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

ConT_EXt MkIV

global (alias: _G)

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

mime table module function moduledata table modules table mplib table newline function function newproxv function next noads table node table nodes table number table table os outputpagestree function package table pagebuilders table function pairs parametersets table function pcall pdf table physics table print function profiler table function protect function rawequal rawget function rawset function regimes table report characters function require function resolvers table scripts table select function set table setfenv function setmetatable function

socket table table sorters statistics table table status storage table streams table strina table stripmath function structures table table table table tex texconfia table texio table toboolean function table token tokens table tonumber function tostrina function trace characters bool ean traceback function tracers table trackers table function type table typesetters unicode table unpack function url table utf table utilities table visualizers table xml table xmlconvert function xpcall function zip table zlib table

attributes (context)

colorintents	table	11	none	
N attribute			popset	
D data			pushset	
F enable			register	
F handler			registered	
F register			registerspotco	lor
D registered			rgb	
colors	table		rgbtocmyk	
N attribute			rgbtogray	
F cmyk			rgbtohsv	
F cmyktogray			selector	
F cmyktorgb		F	setlist	
F colorcomponent	S	F	setmodel	
B couple		D	sets	
D data		F	spec	
N default		F	spot	
F defineintermed	iatecolor	F	spotcolorname	
F definemixcolor		F	spotcolorparen	t
F definemultiton	ecolor	F	spotcolorvalue	
F defineprocesso	olor	В	supported	
F definesimplegra	ay	F	transparencyco	mponents
F definespotcolo	r	В	triggering	
F definetranspar	ency	F	usecolors	
F enable		F	value	
F filter		D	values	
F forcedmodel		В	weightgray	
F forcesupport		defi	ne	function
F formatcolor		effe	cts	table
F formatgray		N	attribute	
F gray		D	data	
F graytohsv		F	enable	
F handler		F	handler	
F hsvtogray			register	
F hsvtorgb			registered	
F iccprofile			values	
F isblack			lers	table
N main		list		data table
S model		name	_	data table
D models		_	tives	table
F mpcolor			attribute	
F mpoptions		D	data	

F enable
F handler
F register
D registered

numbers data table
ofnode function
private function
showcurrent function
states table

F disabletriggering

F enabletriggering
F finalize
F initialize
F process
F selective
F stacked
F stacker

transparencies table

D data
F enable
F forcesupport
F handler

N attribute

U none F register D registered B supported
B triggering
F value

D values

N attribute
D data
F define
F enable
F forcesupport
F handler
B hasorder
D listwise
F register

D registered
F resolve_begin
F resolve end

F resolve_step

D scopes
F setfeatures
F start

B supported

F stop

D values

backends (context)

F registerdocumentcloseaction

codeinjections table F registerdocumentopenaction F synchronizecolormodel F registeredsymbol current strina F registerpagecloseaction table defaults F registerpageopenaction T codeinjections F registersymbol T nodeiniections F setfieldcalculationset T registrations F setfigurealternative D tables F setfigurecolorspace install function F setfiguremask nodeinjections table F setformat F setformsmethod F restore F save F setpagetransition F transform F setupcanvas function nothina F setupidentity pdf table F setxmpfile T codeinjections F startlayer F addbookmarks F stoplayer F attachmentid F supportedformats F clonefield F useviewerlaver F definefield F validfield E definefieldset F validfieldcategory F defineviewerlaver F validfieldset F embedfile S comment F enabletags T nodeinjections F exportformdata F addtags F finalizepage F attachfile F finishreference F changestackedlayer F getdefaultfieldvalue F cmykcolor F getfieldcategory F comment F getfieldset F destination F getformatoption F effect F getoutputfilename F graycolor F getpreviewfigure F injectbitmap F insertrenderingwindow F insertmovie F mergereferences F insertsound F insertswf F mergeviewerlayers F prerollreference F insertu3d F knockout F presetsymbol F presetsymbollist F negative F processrendering F overprint

F positive

F reference F rgbcolor F spotcolor F startlayer F startstackedlayer

F stoplayer

F stopstackedlayer F transparency

F typesetfield T registrations

F cmykindexcolor F cmykspotcolor

F getspotcolorreference

F grayindexcolor F grayspotcolor F rgbindexcolor F rgbspotcolor F spotcolorname F transparency

T tables

D vfspecials

registrations table tables table

bibtex (context)

F filterall

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

blobs (context)

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

boolean (context)

tocontext function

tonumber function

buffers (context)

append function
assign function
collectcontent function
erase function
exists function
getcontent function

getlines function
parallel table

F define

F hassomecontent

F next
F place
F reset
F save

raw function

builders (context)

kernel	table	F optimize
F hyphena	ation	T registered
F kerning		F reset
F ligatur	ring	F set
F mlist_t	to_hlist	F split
paragraphs	s table	F start
T constru	uctors	F stop
N attri	bute	F tag
F defin	e	vspacing table
F disab	le	F analyze
F enabl	е	D categories
F handl	er	F collapsevbox
T metho	ds	T data
F defa	ault	D map
F one	line	D skip
D names		D snapmethods
D numbe	rs	F definesnapmethod
F set		B fixed
F start		F pagehandler
F stop		F setmap
F keeptog	gether	F setskip
F registe	ertogether	F snapbox
T solutio	ons	F tocategories
T split	ters	F tocategory
F def:	ine	F vboxhandler

caches (context)

ask	boolean
base	string
collapsecontent	function
configfiles	function
contentstate	function
defaults	table
define	function
direct	boolean
force	boolean
getfirstreadablefile	function
getreadablepaths	function
getwritablepath	function
hashed	function

is_writable	function
loadcontent	function
loaddata	function
more	string
relocate	boolean
savecontent	function
savedata	function
${\tt setfirstwritablefile}$	function
setluanames	function
tree	string
treehash	function
usedpaths	function

callback (basic tex)

find function
list function

register overloaded function

callbacks (context)

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

catcodes (context)

names data table
numbers data table

register function

characters (context)

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

chemistry (context)

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

commands (context)

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

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

doifpositionelse	function	findtwopassdata	function
doifpositiononpage	function	firstcountervalue	function
doifpositionsonsamepageelse	function	firstinset	function
doifpositionsonthispageelse	function	flushfloat	function
doifurldefinedelse	function	flushnotes	function
doprocesstypescriptfile	function	flushpostponedblocks	function
doreshapeframedbox	function	flushpostponednotes	function
dostarttextfile	function	fontchar	function
dostoptextfile	function	fontcollectionclone	function
ecolumn	function	fontcollectiondefine	function
elapsedtime	function	fontcollectionprepare	function
enablecolor	function	fontcollectionregister	function
enablecolorintents	function	fontcollectionreport	function
enablefontcolorschemes	function	fontcollectionreset	function
enableparbuilder	function	fontlookupgetkey	function
enableregime	function	fontlookupgetkeyofindex	function
enablespellchecking	function	fontlookupinitialize	function
enabletransparency	function	fontlookupnoffound	function
enhancelinkedlist	function	forceendjob	function
enhancelist	function	forcequitjob	function
enhancereference	function	format	function
erasebuffer	function	formatcolor	function
expandcurrentreference	function	formatgray	function
exportformdata	function	freezerandomseed	function
exportreferences	function	from	function
featureattribute	function	getbuffer	function
featurelist	function	getbufferctxlua	function
feedback	function	getbuffermkvi	function
fetchallmarks	function	getcommandline	function
fetchmultipar	function	getctxfile	function
fetchmultishape	function	getcurrentprefixspec	function
fetchonemark	function	getcurrentreferencemetadata	function
fetchposboxes	function	getdefaultfieldvalue	function
fetchtwomarks	function	getfieldcategory	function
figurefilename	function	getfirstcharacter	function
figurefilepath	function	getfirsttwopassdata	function
figurefiletype	function	getfloatvariable	function
figurerequest	function	getinternalreference	function
figurestatus	function	getlasttwopassdata	function
figureused	function	getmarking	function
figurevariable	function	getmessage	function
filterdefaultreference	function	getnotestate	function
filterreference	function	getprivateattribute	function
finalizebox	function	getprivatechar	function

