	age	table
F getnumber		F	allocate	
F getrepeatable		F	checked	
F getrepeatable	seed	F	mark	
F getseed		F	marked	
F newrepeatable		F	setinitializer	
F popseed		F	sparse	
F pushseed		stre	eams	table
F repeatable		F	close	
F reuseseed		F	getposition	
F setseed		F	getsize	
F setseedi		F	getstring	
randomizers	table	F	look	
F poisson		F	open	
sequencers	table		openstring	
F appendaction			read2dot14	
F appendgroup			readbyte	
F compile			readbytes	
F disableaction			readbytetable	
F disablegroup			readcardinal	
F enableaction			readcardinal1	
F enablegroup			readcardinal1l	e
D functions			readcardinal2	
F localize			readcardinal2l	e
F new			readcardinal3	
F nodeprocessor			readcardinal4	е
F prependaction			readcardinal4l	
F prependgroup F removeaction			readcardinalta	
F replaceaction			readchar	bte
F setkind			readcline	
F tostring			readcstring	
setters	table		readfixed2	
F disable			readfixed4	
F enable			readinteger	
F initialize			readinteger1	
1 11111111111		Г	. caarneeyer 1	

5 8 4 71	5 1	
F readinteger1le	F striplong	
F readinteger2	F tabtospace	
F readinteger2le	T tracers	
F readinteger3	tables	table
F readinteger3le	F accesstable	
F readinteger4	F definedtable	
F readinteger4le	F definetable	
F readintegertable	F encapsulate	
F readsignedbyte	F insertaftervalu	
F readstring	F insertbeforeval	ue
F setposition	F migratetable	
F size	F removevalue	
F skip	F replacevalue	
F skipbytes	tar	table
F skiplong	T archives	
F skipshort	F closearchive	
F tocardinal1	T files	
F tocardinal1le	F fetch	
F tocardinal2	F hash	
F tocardinal2le	F list	
F tocardinal3	F pack	
F tocardinal3le	F unpack	
F tocardinal4	F openarchive	
F tocardinal4le	T registeredfiles	5
<b>strings</b> table	T streams	
F collapse	F fetch	
F collapsecrlf	F hash	
T formatters	F list	
F add	F pack	
F new	F unpack	
F newcollector	T strings	
F newrepeater	F fetch	
F nice	F hash	
T striplinepatterns	F list	
U collapse	F pack	
U collapse all	F unpack	
U prune	templates	table
U prune and collapse	F load	
U prune and no empty	F replace	
U prune and to space	F replacer	
U retain	F resolve	
U retain and collapse	zipfiles	table
U retain and no empty	F close	
F striplines	F found	

F hash	F unzip
F list	F unzipdir
F open	F zipdir

## visualizers (context)

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

# xcomplex (extra lua)

I	function	erf	function
add	function	erfc	function
div	function	erfcx	function
eq	function	erfi	function
mul	function	exp	function
name	string	i	function
pow	function	imag	function
sub	function	log	function
tostring	function	new	function
unm	function	pow	function
abs	function	proj	function
acos	function	real	function
acosh	function	sin	function
arg	function	sinh	function
asin	function	sqrt	function
asinh	function	tan	function
atan	function	tanh	function
atanh	function	topair	function
conj	function	tostring	function
cos	function	totable	function
cosh	function	voigt	function
dawson	function	voigt_hwhm	function

# xdecimal (extra lua)

add	function	bxor	function
band	function	conj	function
bor	function	сору	function
bxor	function	exp	function
div	function	getprecision	function
eq	function	ln	function
idiv	function	log	function
le	function	max	function
lt	function	min	function
mod	function	minus	function
mul	function	new	function
name	string	plus	function
pow	function	pow	function
shl	function	rotate	function
shr	function	setprecision	function
sub	function	shift	function
tostring	function	sqrt	function
unm	function	toengstring	function
abs	function	tonumber	function
band	function	tostring	function
bor	function	trim	function

## xmath (extra lua)

acos	function	i	snormal	function
acosh	function	j	0	function
asin	function	j	1	function
asinh	function	j	n	function
atan	function	l	dexp	function
atan2	function	l,	gamma	function
atanh	function	l	og	function
cbrt	function	l	og10	function
ceil	function	l	og1p	function
copysign	function	l	og2	function
cos	function	l	ogb	function
cosh	function	m	odf	function
deg	function	n	an	number
erf	function	n	earbyint	function
erfc	function	ne	extafter	function
exp	function	p.	i	number
exp2	function	p	OW	function
expm1	function	re	ad	function
fabs	function	re	emainder	function
fdim	function	r	emquo	function
floor	function	re	ound	function
fma	function	S	calbn	function
fmax	function	S	in	function
fmin	function	S.	inh	function
fmod	function	S	qrt	function
frexp	function	t	an	function
gamma	function	t	anh	function
hypot	function	t	gamma	function
inf	number	t	runc	function
isfinite	function	У	0	function
isinf	function	У	1	function
isnan	function	у	n	function

