

MP attributes backends bit **bit32** blobs  
boolean buffers builders caches **callback**  
callbacks catcodes characters chemistry  
commands containers context converters  
**coroutine** ctxrunner **debug** dir directives  
document documentdata environment **epdf**  
experiments figures **file** floats **font**  
**fontloader** fonts functions global graphics  
**gzip** **img** interactions interfaces **io** jit job  
**lang** languages layouts **lfs** libraries lmx  
logs lpdf **lpeg** **ltn12** **lua** luatex lxml **math**  
mathematics mbox **md5** metapost **mime**  
moduledata modules mp **mplib** noads **node**  
nodes number objects **os** **package**  
pagebuilders parametersets **pdf** pdfscanner  
physics **profiler** publications regimes  
resolvers sandbox scripts set **socket**  
sorters statistics **status** storage streams  
**string** structures **table** **tex** texconditionals  
**texconfig** texconstants texifs **texio**  
texisdefined texmodes texsystemmodes  
thirddata tokens tracers trackers  
typesetters **unicode** url userdata utilities  
vf visualizers xml **zip** **zlib**

# ConTEXt MkIV

# global (alias: \_G)

<b>LUATEXVERSION</b>	number	<b>file</b>	table
<b>MP</b>	table	<b>floats</b>	table
<b>_LUAVERSION</b>	number	<b>font</b>	table
<b>_MAJORVERSION</b>	number	<b>fontloader</b>	table
<b>_MINORVERSION</b>	number	<b>fonts</b>	table
<b>arg</b>	table	<b>frozen</b>	boolean
<b>assert</b>	function	<b>functions</b>	table
<b>attributes</b>	table	<b>gcinfo</b>	function
<b>backends</b>	table	<b>getfenv</b>	function
<b>bit</b>	table	<b>getmetatable</b>	function
<b>bit32</b>	table	<b>getpos</b>	function
<b>blobs</b>	table	<b>getvpos</b>	function
<b>boolean</b>	table	<b>global</b>	table
<b>buffers</b>	table	<b>graphics</b>	table
<b>builders</b>	table	<b>gregorian_to_jalali</b>	function
<b>caches</b>	table	<b>gzip</b>	table
<b>callback</b>	table	<b>img</b>	table
<b>callbacks</b>	table	<b>inspect</b>	function
<b>catcodes</b>	table	<b>interactions</b>	table
<b>characters</b>	table	<b>interfaces</b>	table
<b>chemistry</b>	table	<b>io</b>	table
<b>collectgarbage</b>	function	<b>ipairs</b>	function
<b>commands</b>	table	<b>jalali_to_gregorian</b>	function
<b>containers</b>	table	<b>jit</b>	table
<b>context</b>	function	<b>job</b>	table
<b>converters</b>	table	<b>lang</b>	table
<b>coroutine</b>	table	<b>languages</b>	table
<b>ctxrunner</b>	table	<b>last</b>	number
<b>debug</b>	table	<b>layouts</b>	table
<b>dimen</b>	function	<b>lfs</b>	table
<b>dir</b>	table	<b>libraries</b>	table
<b>directives</b>	table	<b>lmx</b>	table
<b>document</b>	table	<b>load</b>	function
<b>documentdata</b>	table	<b>loadfile</b>	function
<b>dofile</b>	function	<b>loadstring</b>	function
<b>done</b>	boolean	<b>logs</b>	table
<b>environment</b>	table	<b>lpdf</b>	table
<b>epdf</b>	table	<b>lpeg</b>	table
<b>error</b>	function	<b>ltn12</b>	table
<b>experiments</b>	table	<b>lua</b>	table
<b>figures</b>	table	<b>luatex</b>	table

lxml	table	scripts	table
math	table	select	function
mathematics	table	set	table
mbox	table	setfenv	function
md5	table	setinspector	function
metapost	table	setmetatable	function
mime	table	socket	table
module	function	sorters	table
moduledata	table	statistics	table
modules	table	status	table
mp	function	storage	table
mplib	table	streams	table
newproxy	function	string	table
next	function	structures	table
noads	table	swiglib	function
node	table	table	table
nodes	table	tex	table
number	table	texconditionals	data table
objects	table	texconfig	table
optionalrequire	function	texconstants	data table
os	table	texifs	data table
package	table	texio	table
pagebuilders	table	texisdefined	function
pairs	function	texmodes	data table
parametersets	table	texsystemmodes	data table
pcall	function	thirddata	table
pdf	table	toboolean	function
pdfboolean	function	tokens	table
pdfnull	function	tonumber	function
pdfreference	function	tostring	function
pdfscanner	table	tracers	table
pdfverbose	function	trackers	table
physics	table	type	function
print	function	typesetters	table
profiler	table	unicode	table
publications	table	unpack	function
rawequal	function	url	table
rawget	function	userdata	table
rawlen	function	utf	table
rawset	function	utilities	table
regimes	table	v	number
require	function	vf	table
resolvers	table	visualizers	table
sandbox	table	xml	table

xpcall  
zip

function  
table

zlib

table

# attributes (context)

## colorintents table

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

## colors table

- N attribute
- F cmyk
- F cmyktogray
- F cmyktorgb
- F colorcomponents
- D counts
- B couple
- F currentmodel
- F currentnamedmodel
- D data
- N default
- F defineintermediatecolor
- F definemultitonecolor
- F defineprocesscolor
- F definesimplegray
- F definespotcolor
- F definetransparency
- F enable
- F filter
- F forcedmodel
- F forcesupport
- F formatcolor
- F formatgray
- F getpagecolormodel
- F gray
- F graytohsv
- F handler
- F hsvtorgay
- F hsvtorgb
- F iccprofile
- F isblack
- N main
- S model

- D models
- F mpcolor
- F mpnamedcolor
- F mpoptions
- F namedcolorattributes
- U none
- F popset
- F processcolorcomponents
- F pushset
- F register
- D registered
- F registerspotcolor
- F rgb
- F rgbtocmyk
- F rgbtorgay
- F rgbtohsv
- N selector
- F setlist
- F setmodel
- F setpagecolormodel
- D sets
- F spec
- F spot
- F spotcolorname
- F spotcolorparent
- F spotcolorvalue
- B supported
- F transparencycomponents
- B triggering
- F usecolors
- D valid
- F value
- D values
- B weightgray

define

effects

function

table

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

D registered		N hardlight	
D values		N hue	
<b>handlers</b>	table	N lighten	
<b>list</b>	data table	N luminosity	
<b>names</b>	data table	N multiply	
<b>negatives</b>	table	N none	
N attribute		N normal	
D data		N overlay	
F enable		N saturation	
F handler		N screen	
F register		N softlight	
D registered		U none	
F set		F register	
<b>numbers</b>	data table	D registered	
<b>ofnode</b>	function	B supported	
<b>private</b>	function	B triggering	
<b>public</b>	function	F value	
<b>restore</b>	function	D values	
<b>save</b>	function	<b>unsetvalue</b>	number
<b>showcurrent</b>	function	<b>viewerlayers</b>	table
<b>states</b>	table	N attribute	
F disabletriggering		F cleanup	
F enabletriggering		D data	
F finalize		F define	
F initialize		F definedlayoutcomponent	
F process		F enable	
F selective		F forcesupport	
F stacked		F handler	
F stacker		B hasorder	
<b>system</b>	function	D listwise	
<b>transparencies</b>	table	F register	
N attribute		D registered	
D data		F resolve_begin	
F enable		F resolve_end	
F forcesupport		F resolve_reset	
F handler		F resolve_step	
T names		D scopes	
N color		F setfeatures	
N colorburn		F start	
N colordodge		F stop	
N darken		B supported	
N difference		D values	
N exclusion			

# backends (context)

## **codeinjections** table

F boxresourcedimensions  
F registerboxresource  
F restoreboxresource

## **current** string

## **defaults** table

T codeinjections  
F gethpos  
F getmatrix  
F getpos  
F getvpos  
F hasmatrix  
T nodeinjections  
T registrations  
D tables

## **install** function

## **nodeinjections** table

F restore  
F save  
F transform

## **nothing** function

## **pdf** table

T codeinjections  
F addbookmarks  
F attachmentid  
F clonefield  
F definefield  
F definefieldset  
F defineviewerlayer  
F embedfile  
F enabletags  
F exportformdata  
F getbookmarks  
F getdefaultfieldvalue  
F getfieldcategory  
F getfieldset  
F getformatoption  
F gethpos  
F getmatrix  
F getoutputfilename  
F getpos

F getpreviewfigure  
F getvpos  
F hasmatrix  
F insertrenderingwindow  
F mergebookmarks  
F mergereferences  
F mergeviewerlayers  
F prerollreference  
F presetsymbol  
F presetsymbollist  
F processrendering  
F registerdocumentcloseaction  
F registerdocumentopenaction  
F registeredsymbol  
F registerpagecloseaction  
F registerpageopenaction  
F registersymbol  
F setfieldcalculationset  
F setfigurealternative  
F setfigurecolorspace  
F setfiguremask  
F setformat  
F setformsmethod  
F setpagetransition  
F setupcanvas  
F setupidentity  
F setxmpfile  
F startlayer  
F startunicodetoactualtext  
F stoplayer  
F stopunicodetoactualtext  
F supportedformats  
F unicodetoactualtext  
F useviewerlayer  
F validfield  
F validfieldcategory  
F validfieldset  
S comment  
T nodeinjections  
F addtags  
F annotation

F attachfile	F startstackedlayer	
F changestackedlayer	F stoplayer	
F cmykcolor	F stopstackedlayer	
F comment	F transparency	
F destination	F typesetfield	
F effect	T registrations	
F graycolor	F cmykindexcolor	
F injectbitmap	F cmykspotcolor	
F insertmovie	F getspotcolorreference	
F insertsound	F grayindexcolor	
F insertswf	F grayspotcolor	
F insertu3d	F rgbindexcolor	
F knockout	F rgbspotcolor	
F negative	F spotcolorname	
F overprint	F transparency	
F positive	T tables	
F reference	D vfspecials	
F rgbcolor	<b>registrations</b>	table
F spotcolor	<b>tables</b>	table
F startlayer		



## bit (context)

<b>arshift</b>	function
<b>band</b>	function
<b>bnot</b>	function
<b>bor</b>	function
<b>bswap</b>	function
<b>bxor</b>	function

<b>lshift</b>	function
<b>rol</b>	function
<b>ror</b>	function
<b>rshift</b>	function
<b>tobit</b>	function
<b>tohex</b>	function

## bit32 (basic lua)

**arshift** function

**band** function

**bnot** function

**bor** function

**btest** function

**bxor** function

**extract** function

**lrotate** function

**lshift** function

**replace** function

**rrotate** function

**rshift** function

## blobs (context)

<b>append</b>	function
<b>dimensions</b>	function
<b>dispose</b>	function
<b>new</b>	function
<b>pack</b>	function
<b>strdp</b>	function
<b>strhd</b>	function

<b>strht</b>	function
<b>strwd</b>	function
<b>tohpack</b>	function
<b>tonodes</b>	function
<b>tovpack</b>	function
<b>write</b>	function

## boolean (context)

**tocontext** function

**tonumber** function

# buffers (context)

<b>append</b>	function	<b>F define</b>	
<b>assign</b>	function	<b>F hassomecontent</b>	
<b>collectcontent</b>	function	<b>F next</b>	
<b>erase</b>	function	<b>F place</b>	
<b>exists</b>	function	<b>F reset</b>	
<b>getcontent</b>	function	<b>F save</b>	
<b>getlines</b>	function	<b>prepend</b>	function
<b>loadcontent</b>	function	<b>raw</b>	function
<b>parallel</b>	table	<b>undent</b>	function

# builders (context)

## kernel table

- F hyphenation
- F kerning
- F ligaturing
- F mlist\_to\_hlist
- T originals
  - F hyphenate
  - F kerning
  - F ligaturing

## paragraphs table

- T constructors
  - N attribute
  - F define
  - F disable
  - F enable
  - F handler
- T methods
  - F basic
  - F default
  - F hpack
  - F oneline
- D names
- D numbers
- F set
- F start
- F stop
- T expansion
  - F trace
- F kepttogether
- F registertogether
- T solutions
  - T splitters
    - F define
    - F optimize

- T registered
- F reset
- F set
- F split
- F start
- F stop
- F tag

## profiling table

- F add
- F distance
- F fixedprofile
- F get
- F list
- F pagehandler
- F profilebox
- F set

## vspacing table

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

## cache (context)

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

## callback (basic tex)

**find**      function  
**list**      function

**register** overloaded function



## callbacks (context)

<b>freeze</b>	function
<b>known</b>	function
<b>list</b>	data table
<b>pop</b>	function

<b>push</b>	function
<b>register</b>	function
<b>report</b>	function

## catcodes (context)

**names** data table

**numbers** data table

**register** function

# characters (context)

<b>activeoffset</b>	<b>number</b>	<b>lhash</b>	<b>data table</b>
<b>adobename</b>	<b>function</b>	<b>linebreaks</b>	<b>table</b>
<b>bidirectional</b>	data table	S ai	
<b>blockrange</b>	function	S al	
<b>blocks</b>	data table	S b2	
<b>casemap</b>	table	S ba	
<b>categories</b>	data table	S bb	
<b>category</b>	function	S bk	
<b>categorytags</b>	data table	S cb	
<b>classifiers</b>	table	S cj	
<b>collapsed</b>	data table	S cl	
<b>contextname</b>	function	S cm	
<b>csletters</b>	data table	S cp	
<b>data</b>	data table	S cr	
<b>decomposed</b>	data table	S ex	
<b>description</b>	function	S gl	
<b>descriptions</b>	data table	S h2	
<b>detailltags</b>	data table	S h3	
<b>directions</b>	table	S hl	
<b>encodes</b>	data table	S hy	
<b>entities</b>	data table	S id	
<b>fallbacks</b>	data table	S in	
<b>filters</b>	data table	S is	
<b>fractions</b>	table	S jl	
<b>fromnumber</b>	function	S jt	
<b>fschars</b>	data table	S jv	
<b>fscodes</b>	data table	S lf	
<b>getrange</b>	function	S nl	
<b>graphemes</b>	data table	S ns	
<b>hangul</b>	data table	S nu	
<b>initialize</b>	function	S op	
<b>is_character</b>	data table	S po	
<b>is_command</b>	data table	S pr	
<b>is_letter</b>	data table	S qu	
<b>is_mark</b>	data table	S ri	
<b>is_punctuation</b>	data table	S sa	
<b>is_spacing</b>	data table	S sg	
<b>lcchars</b>	data table	S sp	
<b>lccode</b>	function	S sy	
<b>lccodes</b>	data table	S wj	
<b>lettered</b>	function	S xx	

S zw		T char	
<b>lower</b>	function	T compat	
<b>math</b>	table	<b>subscripts</b>	table
<b>mathpairs</b>	data table	<b>superscripts</b>	table
<b>mirrors</b>	table	<b>synonyms</b>	data table
<b>otfscripts</b>	data table	<b>tex</b>	table
<b>ranges</b>	data table	D accentmapping	
<b>registerentities</b>	function	D commandmapping	
<b>remap_hangul_syllable</b>	function	F defineaccents	
<b>setactivecatcodes</b>	function	F safechar	
<b>setlettercatcodes</b>	function	F toutf	
<b>shape</b>	function	F toutfpattern	
<b>shaped</b>	function	<b>textclasses</b>	table
<b>shash</b>	data table	<b>tonumber</b>	function
<b>shchars</b>	data table	<b>ucchars</b>	data table
<b>shcodes</b>	data table	<b>uccode</b>	function
<b>showstring</b>	function	<b>uccodes</b>	data table
<b>specialchars</b>	data table	<b>uhash</b>	data table
<b>specials</b>	data table	<b>unicodechar</b>	function
<b>splits</b>	table	<b>upper</b>	function

## chemistry (context)

<b>component</b>	function
<b>define</b>	function
<b>definitions</b>	data table
<b>format</b>	string
<b>inlinechemical</b>	function
<b>instance</b>	string
<b>method</b>	string

<b>molecule</b>	function
<b>moleculeparser</b>	userdata
<b>start</b>	function
<b>stop</b>	function
<b>structures</b>	number
<b>undefine</b>	function

## containers (context)

**cleanname** function  
**content** function  
**define** function  
**is\_usable** function

**is\_valid** function  
**read** function  
**usecache** boolean  
**write** function

## converters (context)

<b>A</b>	function	<b>isleapyear</b>	function
<b>A:es</b>	function	<b>lchexnumber</b>	function
<b>AK</b>	function	<b>lchexnumbers</b>	function
<b>Alphabetic</b>	function	<b>leapyear</b>	function
<b>Alphabetic:es</b>	function	<b>lower</b>	function
<b>Character</b>	function	<b>max</b>	function
<b>Characters</b>	function	<b>maxchrs</b>	function
<b>I</b>	function	<b>minute</b>	function
<b>KA</b>	function	<b>month</b>	function
<b>KR</b>	function	<b>nicenumber</b>	function
<b>R</b>	function	<b>nofdays</b>	function
<b>RK</b>	function	<b>number</b>	function
<b>Romannumerals</b>	function	<b>numbers</b>	function
<b>Sloviannumerals</b>	function	<b>octnumber</b>	function
<b>Spanishnumerals</b>	function	<b>octstringtonumber</b>	function
<b>Word</b>	function	<b>ordinal</b>	function
<b>Words</b>	function	<b>r</b>	function
<b>a</b>	function	<b>rawcharacter</b>	function
<b>a:es</b>	function	<b>romannumerals</b>	function
<b>abjadnodotnumerals</b>	function	<b>second</b>	function
<b>abjadnumerals</b>	function	<b>sequences</b>	data table
<b>alphabetic</b>	function	<b>settime</b>	function
<b>alphabetic:es</b>	function	<b>sloviannumerals</b>	function
<b>character</b>	function	<b>spanishnumerals</b>	function
<b>characters</b>	function	<b>textime</b>	function
<b>chineseallnumerals</b>	function	<b>toabjad</b>	function
<b>chinesecapnumerals</b>	function	<b>tochinese</b>	function
<b>chinesenumerals</b>	function	<b>toroman</b>	function
<b>chr</b>	function	<b>totime</b>	function
<b>chrs</b>	function	<b>uchexnumber</b>	function
<b>cn</b>	function	<b>uchexnumbers</b>	function
<b>cn-a</b>	function	<b>upper</b>	function
<b>cn-c</b>	function	<b>verbose</b>	table
<b>convert</b>	function		
<b>decimals</b>	function	D data	
<b>define</b>	function	F translate	
<b>hexstringtonumber</b>	function	<b>weekday</b>	function
<b>hour</b>	function	<b>word</b>	function
<b>i</b>	function	<b>words</b>	function
		<b>year</b>	function