getprogram	function	listlabel	function
getrandomcounta	function	listlocation	function
getrandomcountb	function	listprefixednumber	function
getrandomseed	function	listprefixedpage	function
getreadfilename	function	listrealpage	function
getsubstring	function	listsize	function
gettexbuffer	function	listtitle	function
gettwopassdata	function	listuserdata	function
gettwopassdatalist	function	loadexamodes	function
geturl	function	loadfontgoodies	function
grabbuffer	function	loadspellchecklist	function
helpaction	function	loadtypescriptfile	function
helpreference	function	loadvisualizer	function
hexstringtonumber	function	locatefilepath	function
hour	function	locfilename	function
hyphenatedlist	function	logoptions	function
hyphenatedurl	function	markregionbox	function
D characters		mathrenderset	function
N lefthyphenmin		maxitemwidth	function
D mapping		minute	function
N righthyphenmin		mixcleanup	function
F setcharacters		mixfinalize	function
incrementedcounter	function	mixflushlist	function
initializetexdirectives	function	mixflushrest	function
initializetextrackers	function	mixgetsplit	function
injectcurrentreference	function	mixsetsplit	function
injectreference	function	mixstate	function
inlinechemical	function	molecule	function
insertattachment	function	month	function
insertcomment	function	monthmnem	function
insertfield	function	monthname	function
insertionnumber	function	mpcolor	function
insertrenderingwindow	function	mpoptions	function
insertsoundclip	function	namedstructureuservariable	function
installedlanguages	function	namedstructurevariable	function
installtexdirective	function	nbfs	function
installtextracker	function	nextcountervalue	function
languagenumber	function	nextparallel	function
lastcountervalue	function	nofdays	function
lchexnumber	function	nofitems	function
lchexnumbers	function	nofstackedfloats	function
leapyear	function	notedeltapage	function
linenumbersstageone	function	notelistindex	function
linenumbersstagetwo	function	notenumberpage	function

notesymbolpage function pushlist function notetitle function pushregime function numbers function pushsectionblock function number function rawcharacter function objectnumber function rawcharacter function objectnumber function rawcharacter function objectnumber function referencepagestate function octstringtonumber function referencepagestate function octstringtonumber function registerattachment function ordinal function registerattachment function overloadbookmark function registerbibtexentry function pagestaterealpage function registerbookmark function pagestaterealpage function registerbookmark function pagropos function registerbookmark function percentageof function registercolor function percentageof function registercolor function percentageof function registeredviewerlayer function popticat function registeredviewerlayer function popticat function registerinempoup function poptialiccorrection function registerinempoup function poptialiccorrection function registermaintextcolor function poptialiccorrection function registermaintextcolor function popsectionblock function registermanespace function popsectionblock function registerrendering function postponendes function registerrendering function preparedPvariable function registerrinasparency function preparedPvariable function registerinasparency function preparedPvariable function resettendering function preparedFile function replacemassingcharacters function preparedFile function resettendering function presettsubulate function resettendering function presettsubulate function resettendering function presestabulate function resettendering function processedfile function resettendering function processfilemany function resettendering function processfilemany function resettendering function processfilemany function resettendering function processfilemany func	noteprefixednumber	function	pushitaliccorrection	function
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ntimes function pushsectionblock function number function rawcharacter function objectnumber function rawcountervalue function objectnumber function rawdate function octnumber function referencepagestate function octnumber function referencepagestate function octstringtonumber function registerattachment function ordinal function registerbibtexentry function pagestaterealpage function registerbibtexfile function pagestaterealpage function registerbibtexfile function pagestaterealpage function registerbibtexfile function parpos function registerbibtexfile function parpos function registerbibtexfile function percentageof function registercolor function percentageof function registercolor function percentageof function registeredviewerlayer function popfloat function registeredviewerlayer function popfloat function registeredviewerlayer function poplialicorrection function registerinenumbering function poplist function registermaintextcolor function popregime function registermaintextcolor function posectionblock function registermanespace function possbus function registerrolockip function posstrut function registersoundclip function posstrut function registersoundclip function posstrut function registersoundclip function posshud function registersoundclip function posshud function registersoundclip function posshud function registersoundclip function preparedPVariable function registerunit function preparedFile function replacemissingcharacters function preparedFile function replacemissingcharacters function preparedFile function resetounter function precessor function precessedfile function resetounter function processedfile function resetounter function processedfile function resetounter function processfile function rese		function	pushregime	function
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numbersfunctionrawcountervaluefunctionobjectnumberfunctionrawdatefunctionobjectpagefunctionreferencepagestatefunctionoctnumberfunctionreferencerealpagefunctionordinalfunctionregisterattachmentfunctionoverloadbookmarkfunctionregisterbibtexeftilefunctionpagestaterealpagefunctionregisterbookmarkfunctionparposfunctionregisterbookmarkfunctionpercentageoffunctionregistercolorfunctionpercentageoffunctionregistercolorintentfunctionpgfxcolorspecfunctionregistercolorintentfunctionplaceparallelfunctionregisterelagroupfunctionpopfloatfunctionregisterlinenumberingfunctionpopflatfunctionregisterlinenumberingfunctionpoplistfunctionregisternamespacefunctionpopregimefunctionregisternamespacefunctionpopsectionblockfunctionregisterpostponedblockfunctionposstoutfunctionregistersoundclipfunctionpossbusfunctionregisterstructureprocessorfunctionpossbusfunctionregisterstructureprocessorfunctionposshudfunctionregisterransparencyfunctionpossmudfunctionregisterransparencyfunctionpossmudfunctionregisterransparencyfunction <th>number</th> <th>function</th> <th>-</th> <th>function</th>	number	function	-	function
objectpagefunctionreferencepagestatefunctionoctnumberfunctionreferencerealpagefunctionoctstringtonumberfunctionregisterattachmentfunctionordinalfunctionregisterbibtexentryfunctionoverloadbookmarkfunctionregisterbibtexfilefunctionpagestaterealpagefunctionregisterbookmarkfunctionparposfunctionregisterbuttonsfunctionpdfrotationfunctionregistercolorfunctionpercentageoffunctionregisteredorintentfunctionpfaceparallelfunctionregistereduiewerlayerfunctionpolaceparallelfunctionregistereduiewerlayerfunctionpoplitaliccorrectionfunctionregisterlinenumberingfunctionpoplitaliccorrectionfunctionregisterlinenumberingfunctionpoplistfunctionregisternamespacefunctionpopregimefunctionregisternamespacefunctionpopregimefunctionregistersostponedblockfunctionpospectionblockfunctionregistersoundclipfunctionpospectionblockfunctionregistersoundclipfunctionposplusfunctionregistersoundclipfunctionpostponenotesfunctionregisterstructureprocessorfunctionpostponenotesfunctionregisterstructureprocessorfunctionprepareMyariablefunctionrenderingyarfunctionprepa	numbers	function	rawcountervalue	
objectpagefunctionreferencepagestatefunctionoctnumberfunctionreferencerealpagefunctionoctstringtonumberfunctionregisterattachmentfunctionordinalfunctionregisterbibtexentryfunctionoverloadbookmarkfunctionregisterbibtexfilefunctionpagestaterealpagefunctionregisterbookmarkfunctionparposfunctionregisterbuttonsfunctionpdfrotationfunctionregistercolorfunctionpgfxcolorspecfunctionregisteredviewerlayerfunctionplaceparallelfunctionregisteredviewerlayerfunctionpoploatfunctionregisteritemgroupfunctionpoplitaliccorrectionfunctionregisterlinenumberingfunctionpoplistfunctionregistermamespacefunctionpopregimefunctionregistermamespacefunctionpopsectionblockfunctionregistersoundelipfunctionposplusfunctionregistersoundelipfunctionposplusfunctionregistersoundelipfunctionpostponenotesfunctionregistersoundelipfunctionpostponenotesfunctionregistertransparencyfunctionposwhdfunctionregistertransparencyfunctionprepareMPvariablefunctionregisterunitfunctionprepareMPvariablefunctionrenderingvarfunctionpreparedFibtexsessionfunctionrend	objectnumber	function	rawdate	function
octnumberfunctionreferencerealpagefunctionordinalfunctionregisterattachmentfunctionoverloadbookmarkfunctionregisterbibtexentryfunctionpagestaterealpagefunctionregisterbibtexfilefunctionparposfunctionregisterbuttonsfunctionpercentageoffunctionregistercolorfunctionpercentageoffunctionregistercolorintentfunctionparpoxfunctionregisteredviewerlayerfunctionpoftoatfunctionregisterlengroupfunctionpopfloatfunctionregisterlinenumberingfunctionpopfloatfunctionregisterlinenumberingfunctionpoplistfunctionregisternamespacefunctionpopregimefunctionregisternamespacefunctionposectionblockfunctionregisterrostponedblockfunctionposfunctionregisterrostponedblockfunctionposstrutfunctionregisterroundclipfunctionpostponenotesfunctionregistersundclipfunctionposxyfunctionregisterunitfunctionposwhdfunctionregisterunitfunctionprepareMPvariablefunctionrelatemarkingfunctionpreparedfilefunctionreplacemissingcharactersfunctionpreparedfilefunctionreplacemissingcharactersfunctionpresetsymbollistfunctionresavefloatfunction	-	function	referencepagestate	function
octstringtonumberfunctionregisteraltachmentfunctionordinalfunctionregisterbibtexentryfunctionoverloadbookmarkfunctionregisterbibtexfilefunctionpagestaterealpagefunctionregisterbookmarkfunctionparposfunctionregisterbuttonsfunctionpdfrotationfunctionregistercolorfunctionpercentageoffunctionregistercolorintentfunctionpgfxcolorspecfunctionregisteredviewerlayerfunctionplaceparallelfunctionregisteredviewerlayerfunctionpopfloatfunctionregisteritemgroupfunctionpopfloatfunctionregisteritemgroupfunctionpoplistfunctionregisternamespacefunctionpopregimefunctionregisternamespacefunctionpopsectionblockfunctionregisternederingfunctionpos functionregisterrenderingfunctionposplusfunctionregistersoundclipfunctionpostponenotesfunctionregisterstructureprocessorfunctionpostponenotesfunctionregisterunitfunctionpostponenotesfunctionregisterunitfunctionposmardfunctionregisterunitfunctionposmardfunctionregisterunitfunctionprepareMPvariablefunctionregisterunitfunctionpreparedfilefunctionremovemissingcharactersfunction<		function		function
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processfileoncefunctionresetreferencefunctionprocesslistfunctionresetstructureprocessorfunction				
processlist function resetstructureprocessor function	•			
	-			
pushfloatfunctionresettimerfunction	-			
	pushfloat	function	resettimer	function