## xml (context)

addentitiesdoctype	function	F family	
addspecialcode	function	F fontspecification	
after	function	F mappedstylevalue	
all	function	F padding	
applylpath	function	F size	
applyselector	function	F style	
assign	function	F stylevalue	
attribute	function	F todimension	
badinclusions	function	F variant	
before	function	F weight	
body	function	defaulthandlers	table
builtinentities	table	D file	
B amp		D parsedxml	
B apos		D string	
B gt		D tex	
B lt		D texline	
B quot		D texspace	
cdata	function	D verbose	
cdatatotext	function	defaultprotocol	string
checkbom	function	delete	function
checkedempty	function	delete_element	<b>function</b>
checkerror	function	despecialized	function
checknamespace	function	each	function
checkns	function	each_element	<b>function</b>
cleansed	function	elements	function
collect	function	elementtocdata	function
<pre>collect_elements</pre>	<del>function</del>	empty	function
collect_tags	function	entities	data table
collect_texts	<del>function</del>	erase	function
collected	function	errorhandler	function
collecttexts	function	escaped	function
compactelement	function	expand	function
content	function	expressions	table
convert	function	F attribute	
сору	function	F boolean	
count	function	F child	
cprint	function	F contains	
CSS	table	F count	
F applyselector		F error	
F colorspecification		F find	
F dimension		F hasclass	

F idstring		F tags	
F lower		F text	
F name		F upper	
F number		F upperall	
F oneof		F url	
F print		F xml	
F quit		T xml	
F tag		F all	
F text		F att	
F undefined		F attribute	
F upper		F attributes	
fillin	function	F cdata	
filter	function	F chainattribute	
finalizers	table	F count	
F paragraphs		F default	
T tex		F elements	
F all		F empty	
F attribute		F first	
F chainattribute		F function	
F chainpath		F index	
F collapsed		F last	
F command		F lowerall	
F concat		F match	
F concatrange		F name	
F context		F position	
F count		F reverse	
F ctxtext		F table	
F default		F tag	
F depth		F tags	
F first		F text	
F function		F texts	
F index		F tomacro	
F last		F upperall	
F lettered		F url	
Flower		first	function
F lowerall		found	function
F match		functions	table
F name		F classes	
F param		F hasclass	
F parameter		getbuffer	function
F position		gethandlers	function
F reverse		gethandlersfunction	function
F stripped		helpers	table
F tag		F recursetext	

include	function	F tex	
inclusion	function	placeholders	table
inclusions	function	F unknown_any_entity	
index	function	F unknown_dec_entity	
inheritattributes	function	F unknown_hex_entity	
inheritedconvert	function	popmatch	function
inject	function	position	function
<del>inject_element</del>	<del>function</del>	privatecodes	data table
<del>inject_element_after</del>	function	privatetoken	function
<pre>inject_element_before</pre>	function	process	function
injectafter	function	<pre>process_attributes</pre>	<del>function</del>
injectbefore	function	process_elements	<b>function</b>
insert	function	processattributes	function
insert_element	function	profiled	table
<del>insert_element_after</del>	<del>function</del>	pure	function
<pre>insert_element_before</pre>	function	pushmatch	function
insertafter	function	raw	function
insertbefore	function	registerentity	function
insertcdata	function	registerns	function
insertcomment	function	reindex	function
inspect	function	<del>remap_name</del>	<b>function</b>
is_valid	function	remap_namespace	<b>function</b>
kind	function	<del>remap_tag</del>	<b>function</b>
last	function	remapname	function
lastmatch	function	remapnamespace	function
load	function	remaptag	function
lpath	function	rename	function
lpathcached	function	renamespace	function
lpathcalls	function	reparsedentitylpeg	userdata
lshow	function	replace	function
makestandalone	function	<del>replace_element</del>	<b>function</b>
match	function	resetinjectors	function
mml	table	resolvens	function
F stripped		root	function
F verbose		save	function
name	function	selection	function
newhandlers	function	separate	function
nodesettostring	function	serialize	function
originalload	function	serializetotext	function
package	function	setcdata	function
parent	function	setcomment	function
parsedentitylpeg	userdata	sethandlersfunction	function
pihandlers	table	setinjectors	function
F injector		setproperty	function

settings	function
specialcodes	data table
specialhandler	table
sprint	function
string	function
strip	function
strip_whitespace	<b>function</b>
stripelement	function
stripleadingspaces	function
table	function
text	function
textonly	function
texttocdata	function
tocdata	function
toelement	function

tostring	function
totable	function
toxml	function
tprint	function
traverse	function
unescaped	function
unescapedentitylpeg	userdata
unprivatized	function
unspecialized	function
wipe	function
withelement	function
withelements	function
wrap	function
xmlns	table

# xzip (extra lua)

adler32	function	crc32	function
compress	function	decompress	function
compresssize	function	decompresssize	function

## zip (context)

archives table
closearchive function

openarchive function
registeredfiles table

# zlib (context)

adler32	function	crc32	function
compress	function	decompress	function
compresssize	function	decompresssize	function