## coroutine (basic lua)

**create**    function  
**resume**   function  
**running** function

**status**   function  
**wrap**     function  
**yield**    function



# ctxrunner (context)

<b>load</b>	function	<b>prepfiles</b>	data table
<b>preparedfile</b>	function	<b>resolve</b>	function

## debug (basic lua)

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

<b>setfenv</b>	function
<b>sethook</b>	function
<b>setlocal</b>	function
<b>setmetatable</b>	function
<b>setupvalue</b>	function
<b>setuservalue</b>	function
<b>traceback</b>	function
<b>upvalueid</b>	function
<b>upvaluejoin</b>	function

## dir (context)

<b>collectpattern</b>	function
<b>current</b>	function
<b>expandname</b>	function
<b>found</b>	function
<b>glob</b>	function
<b>globfiles</b>	function

<b>globpattern</b>	function
<b>ls</b>	function
<b>makedirs</b>	function
<b>mkdirs</b>	function
<b>pop</b>	function
<b>push</b>	function

## directives (context)

<b>data</b>	data table
<b>default</b>	function
<b>disable</b>	function
<b>done</b>	table
<b>enable</b>	function
<b>list</b>	function

<b>name</b>	string
<b>register</b>	function
<b>report</b>	function
<b>reset</b>	function
<b>show</b>	function
<b>value</b>	function

# document (context)

<b>arguments</b>	data table		D modes	
<b>files</b>	table		D modules	
<b>functions</b>	table	<b>setargument</b>		function
<b>getargument</b>	function	<b>setcommandline</b>		function
<b>getfilename</b>	function	<b>setdefaultargument</b>		function
<b>options</b>	table	<b>setenvironments</b>		function
T commandline		<b>setfilename</b>		function
D environments		<b>setfilenames</b>		function
D modes		<b>setmodes</b>		function
D modules		<b>setmodules</b>		function
T ctxfile		<b>variables</b>		data table
D environments				

## environment (context)

<b>argument</b>	function	<b>luafile</b>	function
<b>arguments</b>	data table	<b>luafilechunk</b>	function
<b>basicengines</b>	data table	<b>maxnofruns</b>	number
<b>currentrun</b>	number	<b>originalarguments</b>	data table
<b>default_texmfconf</b>	string	<b>outputfilename</b>	string
<b>definefilefallback</b>	function	<b>ownbin</b>	string
<b>definefilesynonym</b>	function	<b>ownmain</b>	string
<b>engineflags</b>	data table	<b>ownname</b>	string
<b>filename</b>	string	<b>ownpath</b>	string
<b>files</b>	table	<b>prerollrun</b>	boolean
<b>filesynonyms</b>	data table	<b>rawarguments</b>	data table
<b>forcedruns</b>	number	<b>reconstructcommandline</b>	function
<b>getargument</b>	function	<b>relativepath</b>	function
<b>homedir</b>	string	<b>setargument</b>	function
<b>initex</b>	boolean	<b>splitarguments</b>	function
<b>initializearguments</b>	function	<b>suffix</b>	string
<b>initializefilenames</b>	function	<b>texfile</b>	function
<b>inputfilebarename</b>	string	<b>texmfos</b>	string
<b>inputfilename</b>	string	<b>texos</b>	string
<b>inputfilesuffix</b>	string	<b>texroot</b>	string
<b>jobfilename</b>	string	<b>truefilename</b>	function
<b>jobfilesuffix</b>	string	<b>uselua module</b>	function
<b>jobname</b>	string	<b>usemodules</b>	function
<b>kindofrun</b>	number	<b>validengines</b>	data table
<b>loadexamodes</b>	function	<b>version</b>	string
<b>loadluafile</b>	function		

## epdf (extra tex)

**Array** function  
**Attribute** function  
**AttributeOwner\_Type** function  
**Attribute\_Type** function  
**Dict** function  
**Object** function

**PDFRectangle** function  
**StructElement\_Type** function  
**open** overloaded function  
**openMemStream** function  
**type** function

## experiments (context)

<b>data</b>	data table
<b>default</b>	function
<b>disable</b>	function
<b>enable</b>	function
<b>list</b>	function
<b>name</b>	string

<b>register</b>	function
<b>report</b>	function
<b>reset</b>	function
<b>show</b>	function
<b>value</b>	function



# figures (context)

<b>applyratio</b>	function	<b>F ofindex</b>	
<b>badname</b>	function	<b>F package</b>	
<b>bases</b>	data table	<b>F print</b>	
<b>bitmapimage</b>	function	<b>F scan</b>	
<b>boxnumber</b>	number	<b>F serialize</b>	
<b>cachepaths</b>	data table	<b>F totable</b>	
<b>check</b>	function	<b>F types</b>	
<b>checkers</b>	data table	<b>F write</b>	
<b>converters</b>	data table	<b>include</b>	function
<b>current</b>	function	<b>includes</b>	data table
<b>defaultdepth</b>	number	<b>initialize</b>	function
<b>defaultheight</b>	number	<b>loaded</b>	data table
<b>defaultsearch</b>	boolean	<b>localpaths</b>	data table
<b>defaultwidth</b>	number	<b>magics</b>	data table
<b>done</b>	function	<b>mergegoodies</b>	function
<b>dummy</b>	function	<b>nofprocessed</b>	number
<b>exists</b>	data table	<b>order</b>	data table
<b>exists</b>	function	<b>paths</b>	data table
<b>formats</b>	data table	<b>patterns</b>	data table
<b>found</b>	data table	<b>pop</b>	function
<b>get</b>	function	<b>preferquality</b>	boolean
<b>getrealpage</b>	function	<b>programs</b>	data table
<b>guess</b>	function	<b>push</b>	function
<b>hash</b>	function	<b>registerpattern</b>	function
<b>identifiers</b>	data table	<b>registerresource</b>	function
<b>identify</b>	function	<b>registersuffix</b>	function
<b>images</b>	table	<b>resources</b>	data table
<b>F boxes</b>		<b>scale</b>	function
<b>F check</b>		<b>set</b>	function
<b>F checksize</b>		<b>setlookups</b>	function
<b>F clone</b>		<b>setmemstream</b>	function
<b>F copy</b>		<b>setorder</b>	function
<b>F immediatewrite</b>		<b>setpaths</b>	function
<b>F keys</b>		<b>suffixes</b>	data table
<b>F new</b>		<b>used</b>	data table
<b>F node</b>			

## file (basic lua)

<b>addsuffix</b>	function
<b>basename</b>	function
<b>checksum</b>	function
<b>collapsepath</b>	function
<b>copy</b>	function
<b>dirname</b>	function
<b>expandname</b>	function
<b>extname</b>	function
<b>is_qualified_path</b>	function
<b>is_readable</b>	function
<b>is_rootbased_path</b>	function
<b>is_writable</b>	function
<b>isreadable</b>	function
<b>iswritable</b>	function
<b>join</b>	function
<b>joinpath</b>	function
<b>loadchecksum</b>	function
<b>nameonly</b>	function
<b>nametotable</b>	function
<b>needs Updating</b>	function

<b>needsupdating</b>	function
<b>pathpart</b>	function
<b>readdata</b>	function
<b>removesuffix</b>	function
<b>replacesuffix</b>	function
<b>reslash</b>	function
<b>robustname</b>	function
<b>savechecksum</b>	function
<b>savedata</b>	function
<b>size</b>	function
<b>splitbase</b>	function
<b>splitname</b>	function
<b>splitpath</b>	function
<b>strip</b>	function
<b>suffix</b>	function
<b>suffixes</b>	function
<b>suffixesonly</b>	function
<b>suffixonly</b>	function
<b>syncmtimes</b>	function

# floats (context)

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

## font (basic tex)

<b>current</b>	function	<b>id</b>	function
<b>define</b>	function	<b>max</b>	function
<b>each</b>	function	<b>nextid</b>	function
<b>fonts</b>	table	<b>read_tfm</b>	function
<b>frozen</b>	function	<b>read_vf</b>	function
<b>getfont</b>	overloaded function	<b>setfont</b>	overloaded function

# fontloader (extra tex)

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

# fonts (context)

## analyzers

table

T features

N blwf

N fin2

N fin3

N fina

N half

N init

N isol

N med2

N medi

N pref

N pstf

N rphf

D initializers

D methods

F setstate

T states

N blwf

N fin2

N fin3

N fina

N half

N init

N isol

N mark

N med2

N medi

N pref

N pstf

N rest

N rphf

B useunicodemarks

## checkers

table

F getmissing

F missing

F placeholder

## cid

table

F getmap

F loadfile

## collections

table

F checkenabled

F clonevector

F define

T definitions

F found

F prepare

F process

F registermain

F report

F reset

T vectors

## constructors

table

F addcoreunicodes

F aftercopyingcharacters

F applymanipulators

F assignmathparameters

B autocleanup

F beforecopyingcharacters

D cache

B cacheintex

F calculatescale

F checkedfeatures

F checkedfilename

F checkvirtualids

F cleanupable

F collectprocessors

F currentfonthasfeature

D designsizes

D dontembed

F enhanceparameters

T enhancers

T afm

F apply

F patch

T patches

F register

F register

T otf

F addfeature

F apply

F enhance

F patch	F alternate
T patches	F chainposition
F register	F chainsubstitution
F register	F kern
T tfm	F ligature
F apply	F multiple
F patch	F pair
T patches	F substitution
F register	F register
F register	S stepkey
N factor	F dataset
T features	S defaultbasealternate
D afm	S defaultnodealternate
D otf	D features
D tfm	F featuresprocessor
F finalize	F getactualtext
F getfeatureaction	F getalternate
T handlers	F getgsub
T afm	F getkern
B autoprefixed	F getmultiple
D cache	F getsubstitution
D features	T handlers
F getkern	F devanagari_remove_joiners
T helpdata	F devanagari_reorder_matras
D bothkerned	F devanagari_reorder_pre_base_reordering_consonants
D leftkerned	F devanagari_reorder_reph
D ligatures	F gpos_context
D rightkerned	F gpos_contextchain
D texligatures	F gpos_cursive
F load	F gpos_mark2base
T readers	F gpos_mark2ligature
F getinfo	F gpos_mark2mark
F loadfont	F gpos_pair
F loadshapes	F gpos_single
F setfeatures	F gsub_alternate
B syncspace	F gsub_context
N version	F gsub_contextchain
T otf	F gsub_ligature
F addfeature	F gsub_multiple
F basemodeinitializer	F gsub_reversecontextchain
D cache	F gsub_single
F collectlookups	F trigger_space_kerns
T coverup	F load
T actions	F modeinitializer

F nodemodetinitializer	F readcardinal1
D pdfcache	F readcardinal2
T readers	F readcardinal3
F addunicodetable	F readcardinal4
F cff	F readchar
F checkhash	F readfixed4
F cmap	F readinteger
F colr	F readinteger1
F compact	F readinteger2
F cpal	F readinteger3
F expand	F readinteger4
F extend	F readstring
F gdef	F readtag
F getcomponents	F setposition
F getinfo	F size
F glyf	F skip
F gpos	F skiplong
F gsub	F skipshort
F head	F writebyte
F hhea	F writecardinal2
F hmtx	F writecardinal4
F kern	F writestring
F loadfont	F svg
F loadshapes	N tableversion
F loca	F unifymissing
F math	F unpack
F maxp	F woff2otf
F name	F scriptandlanguage
F os/2	F setdynamics
F pack	F setfeatures
F parsecharstrings	T statistics
F post	D usedfeatures
F registerextender	T svg
F rehash	F filterglyph
T streamreader	F storepdfdata
F close	F topdf
F getposition	D svgcache
F getsizes	B svgenabled
F look	T tables
F open	D baselines
F read2dot14	D features
F readbyte	D featuretypes
F readbytes	D languages
F readcardinal	D scripts



N version	S auto
T pfb	S quad
F loadvector	S scaledpoints
T tfm	S scriptpercentage
F addtounicode	S scriptscriptpercentage
D features	S size
N maxnestingdepth	S slantfactor
N maxnestingsize	S slantperpoint
F reencode	T spacing
F setfeatures	S extra
N version	S shrink
T vf	S stretch
T combinations	S width
F combine	S units
T combiner	S vfactor
D commands	S xheight
D helpers	T properties
D math	S autoitalicamount
D predefined	S cidinfo
N version	S embedding
D whatever	S encodingbytes
F hashfeatures	S filename
F hashinstance	S finalized
T hashmethods	S fontname
F normal	S format
F virtual	S fullname
F initializefeatures	S hasitalics
T keys	S hasmath
T characters	S mathitalics
T descriptions	S mode
T parameters	S name
S ascender	S noglyphnames
S descender	S nostackmath
S designsize	S psname
T expansion	S textitalics
S auto	S virtualized
S shrink	D loadedfonts
S step	S namemode
S stretch	N noffontsloaded
S extendfactor	N nofsharedfonts
S factor	N nofsharedhashes
S hfactor	N nofsharedvectors
S mathsize	N privateoffset
T protrusion	D privateslots

F readanddefine		D extras
F registerfeature		D names
F resetfeature		T synonyms
B resolvevirtualtoo		N Acyrillic
F scale		N Becyrillic
F scaled		N Cdot
F setfactor		N Checyrillic
F setfeature		N Decyrillic
F setname		N Djecyrillic
B sharefonts		N Dzecyrillic
F trytosharefont		N Dzhecyrillic
N version		N Ecyrillic
<b>current</b>	function	N Edot
<b>currentid</b>	function	N Efcyrillic
<b>definers</b>	table	N Elcyrillic
F addlookup		N Emcyrillic
F analyze		N Encyrillic
F applypostprocessors		N Ercyrillic
F checkedmode		N Ereversedcyrillic
F checkedscript		N Escyrillic
F current		N Fitacyrillic
S defaultlookup		N Gcedilla
F define		N Gdot
F getspecification		N Gecyrillic
F internal		N Gheupturncyrillic
F loadfont		N Gjecyrillic
F makespecification		N Hardsigncyrillic
T methods		N IAcyrillic
F install		N IUcyrillic
D variants		N Icyrillic
F read		N Idot
F register		N Iecyrillic
F registered		N Iicyrillic
F registersplit		N Iishortcyrillic
F resetnullfont		N Iocyrillic
F resolve		N Izhitsacyrillic
T resolvers		N Jecyrillic
F file		N Kacyrillic
F name		N Kcedilla
F spec		N Khacyrillic
<b>definetypeface</b>	function	N Kjecyrillic
<b>encodings</b>	table	N Lcedilla
T agl		N Ljecyrillic
D ctxcodes		N Ncedilla

N Njecyrillic	N blacksmilingface
N Ocyrillic	N blacksquare
N Odblacute	N blackuppointingtriangle
N Ohm	N bulletinverse
N Pecyrillic	N cdot
N Rcedilla	N compass
N Shacyrillic	N dagesh
N Shchacyrillic	N dalet
N Softsigncyrillic	N daletdagesh
N Tcedilla	N daletthatafpatah
N Tecyrillic	N daletthatafpatahhebrew
N Tsecyrillic	N daletthatafsegol
N Tshecyrillic	N daletthatafsegolhebrew
N Ucyrillic	N dalethebrew
N Udblacute	N daletthiriq
N Ushortcyrillic	N daletthiriqhebrew
N Vecyrillic	N dalettholam
N Yatcyrillic	N dalettholamhebrew
N Yericyrillic	N daletpatah
N Yicyrillic	N daletpatahhebrew
N Zdot	N daletqamats
N Zecyrillic	N daletqamatshebrew
N Zhecyrillic	N daletqubuts
N acutecmb	N daletqubutshebrew
N acyrillic	N daletsegol
N afii00208	N daletsegolhebrew
N afii08941	N daletsheva
N afii57694	N daletshevahebrew
N afii57695	N dalettsere
N afii57700	N dammaarabic
N afii57705	N dammatanaltonearabic
N afii57723	N dargahebrew
N alef	N dbllowline
N alefmaksurainitialarabic	N decimalseparatorarabic
N alefmaksuramedialarabic	N dialytikatonos
N approximatelyequal	N dotbelowcmb
N asteriskaltonearabic	N doubleyodpatah
N ayin	N doubleyodpatahhebrew
N bet	N edot
N betdagesh	N eightarabic
N blackdownpointingtriangle	N eighthnotebeamed
N blackleftpointingpointer	N etnahtafoukhhebrew
N blackrectangle	N etnahtafoukhlefthebrew
N blackrightpointingpointer	N etnahtahebrew