restartcounter	function	setformsmethod	function
restorecounter	function	setinsertionlocation	function
restorecurrentattributes	function	setinterfaceconstant	function
restorenote	function	setinterfaceelement	function
romannumerals	function	setinterfacemessage	function
runbuffer	function	setinterfacemessages	function
safechar	function	setinterfacevariable	function
savebuffer	function	setinternalreference	function
savecounter	function	setlanguageexceptions	function
savecurrentattributes	function	setlanguagesynonym	function
savedlistnumber	function	setlayer	function
savedlistprefixednumber	function	setmarking	function
savedlisttitle	function	setmathalphabet	function
savefloat	function	setmathalternate	function
savenote	function	setmathattribute	function
saveobject	function	setmathitalics	function
saveparallel	function	setmathstyle	function
savestructureblock	function	setnextinternalreference	function
savetaggedtwopassdata	function	setnotestate	function
savetwopassdata	function	setnotesymbolpage	function
second	function	setobject	function
selectstructureblock	function	setopendocumentaction	function
setbreakpoints	function	setopenpageaction	function
setcharactercasing	function	setowncounter	function
setcharactercleaning	function	setpagestate	function
setcharacterkerning	function	setpagestaterealpageno	function
setcharacterspacing	function	setpagetransition	function
setcharacterstripping	function	setparbuilder	function
setclosedocumentaction	function	setpos	function
setclosepageaction	function	setrandomseed	function
setcolormodel	function	setrealign	function
setcounter	function	setreferencearguments	function
setdataset	function	setreferenceattribute	function
setdigitsmanipulation	function	setreferenceoperation	function
setdirection	function	setsectionblock	function
setdocumentenvironments	function	setstructureblockstate	function
setdocumentfilenames	function	settagcombination	function
setdocumentmodes	function	settagdescription	function
setdocumentmodules	function	settagdescriptionsymbol	function
setfigurelookuporder	function	settagfigure	function
setfontfeature	function	settaghighlight	function
setfontofid	function	settagitemgroup	function
setfontsolution	function	settagproperty	function
setformat	function	settagsorting	function

settagsynonym	function	stopenvironment	function
settagtablecell	function	stopfontsolution	function
settagtabulatecell	function	stopparbuilder	function
setupbookmarks	function	stopproduct	function
setupcanvas	function	stopproject	function
setupcharacterspacing	function	stopregime	function
setupexport	function	stopsectionlevel	function
setupfontexpansion	function	stoptag	function
setupfontprotrusion	function	stoptext	function
setupidentity	function	stopviewerlayer	function
setupinsertion	function	storejavascriptcode	function
setupitaliccorrection	function	storejavascriptpreamble	function
setuplinenumbering	function	storenote	function
setvisual	function	structureautocatcodedget	function
setxmpfile	function	structurecatcodedget	function
showassignerror	function	structuregivencatcodedget	function
showattributes	function	structurenumber	function
showcallbacks	function	structuretitle	function
showchardata	function	structureuservariable	function
showcounter	function	structurevariable	function
showfontparameters	function	subcountervalues	function
showhyphenatedinlist	function	subff	function
showjustification	function	subfs	function
showmessage	function	synchronizecolormodel	function
splitfilename	function	synchronizemarking	function
spotcolorname	function	taggedmathfunction	function
spotcolorparent	function	testcase	function
spotcolorvalue	function	textime	function
startchemical	function	transparencycomponents	function
startcolorset	function	triggereffect	function
startcomponent	function	triggernegative	function
startenvironment	function	truefilename	function
startfontsolution	function	typebuffer	function
startparbuilder	function	typefile	function
startproduct	function	typestring	function
startproject	function	uchexnumber	function
startregime	function	uchexnumbers	function
startsectionlevel	function	undefinechemical	function
starttag	function	unicodechar	function
starttext	function	unit	function
startviewerlayer	function	unloadlanguage	function
stopchemical	function	useMPlibrary	function
stopcolorset	function	useanyfile	function
stopcomponent	function	usecldfile	function

usecolors	function	vspacing	function
usecomponent	function	vspacingcollapse	function
useenvironment	function	vspacingdefine	function
usefile	function	vspacingsetamount	function
usejavascriptpreamble	function	vspacingsnap	function
usejavascriptscripts	function	way	function
uselibrary	function	weekday	function
useluafile	function	weekdayname	function
usemodules	function	widthofstring	function
usepath	function	writestatus	function
useproduct	function	x_table_cleanup	function
useproject	function	x_table_construct	function
usesubpath	function	x_table_create	function
usesymbols	function	x_table_flush	function
usetexfile	function	x_table_init_construct	function
useurl	function	x_table_init_reflow_height	function
usexmlfile	function	x_table_init_reflow_width	function
usezipfile	function	x_table_next_row	function
utfchar	function	$x_$ table_reflow_height	function
utfmathclass	function	x_table_reflow_width	function
utfmathcommand	function	x_table_set_construct	function
utfmathfiller	function	x_table_set_reflow_height	function
utfmathstretch	function	x_table_set_reflow_width	function
verbose	function	year	function
visual	function		

containers (context)

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

converters (context)

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

coroutine (basic lua)

сосо	boolean	running	function
create	function	status	function
cstacksize	function	wrap	function
resume	function	yield	function

ctxrunner (context)

load function
prepfiles data table

resolve function

debug (basic lua)

debug	function	getupvalue	function
getfenv	function	setfenv	function
gethook	function	sethook	function
getinfo	function	setlocal	function
getlocal	function	setmetatable	function
getmetatable	function	setupvalue	function
getregistry	function	traceback	function

dir (context)

collectpattern	function	ls
current	function	make
expandname	function	mkdi
glob	function	рор
globfiles	function	push
globpattern	function	

directives (context)

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

document (context)

arguments files getargument getfilename options data table table function function table T ctxfile
D environments
D modes
D modules

setargument function
setdefaultargument function
setfilename function
variables data table

D environments

D modes
D modules

environment (context)

argument	function	
arguments	data	table
default_texmfcnf	string	
engineflags	data	table
filename	string	
files	table	
filesynonyms	data	table
getargument	function	
homedir	string	
initex	boolean	
initializearguments	function	
initializefilenames	function	
inputfilebarename	strir	ıg
inputfilename	string	
inputfilesuffix	string	
jobfilename	string	
jobfilesuffix	string	
loadluafile	function	

luafile	function	
luafilechunk	function	
originalarguments	data table	
outputfilename	string	
ownbin	string	
ownname	string	
ownpath	string	
rawarguments	data table	
reconstructcommandline	function	
setargument	function	
splitarguments	function	
suffix	string	
texfile	function	
texmfos	string	
texos	string	
texroot	string	
truefilename	function	

epdf (extra tex)

ArrayfunctionPDFRectanglefunctionDictfunctionopenfunctionObjectfunctiontypefunction

experiments (context)

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

figures (context)

applyratio	function
bitmapimage	function
boxnumber	number
cachepaths	data table
check	function
checkers	data table
converters	data table
current	function
defaultdepth	number
defaultheight	number
defaultsearch	boolean
defaultwidth	number
done	function
dummy	function
existers	data table
exists	function
formats	data table
found	data table
get	function
guess	function
hash	function
identifiers	data table
identify	function
include	function

includers	data	table
initialize	funct	tion
loaded	data	table
localpaths	data	table
magics	data	table
mergegoodies	funct	tion
nofprocessed	numbe	er
order	data	table
paths	data	table
patterns	data	table
pop	funct	tion
preferquality	boole	ean
programs	data	table
push	funct	tion
registerpattern	funct	tion
registerresource	funct	tion
registersuffix	funct	tion
resources	data	table
scale	funct	tion
setlookups	funct	tion
setorder	funct	tion
setpaths	funct	tion
suffixes	data	table
used	data	table

file (basic lua)

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

floats (context)

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

font (basic tex)

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

fontloader (extra tex)

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

fonts (context)

analyzers	table	F collectprocessors
T constants		D designsizes
N blwf		D dontembed
N fina		F enhanceparameters
N half		N factor
N init		F finalize
N isol		F getfeatureaction
N medi		F hashfeatures
N pref		F hashinstance
N pstf		T hashmethods
N rphf		F normal
D initializers		F virtual
D methods		F initializefeatures
F setstate		T keys
B useunicodemar	ks	T character
checkers	table	S depth
F missing		S height
cid	table	S italic
F getmap		S width
F loadfile		T description
collections	table	T boundingbox
F clonevector		S depth
F define		S height
T definitions		S width
F prepare		T parameters
F process		S ascender
F registermain		S descender
F report		S designsize
F reset		T expansion
T vectors		S auto
constructors	table	S shrink
F aftercopyingo		S step
F applymanipula		S stretch
F assignmathpar	ameters	S extendfactor
B autocleanup		S factor
F beforecopying	cnaracters	S hfactor
D cache		S mathsize
F calculatescal		T protrusion
F checkedfeatur		S auto
F checkedfilena	me	S quad
F cleanuptable		S scaledpoints

S scriptpercentage	S virtualize	d
S scriptscriptpercentage	D loadedfonts	
S size	S namemode	
S slantfactor	F newfeatures	
S slantperpoint	F newhandler	
T spacing	N privateoffset	
S extra	F readanddefine	
S shrink	F registerfeatu	re
S stretch	B resolvevirtua	ltoo
S width	F scale	
T synonyms	F scaled	
S em	F setfactor	
S ex	F setname	
S extra_space	N version	
S extraspace	current	function
S slant	currentid	function
S space	definers	table
S space_shrink	F addlookup	
S space_stretch	F analyze	
S spaceshrink	F applypostproc	essors
S spacestretch	F checkedmode	
S x_height	F checkedscript	
S units	F current	
S vfactor	S defaultlookup	
S xheight	F define	
T properties	F getspecificat:	ion
S autoitalicamount	F loadfont	
T cidinfo	F makespecifica	tion
S embedding	T methods	
S encodingbytes	F install	
S filename	D variants	
S finalized	F read	
S fontname	F register	
S format	F registered	
S fullname	F registersplit	
S hasitalics	F resetnullfont	
S hasmath	F resolve	
S mathitalics	T resolvers	
S mode	F file	
S name	F name	
S noglyphnames	F spec	
S nostackmath	definetypeface	function
S psname	encodings	table
S textitalics	T agl	

D cache D texligatures F is known F load D known F setfeatures F load B syncspace F make unicode vector N version T otf D math N version F addfeature data table expansions D cache formats data table T chainhandlers goodies table F normal F verbose D colorschemes F collectlookups D data D designsizes F dataset S defaultbasealternate D filenames S defaultnodealternate F getcompositions T list D enhancers F compositions D features F getalternate F designsizes F expansions T glists F featureset T handlers F filenames F contextchain F files F gpos_context F mathematics F gpos_contextchain F protrusions F gpos_cursive F solutions F gpos mark2base F typefaces F gpos mark2ligature F load F gpos_mark2mark F prepare features F gpos pair F register F gpos single F registerpostprocessor F gsub_alternate F report F gsub_context handlers table F gsub contextchain Tafm F gsub ligature B addkerns F gsub_multiple B addligatures F gsub_reversecontextchain B addtexligatures F gsub single B autoprefixed F load D cache F scriptandlanguage D features F setcontextchain T helpdata F setdynamics D bothkerned F setfeatures D leftkerned T statistics D usedfeatures D ligatures D rightkerned T tables

D baselines			F hasprivate	
D features			F nametoslot	
D languages			F nametostot F setdigitwidth	
D scripts			F splitfontpa	
N version			iterators	table
T pfb			F characters	cabic
T tfm			F description	ns
D features			F glyphs	
F setfeatures			loggers	table
T vf				o_placeholder
T combinations			s II	
F combine			S lm	
T combiner			S lo	
D commands			S lt	
F find			S lu	
D helpers			S mc	
D math			S me	
D predefined			S mn	
D whatever			S nd	
hashes	table		S nl	
D characters			S no	
D csnames			S pc	
D descriptions			S pd	
T dynamics			S pe	
D emwidths			S pf	
D exheights			S pi	
D identifiers			S po	
D italics			S ps	
D lastmathids			S sc	
D marks			S sk	
D parameters			S sm	
T processes			S so	
D properties			F format	
D quads			F onetimemes:	sage
D resources			F register	
T setdynamics			F reportdefin	
D xheights	+ahla		F reportused	table
helpers	table		mappings	
F addprivate F dimenfactor			F addtounicod	
F fontpatternhas	cizo		F Tromunicodo F loadfile	=10
F fontpatternnas F getdigitwidth	22176		F loadline	
			F loadlumtab	م ا
F getparameters			r todu tumtab	re

F makenameparser

F getprivatenode

F reset		specifiers	table
F tounicode16		D contextmerged	
F tounicode16seq	uence	F contextnumber	
names	data table	D contextnumbers	i
protrusions	data table	D contextsetups	
readers	table	F contexttostrin	ng
Fafm		F mergecontext	
F check_lua		F presetcontext	
F check_tfm		F registercontex	rt
F dfont		F showcontext	
F lua		F splitcontext	
F opentype		D synonyms	
F otf		D variants	
F pfb		symbols	table
D sequence		F uselibrary	
F tfm		tables	table
F ttc		tracers	table
F ttf		typefaces	data table

functions (context)

dummy function

graphics (context)

backgrounds table

F calculatemultipar

F fetchmultipar

F pair

F path

F point

gzip (extra lua)

close function
lines function

open function

img (basic tex)

boxes	function	ofindex	function
check	function	package	function
checksize	function	print	function
clone	function	scan	function
сору	function	serialize	function
immediatewrite	function	totable	function
keys	function	types	function
new	function	write	function
node	function		

interactions (context)

D functions

D preambles

attachments table F setpreamble F insert F storecode F register F storepreamble fields table F usepreamblenow F clone F usescripts linkedlists table F define F defineset pages table F insert F setpagetransition general table F setupcanvas F getidentity references table F setupidentity F setclosedocument help table F setclosepage F collect F setopendocument F reference F setopenpage renderings table F register javascripts table F register F addtopreamble F rendering F code F var soundclips D codes table F flushpreambles F insert

F register

interfaces (context)

addvalidkeys	function	
cachedsetups	data table	
cachesetup	function	
complete	data table	
constants	data table	
corenamespaces	data table	
definecommand	function	
doifelsemessage	function	
elements	data table	
formats	data table	
getcheckedparameters	function	
getmessage	function	
hashedsetups	data table	
interfacedcommand	function	
interfaces	table	
invalidkey	function	
is_command	function	
namespaces	table	

F define		
F list		
registernamespace	function	
setconstant	function	
setelement	function	
setformat	function	
setmessage	function	
setmessages	function	
settranslation	function	
setuserinterface	function	
setvalidkeys	function	
setvariable	function	
showmessage	function	
syntax	data table	
tolist	function	
translations	data table	
variables	data table	

io (basic lua)