N fathaarabic	N hatafsegol24
N finalkaf	N hatafsegol30
N finalkafdagesh	N hatafsegolhebrew
N finalkafhebrew	N hatafsegolnarrowhebrew
N finalkafqamats	N hatafsegolquarterhebrew
N finalkafqamatshebrew	N he
N finalkafsheva	N hedagesh
N finalmem	N hehfinalalttwoarabic
N finalnun	N het
N finalpe	N hiriq
N finaltsadi	N hiriq14
N fivearabic	N hiriq21
N forall	N hiriq2d
N fourarabic	N hiriqhebrew
N gcedilla	N hiriqnarrowhebrew
N gdot	N hiriqquarterhebrew
N gimel	N holam
N gimeldagesh	N holam19
N gravecmb	N holam26
N haaltonearabic	N holam32
N hamzaarabic	N holamhebrew
N hamzadammaarabic	N holamnarrowhebrew
N hamzadammatanarabic	N holamquarterhebrew
N hamzafathaarabic	N ilde
N hamzafathatanarabic	N integralbottom
N hamzalowarabic	N integraltop
N hamzalowkasraarabic	N kaf
N hamzalowkasratanarabic	N kafdagesh
N hatafpatah	N kashidaautoarabic
N hatafpatah16	N kashidaautonosidebearingarabic
N hatafpatah23	N kcedilla
N hatafpatah2f	N lamed
N hatafpatahhebrew	N lameddagesh
N hatafpatahnarrowhebrew	N lamedhebrew
N hatafpatahquarterhebrew	N lamedholam
N hatafqamats	N lamedholamdagesh
N hatafqamats1b	N lamedholamdageshhebrew
N hatafqamats28	N laminitialarabic
N hatafqamats34	N lammeemjeeminitialarabic
N hatafqamatshebrew	N lcedilla
N hatafqamatsnarrowhebrew	N logicalnotreversed
N hatafqamatsquarterhebrew	N mahapakhhebrew
N hatafsegol	N mem
N hatafsegol17	N memdagesh

N merkhahebrew  
N merkhakefulahebrew  
N middot  
N munahhebrew  
N nbspace  
N ncedilla  
N newsheqelsign  
N ninearabic  
N noonhehinitialarabic  
N nun  
N nundagesh  
N odblacute  
N onearabic  
N overscore  
N patah  
N patahl1  
N patahl1d  
N patah2a  
N patahhebrew  
N patahnarrowhebrew  
N patahquarterhebrew  
N pe  
N pedagesh  
N qamats  
N qamats10  
N qamats1a  
N qamats1c  
N qamats27  
N qamats29  
N qamats33  
N qamatsde  
N qamatshebrew  
N qamatsnarrowhebrew  
N qamatsqatanhebrew  
N qamatsqatanannarrowhebrew  
N qamatsqatanquarterhebrew  
N qamatsqatanwidehebrew  
N qamatsquarterhebrew  
N qof  
N qofdagesh  
N qofhatafpatah  
N qofhatafpatahhebrew  
N qofhatafsegol  
N qofhatafsegolhebrew

N qofhebrew  
N qofhiriq  
N qofhiriqhebrew  
N qofholam  
N qofholamhebrew  
N qofpatah  
N qofpatahhebrew  
N qofqamats  
N qofqamatshebrew  
N qofqubuts  
N qofqubutshebrew  
N qofsegol  
N qofsegolhebrew  
N qofsheva  
N qofshevahebrew  
N qoftsere  
N qubuts  
N qubuts18  
N qubuts25  
N qubuts31  
N qubutshebrew  
N qubutsnarrowhebrew  
N qubutsquarterhebrew  
N quoteleftreversed  
N rafe  
N rcedilla  
N reharabic  
N resh  
N reshhatafpatah  
N reshhatafpatahhebrew  
N reshhatafsegol  
N reshhatafsegolhebrew  
N reshhebrew  
N reshhiriq  
N reshhiriqhebrew  
N ressholam  
N ressholamhebrew  
N reshpatah  
N reshpatahhebrew  
N reshqamats  
N reshqamatshebrew  
N reshqubuts  
N reshqubutshebrew  
N reshsegol

N reshsegohebrew	N tildecmb
N reshsheva	N tipehahebrew
N reshshevahebrew	N tsadi
N reshtsere	N tsadidagesh
N reviahebrew	N tsere
N samekh	N tsere12
N samekhdagesh	N tsere1e
N segol	N tsere2b
N segol13	N tserehebrew
N segol1f	N tserenarrowhebrew
N segol2c	N tserequarterhebrew
N segolhebrew	N twoarabic
N segolnarrowhebrew	N udblacute
N segolquarterhebrew	N vav
N sevenarabic	N vavdagesh
N sfthyphen	N vavdagesh65
N shaddaarabic	N vavholam
N sheqel	N yerahbenyomohebrew
N sheva	N yod
N sheva115	N yoddagesh
N sheva15	N zayin
N sheva22	N zayindagesh
N sheva2e	N zdot
N shevahebrew	N zeroarabic
N shevanarrowhebrew	D unicodes
N shevaquarterhebrew	D cache
N shin	T ctxcodes
N shindagesh	N AEacute
N shindageshshindot	N AEligature
N shindageshsindot	N AEmacron
N shinshindot	N Aacute
N shinsindot	N Abreve
N siluqhebrew	N Abreveacute
N sixarabic	N Abrevedotbelow
N tav	N Abrevegrave
N tavadages	N Abrevehook
N tavadagesh	N Abrevetilde
N tcedilla	N Acaron
N tchehinitialarabic	N Acircumflex
N tet	N Acircumflexacute
N tetdagesh	N Acircumflexdotbelow
N tevirhebrew	N Acircumflexgrave
N thousandsseparatorarabic	N Acircumflexhook
N threearabic	N Acircumflextilde

N Adiaeresis  
N Adiaeresismacron  
N Adotaccent  
N Adotaccentmacron  
N Adotbelow  
N Adoublegrave  
N Agrave  
N Ahook  
N Ainvertedbreve  
N Amacron  
N Aogonek  
N Aring  
N Aringacute  
N Astroke  
N Atilde  
N Bhook  
N Cacute  
N Ccaron  
N Ccedilla  
N Ccircumflex  
N Cdotaccent  
N Chook  
N Cstroke  
N DZcaronligature  
N DZligature  
N Dafrican  
N Dcaron  
N Dhook  
N Dstroke  
N Dzcaronligature  
N Dzligature  
N Eacute  
N Ebreve  
N Ecaron  
N Ecedilla  
N Ecircumflex  
N Ecircumflexacute  
N Ecircumflexdotbelow  
N Ecircumflexgrave  
N Ecircumflexhook  
N Ecircumflextilde  
N Ediaeresis  
N Edotaccent  
N Edotbelow

N Edoublegrave  
N Egrave  
N Ehook  
N Einvertedbreve  
N Emacron  
N Eogonek  
N Eth  
N Etilde  
N Fhook  
N Gacute  
N Gbreve  
N Gcaron  
N Gcircumflex  
N Gcommaaccent  
N Gdotaccent  
N Ghook  
N Gstroke  
N Hcaron  
N Hcircumflex  
N Hstroke  
N IJligature  
N Iacute  
N Ibreve  
N Icaron  
N Icircumflex  
N Idiaeresis  
N Idotaccent  
N Idotbelow  
N Idoublegrave  
N Igrave  
N Ihook  
N Iinvertedbreve  
N Imacron  
N Iogonek  
N Istroke  
N Itilde  
N Jcircumflex  
N Kcaron  
N Kcommaaccent  
N Khook  
N LJligature  
N Lacute  
N Lbar  
N Lcaron

N Lcommaaccent  
N Ldotmiddle  
N Ljligature  
N Lstroke  
N NJligature  
N Nacute  
N Ncaron  
N Ncommaaccent  
N Neng  
N Ngrave  
N Njligature  
N Ntilde  
N OEligature  
N Oacute  
N Obreve  
N Ocaron  
N Ocircumflex  
N Ocircumflexacute  
N Ocircumflexdotbelow  
N Ocircumflexgrave  
N Ocircumflexhook  
N Ocircumflextilde  
N Odiaeresis  
N Odiaeresismacron  
N Odotaccent  
N Odotaccentmacron  
N Odotbelow  
N Odoublegrave  
N Ograve  
N Ohook  
N Ohorn  
N Ohornacute  
N Ohorndotbelow  
N Ohorngrave  
N Ohornhook  
N Ohorntilde  
N Ohungarumlaut  
N Oinvertedbreve  
N Omacron  
N Oogonek  
N Oogonekmacron  
N Ostroke  
N Ostrokeacute  
N Otilde

N Otildemacron  
N Phook  
N Racute  
N Rcaron  
N Rcommaaccent  
N Rdoublegrave  
N Rinvertedbreve  
N Sacute  
N Scaron  
N Scedilla  
N Schwa  
N Scircumflex  
N Scommaaccent  
N Tcaron  
N Tcedilla  
N Tcommaaccent  
N Thook  
N Thorn  
N Tstroke  
N Uacute  
N Ubreve  
N Ucaron  
N Ucircumflex  
N Udiaeresis  
N Udiaeresisacute  
N Udiaeresiscaron  
N Udiaeresisgrave  
N Udiaeresismacron  
N Udotbelow  
N Udoublegrave  
N Ugrave  
N Uhook  
N Uhorn  
N Uhornacute  
N Uhorndotbelow  
N Uhorngrave  
N Uhornhook  
N Uhorntilde  
N Uhungarumlaut  
N Uinvertedbreve  
N Umacron  
N Uogonek  
N Uring  
N Utilde



N Wcircumflex	N atilde
N Yacute	N bhook
N Ycircumflex	N breakablethinspace
N Ydiaeresis	N bstroke
N Ydotbelow	N cacute
N Ygrave	N carriagereturn
N Yhook	N ccaron
N Ymacron	N ccedilla
N Ytilde	N ccircumflex
N Zacute	N ccurl
N Zcaron	N cdotaccent
N Zdotaccent	N chook
N Zhook	N copyright
N Zstroke	N cstroke
N aacute	N cyrillicA
N abreve	N cyrillicAE
N abreveacute	N cyrillicAbreve
N abrevedotbelow	N cyrillicAdiaeresis
N abrevegrave	N cyrillicB
N abrevehook	N cyrillicBIGYUS
N abrevetilde	N cyrillicBIGYUSiotified
N acaron	N cyrillicC
N acircumflex	N cyrillicCH
N acircumflexacute	N cyrillicCHEDC
N acircumflexdotbelow	N cyrillicCHEDCabkhasian
N acircumflexgrave	N cyrillicCHEabkhasian
N acircumflexhook	N cyrillicCHEdiaeresis
N acircumflextilde	N cyrillicCHEkhakassian
N adiaeresis	N cyrillicCHEvertstroke
N adiaeresismacron	N cyrillicD
N adotaccent	N cyrillicDASIAPNEUMATA
N adotaccentmacron	N cyrillicDJE
N adotbelow	N cyrillicDZE
N adoublegrave	N cyrillicDZEabkhasian
N aacute	N cyrillicDZHE
N aeligature	N cyrillicE
N aemacron	N cyrillicELtail
N agrave	N cyrillicEMtail
N ahook	N cyrillicENDC
N ainvertedbreve	N cyrillicENGHE
N amacron	N cyrillicENhook
N aogonek	N cyrillicENTail
N aring	N cyrillicEREV
N aringacute	N cyrillicERY

N cyrillicERTick  
N cyrillicEbreve  
N cyrillicEdiaeresis  
N cyrillicEgrave  
N cyrillicEiotified  
N cyrillicF  
N cyrillicFITA  
N cyrillicG  
N cyrillicGHEmidhook  
N cyrillicGHEstroke  
N cyrillicGHEupturn  
N cyrillicGJE  
N cyrillicH  
N cyrillicHA  
N cyrillicHADC  
N cyrillicHRDSN  
N cyrillicI  
N cyrillicIE  
N cyrillicII  
N cyrillicISHRT  
N cyrillicISHRTtail  
N cyrillicIZHITSA  
N cyrillicIZHITSAdoublegrave  
N cyrillicIdiaeresis  
N cyrillicIgrave  
N cyrillicImacron  
N cyrillicJE  
N cyrillicK  
N cyrillicKADC  
N cyrillicKAbashkir  
N cyrillicKAhook  
N cyrillicKAstroke  
N cyrillicKAvertstroke  
N cyrillicKJE  
N cyrillicKOPPA  
N cyrillicKSI  
N cyrillicL  
N cyrillicLITTLEYUS  
N cyrillicLITTLEYUSiotified  
N cyrillicLJE  
N cyrillicM  
N cyrillicN  
N cyrillicNJE  
N cyrillicO

N cyrillicOMEGA  
N cyrillicOMEGARound  
N cyrillicOMEGAtitlo  
N cyrillicOT  
N cyrillicObarred  
N cyrillicObarreddiaeresis  
N cyrillicOdiaeresis  
N cyrillicP  
N cyrillicPALATALIZATION  
N cyrillicPALOCHKA  
N cyrillicPEmidhook  
N cyrillicPSI  
N cyrillicPSILIPNEUMATA  
N cyrillicR  
N cyrillicS  
N cyrillicSCHWA  
N cyrillicSCHWAdiaeresis  
N cyrillicSDSC  
N cyrillicSEMIISOFT  
N cyrillicSFTSN  
N cyrillicSH  
N cyrillicSHCH  
N cyrillicSHHA  
N cyrillicT  
N cyrillicTEDC  
N cyrillicTETSE  
N cyrillicTITLO  
N cyrillicTSHE  
N cyrillicU  
N cyrillicUK  
N cyrillicUSHRT  
N cyrillicUdiaeresis  
N cyrillicUdoubleacute  
N cyrillicUmacron  
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N cyrillicYA  
N cyrillicYAT  
N cyrillicYERUdiaeresis  
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N cyrillicYO  
N cyrillicYU  
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N cyrillicYstrstroke  
N cyrillicZ

N cyrillicZDSC  
N cyrillicZEdiaeresis  
N cyrillicZH  
N cyrillicZHEbreve  
N cyrillicZHEdescender  
N cyrillicZHEdiaeresis  
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N cyrillicadiaeresis  
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N cyrillicbigyusiotified  
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N cyrillicchedc  
N cyrillicchedcabkhasian  
N cyrillicchediaeresis  
N cyrillicchekhakassian  
N cyrillicchevertstroke  
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N cyrillicdje  
N cyrillicdze  
N cyrillicdzeabkhasian  
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N cyrillicemtail  
N cyrillicencd  
N cyrillicenghe  
N cyrillicenhook  
N cyrillicentail  
N cyrillicerev  
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N cyrillicery  
N cyrillicf  
N cyrillicfita  
N cyrillicg  
N cyrillicghemidhook

N cyrillicghestroke  
N cyrillicgheupturn  
N cyrillicgje  
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N cyrillichadc  
N cyrillichrdsn  
N cyrillicici  
N cyrillicidiaeresis  
N cyrillicie  
N cyrillicigrave  
N cyrillicii  
N cyrillicimacron  
N cyrillicishrt  
N cyrillicishrttail  
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N cyrillicizhitsadoublegrave  
N cyrillicje  
N cyrillick  
N cyrillickabashkir  
N cyrillickadc  
N cyrillickahook  
N cyrillickastroke  
N cyrillickavertstroke  
N cyrillickje  
N cyrillickoppa  
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N cyrilliclittleyusiotified  
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N cyrillicn  
N cyrillicnje  
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N cyrillicobarreddiaeresis  
N cyrillicodiaeresis  
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N cyrillicomegaround  
N cyrillicomegatitlo  
N cyrillicot  
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N cyrillicpemidhook

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N cyrillicschwadiaeresis  
N cyrillicsdsc  
N cyrillicsemisoft  
N cyrillicsftsn  
N cyrillicsh  
N cyrillicshch  
N cyrillicshha  
N cyrillict  
N cyrillictedc  
N cyrillictetse  
N cyrillictshe  
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N cyrillicuk  
N cyrillicumacron  
N cyrillicushrt  
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N cyrillicz  
N cyrilliczdsc  
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N cyrilliczh  
N cyrilliczhebreve  
N cyrilliczhedescender  
N cyrilliczhediaeresis  
N dcaron  
N dcurl  
N dhook  
N dotlessI  
N dotlessJ  
N dotlessi  
N dotlessj

N dotlessjstroke  
N dstroke  
N dtail  
N dzcaronligature  
N dzligature  
N eacute  
N ebreve  
N ecaron  
N ecedilla  
N ecircumflex  
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N ecircumflexdotbelow  
N ecircumflexgrave  
N ecircumflexhook  
N ecircumflextilde  
N ediaeresis  
N edotaccent  
N edotbelow  
N edoublegrave  
N egrave  
N ehook  
N einvertedbreve  
N emacron  
N emdash  
N emspace  
N endash  
N enspace  
N eogonek  
N etilde  
N exclamdown  
N ffligature  
N ffligature  
N fhook  
N figurespace  
N filigature  
N fiveeighths  
N fivesixths  
N fligature  
N fourfifths  
N fourperemspace  
N gacute  
N gbreve  
N gcaron