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

job (context)

comment	function	F getdata	
datasets	table	F getfield	
D collected		F gettobesaved	
F extend		F inlist	
F getdata		F last	
F setdata		F list	
D tobesaved		F save	
disablesave	function	F savetagged	
files	table	D tobesaved	
D collected		positions table	
F context		F b_col	
B forcerun		F b_region	
F run		Fc	
D tobesaved		D collected	
initialize	function	F column	
load	function	F copy	
loadother	function	F depth	
objects	table	F e_col	
D collected		F e_region	
F get		F enhance	
F number		F extra	
F page		F get	
F save		F getreserved	
F set		F hangafter	
D tobesaved		F hangindent	
pack	boolean	F height	
pagestates	table	F hsize	
D collected		F leftskip	
F extend		F lowerleft	
F realpage		F lowerright	
F setstate		F markregionbox	
D tobesaved		Fn	
passes	table	F onsamepage	
F check		F overlapping	
D collected		F p	
F count		F page	
F define		F paragraph	
F find		F parindent	
F first		F position	
F get		Fr	
F getcollect	ed	F region	

F replace		structure	table
F rightskip		D collected	
F set		T components	
F setall		T tobesaved	
F setdim		T branches	
D tobesaved		S name	
F upperleft		S type	
F upperright	:	variables	table
F width		D checksums	
Fx		D collected	
F xy		F save	
Fy		D tobesaved	
register	function	version	string

function

save

lang (basic tex)

clean	function
clear_hyphenation	function
clear_patterns	function
exceptions	function
hyphenate	function
hyphenation	function
id	function

new	function
patterns	function
postexhyphenchar	function
posthyphenchar	function
preexhyphenchar	function
prehyphenchar	function

languages (context)

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

F define F split

lefthyphenmin function loadable function loadwords function logger table

F report

data table numbers

posthyphenchar function prehyphenchar registered righthyphenmin function setexceptions setsynonym unload version words

function data table function function function number table

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

layouts (context)

status table
 F isleftpage

 ${\sf F}$ leftorrightpagection

lfs (extra lua)

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

libraries (context)

basiclua data table
basictex data table
builtin data table

extralua data table
extratex data table
globals data table

lmx (context)

color	function
convert	function
convertfile	function
convertstring	function
escape	function
finalized	function
finject	function
fprint	function
get	function
getvariables	function
htmfile	function
html	table
F -	

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

function new overloaderror function popupfile function print function pν function function report reset function function result function set function show showdebuginfo function showerror function stripcss function function tν 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)

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

lpdf (context)

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

lpeg (basic lua)

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

ltn12 (extra lua)

BLOCKSIZE filter	number table
ITCLE	table
F chain	
F cycle	
pump	table
F all	
F step	
sink	table
F chain	
F error	
F file	

F null

```
F table

Source table

F cat
F chain
F empty
F error
F file
F rewind
F simplify
F string
```

F simplify

lua (basic tex)

bytecode	table	mess
bytedata	data table	name
bytedone	table	numb
collectgarbage	function	regi
delay	function	regi
finalize	function	regi
firstbytecode	number	regi
flush	function	setb
flushdelayed	function	setl
getbytecode	function	star
getluaname	function	vers
lastbytecode	number	

luatex (context)

cleanuptempfiles function
registerstartactions function
registerstopactions
registertempfile function

showjobstat showtexstat starttime function function number

lxml (context)

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

F flush		stripped	function
F reset		tag	function
F show		text	function
F sort		tofile	function
splitid	function	toparameters	function
startraw	function	toverbatim	function
stopraw	function	verbatim	function
store	function	withindex	function
strip	function	xmltexhandler	data table

math (basic lua)

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

mathematics (context)

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

md5 (extra lua)

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

metapost (context)

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

mime (extra lua)

b64	function	qp	function
decode	function	qpwrp	function
decodet	table	stuff	function
F base64		unb64	function
F quoted	-printable	unqp	function
dot	function	wrap	function
encode	function	wrapt	table
encodet	table	F base6	4
F base64		F defau	lt
F quoted	-printable	F quote	d-printable
eol	function	F text	
normalize	function	wrp	function

mplib (extra tex)

fields function
finders table

F file

new function

pen_info function
preprocessed function
version function

noads (context)

handlers	table
F check	
F collapse	
F families	
F italics	
F relocate	
F render	
F resize	
F respace	
F tags	
F unscript	

F variants

process function

processors table

T collapse

F mlist_to_hlist

T relocate

T render

T resize

T respace

T unscript

node (basic tex)

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

nodes (context)

after function F protectglyphs aligned function F stripping astable function F unprotectglyphs before function has_attribute function builders table idstostring function F buildpage_filter ignorablefields data table F vpack_filter injections table codes data table F handler concat function F installnewkern count function F setcursive delete function F setwern destinations table F setmark N attribute F setpair T done installattributehandler function F handler T stack data table is_mirrored data table dimensionfields data table is_rotated data table dir_is_pop data table kerncodes data table
astable function Funprotectglyphs before function has_attribute function builders table idstostring function F buildpage_filter F vpack_filter injections table codes data table F handler concat function F installnewkern count function F setcursive delete function F setkern destinations table F setmark N attribute F setpair T done installattributehandler function F handler F handler T stack is_mirrored data table dimensionfields data table is_rotated
beforefunctionhas_attributefunctionbuilderstableidstostringfunctionF buildpage_filterignorablefieldsdata tableF vpack_filterinjectionstablecodesdata tableF handlerconcatfunctionF installnewkerncountfunctionF setcursivedeletefunctionF setkerndestinationstableF setmarkN attributeF setpairfunctionT doneinstallattributehandlerfunctionF handleris_display_mathfunctionT stackis_mirroreddata tabledimensionfieldsdata tableis_rotated
builders table idstostring function F buildpage_filter F vpack_filter codes data table f handler count f unction f unction F setcursive delete f unction F setkern destinations N attribute T done F handler T stack data table idstostring function F handler is_display_math function f unction is_mirrored data table data table data table function is_rotated
F buildpage_filter F vpack_filter codes data table F handler concat function F installnewkern count function F setcursive delete function F setkern destinations N attribute T done F handler T stack data table is_rotated ignorablefields data table ignorablefields data table ignorablefields data table ignorablefields data table ignorablefields data table ignorablefields data table data table data table data table
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codes concat function functio
concat function F installnewkern count function F setcursive delete function F setkern destinations table F setmark N attribute F setpair T done installattributehandler function F handler is_display_math function T stack is_mirrored data table dimensionfields data table is_rotated
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T done installattributehandler function F handler is_display_math function T stack is_mirrored data table dimensionfields data table is_rotated data table
F handler is_display_math function T stack is_mirrored data table dimensionfields data table is_rotated data table
T stack is_mirrored data table dimensionfields data table is_rotated data table
dimensionfields data table is_rotated data table
dir negation data table leftmarginwidth function
fasthpack function lines table
fields function T boxed
fillcodes data table F register
firstcharacter function F setup
firstcharinbox function F stage_one
firstglyph function F stage_two
getattribute function F stage_zero
gluecodes data table D data
glyphcodes data table F finalize
<pre>glyphdir_is_equal</pre>
<pre>glyphdir_is_opposite data table N scratchbox</pre>
<pre>glyphdir_is_orthogonal data table link function</pre>
<pre>handlers table list function</pre>
F accessibility listablefields data table
F backgrounds listcodes data table
F characters listtoutf function
F checkforleaks load function
F checkglyphs locate function
F cleanuppage mathcodes data table
F export noadcodes data table
F finalize nodecodes data table
F migrate packlist function

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

F usernumber

showsimplelist function

skipcodes	data table	F start	
snapshots	table	F string	
F getparameters		F unicodes	
F getsamples		T colors	
F resetsamples		F reset	
F takesample		F set	
somepenalty	function	F setlist	
somespace	function	F fontchar	
stripping	table	T frequencies	
T glyphs		F register	
F set		F start	
striprange	function	T steppers	
tasks	table	F check	
F actions		F codes	
F appendaction		F features	
F disableaction		F glyphs	
F disablegroup		F message	
F enableaction		F messages	
F enablegroup		F nofsteps	
F freeze		F register	
F freezegroup		F reset	
F new		F start	
F prependaction		F stop	
F removeaction		F stop	
F restart		T transparencies	
F showactions		F reset	
F table		F set	
textdir_is_equal	data table	F setlist	
textdir_is_is	data table	unsetattribute	function
textdir_is_opposite	data table	unsetattributes	function
textdir_is_parallel	data table	visualizebox	function
tonodes	function	visualizers	table
tosequence	function	F box	
totable	function	F handler	
toutf	function	F setfont	
tracers	table	F setlayer	
T characters		F setvisual	
F collect		whatcodes	data table
F equal		whatsitcodes	data table
F indices		writable_spec	function

number (context)

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

os (basic lua)

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

package (basic lua)

clibpaths	function	loaded	table
config	string	loaders	table
cpath	string	loadlib	function
extraclibpath	function	path	string
extralibpath	function	preload	table
libpaths	function	seeall	function

pagebuilders (context)

mixedcolumns table

F cleanup

F finalize

F getlist

F getrest

F getsplit

F setsplit

pdf (basic tex)

immediateobj	function
mapfile	function
mapline	function
maxobjnum	function
obj	function
objtype	function
pageattributes	string
pageref	function

pageresources	string
pagesattributes	string
pdfmapfile	function
pdfmapline	function
print	function
refobj	function
registerannot	function
reserveobi	function

physics (context)

units table

D tables

profiler (extra lua)

regimes (context)

cleanup	function	process	function
disable	function	push	function
enable	function	toregime	function
pop	function	translate	function

resolvers (context)

find_files

findbinfile

findctxfile

finders

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

function

function

function

data table

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

B renewtree

B savelists

D specification

D setups

jobs table registermethod function F currentcomponent registerzipfile function F currentproduct renew function F currentproduct repath function F currentproduct reset function F pustacomponent reset function F productcomponent resetextrapath function F usefile resetextrapath function Joadia function scanfiles function Joadia function F mose function function Loadtrafile function F strip function function <t< th=""><th>D variables</th><th></th><th>registerintrees</th><th>function</th></t<>	D variables		registerintrees	function
F currentproduct	jobs	table	registermethod	function
F currentproject F currentproject F currentproject F currentproject F justacomponent F justacomponent F justacomponent F productcomponent F productoom G f unction G savers G data table I oadta G function G scandata G function I cleaners G function I cleaners G function F mode G cleaners G function F mode G cleaners G data table G f cleaners G cleaners G function F strip G f fetchable G luacnfname G string F f fetchable G luacnfname G string F f fetchable G luacnfname G string F f motall G macros G table G setenv G function F convertfile F decodecomment F decodecomment F encodecomment F encodecomment F processenk	F currentcomponent		registerzipfile	function
F currentproject F justacomponent D processors D processors F productcomponent F usefile F unction F unction F unction I uncti	F currentenvironment			data table
F justacomponent D processors F productcomponent F pusefile F punction I punction F pusefile F decodecomment F pusefile F punction F punc	F currentproduct		renew	function
p processors	F currentproject		repath	function
F productcomponent F usefile F usefile F usefile F usefile F usefile F unction joinpath f unction savers data table load function scandata function loadbinfile function scanfiles function scanfiles function loaders data table schemes table loaddualib function F usefile function F usefile loadtwafile function F usefile function function F usefile function functio	F justacomponent		reset	function
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joinpath function savers data table load function scandata function loadbinfile function scanfiles function scanfiles function scanfiles function table loaders data table schemes table loadcualib function T cleaners loadcualib function F mose locateformat function F mose locateformat function F strip locators data table F cleanname luacnfname string F fetchstring luacnfspec string F fetchstring luacnfstate string F install luacnfstate string F install setting F enablecomment function setting F enablecomment function setting function from ferencessed function from simplescanfiles function from simplescanfiles function from splitconfigurations function from splitconfigurations function from splitconfigurations function from suffixes data table methodhandler function suffixmap data table methodhandler function suffixmap data table newinstance function uncepandedpath function openers data table toppath function openers data table updaterelations function unexpandedpathlist function ownpath string unresolve function function registerextrapath function updaterelations function registerextrapath function updaterescript function registerfile function updatescript function function registerfile function updatedpath function function functi	F productcomponent		resetresolve	function
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luacnfspecstringF fetchtableluacnfstatestringF installmacrostablesetenvfunctionF convertfilesetinstancefunctionF decodecommentsettracefunctionF enablecommentshowpathfunctionF pencodecommentsimplescanfilesfunctionF preprocessedsplitconfigurationpathfunctionF processmksplitexpansionsfunctionF processmkvisplitmethodfunctionF versionsuffixesdata tablemethodhandlerfunctionsuffixmapdata tablenewinstancefunctionsuffixofformatfunctionopenbinfilefunctiontexdatablobfunctionopenersdata tabletoppathfunctionopenfilefunctionunexpandedpathfunctionopenfilefunctionunexpandedpathlistfunctionownpathstringunresolvefunctionprefixesdata tableupdaterelationsfunctionprependhashfunctionupdatescriptfunctionregisterextrapathfunctionusezipfilefunctionregisterextrapathfunctionvalidatedpathfunction	locators	data table	F cleanname	
luacnfstatestringF installmacrostablesetenvfunctionF convertfilesetinstancefunctionF decodecommentsettracefunctionF enablecommentshowpathfunctionF encodecommentsimplescanfilesfunctionF preprocessedsplitconfigurationpathfunctionF processmksplitexpansionsfunctionF processmkvisplitpathfunctionF versionnumbersuffixesdata tablemethodhandlerfunctionsuffixmapdata tablenewinstancefunctionsuffixofformatfunctionopenbinfilefunctiontexdatablobfunctionopenersdata tabletoppathfunctionopenfelefunctionunexpandedpathfunctionopentexfilefunctionunexpandedpathlistfunctionownpathstringunresolvefunctionprefixesdata tableupdaterelationsfunctionprependhashfunctionupdatescriptfunctionregisterextrapathfunctionusezipfilefunctionregisteretfilefunctionvalidatedpathfunction	luacnfname	string	F fetchstring	
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F enablecomment F encodecomment F encodecomment F preprocessed F preprocessed F processmk F processmk F processmkvi F version F version maxreadlevel methodhandler newinstance openbinfile function openers data table function texdatablob openers data table toppath function openers openers data table upeners ownpath function o	F convertfile		setinstance	function
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F preprocessed F processmk F processmkvi F version F version maxreadlevel methodhandler newinstance openbinfile openers opene	F enablecomment		showpath	function
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maxreadlevelnumbersuffixesdata tablemethodhandlerfunctionsuffixmapdata tablenewinstancefunctionsuffixofformatfunctionopenbinfilefunctiontexdatablobfunctionopenersdata tabletoppathfunctionopenfilefunctionunexpandedpathfunctionopentexfilefunctionunexpandedpathlistfunctionownpathstringunresolvefunctionprefixesdata tableupdaterelationsfunctionprependhashfunctionupdatescriptfunctionregisterextrapathfunctionusezipfilefunctionregisterfilefunctionvalidatedpathfunction	F processmkvi		splitmethod	function
methodhandlerfunctionsuffixmapdata tablenewinstancefunctionsuffixofformatfunctionopenbinfilefunctiontexdatablobfunctionopenersdata tabletoppathfunctionopenfilefunctionunexpandedpathfunctionopentexfilefunctionunexpandedpathlistfunctionownpathstringunresolvefunctionprefixesdata tableupdaterelationsfunctionprependhashfunctionupdatescriptfunctionregisterextrapathfunctionusezipfilefunctionregisterfilefunctionvalidatedpathfunction	F version		splitpath	function
newinstancefunctionsuffixofformatfunctionopenbinfilefunctiontexdatablobfunctionopenersdata tabletoppathfunctionopenfilefunctionunexpandedpathfunctionopentexfilefunctionunexpandedpathlistfunctionownpathstringunresolvefunctionprefixesdata tableupdaterelationsfunctionprependhashfunctionupdatescriptfunctionregisterextrapathfunctionusezipfilefunctionregisterfilefunctionvalidatedpathfunction	maxreadlevel	number	suffixes	data table
openbinfilefunctiontexdatablobfunctionopenersdata tabletoppathfunctionopenfilefunctionunexpandedpathfunctionopentexfilefunctionunexpandedpathlistfunctionownpathstringunresolvefunctionprefixesdata tableupdaterelationsfunctionprependhashfunctionupdatescriptfunctionregisterextrapathfunctionusezipfilefunctionregisterfilefunctionvalidatedpathfunction	methodhandler	function	suffixmap	data table
openersdata tabletoppathfunctionopenfilefunctionunexpandedpathfunctionopentexfilefunctionunexpandedpathlistfunctionownpathstringunresolvefunctionprefixesdata tableupdaterelationsfunctionprependhashfunctionupdatescriptfunctionregisterextrapathfunctionusezipfilefunctionregisterfilefunctionvalidatedpathfunction	newinstance	function	suffixofformat	function
openfilefunctionunexpandedpathfunctionopentexfilefunctionunexpandedpathlistfunctionownpathstringunresolvefunctionprefixesdata tableupdaterelationsfunctionprependhashfunctionupdatescriptfunctionregisterextrapathfunctionusezipfilefunctionregisterfilefunctionvalidatedpathfunction	openbinfile	function	texdatablob	function
opentexfilefunctionunexpandedpathlistfunctionownpathstringunresolvefunctionprefixesdata tableupdaterelationsfunctionprependhashfunctionupdatescriptfunctionregisterextrapathfunctionusezipfilefunctionregisterfilefunctionvalidatedpathfunction	openers	data table	toppath	function
ownpathstringunresolvefunctionprefixesdata tableupdaterelationsfunctionprependhashfunctionupdatescriptfunctionregisterextrapathfunctionusezipfilefunctionregisterfilefunctionvalidatedpathfunction	openfile	function	unexpandedpath	function
prefixesdata tableupdaterelationsfunctionprependhashfunctionupdatescriptfunctionregisterextrapathfunctionusezipfilefunctionregisterfilefunctionvalidatedpathfunction	opentexfile	function	unexpandedpathlist	function
prependhash function updatescript function registerextrapath function usezipfile function registerfile function validatedpath function	ownpath	string	unresolve	function
registerextrapathfunctionusezipfilefunctionregisterfilefunctionvalidatedpathfunction	prefixes	data table	updaterelations	function
registerfile function validatedpath function	prependhash	function	updatescript	function
· ·	registerextrapath	function	usezipfile	function
registerfilehash function variable function	registerfile	function	validatedpath	function
	registerfilehash	function	variable	function