N gcircumflex	N greekEtaiotasubdasia
N gcommaaccent	N greekEtaiotasubdasiaperispomeni
N gdotaccent	N greekEtaiotasubdasiatonos
N greekAlpha	N greekEtaiotasubdasiavaria
N greekAlphadasia	N greekEtaiotasubpsili
N greekAlphadasiaperispomeni	N greekEtaiotasubpsiliperispomeni
N greekAlphadasiatonos	N greekEtaiotasubpsilitonos
N greekAlphadasiavaria	N greekEtaiotasubpsilivaria
N greekAlphaiotasub	N greekEtapsili
N greekAlphaiotasubdasia	N greekEtapsiliperispomeni
N greekAlphaiotasubdasiaperispomeni	N greekEtapsilitonos
N greekAlphaiotasubdasiatonos	N greekEtapsilivaria
N greekAlphaiotasubdasiavaria	N greekEtatonos
N greekAlphaiotasubpsili	N greekEtavaria
N greekAlphaiotasubpsiliperispomeni	N greekGamma
N greekAlphaiotasubpsilitonos	N greekIota
N greekAlphaiotasubpsilivaria	N greekIotadasia
N greekAlphamacron	N greekIotadasiaperispomeni
N greekAlphapsili	N greekIotadasiatonos
N greekAlphapsiliperispomeni	N greekIotadasiavaria
N greekAlphapsilitonos	N greekIotadialytika
N greekAlphapsilivaria	N greekIotamacron
N greekAlphatonos	N greekIotapsili
N greekAlphavaria	N greekIotapsiliperispomeni
N greekAlphavrachy	N greekIotapsilitonos
N greekBeta	N greekIotapsilivaria
N greekChi	N greekIotatonos
N greekCoronis	N greekIotavaria
N greekDelta	N greekIotavrachy
N greekEpsilon	N greekKappa
N greekEpsilondasia	N greekLambda
N greekEpsilondasiatonos	N greekMu
N greekEpsilondasiavaria	N greekNu
N greekEpsilonpsili	N greekOmega
N greekEpsilonpsilitonos	N greekOmegadasia
N greekEpsilonpsilivaria	N greekOmegadasiaperispomeni
N greekEpsilontonos	N greekOmegadasiatonos
N greekEpsilonvaria	N greekOmegadasiavaria
N greekEta	N greekOmegaiotasub
N greekEtadasia	N greekOmegaiotasubdasia
N greekEtadasiaperispomeni	N greekOmegaiotasubdasiaperispomeni
N greekEtadasiatonos	N greekOmegaiotasubdasiatonos
N greekEtadasiavaria	N greekOmegaiotasubdasiavaria
N greekEtaiotasub	N greekOmegaiotasubpsili

N greek0Megaiotasubpsiliperispomeni	N greekalphaiotasub
N greek0Megaiotasubpsilitonos	N greekalphaiotasubdasia
N greek0Megaiotasubpsilivaria	N greekalphaiotasubdasiaperispomeni
N greek0Megapsili	N greekalphaiotasubdasiatonos
N greek0Megapsiliperispomeni	N greekalphaiotasubdasiavaria
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N greek0Megapsilivaria	N greekalphaiotasubpsili
N greek0Megatonos	N greekalphaiotasubpsiliperispomeni
N greek0Megavaria	N greekalphaiotasubpsilitonos
N greek0Micron	N greekalphaiotasubpsilivaria
N greek0Microndasia	N greekalphaiotasubtonos
N greek0Microndasiatonos	N greekalphaiotasubvaria
N greek0Microndasiavaria	N greekalphamacron
N greek0Micronpsili	N greekalphaoxia
N greek0Micronpsilitonos	N greekalphaperispomeni
N greek0Micronpsilivaria	N greekalphapsili
N greek0Microntonos	N greekalphapsiliperispomeni
N greek0Micronvaria	N greekalphapsilitonos
N greekPhi	N greekalphapsilivaria
N greekPi	N greekalphatonos
N greekPsi	N greekalphavaria
N greekRho	N greekalphavrachy
N greekRhodasia	N greekbeta
N greekSigma	N greekchi
N greekSigmaunate	N greekdasia
N greekTau	N greekdasiaperispomeni
N greekTheta	N greekdasiatonos
N greekUpsilon	N greekdasiavaria
N greekUpsilonlondasia	N greekdelta
N greekUpsilonlondasiaperispomeni	N greekdialytikaperispomeni
N greekUpsilonlondasiatonos	N greekdialytikatonos
N greekUpsilonlondasiavaria	N greekdialytikavaria
N greekUpsilondialytika	N greekdigamma
N greekUpsilonmacron	N greekepsilon
N greekUpsilonontonos	N greekepsilonalt
N greekUpsilonvaria	N greekepsilonlondasia
N greekUpsilonvrachy	N greekepsilonlondasiatonos
N greekXi	N greekepsilonlondasiavaria
N greekZeta	N greekepsilonnoxia
N greekalpha	N greekepsilonpsili
N greekalphadasia	N greekepsilonpsilitonos
N greekalphadasiaperispomeni	N greekepsilonpsilivaria
N greekalphadasiatonos	N greekepsilonlontonos
N greekalphadasiavaria	N greekepsilonlondasia

N greeketa	N greekiotavaria
N greeketadasia	N greekiotavrachy
N greeketadasiaaperispomeni	N greekkappa
N greeketadasiatonos	N greekkoppa
N greeketadasiaavaria	N greeklambda
N greeketaiotasub	N greekmu
N greeketaiotasubdasia	N greeknu
N greeketaiotasubdasiaperispomeni	N greeknumkoppa
N greeketaiotasubdasiatonos	N greekomega
N greeketaiotasubdasiavaria	N greekomegadasia
N greeketaiotasubperispomeni	N greekomegadasiaaperispomeni
N greeketaiotasubpsili	N greekomegadasiatonos
N greeketaiotasubpsiliperispomeni	N greekomegadasiaavaria
N greeketaiotasubpsilitonos	N greekomegaiotasub
N greeketaiotasubpsilivaria	N greekomegaiotasubdasia
N greeketaiotasubtonos	N greekomegaiotasubdasiaperispomeni
N greeketaiotasubvaria	N greekomegaiotasubdasiatonos
N greeketaoxia	N greekomegaiotasubdasiavaria
N greeketaperispomeni	N greekomegaiotasubperispomeni
N greeketapsili	N greekomegaiotasubpsili
N greeketapsiliperispomeni	N greekomegaiotasubpsiliperispomeni
N greeketapsilitonos	N greekomegaiotasubpsilitonos
N greeketapsilivaria	N greekomegaiotasubpsilivaria
N greeketatonos	N greekomegaiotasubtonos
N greeketavaria	N greekomegaiotasubvaria
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N greekiotadasia	N greekomegapsiliperispomeni
N greekiotadasiaaperispomeni	N greekomegapsilitonos
N greekiotadasiatonos	N greekomegapsilivaria
N greekiotadasiaavaria	N greekomegatonos
N greekiotadialytika	N greekomegavaria
N greekiotadialytikaperispomeni	N greekomicron
N greekiotadialytikatonos	N greekomicrondasia
N greekiotadialytikavaria	N greekomicrondasiatonos
N greekiotamacron	N greekomicrondasiavaria
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N greekiotapsili	N greekomicronpsilitonos
N greekiotapsiliperispomeni	N greekomicronpsilivaria
N greekiotapsilitonos	N greekomicrontonos
N greekiotapsilivaria	N greekomicronvaria
N greekiotatonos	N greekoxia

N greekperispomeni	N greekzeta
N greekphi	N gstroke
N greekphialt	N guilsingleleft
N greekpi	N guilsingleright
N greekpialt	N hairspace
N greekprosgegrammeni	N hcaron
N greekpsi	N hcircumflex
N greekpsili	N hebrewAlef
N greekpsiliperispomeni	N hebrewAyin
N greekpsilitonos	N hebrewBet
N greekpsilivaria	N hebrewDalet
N greekrho	N hebrewGimel
N greekrhoalt	N hebrewHe
N greekrhodasia	N hebrewHet
N greekrhopsili	N hebrewKaf
N greeksampi	N hebrewKaffinal
N greeksigma	N hebrewLamed
N greeksigmalunate	N hebrewMem
N greekstigma	N hebrewMemfinal
N greektau	N hebrewNun
N greektheta	N hebrewNunfinal
N greekthetaalt	N hebrewPe
N greektonos	N hebrewPefinal
N greekupsilon	N hebrewQof
N greekupsilondasia	N hebrewResh
N greekupsilondasiaperispomeni	N hebrewSamekh
N greekupsilondasiatonos	N hebrewShin
N greekupsilondasiavaria	N hebrewTav
N greekupsilondiaeresis	N hebrewTet
N greekupsilondialytikaperispomeni	N hebrewTsadi
N greekupsilondialytikatonos	N hebrewTsadifinal
N greekupsilondialytikavaria	N hebrewVav
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N greekupsilonoxia	N hebrewZayin
N greekupsilonperispomeni	N hstroke
N greekupsilonpsili	N iacute
N greekupsilonpsiliperispomeni	N ibreve
N greekupsilonpsilitonos	N icaron
N greekupsilonpsilivaria	N icircumflex
N greekupsilontonos	N ideographichalffillspace
N greekupsilonvaria	N ideographicspace
N greekupsilonvrachy	N idiaeresis
N greekvaria	N idotaccent
N greekxi	N idotbelow



N idoublegrave  
N igrave  
N ihook  
N iinvertedbreve  
N ijligature  
N imacron  
N iogonek  
N itilde  
N jcaron  
N jcircumflex  
N kcaron  
N kcommaaccent  
N khook  
N kkra  
N lacute  
N lbar  
N lcaron  
N lcommaaccent  
N lcurl  
N ldotmiddle  
N leftguillemot  
N ljligature  
N lstroke  
N medspace  
N nacute  
N napostrophe  
N narrownobreakspace  
N ncaron  
N ncommaaccent  
N ncurl  
N neng  
N ngrave  
N njligature  
N nobreakspace  
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N oacute  
N obreve  
N ocaron  
N ocircumflex  
N ocircumflexacute  
N ocircumflexdotbelow  
N ocircumflexgrave  
N ocircumflexhook  
N ocircumflextilde

N odiaeresis  
N odiaeresismacron  
N odotaccent  
N odotaccentmacron  
N odotbelow  
N odoublegrave  
N oeligature  
N ograve  
N ohook  
N ohorn  
N ohornacute  
N ohorndotbelow  
N ohorngrave  
N ohornhook  
N ohorntilde  
N ohungarumlaut  
N oinvertedbreve  
N omacron  
N oneeighth  
N onefifth  
N onehalf  
N onequarter  
N onesixth  
N onesuperior  
N onethird  
N oogonek  
N oogonekmacron  
N ordfeminine  
N ordmasculine  
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N ostrokeacute  
N otilde  
N otildemacron  
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N perthousand  
N phook  
N punctuationspace  
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N quotedblbase  
N quotedblleft  
N quotedblright  
N quoteleft

N quoteright	N scedilla
N quotesingle	N schwa
N quotesinglebase	N schwahook
N racute	N scircumflex
N rcaron	N scommaaccent
N rcommaaccent	N sectionmark
N rdoublegrave	N seveneighths
N registered	N sixperemspace
N rightguillemot	N slong
N rinvertedbreve	N softthyphen
N romanC	N ssharp
N romanD	N stligature
N romanI	N tcaron
N romanII	N tcedilla
N romanIII	N tcommaaccent
N romanIV	N tcurl
N romanIX	N textAngstrom
N romanL	N textacute
N romanM	N textampersand
N romanV	N textasciicircum
N romanVI	N textasciitilde
N romanVII	N textat
N romanVIII	N textbackslash
N romanX	N textbar
N romanXI	N textbottomcomma
N romanXII	N textbottomdot
N romanc	N textbraceleft
N romand	N textbraceright
N romani	N textbreve
N romanii	N textbrokenbar
N romaniii	N textbullet
N romaniv	N textcaron
N romanix	N textcedilla
N romanl	N textcelsius
N romanm	N textcent
N romanv	N textcircledP
N romanvi	N textcircumflex
N romanvii	N textcomma
N romanviii	N textcurrency
N romanx	N textdag
N romanxi	N textddag
N romanxii	N textdegree
N sacute	N textdiaeresis
N scaron	N textdiv

N textdollar	N ubreve
N textdong	N ucaron
N textdotaccent	N ucircumflex
N textellipsis	N udiaeresis
N texteuro	N udiaeresisacute
N textfraction	N udiaeresiscaron
N textgrave	N udiaeresisgrave
N texthash	N udiaeresismacron
N texthorizontalbar	N udotbelow
N texthungarumlaut	N udoublegrave
N texthyphen	N ugrave
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N textlognot	N uhorn
N textmacron	N uhornacute
N textmho	N uhorndotbelow
N textminus	N uhorngrave
N textmu	N uhornhook
N textmultiply	N uhorntilde
N textnumero	N uhungarumlaut
N textogonek	N uinvertedbreve
N textohm	N umacron
N textounce	N uogonek
N textpercent	N uring
N textperiod	N utilde
N textpm	N wcircumflex
N textring	N yacute
N textslash	N ycircumflex
N textsterling	N ydiaeresis
N texttilde	N ydotbelow
N textunderscore	N ygrave
N textyen	N yhook
N thook	N ymacron
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N threequarter	N zerowidthnobreospace
N threesuperior	N zerowidthspace
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N tstroke	N zstroke
N twofifths	N zwj
N twosuperior	N zwnj
N twothirds	F is_known
N uacute	D known

F load	N Atilde
F make_unicode_vector	N Aybarmenian
D math	N B
T names	N Bcircle
T unicodes	N Bdotaccent
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N AE	N Becyrillic
N AEacute	N Benarmenian
N AEmacron	N Beta
N Aacute	N Bhook
N Abreve	N Blinebelow
N Abreveacute	N Bmonospace
N Abrevecyrillic	N Btopbar
N Abrevedotbelow	N C
N Abrevegrave	N Caarmenian
N Abrevehookabove	N Cacute
N Abrevetilde	N Ccaron
N Acaron	N Ccedilla
N Acircle	N Ccedillaacute
N Acircumflex	N Ccircle
N Acircumflexacute	N Ccircumflex
N Acircumflexdotbelow	N Cdot
N Acircumflexgrave	N Cdotaccent
N Acircumflexhookabove	N Chaarmenian
N Acircumflextilde	N Cheabkhasiancyrillic
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N Adieresiscyrillic	N Chedieresiscyrillic
N Adieresismacron	N Cheharmenian
N Adotbelow	N Chekhakassiancyrillic
N Adotmacron	N Cheverticalstrokecyrillic
N Agrave	N Chi
N Ahookabove	N Chook
N Aiecyrillic	N Cmonospace
N Ainvertedbreve	N Coarmenian
N Alpha	N D
N Alphanotos	N DZ
N Amacron	N DZcaron
N Amonospace	N Daarmenian
N Aogonek	N Dafrican
N Aring	N Dcaron
N Aringacute	N Dcedilla
N Aringbelow	N Dcircle

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N Edotbelow  
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N Egrave  
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N Ehookabove

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N Epsilontonos  
N Ercyrillic  
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N Ereversedcyrillic  
N Escyrillic  
N Esdescendercyrillic  
N Esh  
N Eta  
N Etarmenian  
N Etatonos  
N Eth  
N Etilde  
N Etildebelow  
N Euro  
N Ezh  
N Ezhcaron  
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N Feicoptic  
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N Fourroman	N Hmonospace
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N Gammaafrican	N IAcyrillic
N Gangiacoptic	N IJ
N Gbreve	N IUcyrillic
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N Ghestrokecyrillic	N Idot
N Gheupturncyrillic	N Idotaccent
N Ghook	N Idotbelow
N Gimarmenian	N Iebrevecyrillic
N Gjecyrillic	N Iecyrillic
N Gmacron	N Ifraktur
N Gmonospace	N Igrave
N Gsmallhook	N Ihookabove
N Gstroke	N Iicyrillic
N H	N Iinvertedbreve
N H18533	N Iishortcyrillic
N H18543	N Imacron
N H18551	N Imacroncyrillic
N H22073	N Imonospace
N HPSquare	N Iniarmenian
N Haabkhasiancyrillic	N Iocyrillic
N Hadescendercyrillic	N Iogonek
N Hardsigncyrillic	N Iota
N Hbar	N Iotaafrican
N Hbrevebelow	N Iotadieresis
N Hcedilla	N Iotatonos
N Hcircle	N Istroke
N Hcircumflex	N Itilde
N Hdieresis	N Itildebelow
N Hdotaccent	N Izhitsacyrillic
N Hdotbelow	N Izhitsadblgravecyrillic

N J	N Ldotaccent
N Jaarmenian	N Ldotbelow
N Jcircle	N Ldotbelowmacron
N Jcircumflex	N Liwnarmenian
N Jecyrillic	N Lj
N Jheharmenian	N Ljecyrillic
N Jmonospace	N Llinebelow
N K	N Lmonospace
N KBsquare	N Lslash
N Kksquare	N M
N Kabashkircyrillic	N MBsquare
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N Kadescendercyrillic	N Mdotaccent
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N Kappa	N Menarmenian
N Kastrokecyrillic	N Mmonospace
N Kaverticalsecyrillic	N Mturned
N Kcaron	N Mu
N Kcedilla	N N
N Kcircle	N NJ
N Kcommaaccent	N Nacute
N Kdotbelow	N Ncaron
N Keharmenian	N Ncedilla
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N Khacyrillic	N Ncircumflexbelow
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N Khook	N Ndotaccent
N Kjecyrillic	N Ndotbelow
N Klinebelow	N Nhookleft
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N Koppacyrillic	N Nj
N Koppagreek	N Njecyrillic
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N L	N Nmonospace
N LJ	N Nowarmenian
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N Lambda	N Nu
N Lcaron	N O
N Lcedilla	N OE
N Lcircle	N Oacute
N Lcircumflexbelow	N Obarredcyrillic
N Lcommaaccent	N Obarreddieresiscyrillic
N Ldot	N Obreve