variableofformat variableofformatorsuffix

function function wildcardpattern

function

scripts (context)

categorytonumber data table colors data table defaults table

N inter_char_half_shrink_factor

N inter_char_half_stretch_factor

N inter char hangul penalty

N inter_char_quarter_shrink_factor

N inter_char_quarter_stretch_factor

N inter_char_shrink_factor N inter_char_stretch_factor handlers data table hash table installdataset function installmethod function numbertocategory data table numbertodataset data table preprocess function function reset function

set

set (context)

contains function
create function
tolist function

tonumber function
totable function

socket (extra lua)

F http-chunked

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

sorters (context)

comparers table

F basic

constants table

S defaultdigits

S defaultlanguage

S defaultmethod

N digitsmaximum

N digitsoffset $\ensuremath{\mathsf{N}}$

 ${\sf N}$ ignoredoffset

N replacementoffset

definitions data table
firstofsplit function
setlanguage function
sort function

table

splitters F utf

strip function
tracers data table
update function

statistics (context)

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

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

status (basic tex)

list function

storage (context)

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

nofmodules number
noftables number
register function
shared data table
strip boolean
tofmodules 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)

booleanstring	function
byte	function
bytepairs	function
bytes	function
char	function
characterpairs	function
characters	function
checkedsplit	function
collapsespaces	function
count	function
dump	function
escapedpattern	function
explode	function
find	function
format	function
gfind	function
gmatch	function
gsub	function
is_boolean	function
is_empty	function
itself	function
len	function
limit	function
lower	function
match	function
quote	function

quoted	function
rep	function
reverse	function
split	function
splitlines	function
splitup	function
strip	function
sub	function
tformat	function
toboolean	function
tocontext	function
todimen	function
topattern	function
totable	function
toutf	function
unquote	function
unquoted	function
upper	function
utfcharacters	function
utflength	function
utfsplit	function
utfsplitlines	function
utfvalues	function
valid	function
validutf	function

structures (context)

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

F setup		F define	
D stored		F exists	
itemgroups	table	F fetch	
F maxwidth		F fetchallmarks	
F nofitems		F fetched	
F register		F fetchonemark	
lists	table	F fetchtwomarks	
F addto		F get	
F analyze		F number	
D cached		F relate	
D collected		F reset	
F discard		F set	
F enhance		F show	
T enhancers		F synchronize	
F filter		F title	
F filtercollected		T tracers	
F formulanumber		F showtable	
F hasnumberdata		notes tabl	le
F haspagedata		F checkpagechange	
F hastitledata		F define	
D internals		F doifonsamepageasprevious	
F iscached		F get	
F label		F getdeltapage	
F location		F getn	
F number		F getnumberpage	
D ordered		F getstate	
F page		F getsymbolpage	
F popnesting		F hascontent	
F prefix		F internal	
F prefixednumber		F internalid	
F prefixedpage		F listindex	
F process		F ordered	
D pushed		F postpone	
F pushnesting		F resetpostponed	
F realpage		F restore	
T result		F save	
F sectionnumber		F setstate	
F size		F setsymbolpage	
F title		D states	
D tobesaved		E stars	
		F store	
F userdata		pages tab	le
			le
F userdata	table	pages tab ¹	le

F save D pages D tobesaved U prefixsplitter references table D productdata F analyze T programs F checkedfile T data F checkedfileorurl F define F checkedprogram F aet F checkedrealpage F realpageofpage F checkedurl U referencesplitter D collected D referred U componentsplitter F referredpage F currentmetadata F registerfinalizer F currentorder F registerinitializer D currentset F registerpage F define F reportproblems D defined F reset D derived T resolvers F enableinteraction F reference F section F enhance D executers D runners F expandcurrent F set F setandgetattribute F export T files F setcomponent T data F setinnermethod F define F setinternalreference F setnextinternal F get F filter F setnextorder F filterdefault D specials D filters F splitcomponent F from F splitprefix F get F splitreference F getcurrentmetadata T testrunners Finner F getcurrentprefixspec F special F getinnermethod F getinternalreference F special operation D handlers F special operation with arguments F identify T testspecials F import F deltapage F inject Γi F injectcurrentset F internal D internals F page F load F realpage F loadpresets F section

F mark

F number

F			11	
F userpage			levelmap	
D tobereferred			levels	
D tobesaved			load	
Turls			matchingtilldepth	
T data			numberatdepth .	
F define			numbers	
F get			popblock	
F valid			prefixedconverted	
F whatfrom	table		pushblock 	
registers	table		register	
F analyze			registered	
F analyzed			reportstructure	
D collected			save	
F compare			set setblock	
F define				
F enhance			setchecker setlevel	
F extend F filter			setnumber	
F filtercollected			somelevel	
F finalize			structuredata	
F flush			title	
F prepare			tobesaved	
F process			typesetnumber	
F sort			userdata	
F store			verbose	
D tobesaved		sets		table
F unique			define	cabcc
F userdata			get	
sections	table		getall	
F autodepth	cubic		setlist	
F cct		spec		table
D collected			collected	cabcc
F current			retrieve	
F currentblock			store	
F currentid			tobesaved	
F currentlevel		syno		table
F depthnumber		_	analyzed	
F finddata			collected	
F findnumber			compare	
F fullnumber			define	
F getcurrentlevel			filter	
F getlevel		F	finalize	
F getnumber		F	flush	
F internalreference		F	meaning	

F registermetadata F prepare F process F restart F register F setattributehash F registerused F setcombination F sort F setdescription F synonym F setdescriptionsymbol D tobesaved F setfigure table tags F sethighlight T data F setitemgroup F detailedtag F setproperty F getid F setsorting F handler F setsynonym F settablecell D labels F last F settabulatecell F start F lastinchain T metadata F stop

T metadata F stop
D properties D taglist
F registerdata T userdata

table (basic lua)

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

tex (basic tex)

	4-1-1-	A salata a	£
attribute	table	istoken	function
badness	function	lccode	table
box	table	linebreak	function
catcode	table	lists	table
conditionals	data table	luacatcodes	number
constants	data table	mathcode	table
count	table	modes	data table
ctxcatcodes	number	nest	table
definefont	function	nilcatcodes	number
delcode	table	notcatcodes	number
dimen	table	number	function
directives	data table	pdffontname	function
enableprimitives	function	pdffontobjnum	function
error	function	pdffontsize	function
extraprimitives	function	pdfpageref	function
finish	function	pdfxformname	function
fontidentifier	function	primitives	function
fontname	function	print	function
fprint	function	printlist	function
get	function	prtcatcodes	number
getattribute	function	romannumeral	function
getbox	function	round	function
getcatcode	function	run	function
getcount	function	scale	function
getdelcode	function	set	function
getdimen	function	setattribute	function
getlccode	function	setbox	function
getlist	function	setcatcode	function
getmath	function	setcount	function
getmathcode	function	setdelcode	function
getnest	function	setdimen	function
getsfcode	function	setfalse	function
getskip	function	setlccode	function
gettoks	function	setlist	function
getuccode	function	setmath	function
hashtokens	function	setmathcode	function
ifs	data table	setnest	function
inicatcodes	number	setsfcode	function
iscount	function	setskip	function
isdimen	function	settoks	function
isskip	function	settrue	function

setuccode function sfcode table shipout function skip table sp function sprint function systemmodes data table texcatcodes number toks table tpacatcodes number

tpbcatcodes number tprint function trackers data table txtcatcodes number function type uccode table uniformdeviate function uprint function vrbcatcodes number write function

texconfig (basic tex)

error_line	number
expand_depth	number
formatname	string
half_error_line	number
hash_extra	number
init	function
kpse_init	boolean
max in open	number

max_print_line	number
max_strings	number
nest_size	number
param_size	number
save_size	number
shell_escape	string
stack_size	number

texio (basic tex)

write function

write_nl function

token (basic tex)

command_id	function
command_name	function
create	function
csname_id	function
csname_name	function
expand	function

get_next	function
<pre>is_activechar</pre>	function
<pre>is_expandable</pre>	function
<pre>is_protected</pre>	function
lookup	function

tokens (context)

bgroup table
collectors table

T data

F defaultwords

F dowithwords

F flush

F handle

F install

F register

T registered

T remapper

F convert

T data

F store

F show

T show_methods

Fa

F b

Fc

F showtoken

F test

F trace

egroup table

hbox table

letter function
letters function

letters function
other function

other funct:
vbox table

vtop table

tracers (context)

count function
cs function
dimen function
knownlist function
lists table

T context
T internals
T scratch

name function
primitive function
printerror function
showlines function
strings table

S undefined

toks function
type function

trackers (context)

data	data table	name	string
disable	function	register	function
dumphashtofile	function	report	$ \hbox{function} $
enable	function	savehash	$ \hbox{function} $
list	function	show	$ \hbox{function} $

typesetters (context)

-1:	+ahla		
alignments	table	F set kerns	table
F handler			table
F set breakpoints	table	D factors F handler	
N attribute	table		
F define		B keepligat	
F derine F handler		B keeptoget	ner
		D mapping F set	
D mapping T methods		margins	table
T numbers		F finalhand	
F set		F globalhar	
F setreplace	ment	F ha	iutei
cases	table	F localhand	ller
T actions	Cabic	F save	ittei
F handler		paragraphs	table
F register		N attribute	
F set		T droppers	
characters	table	F freeze	
F handler		F set	
checkers	table	F handler	
F handler		F set	
F reset		processors	table
F set		• F apply	
cleaners	table	F register	
F handler		F reset	
F set		F split	
digits	table	F startappl	.y
T actions		F stopapply	,
N attribute		F stripped	
F handler		F tostring	
F set		spacings	table
directions	table	N attribute	:
F handler		F define	
F process		F handler	
F set		D mapping	
fast_hpack	function	T numbers	
hpack	function	T frenchp	unctuation
italics	table	T chara	cters
F forcevaria	nt	S name	
F handler		N numbe	r
F reset		F reset	

F set F setup

tonodes function
vpack function
xtables table

F cleanup
F construct
F create
F flush

F initialize_construct
F initialize_reflow_height
F initialize_reflow_width

F next_row
F reflow_height
F reflow_width
F set_construct
F set_reflow_height
F set_reflow_width

unicode (extra lua)

ascii	table	F gsub	
F byte		F len	
F char		F lower	
F dump		F match	
F find		F rep	
F format		F reverse	
F gfind		F sub	
F gmatch		F upper	
F gsub		ustring	function
F len		utf16_to_utf8	function
F lower		utf16_to_utf8_be	function
F match		utf16_to_utf8_le	function
F rep		utf32_to_utf8	function
F reverse		utf32_to_utf8_be	function
F sub		utf32_to_utf8_le	function
F upper		utf8	table
filetype	function	F byte	
grapheme	table	F char	
F byte		F dump	
F char		F find	
F dump		F format	
F find		F gfind	
F format		F gmatch	
F gfind		F gsub	
F gmatch		F len	
F gsub		F length	
F len		F lower	
F lower		F match	
F match		F remapper	
F rep		F rep	
F reverse		F reverse	
F sub		F split	
F upper		F splitines	
latin1	table	F string	
F byte		F sub	
F char		F toentities	
F dump		F totable	
F find		F upper	
F format		F valid	
F gfind		utf8_to_utf16	function
F gmatch		utf8_to_utf8	function

utfcodes	function	utftype	function
utfname	table	xstring	function

url (context)

addscheme	function	hashed	function
barepath	function	hasscheme	function
construct	function	query	function
escape	function	split	function
filename	function	toquery	function

utilities (context)

debugger	table		U keq_to_hash_c	
F disable			U settings_to_arra	ау
F enable			U settings_to_has	n_a
F savestats			U settings_to_has	n_b
F showstats			U settings_to_has	n_c
formatters	table	F	rfc4180splitter	
F formatcolumns		F	settings_to_array	
F list		F	settings_to_hash	
F stripzeros		F	settings_to_hash_	strict
garbagecollector	table	F	settings_to_hash_	tolerant
F check		F	settings_to_set	
N criterium		F	simple_hash_to_st	ring
B enabled		F	splitthousands	
lua	table	repo	ort	function
B alwaysstripcode		sequ	iencers	table
F compile		F	appendaction	
F loadedluacode		F	appendgroup	
N nofstrippedbytes		F	compile	
N nofstrippedchunks	5	F	disableaction	
B stripcode		F	disablegroup	
T strippedchunks		F	enableaction	
F strippedloadstrin		F	enablegroup	
packers	table		functions	
F hashed		F	localize	
F new			new	
F pack			nodeprocessor	
F simplehashed			prependaction	
F strip			prependgroup	
F unpack			removeaction	
N version	4-k1-		setkind	
parsers	table		tostring	+abla
F add_settings_to_a		sett		table
F arguments_to_tabl	.e		disable	
F array_to_string			enable	
F csvsplitter			initialize list	
F getparameters			new	
F hash_to_string			register	
F keq_to_hash F listitem			register	
	hach nattern		show	
<pre>F make_settings_to_ T patterns</pre>	_nasn_paccern	stac		table
i partellis		3 cal	.nci	CODIC

F new F tabtospace table tables table storage F accesstable F allocate F checked F definetable F mark F encapsulate F marked F insertaftervalue F setinitializer F insertbeforevalue F sparse F migratetable strings table F removevalue F collapsecrlf templates table F load F newrepeater F nice F replace

F resolve

F striplong

visualizers (context)

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

xml (context)

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

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

Т

newhandlers	function	root	function
nodesettostring	function	save	function
originalload	function	selection	function
package	function	separate	function
parent	function	serialize	function
parsedentitylpeg	userdata	setcdata	function
pihandlers	table	sethandlersfunction	function
placeholders	table	setproperty	function
F unknown_any_entity		settings	function
F unknown_dec_entity		specialhandler	table
F unknown_hex_entity		sprint	function
position	function	string	function
privatecodes	table	strip	function
privatetoken	function	strip_whitespace	function
process	function	stripelement	function
<pre>process_attributes</pre>	function	stripleadingspaces	function
<pre>process_elements</pre>	function	table	function
processattributes	function	text	function
profiled	table	textonly	function
raw	function	texttocdata	function
registerentity	function	tocdata	function
registerns	function	toelement	function
remap_name	function	tostring	function
remap_namespace	function	toxml	function
remap_tag	function	tprint	function
remapname	function	traverse	function
remapnamespace	function	unescaped	function
remaptag	function	unprivatized	function
renamespace	function	withelement	function
replace	function	withelements	function
replace_element	function	wrap	function
resolvens	function	xmlns	table

zip (extra lua)

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

zlib (extra lua)

adler32 function
compress function
compressobj function
crc32 function

decompress function
decompressobj function
version function