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N Ocenteredtilde	N Oslashacute
N Ocircle	N Ostrokeacute
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N Ocircumflexdotbelow	N Otildeacute
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N Ograve	N Phook
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N Ohm	N Piwrarmenian
N Ohookabove	N Pmonospace
N Ohorn	N Psi
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N Ohorndotbelow	N Q
N Ohorngrave	N Qcircle
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N Ohorntilde	N R
N Ohungarumlaut	N Raarmenian
N Oi	N Racute
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N Omacron	N Rcedilla
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N Omegagreek	N Rdotbelow
N Omegaroundcyrillic	N Rdotbelowmacron
N Omegatitlocyrillic	N Recharmenian
N Omegatonos	N Rfraktur
N Omicron	N Rho
N Omicrontonos	N Rinvertedbreve
N Omonospace	N Rlinebelow
N Oneroman	N Rmonospace
N Oogonek	N Rsmallinverted
N Oogonekmacron	N Rsmallinvertedsuperior
N Oopen	N S



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N Seharmerian  
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N Shaarmenian  
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N Sheicoptic  
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N Shimacoptic  
N Sigma  
N Sixroman  
N Smonospace  
N Softsigncyrillic  
N Stigmagreek  
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N Tau  
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N Tcaron  
N Tcedilla  
N Tcircle  
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N Tetsecyrillic  
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N Thorn  
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N Tiwnarmenian  
N Tlinebelow  
N Tmonospace  
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N Tonefive  
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N Tretroflexhook  
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N Udieresismacron  
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N Ugrave  
N Uhookabove  
N Uhorn  
N Uhornacute  
N Uhorndotbelow  
N Uhorngrave  
N Uhornhookabove

N Uhorntilde  
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N Uhungarumlautcyrillic  
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N Utilde  
N Utildeacute  
N Utildebelow  
N V  
N Vcircle  
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N Vtilde  
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N Wdotaccent  
N Wdotbelow  
N Wgrave  
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N X

N Xcircle	N Zhedescendercyrillic
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N Yericyrillic	N aavowelsigndeva
N Yerudieresiscyrillic	N aavowelsigngujarati
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N Yhook	N abbreviationsigndeva
N Yhookabove	N abengali
N Yiarmenian	N abopomofo
N Yicyrillic	N abreve
N Yiwnarmenian	N abreveacute
N Ymonospace	N abrevecyrillic
N Ytilde	N abrevedotbelow
N Yusbigcyrillic	N abrevegrave
N Yusbigiotifiedcyrillic	N abrevehookabove
N Yuslittlecyrillic	N abrevetilde
N Yuslittleiotifiedcyrillic	N acaron
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N Zaarmenian	N acircumflex
N Zacute	N acircumflexacute
N Zcaron	N acircumflexdotbelow
N Zcircle	N acircumflexgrave
N Zcircumflex	N acircumflexhookabove
N Zdot	N acircumflextilde
N Zdotaccent	N acute
N Zdotbelow	N acutebelowcmb
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N Zedescendercyrillic	N acutecomb
N Zedieresiscyrillic	N acutedeva
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N Zhearmanian	N acutetonecmb
N Zhebrevecyrillic	N acyrillic
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N afii57685	N ahiragana
N afii57686	N ahookabove
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N afii57688	N aibopomofo
N afii57689	N aideva
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N aimatragurmukhi	N anglebracketleftvertical
N ainarabic	N anglebracketright
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N aininitialarabic	N angleleft
N ainmedialarabic	N angleright
N ainvertedbreve	N angstrom
N aivowelsignbengali	N anoteleia
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N akatakana	N anusvaradeva
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N alef	N apaatosquare
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N alefdageshhebrew	N apostrophearmenian
N aleffinalarabic	N apostrophemod
N alefhamzaaboveearabic	N apple
N alefhamzaabovefinalarabic	N approaches
N alefhamzabelowarabic	N approxequal
N alefhamzabelowfinalarabic	N approxequalorimage
N alefhebrew	N approximatelyequal
N aleflamedhebrew	N araeaekorean
N alefmaddaaboveearabic	N araeakorean
N alefmaddaabovefinalarabic	N arc
N alefmaksuraarabic	N arighthalfring
N alefmaksurafinalarabic	N aring
N alefmaksurainitialarabic	N aringacute
N alefmaksuramedialarabic	N aringbelow
N alefpatahhebrew	N arrowboth
N alefqamatshebrew	N arrowdashdown
N aleph	N arrowdashleft
N allequal	N arrowdashright
N alpha	N arrowdashup
N alphanotos	N arrowdblboth
N amacron	N arrowdbldown
N amonospace	N arrowdblleft
N ampersand	N arrowdblright
N ampersandmonospace	N arrowdblup
N amsquare	N arrowdown
N anbopomofo	N arrowdownleft
N angbopomofo	N arrowdownright
N angkhankhuthai	N arrowdownwhite
N angle	N arrowheaddownmod
N anglebracketleft	N arrowheadleftmod

N arrowheadrightmod	N aubengali
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N arrowrightwhite	N aybarmenian
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N arrowup	N ayinhebrew
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N arrowupdnbse	N babengali
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N arrowupleft	N backslashmonospace
N arrowupleftofdown	N badeva
N arrowupright	N bagujarati
N arrowupwhite	N bagurmukhi
N asciicircum	N bahiragana
N asciicircummonospace	N bahtthai
N asciitilde	N bakatakana
N asciitildemonospace	N bar
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N at	N behmeeminitialarabic
N atilde	N behmeemisolatedarabic
N atmonospace	N behnoonfinalarabic
N atsmall	N bekatakana
N aturned	N benarmenian



N bet	N bohiragana
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N bethebrew	N braceleftmonospace
N betrafehebrew	N braceleftsmall
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N bhadeva	N braceright
N bhagujarati	N bracerightmonospace
N bhagurmukhi	N bracerightsmall
N bhook	N bracerightvertical
N bihiragana	N bracketleft
N bikatakana	N bracketleftmonospace
N bilabialclick	N bracketright
N bindigurmukhi	N bracketrightmonospace
N birusquare	N breve
N blackcircle	N brevebelowcmb
N blackdiamond	N brevecmb
N blackdownpointingtriangle	N breveinvertedbelowcmb
N blackleftpointingpointer	N breveinvertedcmb
N blackleftpointingtriangle	N breveinverteddoublecmb
N blacklenticularbracketleft	N bridgebelowcmb
N blacklenticularbracketleftvertical	N bridgeinvertedbelowcmb
N blacklenticularbracketright	N brokenbar
N blacklenticularbracketrightvertical	N bstroke
N blacklowerlefttriangle	N btopbar
N blacklowerrighttriangle	N buhiragana
N blackrectangle	N bukatakana
N blackrightpointingpointer	N bullet
N blackrightpointingtriangle	N bulletinverse
N blacksmallsquare	N bulletoperator
N blacksmilingface	N bullseye
N blacksquare	N c
N blackstar	N caarmenian
N blackupperlefttriangle	N cabengali
N blackupperrighttriangle	N cacute
N blackuppointingsmalltriangle	N cadeva
N blackuppointingtriangle	N cagujarati
N blank	N cagurmukhi
N blinebelow	N calsquare
N block	N candrabindubengali
N bmonospace	N candrabinducmb
N bobaimaithai	N candrabindudeva

N candrabindugujarati	N chochanthai
N capslock	N chochingthai
N careof	N chochoethai
N caron	N chook
N caronbelowcmb	N cieucacirclekorean
N caroncmb	N cieucaparenkorean
N carriagereturn	N cieuccirclekorean
N cbopomofo	N cieuckorean
N ccaron	N cieucparenkorean
N ccedilla	N cieucuparenkorean
N ccedillaacute	N circle
N ccircle	N circlemultiply
N ccircumflex	N circleot
N ccurl	N circleplus
N cdot	N circlepostalmark
N cdotaccent	N circlewithlefthalfblack
N cdsquare	N circlewithrighthalfblack
N cedilla	N circumflex
N cedillacmb	N circumflexbelowcmb
N cent	N circumflexcmb
N centigrade	N clear
N centmonospace	N clickalveolar
N chaarmenian	N clickdental
N chabengali	N clicklateral
N chadeva	N clickretroflex
N chagujarati	N club
N chagurmukhi	N clubsuitblack
N chbopomofo	N clubsuitwhite
N cheabkhasiancyrillic	N cmcubedsquare
N checkmark	N cmonospace
N checyrillic	N cmsquaredsquare
N chedescenderabkhasiancyrillic	N coarmenian
N chedescendercyrillic	N colon
N chedieresiscyrillic	N colonmonetary
N cheharmenian	N colonmonospace
N chekhakassiancyrillic	N colonsign
N cheverticalstrokecyrillic	N colonsmall
N chi	N colontriangularhalfmod
N chieuchacirclekorean	N colontriangulararmod
N chieuchaparenkorean	N comma
N chieuchcirclekorean	N commaabovecmb
N chieuchkorean	N commaaboverightcmb
N chieuchparenkorean	N commaarabic
N chochangthai	N commaarmenian

N commamonospace	N cornerbracketlefthalfwidth
N commareversedabovemb	N cornerbracketleftvertical
N commareversedmod	N cornerbracketright
N commasmall	N cornerbracketrighthalfwidth
N commaturnedabovemb	N cornerbracketrightvertical
N commaturnedmod	N corporationsquare
N compass	N cosquare
N congruent	N coverkgsquare
N contourintegral	N cparen
N control	N cruzeiro
N controlACK	N cstretched
N controlBEL	N curlyand
N controlBS	N curlyor
N controlCAN	N currency
N controlCR	N d
N controlDC1	N daarmenian
N controlDC2	N dabengali
N controlDC3	N dadarabic
N controlDC4	N dadeva
N controlDEL	N dadfinalarabic
N controlDLE	N dadinitialarabic
N controlEM	N dadmedialarabic
N controlENQ	N dagesh
N controlEOT	N dageshhebrew
N controlESC	N dagger
N controlETB	N daggerdbl
N controlETX	N dagujarati
N controlFF	N dagurmukhi
N controlFS	N dahiragana
N controlGS	N dakatakana
N controlHT	N dalarabic
N controlLF	N dalet
N controlNAK	N daletdagesh
N controlRS	N daletdageshhebrew
N controlSI	N dalethatafpatah
N controlSO	N dalethatafpatahhebrew
N controlSOT	N dalethatafsegol
N controlSTX	N dalethatafsegolhebrew
N controlSUB	N dalethebrew
N controlSYN	N dalethiriq
N controlUS	N dalethiriqhebrew
N controlVT	N daletholam
N copyright	N daletholamhebrew
N cornerbracketleft	N daletpatah

N daletpatahhebrew	N ddadeva
N daletqamats	N ddagujarati
N daletqamatshebrew	N ddagurmukhi
N daletqubuts	N ddalarabic
N daletqubutshbrew	N ddalfinalarabic
N daletsegol	N dddhadeva
N daletsegolhebrew	N ddhabengali
N daletsheva	N ddhadeva
N daletshevahebrew	N ddhagujarati
N dalettsera	N ddhagurmukhi
N dalettserahebrew	N ddotaccent
N dalfinalarabic	N ddotbelow
N dammaarabic	N decimalseparatorarabic
N dammalowarabic	N decimalseparatorpersian
N dammatanaltonearabic	N decyrillic
N dammatanarabic	N degree
N danda	N dehihebrew
N dargahebrew	N dehiragana
N dargalefthebrew	N deicoptic
N dasiapneumatacyrillicmb	N dekatakana
N dblanglebracketleft	N deleteleft
N dblanglebracketleftvertical	N deleteright
N dblanglebracketright	N delta
N dblanglebracketrightvertical	N deltaturned
N dblarchinvertedbelowcmb	N denominatorminusonenumeratorbengali
N dblarrowleft	N dezh
N dblarrowright	N dhabengali
N dbldanda	N dhadeva
N dblgravecmb	N dhagujarati
N dblintegral	N dhagurmukhi
N dbllowline	N dhook
N dbllowlinecmb	N dialytikatonos
N dbloverlinecmb	N dialytikatonoscmb
N dblprimemod	N diamond
N dblverticalbar	N diamondsuitwhite
N dblverticallineabovecmb	N dieresis
N dbopomofo	N dieresisbelowcmb
N dbsquare	N dieresiscmb
N dcaron	N dieresistonos
N dcedilla	N dihiragana
N dcircle	N dikatakana
N dcircumflexbelow	N dittomark
N dcroat	N divide
N ddabengali	N divides

N divisionslash  
 N djecyrillic  
 N dkshade  
 N dlinebelow  
 N dlsquare  
 N dmacron  
 N dmonospace  
 N dnblock  
 N dochadathai  
 N dodekthai  
 N dohiragana  
 N dokatakana  
 N dollar  
 N dollarmonospace  
 N dollarsmall  
 N dong  
 N dorussquare  
 N dotaccent  
 N dotaccentcmb  
 N dotbelowcmb  
 N dotbelowcomb  
 N dotkatakana  
 N dotlessi  
 N dotlessj  
 N dotlessjstrokehook  
 N dotmath  
 N dottedcircle  
 N doubleyodpatah  
 N doubleyodpatahhebrew  
 N downtackbelowcmb  
 N downtackmod  
 N dparen  
 N dtail  
 N dtopbar  
 N duhiragana  
 N dukatakana  
 N dz  
 N dzaltone  
 N dzcaron  
 N dzcurl  
 N dzeabkhasiancyrillic  
 N dzecyrillic  
 N dzhecyrillic  
 N e

N eacute  
 N earth  
 N ebengali  
 N ebopomofo  
 N ebreve  
 N ecandradeva  
 N ecandragujarati  
 N ecandravowelsigndeva  
 N ecandravowelsigngujarati  
 N ecaron  
 N ecedillabreve  
 N echarmenian  
 N echyiwnarmenian  
 N ecircle  
 N ecircumflex  
 N ecircumflexacute  
 N ecircumflexbelow  
 N ecircumflexdotbelow  
 N ecircumflexgrave  
 N ecircumflexhookabove  
 N ecircumflextilde  
 N ecyrillic  
 N edblgrave  
 N edeva  
 N edieresis  
 N edot  
 N edotaccent  
 N edotbelow  
 N eegurmukhi  
 N eematragurmukhi  
 N efcyrillic  
 N egrave  
 N egujarati  
 N eharmenian  
 N ehbopomofo  
 N ehiragana  
 N ehookabove  
 N eibopomofo  
 N eight  
 N eightarabic  
 N eightbengali  
 N eightcircle  
 N eightcircleinversesansserif  
 N eightdeva

N eighteencircle  
N eighteenparen  
N eighteenperiod  
N eightgujarati  
N eightgurmukhi  
N eighthackarabic  
N eighthangzhou  
N eighthnotebeamed  
N eightideographicparen  
N eightinferior  
N eightmonospace  
N eightparen  
N eightperiod  
N eightpersian  
N eightroman  
N eightsuperior  
N eightthai  
N einvertedbreve  
N eiotifiedcyrillic  
N ekatakana  
N ekatakanahalfwidth  
N ekonkargurmukhi  
N ekorean  
N elcyrillic  
N element  
N elevencircle  
N elevenparen  
N elevenperiod  
N elevenroman  
N ellipsis  
N ellipsisvertical  
N emacron  
N emacronacute  
N emacrongrave  
N emcyrillic  
N emdash  
N emdashvertical  
N emonospace  
N emphasismarkarmenian  
N emptyset  
N enbopomofo  
N encyrillic  
N endash  
N endashvertical

N endescendercyrillic  
N eng  
N engbopomofo  
N enghecyrillic  
N enhookcyrillic  
N enspace  
N eogonek  
N eokorean  
N eopen  
N eopenclosed  
N eopenreversed  
N eopenreversedclosed  
N eopenreversedhook  
N eparen  
N epsilon  
N epsilontonos  
N equal  
N equalmonospace  
N equalsmall  
N equalsuperior  
N equivalence  
N erbopomofo  
N ercyrillic  
N ereversed  
N ereversedcyrillic  
N escyrillic  
N esdescendercyrillic  
N esh  
N eshcurl  
N eshortdeva  
N eshortvowelsigndeva  
N eshreversedloop  
N eshsquatreversed  
N esmallhiragana  
N esmallkatakana  
N esmallkatakanahalfwidth  
N estimated  
N eta  
N etarmenian  
N etatonos  
N eth  
N etilde  
N etildebelow  
N etnahtafoukhhebrew

N etnahtafoukhlefthebrew  
N etnahtahebrew  
N etnahtalefthebrew  
N eturned  
N eukorean  
N euro  
N evowelsignbengali  
N evowelsigndeva  
N evowelsingujarati  
N exclam  
N exclamarmenian  
N exclamdbl  
N exclamdown  
N exclammonospace  
N existential  
N ezh  
N ezhcaron  
N ezhcurl  
N ezhreversed  
N ezhtail  
N f  
N fadeva  
N fagurmukhi  
N fahrenheit  
N fathaarabic  
N fathalowarabic  
N fathatanarabic  
N fbopomofo  
N fcircle  
N fdotaccent  
N feharabic  
N feharmenian  
N fehfinalarabic  
N fehinitialarabic  
N fehmedialarabic  
N feicoptic  
N female  
N ff  
N ffi  
N ffl  
N fi  
N fifteencircle  
N fifteenparen  
N fifteenperiod

N figuredash  
N filledbox  
N filledrect  
N finalkaf  
N finalkafdagesh  
N finalkafdageshhebrew  
N finalkafhebrew  
N finalkafqamats  
N finalkafqamatshebrew  
N finalkafsheva  
N finalkafshevahebrew  
N finalmem  
N finalmemhebrew  
N finalnun  
N finalnunhebrew  
N finalpe  
N finalpehebrew  
N finaltsadi  
N finaltsadihebrew  
N firsttonechinese  
N fisheye  
N fitacyrillic  
N five  
N fivearabic  
N fivebengali  
N fivecircle  
N fivecircleinversesansserif  
N fivedeva  
N fiveeighths  
N fivegujarati  
N fivegurmukhi  
N fivehackarabic  
N fivehangzhou  
N fiveideographicparen  
N fiveinferior  
N fivemonospace  
N fiveparen  
N fiveperiod  
N fivepersian  
N fiveroman  
N fivesuperior  
N fivethai  
N fl  
N florin

N fmonospace  
 N fmsquare  
 N fofanthai  
 N fofathai  
 N fongmanthai  
 N forall  
 N four  
 N fourarabic  
 N fourbengali  
 N fourcircle  
 N fourcircleinversesansserif  
 N fourdeva  
 N fourgujarati  
 N fourgurmukhi  
 N fourhackarabic  
 N fourhangzhou  
 N fourideographicparen  
 N fourinferior  
 N fourmonospace  
 N fournumeratorbengali  
 N fourparen  
 N fourperiod  
 N fourpersian  
 N fourroman  
 N foursuperior  
 N fourteencircle  
 N fourteenparen  
 N fourteenperiod  
 N fourthai  
 N fourthtonechinese  
 N fparen  
 N fraction  
 N franc  
 N g  
 N gabengali  
 N gacute  
 N gadeva  
 N gafarabic  
 N gaffinalarabic  
 N gafinitialarabic  
 N gafmedialarabic  
 N gagujarati  
 N gagurmukhi  
 N gahiragana

N gakatakana  
 N gamma  
 N gammalatinsmall  
 N gammasuperior  
 N gangiacoptic  
 N gbopomofo  
 N gbreve  
 N gcaron  
 N gcedilla  
 N gcircle  
 N gcircumflex  
 N gcommaaccent  
 N gdot  
 N gdotaccent  
 N gecyrillic  
 N gehiragana  
 N gekatakana  
 N geometricallyequal  
 N gereshaccenthebrew  
 N gereshebrew  
 N gereshmuqdamhebrew  
 N germandbls  
 N gershayimaccenthebrew  
 N gershayimhebrew  
 N getamark  
 N ghabengali  
 N ghadarmenian  
 N ghadeva  
 N ghagujarati  
 N ghagurmukhi  
 N ghainarabic  
 N ghainfinalarabic  
 N ghaininitialarabic  
 N ghainmedialarabic  
 N ghemiddlehookcyrillic  
 N ghestrokecyrillic  
 N gheupturncyrillic  
 N ghadeva  
 N ghagurmukhi  
 N ghook  
 N ghzsquare  
 N gihiragana  
 N gikatakana  
 N gimarmenian



N gimel	N gukatakana
N gimeldagesh	N guramusquare
N gimeldageshhebrew	N gysquare
N gimelhebrew	N h
N gjecyrillic	N haabkhasiancyrillic
N glottalinvertedstroke	N haaltonearabic
N glottalstop	N habengali
N glottalstopinverted	N hadescendercyrillic
N glottalstopmod	N hadeva
N glottalstopreversed	N hagujarati
N glottalstopreversedmod	N hagurmukhi
N glottalstopreversedsuperior	N haharabic
N glottalstopstroke	N hahfinalarabic
N glottalstopstrokereversed	N hahinitialarabic
N gmacron	N hahiragana
N gmonospace	N hahmedialarabic
N gohiragana	N haitusquare
N gokatakana	N hakatakana
N gparen	N hakatakanahalfwidth
N gpasquare	N halantgurmukhi
N gradient	N hamzaarabic
N grave	N hamzadammaarabic
N gravebelowcmb	N hamzadammatanarabic
N gravecmb	N hamzafathaarabic
N gravecomb	N hamzafathatanarabic
N gravedeva	N hamzalowarabic
N gravelowmod	N hamzalowkasraarabic
N gravemonospace	N hamzalowkasratanarabic
N gravetonecmb	N hamzasukunarabic
N greater	N hangulfiller
N greaterequal	N hardsigncyrillic
N greaterequalorless	N harpoonleftbarbup
N greatermonospace	N harpoonrightbarbup
N greaterorequivalent	N hasquare
N greaterorless	N hatafpatah
N greateroverequal	N hatafpatah16
N greatersmall	N hatafpatah23
N gscript	N hatafpatah2f
N gstroke	N hatafpatahhebrew
N guhiragana	N hatafpatahnarrowhebrew
N guillemotleft	N hatafpatahquarterhebrew
N guillemotright	N hatafpatahwidehebrew
N guilsinglleft	N hatafqamats
N guilsinglright	N hatafqamats1b

N hatafqamats28	N hekatakanahalfwidth
N hatafqamats34	N hekutaarusquare
N hatafqamatshebrew	N henghook
N hatafqamatsnarrowhebrew	N herutusquare
N hatafqamatsquarterhebrew	N het
N hatafqamatswidehebrew	N hethebrew
N hatafsegol	N hhook
N hatafsegol17	N hhooksuperior
N hatafsegol24	N hieuhacirclekorean
N hatafsegol30	N hieuhaparenkorean
N hatafsegolhebrew	N hieuhcirclekorean
N hatafsegolnarrowhebrew	N hieuhkorean
N hatafsegolquarterhebrew	N hieuhparenkorean
N hatafsegolwidehebrew	N hihiragana
N hbar	N hikatakana
N hbopomofo	N hikatakanahalfwidth
N hbrevebelow	N hiriq
N hcedilla	N hiriql4
N hcircle	N hiriql21
N hcircumflex	N hiriql2d
N hdieresis	N hiriqhebrew
N hdotaccent	N hiriqnarrowhebrew
N hdotbelow	N hiriqqarterhebrew
N he	N hiriqwidehebrew
N heart	N hlinebelow
N heartsuitblack	N hmonospace
N heartsuitwhite	N hoarmenian
N hedagesh	N hohipthai
N hedageshhebrew	N hohiragana
N hehalthtonearabic	N hokatakana
N heharabic	N hokatakanahalfwidth
N hehebrew	N holam
N hehfinalalttonearabic	N holam19
N hehfinalalttwoarabic	N holam26
N hehfinalarabic	N holam32
N hehhamzaabovefinalarabic	N holamhebrew
N hehhamzaaboveisolatedarabic	N holamnarrowhebrew
N hehinitialalttonearabic	N holamquarterhebrew
N hehinitialarabic	N holamwidehebrew
N hehiragana	N honokhukthai
N hehmedialalttonearabic	N hookabovecomb
N hehmedialarabic	N hookcmb
N heiseierasquare	N hookpalatalizedbelowcmb
N hekatakana	N hookretroflexbelowcmb

N hoonsquare	N ideographicfestivalparen
N horicoptic	N ideographicfinancialcircle
N horizontalbar	N ideographicfinancialparen
N horncmb	N ideographicfireparen
N hotsprings	N ideographichaveparen
N house	N ideographichighcircle
N hparen	N ideographiciterationmark
N hsuperior	N ideographiclaborcircle
N hturned	N ideographiclaborparen
N huhiragana	N ideographicleftcircle
N huitosquare	N ideographiclowcircle
N hukatakana	N ideographicmedicinecircle
N hukatakanahalfwidth	N ideographicmetalparen
N hungarumlaut	N ideographicmoonparen
N hungarumlautcmb	N ideographicnameparen
N hv	N ideographicperiod
N hyphen	N ideographicprintcircle
N hyphenmonospace	N ideographicreachparen
N hyphensmall	N ideographicrepresentparen
N hyphentwo	N ideographicresourceparen
N i	N ideographicrightcircle
N iacute	N ideographicsecretcircle
N iacyrillic	N ideographicselfparen
N ibengali	N ideographicsocietyparen
N ibopomofo	N ideographicspace
N ibreve	N ideographicspecialparen
N icaron	N ideographicstockparen
N icircle	N ideographicstudyparen
N icircumflex	N ideographicsunparen
N icyrillic	N ideographicsuperviseparen
N idblgrave	N ideographicwaterparen
N ideographearthcircle	N ideographicwoodparen
N ideographfirecircle	N ideographiczero
N ideographicallianceparen	N ideographmetalcircle
N ideographiccallparen	N ideographmooncircle
N ideographiccentrecircle	N ideographnamecircle
N ideographicclose	N ideographsuncircle
N ideographiccomma	N ideographwatercircle
N ideographiccommaleft	N ideographwoodcircle
N ideographiccongratulationparen	N ideva
N ideographiccorrectcircle	N idieresis
N ideographicearthparen	N idieresisacute
N ideographicenterpriseparen	N idieresiscyrillic
N ideographicexcellentcircle	N idotbelow

N iebrevecyrillic	N invbullet
N iecyrillic	N invcircle
N ieungacirclekorean	N invsmileface
N ieungaparenkorean	N iocyrillic
N ieungcirclekorean	N iogonek
N ieungkorean	N iota
N ieungparenkorean	N iotadieresis
N igrave	N iotadieresisstornos
N igujarati	N iotalatin
N igurmukhi	N iotatonos
N ihiragana	N iparen
N ihookabove	N irigurmukhi
N iibengali	N ismallhiragana
N iicyrillic	N ismallkatakana
N iideva	N ismallkatakanahalfwidth
N iigujarati	N issharbengali
N iigurmukhi	N istroke
N iimatragurmukhi	N iterationhiragana
N iinvertedbreve	N iterationkatakana
N iishortcyrillic	N itilde
N iivowelsignbengali	N itildebelow
N iivowelsigndeva	N iubopomofo
N iivowelsigngujarati	N iucyrillic
N ij	N ivowelsignbengali
N ikatakana	N ivowelsigndeva
N ikatakanahalfwidth	N ivowelsigngujarati
N ikorean	N izhitsacyrillic
N ilde	N izhitsadblgravecyrillic
N iluyhebrew	N j
N imacron	N jaarmenian
N imacroncyrillic	N jabengali
N imageorapproximatelyequal	N jadeva
N imatragurmukhi	N jagujarati
N imonospace	N jagurmukhi
N increment	N jbopomofo
N infinity	N jcaron
N iniarmenian	N jcircler
N integral	N jcircumflex
N integralbottom	N jcrossetail
N integralbt	N jdotlessstroke
N integraltop	N jecyrillic
N integraltp	N jeemarabic
N intersection	N jeemfinalarabic
N intisquare	N jeeminitialarabic

N jeemmedialarabic  
 N jeharabic  
 N jehfinalarabic  
 N jhabengali  
 N jhadeva  
 N jhagujarati  
 N jhagurmukhi  
 N jheharmerian  
 N jis  
 N jmonospace  
 N jparen  
 N jsuperior  
 N k  
 N kabashkircyrillic  
 N kabengali  
 N kacute  
 N kacyrillic  
 N kadescendercyrillic  
 N kadeva  
 N kaf  
 N kafarabic  
 N kafdagesh  
 N kafdageshhebrew  
 N kaffinalarabic  
 N kafhebrew  
 N kafinitialarabic  
 N kafmedialarabic  
 N kafrafehebrew  
 N kagujarati  
 N kagurmukhi  
 N kahiragana  
 N kahookcyrillic  
 N kakatakana  
 N kakatakanahalfwidth  
 N kappa  
 N kappasymbolgreek  
 N kapyeounmieumkorean  
 N kapyeounphieuphorean  
 N kapyeounpieupkorean  
 N kapyeounssangpieupkorean  
 N karoriisquare  
 N kashidaautoarabic  
 N kashidaautosidebearingarabic  
 N kasmallkatakana

N kasquare  
 N kasraarabic  
 N kasratanarabic  
 N kastrokecyrillic  
 N katahiraprolongmarkhalfwidth  
 N kaverticallstrokecyrillic  
 N kbopomofo  
 N kcalsquare  
 N kcaron  
 N kcedilla  
 N kcircle  
 N kcommaaccent  
 N kdotbelow  
 N keharmerian  
 N kehiragana  
 N kekatakana  
 N kekatakanahalfwidth  
 N kenarmenian  
 N kesmallkatakana  
 N kgreenlandic  
 N khabengali  
 N khacyrillic  
 N khadeva  
 N khagujarati  
 N khagurmukhi  
 N khaharabic  
 N khahfinalarabic  
 N khahinitialarabic  
 N khahmedialarabic  
 N kheicoptic  
 N khadeva  
 N khagurmukhi  
 N khieukhacirclekorean  
 N khieukhaparenkorean  
 N khieukhcirclekorean  
 N khieukhkorean  
 N khieukhparenkorean  
 N khokhaithai  
 N khokhonthai  
 N khokhuatthai  
 N khokhwaithai  
 N khomutthai  
 N khook  
 N khorakhangthai

N khzsquare	N lakhangyaothai
N kihiragana	N lamaleffinalarabic
N kikatakana	N lamalefhamzaabovefinalarabic
N kikatakanahalfwidth	N lamalefhamzaaboveisolatedarabic
N kioguramusquare	N lamalefhamzabelowfinalarabic
N kiromeetorusquare	N lamalefhamzabelowisolatedarabic
N kirosquare	N lamalefisolatedarabic
N kiyeokacirclekorean	N lamalefmaddaabovefinalarabic
N kiyeokaparenkorean	N lamalefmaddaaboveisolatedarabic
N kiyeokcirclekorean	N lamarabic
N kiyeokkorean	N lambda
N kiyeokparenkorean	N lambdastroke
N kiyeoksioskorean	N lamed
N kjecyrillic	N lameddagesh
N klinebelow	N lameddageshhebrew
N klsquare	N lamedhebrew
N kmcubedsquare	N lamedholam
N kmonospace	N lamedholamdagesh
N kmsquaredsquare	N lamedholamdageshhebrew
N kohiragana	N lamedholamhebrew
N kohmsquare	N lamfinalarabic
N kokaithai	N lamhahinitialarabic
N kokatakana	N laminitialarabic
N kokatakanahalfwidth	N lamjeeminitialarabic
N kooposquare	N lamkhahinitialarabic
N koppacyrillic	N lamlamhehisolatedarabic
N koreanstandardsymbol	N lammedialarabic
N koroniscmb	N lammeemhahinitialarabic
N kparen	N lammeeminitialarabic
N kpasquare	N lammeemjeeminitialarabic
N ksicyrillic	N lammeemkhahinitialarabic
N ktsquare	N largecircle
N kturned	N lbar
N kuhiragana	N lbelt
N kukatakana	N lbopomofo
N kukatakanahalfwidth	N lcaron
N kvsquare	N lcedilla
N kwsquare	N lcircle
N l	N lccircumflexbelow
N labengali	N lcommaaccent
N lacute	N ldot
N ladeva	N ldotaccent
N lagujarati	N ldotbelow
N lagurmukhi	N ldotbelowmacron

N leftangleabovecmb	N lvocalicbengali
N lefttackbelowcmb	N lvocalicdeva
N less	N lvocalicvowelsignbengali
N lessequal	N lvocalicvowelsigndeva
N lessequalorgreater	N lxsquare
N lessmonospace	N m
N lessorequivalent	N mabengali
N lessorgreater	N macron
N lessoverequal	N macronbelowcmb
N lesssmall	N macroncmb
N lezh	N macronlowmod
N lfblock	N macronmonospace
N lhookretroflex	N macute
N lira	N madeva
N liwnarmenian	N magujarati
N lj	N magurmukhi
N ljecyrillic	N mahapakhhebrew
N lladeva	N mahapakhlefthebrew
N llagujarati	N mahiragana
N llinebelow	N maichattawathai
N llladeva	N maiekthai
N llvocalicbengali	N maihanakatthai
N llvocalicdeva	N maitaikhuthai
N llvocalicvowelsignbengali	N maithothai
N llvocalicvowelsigndeva	N maitrithai
N lmiddletilde	N maiyamokthai
N lmonospace	N makatakana
N lmsquare	N makatakanahalfwidth
N lochulathai	N male
N logicaland	N mansyonsquare
N logicalnot	N maqafhebrew
N logicalnotreversed	N mars
N logicalor	N masoracirclehebrew
N lolingthai	N masquare
N longs	N mbopomofo
N lowlinecenterline	N mbsquare
N lowlinecmb	N mcircle
N lowlinedashed	N mcubedsquare
N lozenge	N mdotaccent
N lparen	N mdotbelow
N lslash	N meemarabic
N lsquare	N meemfinalarabic
N ltshade	N meeminitialarabic
N luthai	N meemmedialarabic

N meemmeinitialarabic	N mohiragana
N meemmeisolatedarabic	N mohmsquare
N meetorusquare	N mokatakana
N mehiragana	N mokatakanahalfwidth
N meizierasquare	N molsquare
N mekatakana	N momathai
N mekatakanahalfwidth	N moverssquare
N mem	N moverssquaredsquare
N memdagesh	N mparen
N memdageshhebrew	N mpasquare
N memhebrew	N mssquare
N menarmenian	N mturned
N merkhahebrew	N mu
N merkhakefulahebrew	N mul
N merkhakefulalefthebrew	N muasquare
N merkhalefthebrew	N muchgreater
N mhook	N muchless
N mhzsquare	N mufsquare
N middledotkatakanahalfwidth	N mugreek
N middot	N mugsquare
N mieumacirclekorean	N muhiragana
N mieumaparenkorean	N mukatakana
N mieumcirclekorean	N mukatakanahalfwidth
N mieumkorean	N mulsquare
N mieumpansioskorean	N multiply
N mieuparenkorean	N mumsquare
N mieumpieupkorean	N munahhebrew
N mieumsioskorean	N munahlefthebrew
N mihiragana	N musicalnote
N mikatakana	N musicalnotedbl
N mikatakanahalfwidth	N musicflatsign
N minus	N musicsharpsign
N minusbelowcmb	N mussquare
N minuscircle	N muvsquare
N minusmod	N muwsquare
N minusplus	N mvmegasquare
N minute	N mvsquare
N miribaarusquare	N mwmegasquare
N mirisquare	N mwsquare
N mlonglegturned	N n
N mlsquare	N nabengali
N mmcubedsquare	N nabla
N mmonospace	N nacute
N mmsquaredsquare	N nadeva



N nagujarati	N ninearabic
N nagurmukhi	N ninebengali
N nahiragana	N ninecircle
N nakatakana	N ninecircleinversesansserif
N nakatakanahalfwidth	N ninedeva
N napostrophe	N ninegujarati
N nasquare	N ninegurmukhi
N nbopomofo	N ninehackarabic
N nbspace	N ninehangzhou
N ncaron	N nineideographicparen
N ncedilla	N nineinferior
N ncircle	N ninemonospace
N ncircumflexbelow	N nineparen
N ncommaaccent	N nineperiod
N ndotaccent	N ninepersian
N ndotbelow	N nineroman
N nehiragana	N ninesuperior
N nekatakana	N nineteencircle
N nekatakanahalfwidth	N nineteenparen
N newsheqelsign	N nineteenperiod
N nfsquare	N ninethai
N ngabengali	N nj
N ngadeva	N njecyrillic
N ngagujarati	N nkatakana
N ngagurmukhi	N nkatakanahalfwidth
N ngonguthai	N nlegrightlong
N nhiragana	N nlinebelow
N nhookleft	N nmonospace
N nhookretroflex	N nm-square
N nieunacirclekorean	N nnabengali
N nieunaparenkorean	N nnadeva
N nieuncieuckorean	N nnagujarati
N nieuncirclekorean	N nnagurmukhi
N nieunhieuhkorean	N nnnadeva
N nieunkorean	N nohiragana
N nieunpansioskorean	N nokatakana
N nieunparenkorean	N nokatakanahalfwidth
N nieunsioskorean	N nonbreakingspace
N nieuntikeutkorean	N nonenthai
N nhiragana	N nonuthai
N nikatakana	N noonarabic
N nikatakanahalfwidth	N noonfinalarabic
N nikhahitthai	N noonghunnaarabic
N nine	N noonghunnafinalarabic

N noonhehinitialarabic	N nundageshhebrew
N nooninitialarabic	N nunhebrew
N noonjeeminitialarabic	N nvsquare
N noonjeemisolatedarabic	N nwsquare
N noonmedialarabic	N nyabengali
N noonmeeminitialarabic	N nyadeva
N noonmeemisolatedarabic	N nyagujarati
N noonnoonfinalarabic	N nyagurmukhi
N notcontains	N o
N notelement	N oacute
N notelementof	N oangthai
N notequal	N obarred
N notgreater	N obarredcyrillic
N notgreaternorequal	N obarreddieresiscyrillic
N notgreaternorless	N obengali
N notidentical	N obopomofo
N notless	N obreve
N notlessnorequal	N ocandradeva
N notparallel	N ocandragujarati
N notprecedes	N ocandravowelsigndeva
N notsubset	N ocandravowelsigngujarati
N notsucceeds	N ocaron
N notsuperset	N ocircle
N nowarmenian	N ocircumflex
N nparen	N ocircumflexacute
N nssquare	N ocircumflexdotbelow
N nsuperior	N ocircumflexgrave
N ntilde	N ocircumflexhookabove
N nu	N ocircumflextilde
N nuhiragana	N ocyrillic
N nukatakana	N odblacute
N nukatakanahalfwidth	N odblgrave
N nuktabengali	N odeva
N nukttadeva	N odieresis
N nuktagujarati	N odieresiscyrillic
N nuktagurmukhi	N odotbelow
N numbersign	N oe
N numbersignmonospace	N oekorean
N numbersignsmall	N ogonek
N numeralsigngreek	N ogonekcmb
N numeralsignlowergreek	N ograve
N numero	N ogujarati
N nun	N oharmenian
N nundagesh	N ohiragana

N ohookabove	N onemonospace
N ohorn	N onenumeratorbengali
N ohornacute	N oneparen
N ohorndotbelow	N onepperiod
N ohorngrave	N onepersian
N ohornhookabove	N onequarter
N ohorntilde	N oneroman
N ohungarumlaut	N onesuperior
N oi	N onethai
N oinvertedbreve	N onethird
N okatakana	N oogonek
N okatakanahalfwidth	N oogonekmacron
N okorean	N oogurmukhi
N olebrew	N oomatragurmukhi
N omacron	N oopen
N omacronacute	N oparen
N omacrongrave	N openbullet
N omdeva	N option
N omega	N ordfeminine
N omegal	N ordmasculine
N omegacyrillic	N orthogonal
N omegalatinclosed	N oshortdeva
N omegaroundcyrillic	N oshortvowelsigndeva
N omegatitlocyrillic	N oslash
N omegatonos	N oslashacute
N omgujarati	N osmallhiragana
N omicron	N osmallkatakana
N omicrontonos	N osmallkatakanahalfwidth
N omonospace	N ostrokeacute
N one	N otcyrillic
N onearabic	N otilde
N onebengali	N otildeacute
N onecircle	N otildedieresis
N onecircleinversesansserif	N oubopomofo
N onedeva	N overline
N onedotenleader	N overlinecenterline
N oneeighth	N overlinecmb
N onegujarati	N overlinedashed
N onegurmukhi	N overlinedblwavy
N onehackarabic	N overlinewavy
N onehalf	N overscore
N onehangzhou	N ovowelsignbengali
N oneideographicparen	N ovowelsigndeva
N oneinferior	N ovowelsigngujarati

N p	N pazerhebrew
N paampssquare	N pbopomofo
N paasentosquare	N pcircle
N pabengali	N pdotaccent
N pacute	N pe
N padeva	N pecyrillic
N pagedown	N pedagesh
N pageup	N pedageshhebrew
N pagujarati	N peezisquare
N pagurmukhi	N pefinaldageshhebrew
N pahiragana	N peharabic
N paiyannoithai	N peharmenian
N pakatakana	N pehebrew
N palatalizationcyrilliccmb	N pehfinalarabic
N palochkacyrillic	N pehinitialarabic
N pansioskorean	N pehiragana
N paragraph	N pehmedialarabic
N parallel	N pekatakana
N parenleft	N pemiddlehookcyrillic
N parenleftalttonearabic	N perafehebrew
N parenleftinferior	N percent
N parenleftmonospace	N percentarabic
N parenleftsmall	N percentmonospace
N parenleftsuperior	N percentsmall
N parenleftvertical	N period
N parenright	N periodarmenian
N parenrightalttonearabic	N periodcentered
N parenrightinferior	N periodhalfwidth
N parenrightmonospace	N periodmonospace
N parenrightsmall	N periodsmall
N parenrightsuperior	N perispomenigreekcmb
N parenrightvertical	N perpendicular
N partialdiff	N perthousand
N paseqhebrew	N peseta
N pashtahebrew	N pfsquare
N pasquare	N phabengali
N patah	N phadeva
N patah11	N phagujarati
N patah1d	N phagurmukhi
N patah2a	N phi
N patahhebrew	N phil
N patahnarrowhebrew	N phieuphacirclekorean
N patahquarterhebrew	N phieuphaparenkorean
N patahwidehebrew	N phieuphcirclekorean

N phieuphkorean	N postalmarkface
N phieuphparenkorean	N pparen
N philatin	N precedes
N phinthuthai	N prescription
N phisymbolgreek	N primemod
N phook	N primereversed
N phophanthai	N product
N phophungthai	N projective
N phosamphaothai	N prolongedkana
N pi	N propellor
N pieupacirclekorean	N propersubset
N pieupaparenkorean	N proper superset
N pieupcieuckorean	N proportion
N pieupcirclekorean	N proportional
N pieupkiyeokkorean	N psi
N pieupkorean	N psicyrillic
N pieupparenkorean	N psilipneumatacyrilliccmb
N pieupsioskiyeokkorean	N pssquare
N pieupsioskorean	N puhiragana
N pieupsiosstikeutkorean	N pukatakana
N pieupthieuthkorean	N pvsquare
N pieuptikeutkorean	N pwsquare
N pihiragana	N q
N pikatakana	N qadeva
N pisymbolgreek	N qadmahebrew
N piwrarmenian	N qafarabic
N plus	N qaffinalarabic
N plusbelowcmb	N qafinitiarabic
N pluscircle	N qafmedialarabic
N plusminus	N qamats
N plusmod	N qamats10
N plusmonospace	N qamats1a
N plussmall	N qamats1c
N plus superior	N qamats27
N pmonospace	N qamats29
N pmsquare	N qamats33
N pohiragana	N qamatsde
N pointingindexdownwhite	N qamatshebrew
N pointingindexleftwhite	N qamatsnarrowhebrew
N pointingindexrightwhite	N qamatsqatanhebrew
N pointingindexupwhite	N qamatsqatannarrowhebrew
N pokatakana	N qamatsqatanquarterhebrew
N poplathai	N qamatsqatanwidehebrew
N postalmark	N qamatsquarterhebrew

N qamatwidebrew	N questiongreek
N qarneyparahebrew	N questionmonospace
N qbopomofo	N quotedbl
N qcircle	N quotedblbase
N qhook	N quotedblleft
N qmonospace	N quotedblmonospace
N qof	N quotedblprime
N qofdagesh	N quotedblprimereversed
N qofdageshhebrew	N quotedblright
N qofhatafpatah	N quoteleft
N qofhatafpatahhebrew	N quoteleftreversed
N qofhatafsegol	N quotereversed
N qofhatafsegolhebrew	N quoteright
N qofhebrew	N quoterightn
N qofhiriq	N quotesinglbase
N qofhiriqhebrew	N quotesingle
N qofholam	N quotesinglemonospace
N qofholamhebrew	N r
N qofpatah	N raarmenian
N qofpatahhebrew	N rabengali
N qofqamats	N racute
N qofqamatshebrew	N radeva
N qofqubuts	N radical
N qofqubutshebrew	N radoverssquare
N qofsegol	N radoverssquaresquare
N qofsegolhebrew	N radsquare
N qofsheva	N rafe
N qofshevahebrew	N rafehebrew
N qoftsere	N ragujarati
N qoftserehebrew	N ragurmukhi
N qparen	N rahiragana
N quarternote	N rakatakana
N qubuts	N rakatakanahalfwidth
N qubuts18	N ralowerdiagonalbengali
N qubuts25	N ramiddlediagonalbengali
N qubuts31	N ramshorn
N qubutshebrew	N ratio
N qubutsnarrowhebrew	N rbopomofo
N qubutsquarterhebrew	N rcaron
N qubutswidehebrew	N rcedilla
N question	N rcircle
N questionarabic	N rcommaaccent
N questionarmenian	N rdblgrave
N questiondown	N rdotaccent

N rdotbelow	N rho
N rdotbelowmacron	N rhoook
N referencemark	N rhoookturned
N reflexsubset	N rhoookturnedsuperior
N reflexsuperset	N rhosymbolgreek
N registered	N rhotichookmod
N reharabic	N rieulacirclekorean
N reharmenian	N rieulaparenkorean
N rehfinalarabic	N rieulcirclekorean
N rehiragana	N rieulhieuhkorean
N rehyehaleflamarabic	N rieulkiyeokkorean
N rekatakana	N rieulkiyeoksioskorean
N rekatakanahalfwidth	N rieulkorean
N resh	N rieulmieumkorean
N reshdageshhebrew	N rieulpansioskorean
N reshatafpatah	N rieulparenkorean
N reshatafpatahhebrew	N rieulphieuphkorean
N reshatafsegol	N rieulpieupkorean
N reshatafsegolhebrew	N rieulpieupsioskorean
N reshhebrew	N rieulsioskorean
N reshhiriq	N rieulthieuthkorean
N reshhiriqhebrew	N rieultikeutkorean
N reshholam	N rieulyeorinhieuhkorean
N reshholamhebrew	N rightangle
N reshatah	N righttackbelowcmb
N reshatahhebrew	N righttriangle
N reshqamats	N rihiragana
N reshqamatshebrew	N rikatakana
N reshqubuts	N rikatakanahalfwidth
N reshqubutshhebrew	N ring
N reshsegol	N ringbelowcmb
N reshsegolhebrew	N ringcmb
N reshsheva	N ringhalfleft
N reshshevahebrew	N ringhalfleftarmenian
N reshtere	N ringhalfleftbelowcmb
N reshterehebrew	N ringhalfleftcentered
N reversedtilde	N ringhalfright
N reviahebrew	N ringhalfrightbelowcmb
N reviamugrashhebrew	N ringhalfrightcentered
N revlogicalnot	N rinvertedbreve
N rfishhook	N rittorusquare
N rfishhookreversed	N rlinebelow
N rhabengali	N rlongleg
N rhadeva	N rlonglegturned

N rmonospace	N sakatakana
N rohiragana	N sakatakanahalfwidth
N rokatakana	N sallallahoualayhewasallamarabic
N rokatakanahalfwidth	N samekh
N roruathai	N samekhdagesh
N rparen	N samekhdageshhebrew
N rrabengali	N samekhhebrew
N rradeva	N saraaathai
N rragurmukhi	N saraaethai
N rreharabic	N saraaimaimalaithai
N rrehfinalarabic	N saraaimaimuanthai
N rrvocalicbengali	N saraamthai
N rrvocalicdeva	N saraathai
N rrvocalicgujarati	N saraethai
N rrvocalicvowelsignbengali	N saraiithai
N rrvocalicvowelsigndeva	N saraitthai
N rrvocalicvowelsigngujarati	N saraothai
N rtblock	N sarauethai
N rturned	N sarauethai
N rturnedsuperior	N sarauthai
N ruhiragana	N sarauuthai
N rukatakana	N sbopomofo
N rukatakanahalfwidth	N scaron
N rupeemarkbengali	N scarondotaccent
N rupeesignbengali	N scedilla
N ruthai	N schwa
N rvocalicbengali	N schwacyrillic
N rvocalicdeva	N schwadiesiscyrillic
N rvocalicgujarati	N schwahook
N rvocalicvowelsignbengali	N scircle
N rvocalicvowelsigndeva	N scircumflex
N rvocalicvowelsigngujarati	N scommaaccent
N s	N sdotaccent
N sabengali	N sdotbelow
N sacute	N sdotbelowdotaccent
N sacutedotaccent	N seagullbelowcmb
N sadarabic	N second
N sadeva	N secondtonechinese
N sadfinalarabic	N section
N sadinitialarabic	N seenarabic
N sadmedialarabic	N seenfinalarabic
N sagujarati	N seeninitialarabic
N sagurmukhi	N seenmedialarabic
N sahiragana	N segol



N segol13  
 N segol1f  
 N segol2c  
 N segolhebrew  
 N segolnarrowhebrew  
 N segolquarterhebrew  
 N segoltahebrew  
 N segolwidehebrew  
 N seharmerian  
 N sehiragana  
 N sekatakana  
 N sekatakanahalfwidth  
 N semicolon  
 N semicolonarabic  
 N semicolonmonospace  
 N semicolonsmall  
 N semivoicedmarkkana  
 N semivoicedmarkkanahalfwidth  
 N sentisquare  
 N sentosquare  
 N seven  
 N sevenarabic  
 N sevenbengali  
 N sevencircle  
 N sevencircleinversesansserif  
 N sevendeve  
 N seveneighths  
 N sevengujarati  
 N sevengurmukhi  
 N sevenhackarabic  
 N sevenhangzhou  
 N sevenideographicparen  
 N seveninferior  
 N sevenmonospace  
 N sevenparen  
 N sevenperiod  
 N sevenpersian  
 N sevenroman  
 N sevensuperior  
 N seventeencircle  
 N seventeenparen  
 N seventeenperiod  
 N seventhai  
 N sfthyphen

N shaarmenian  
 N shabengali  
 N shacyrillic  
 N shaddaarabic  
 N shaddadammarabic  
 N shaddadammatanarabic  
 N shaddafathaarabic  
 N shaddafathatanarabic  
 N shaddakasraarabic  
 N shaddakasratanarabic  
 N shade  
 N shadedark  
 N shadelight  
 N shademedium  
 N shadeva  
 N shagujarati  
 N shagurmukhi  
 N shalshethebrew  
 N shbopomofo  
 N shchacyrillic  
 N sheenarabic  
 N sheenfinalarabic  
 N sheeninitialarabic  
 N sheenmedialarabic  
 N sheicoptic  
 N sheqel  
 N sheqelhebrew  
 N sheva  
 N sheva115  
 N sheva15  
 N sheva22  
 N sheva2e  
 N shevahebrew  
 N shevanarrowhebrew  
 N shevaquarterhebrew  
 N shevawidehebrew  
 N shhacyrillic  
 N shimacoptic  
 N shin  
 N shindagesh  
 N shindageshhebrew  
 N shindageshshindot  
 N shindageshshindothebrew  
 N shindageshsindot

N shindageshsindothebrew	N sixpersian
N shindothebrew	N sixroman
N shinhebrew	N sixsuperior
N shinshindot	N sixteencircle
N shinshindothebrew	N sixteencurrencydenominatorbengali
N shinsindot	N sixteenparen
N shinsindothebrew	N sixteenperiod
N shook	N sixthai
N sigma	N slash
N sigma1	N slashmonospace
N sigmafinal	N slong
N sigmalunatesymbolgreek	N slongdotaccent
N sihiragana	N smileface
N sikatakana	N smonospace
N sikatakanahalfwidth	N sofasughebrew
N siluqhebrew	N softlyphen
N siluqllefthebrew	N softsigncyrillic
N similar	N sohiragana
N sindothebrew	N sokatakana
N siosacirclekorean	N sokatakanahalfwidth
N siosaparenkorean	N soliduslongoverlaycmb
N sioscieuckorean	N solidusshortoverlaycmb
N sioscirclekorean	N sorusithai
N sioskiyeokkorean	N osalathai
N sioskorean	N sosothai
N siosnieunkorean	N sosuathai
N siosparenkorean	N space
N siospieupkorean	N spacehackarabic
N siostikeutkorean	N spade
N six	N spadesuitblack
N sixarabic	N spadesuitwhite
N sixbengali	N sparen
N sixcircle	N squarebelowcmb
N sixcircleinversesansserif	N squareecc
N sixdeva	N squarecm
N sixgujarati	N squarediagonalcrosshatchfill
N sixgurmukhi	N squarehorizontalfill
N sixhackarabic	N squarekg
N sixhangzhou	N squarekm
N sixideographicparen	N squarekmcapital
N sixinferior	N squareln
N sixmonospace	N squarelog
N sixparen	N squaremg
N sixperiod	N squaremil

N squaremm	N tagujarati
N squaremsquared	N tagurmukhi
N squareorthogonalcrosshatchfill	N taharabic
N squareupperleftttolowerrightfill	N tahfinalarabic
N squareupperrightttolowerleftfill	N tahinitialarabic
N squareverticalfill	N tahiragana
N squarewhitewithsmallblack	N tahmedialarabic
N srsquare	N taisyouerasquare
N ssabengali	N takatakana
N ssadeva	N takatakanahalfwidth
N ssagujarati	N tatweelarabic
N ssangcieuckorean	N tau
N ssanghieuhkorean	N tav
N ssangieungkorean	N tavadages
N ssangkiyeokkorean	N tavadagesh
N ssangnieunkorean	N tavadageshhebrew
N ssangpieupkorean	N tavhebrew
N ssangsioskorean	N tbar
N ssangtikeutkorean	N tbopomofo
N sterling	N tcaron
N sterlingmonospace	N tccurl
N strokelongoverlaycmb	N tcedilla
N strokeshortoverlaycmb	N tcheharabic
N subset	N tchehfinalarabic
N subsetnotequal	N tchehinitialarabic
N subsetorequal	N tchehmedialarabic
N succeeds	N tchehmeeminitialarabic
N suchthat	N tcircle
N suhiragana	N tcircumflexbelow
N sukatakana	N tcommaaccent
N sukatakanahalfwidth	N tdieresis
N sukunarabic	N tdotaccent
N summation	N tdotbelow
N sun	N tecyrillic
N superset	N tedescendercyrillic
N supersetnotequal	N teharabic
N supersetorequal	N tehfinalarabic
N svsquare	N tehhahinitialarabic
N syouwaerasquare	N tehhahisolatedarabic
N t	N tehinitialarabic
N tabengali	N tehiragana
N tackdown	N tehjeeminitialarabic
N tackleft	N tehjeemisolatedarabic
N tadeva	N tehmarbutaarabic

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N tehmedialarabic	N thirteencircle
N tehmeeminitialarabic	N thirteenparen
N tehmeemisolatedarabic	N thirteenperiod
N tehnoonfinalarabic	N thonangmonthothai
N tekatakana	N thook
N tekatakanahalfwidth	N thophuthaothai
N telephone	N thorn
N telephoneblack	N thothahanthai
N telishagedolahebrew	N thothanthai
N telishaqetanahebrew	N thothongthai
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N tenideographicparen	N thousandcyrillic
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N tenroman	N three
N tesh	N threearabic
N tet	N threebengali
N tetdagesh	N threecircle
N tetdageshhebrew	N threecircleinversesansserif
N tethebrew	N threedeva
N tetsecyrillic	N threeeighths
N tevirhebrew	N threegujarati
N tevirlefthebrew	N threegurukhi
N thabengali	N threehackarabic
N thadeva	N threehangzhou
N thagujarati	N threeideographicparen
N thagurmukhi	N threeinferior
N thalarabic	N threemonospace
N thalfinalarabic	N threenumeratorbengali
N thanthakhatthai	N threeparen
N theharabic	N threeperiod
N thehfinalarabic	N threepersian
N thehinitialarabic	N threequarters
N thehmedialarabic	N threeeroman
N thereexists	N threesuperior
N therefore	N threethai
N theta	N thzsquare
N thetal	N tihiragana
N thetasymbolgreek	N tikatakana
N thieuthacirclekorean	N tikatakanahalfwidth
N thieuthaparenkorean	N tikeutacirclekorean
N thieuthcirclekorean	N tikeutaparenkorean
N thieuthkorean	N tikeutcirclekorean

N tikeutkorean	N triagdn
N tikeutparenkorean	N triaglf
N tilde	N triagrt
N tildebelowcmb	N triagup
N tildecmb	N ts
N tildecomb	N tsadi
N tildedoublecmb	N tsadidagesh
N tildeoperator	N tsadidageshhebrew
N tildeoverlaycmb	N tsadihebrew
N tildeverticalcmb	N tsecyrillic
N timescircle	N tsere
N tipehahebrew	N tsere12
N tipehalefthebrew	N tsere1e
N tippigurmukhi	N tsere2b
N titlocyrilliccmb	N tserehebrew
N tiwnarmenian	N tserenarrowhebrew
N tlinebelow	N tserequarterhebrew
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N toarmenian	N tshcyrillic
N tohiragana	N ttabengali
N tokatakana	N ttadeva
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N tonebarextralowmod	N tteharabic
N tonebarhighmod	N ttehfinalarabic
N tonebarlowmod	N ttehinitialarabic
N tonebarmidmod	N ttehmedialarabic
N tonefive	N tthabengali
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N tortoiseshellbracketleftvertical	N tusmallhiragana
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N tortoiseshellbracketrightvertical	N twelvecircle
N totaothai	N twelveparen
N tpalatalhook	N twelveperiod
N tparen	N twelveroman
N trademark	N twentycircle
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N twentyperiod	N udieresiscaron
N two	N udieresiscyrillic
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N twocircle	N udotbelow
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N twodotenleader	N ugurmukhi
N twodotleader	N uhiragana
N twodotleadervERTICAL	N uhookabove
N twogujarati	N uhorn
N twogurmukhi	N uhornacute
N twohackarabic	N uhorndotbelow
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N tworoman	N ukcyrillic
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N u	N umatragurmukhi
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N ubar	N underscore
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N udblgrave	N upsilon
N udeva	N upsilondieresis
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N udieresisacute	N upsilonlatin
N udieresisbelow	N upsilontonos

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 N usmallhiragana  
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 N uubengali  
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 N uumatragurmukhi  
 N uuvowelsignbengali  
 N uuvowelsigndeva  
 N uuvowelsigngujarati  
 N uvowelsignbengali  
 N uvowelsigndeva  
 N uvowelsigngujarati  
 N v  
 N vadeva  
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 N vavdagesh65  
 N vavdageshhebrew  
 N vavhebrew  
 N vavholam  
 N vavholamhebrew  
 N vavvavhebrew  
 N vavyodhebrew  
 N vcircle  
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 N vecyrillic  
 N veharabic  
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 N verticallineabovecmb  
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N wdotbelow	N wring
N wehiragana	N wsuperior
N weierstrass	N wturned
N wekatakana	N wynn
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N weokorean	N xabovecmb
N wgrave	N xbopomofo
N whitebullet	N xcircle
N whitecircle	N xdieresis
N whitecircleinverse	N xdotaccent
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N whitecornerbracketleftvertical	N xi
N whitecornerbracketright	N xmonospace
N whitecornerbracketrightvertical	N xparen
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N whitedownpointingtriangle	N yabengali
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N whiterightpointingtriangle	N yahiragana
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N whitesmilingface	N yakatakanahalfwidth
N whitesquare	N yakorean
N whitestar	N yamakkanthai
N whitetelephone	N yasmallhiragana
N whitetortoiseshellbracketleft	N yasmallkatakana
N whitetortoiseshellbracketright	N yasmallkatakanahalfwidth
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N whiteuppointingtriangle	N ycircle
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N wikorean	N ydotaccent
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N yehbarreearabic	N yokatakanahalfwidth
N yehbarreefinalarabic	N yokorean
N yehfinalarabic	N yosmallhiragana
N yehhamzaabovearabic	N yosmallkatakana
N yehhamzaabovefinalarabic	N yosmallkatakanahalfwidth
N yehhamzaaboveinitialarabic	N yotgreek
N yehhamzaabovemedialarabic	N yoyaekorean
N yehinitialarabic	N yoyakorean
N yehmedialarabic	N yoyakthai
N yehmeeminitialarabic	N yoyingthai
N yehmeemisolatedarabic	N yparen
N yehnoonfinalarabic	N ypogegrammeni
N yehthreedotsbelowarabic	N ypogegrammenigreekcmb
N yekorean	N yr
N yen	N yring
N yenmonospace	N ysuperior
N yeokorean	N ytilde
N yeorinhieuhkorean	N yturned
N yerahbenyomohebrew	N yuhiragana
N yerahbenyomolefthebrew	N yuikorean
N yericyrillic	N yukatakana
N yerudieresiscyrillic	N yukatakanahalfwidth
N yesieungkorean	N yukorean
N yesieungpansioskorean	N yusbigcyrillic
N yesieungsioskorean	N yusbigiotifiedcyrillic
N yetivhebrew	N yuslittlecyrillic
N ygrave	N yuslittletifiedcyrillic
N yhook	N yusmallhiragana
N yhookabove	N yusmallkatakana
N yiarmenian	N yusmallkatakanahalfwidth
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N yinyang	N yyabengali
N yiwnarmenian	N yyadeva
N ymonospace	N z
N yod	N zaarmenian
N yoddagesh	N zacute
N yoddageshhebrew	N zadeva
N yodhebrew	N zagurmukhi
N yodyodhebrew	N zaharabic
N yodyodpatahhebrew	N zahfinalarabic
N yohiragana	N zahinitialarabic
N yoikorean	N zahiragana
N yokatakana	N zahmedialarabic

N zainarabic  
 N zainfinalarabic  
 N zakatakana  
 N zaqefgadolhebrew  
 N zaqefqatanhebrew  
 N zarqahebrew  
 N zayin  
 N zayindagesh  
 N zayindageshhebrew  
 N zayinhebrew  
 N zbopomofo  
 N zcaron  
 N zcircle  
 N zcircumflex  
 N zcurl  
 N zdot  
 N zdotaccent  
 N zdotbelow  
 N zecyrillic  
 N zedescendercyrillic  
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 N zehiragana  
 N zekatakana  
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 N zerodeva  
 N zerogujarati  
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 N zerohackarabic  
 N zeroinferior  
 N zeromonospace  
 N zeropersian  
 N zerosuperior  
 N zerothai  
 N zerowidthjoiner  
 N zerowidthnonjoiner  
 N zerowidthspace  
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 N zhearmanian  
 N zhebrevecyrillic  
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 N zhedescendercyrillic

N zhedieresiscyrillic

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N zinorhebrew

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T kern

F opentype

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F opentype

T substitution

F opentype

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**dummy** function

# graphics (context)

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F fetchmultipar

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F path  
F point

## gzip (extra lua)

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**suffix** function



## img (basic tex)

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<b>check</b>	function
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<b>copy</b>	function
<b>immediatewrite</b>	function
<b>keys</b>	function
<b>new</b>	function
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<b>ofindex</b>	function
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<b>scan</b>	function
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# interactions (context)

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F define

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D codes

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# interfaces (context)

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F btxcurrentinitials	F btxuservariable
F btxcurrentjuniors	F buildtextaccent
F btxcurrentsurnames	F character
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F btxdetail	F chardescription
F btxdirect	F checkcolumnset
F btxdoif	F checkcountersetup
F btxdoifelse	F checkedconversion
F btxdoifelsecombiinlist	F checkedpagefloat
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F btxexpandedjournal	F chemicalcomponent
F btxfetchlistentries	F chinesenumerals
F btxfield	F cleanfontname
F btxfieldname	F cleanupbox
F btxfieldtype	F cleanuplayers
F btxfirstofrange	F clonefield
F btxflush	F collectfloat
F btxflushlistcombi	F collecthelp
F btxflushlistentry	F colorcomponents
F btxflushmarked	F columnsetcurrentcolumn
F btxflushpages	F columnsetgoto
F btxfoundname	F columnsetnoto
F btxfoundtype	F concatcommalist
F btxhandlecite	F consultfloat
F btxhandlenocite	F convertbtxdatasettoxml
F btxlastofrange	F converteddimen

F convertmpstopdf	F definehyphenationfeatures
F copyboxfromcache	F defineinsertion
F copyposition	F defineintermediatecolor
F cos	F definelabels
F cosd	F definelanguage
F countervalue	F definelinefiller
F counttwopassdata	F definelinkedlist
F currentcomponent	F definemarking
F currentdate	F definemetafont
F currentdesignsize	F definemultitonecolorglobal
F currentenvironment	F definenamespace
F currentpostthyphenchar	F definenote
F currentprethyphenchar	F defineparallel
F currentproduct	F defineparbuilder
F currentproject	F defineprocesscolordummy
F currentreferenceorder	F defineprocesscolorglobal
F currentsectiontolist	F defineprocesscolorlocal
F datasetvariable	F defineprogram
F dayname	F definereference
F decimals	F defineregister
F decrementcounter	F definerule
F decrementedcounter	F definesectionlevels
F decrementsubcounter	F defineshift
F defineaccents	F definesnapmethod
F defineattribute	F definespotcolorglobal
F definebreakpoint	F definestructureblock
F definebreakpoints	F definestructureset
F definecharacterspacing	F definetransparency
F definechemical	F definetransparencyglobal
F definecolumnset	F definetwopasslist
F defineconversion	F definetypeface
F definecounter	F defineviewerlayer
F definedlayoutcomponent	F depthnumber
F definefallbackfamily	F digits_normal
F definefield	F digits_reverse
F definefieldset	F directboxfromcache
F definefilefallback	F directcopyboxfromcache
F definefilesynonym	F disableautofontscript
F definefont_one	F disabledirectives
F definefont_two	F disableexperiments
F definefontfamily	F disablejobsave
F definefontfamilypreset	F disableparbuilder
F definefontfeature	F disableregime
F definefontsolution	F disablespellchecking

F disablestatetriggering	F doifelsepositionsused
F disablestream	F doifelserangeonpage
F disabletrackers	F doifelserereference
F discardfromlist	F doifelserighttoleftinbox
F doanalyzeframedbox	F doifelsesame
F doifcommon	F doifelsestackedfloats
F doifcounter	F doifelsesynonymshown
F doifelseblack	F doifelsesynonymused
F doifelsebuffer	F doifelseurldefined
F doifelsecharinfont	F doifelseutfmathabove
F doifelsecommon	F doifelseutfmathaccent
F doifelsecontinewithfile	F doifelseutfmathbelow
F doifelseconverter	F doifelseutfmathfiller
F doifelsecounter	F doifelsevisualizer
F doifelsecurrentfonthasfeature	F doiffieldsetelse
F doifelsedrawingblack	F doifinset
F doifelsefieldcategory	F doifnotcommon
F doifelsefiledefined	F doifnotcounter
F doifelsefileexist	F doifnotecontent
F doifelsefirstchar	F doifnoteonsamepageasprevious
F doifelsefontpresent	F doifnotinset
F doifelseinelement	F doifnotsame
F doifelseinputfile	F doifposition
F doifelseinset	F doifsame
F doifelseintwopassdata	F doprocesstypescriptfile
F doifelseleapyear	F doreshapeframedbox
F doifselisthasentry	F dosaveposition
F doifselisthasnumber	F dosavepositionplus
F doifselisthaspage	F dosavepositionwhd
F doifselisthastitle	F dosetposition
F doifselocfile	F dosetpositionbox
F doifelsemarking	F dosetpositionplus
F doifelsemessage	F dosetpositionstrut
F doifelseobject	F dosetpositionwhd
F doifelseobjectreference	F dostarttextfile
F doifelseolderversion	F dostoptextfile
F doifelseoverlapping	F elapsedtime
F doifelseparallel	F enableasciimode
F doifelseparentfile	F enableautofences
F doifelsepathexist	F enableautofontscript
F doifelseposition	F enablebackgroundalign
F doifelsepositiononpage	F enablebackgroundboxes
F doifelsepositionsonsamepage	F enablecolor
F doifelsepositionsonthispage	F enablecolorintents

F enablecrlf	F figure_include
F enabledirectives	F figure_mergegoodies
F enableexperiments	F figure_nof_registered_pages
F enablefontcolorsschemes	F figure_pop
F enableinteraction	F figure_push
F enablelinefillers	F figure_register_page
F enableparbuilder	F figure_reset
F enableregime	F figure_scale
F enablerules	F figurefilename
F enableshifts	F figurefilepath
F enablespellchecking	F figurefiletype
F enablestatetriggering	F figurerequest
F enablestream	F figuresetdimensions
F enabletrackers	F figurestatus
F enabletransparency	F figureused
F enableutf	F filterdefaultreference
F enhancecelinkedlist	F filterreference
F enhancecelist	F finalizebox
F enhancecerefence	F findregisterinternal
F enhanceceregister	F findtwopassdata
F eposcolumn	F finishcolumnsetflush
F eposcolumnregistered	F finishexport
F erasebuffer	F firstcountervalue
F execute	F firstinset
F expandcurrentreference	F firstsubcountervalue
F exportformdata	F flushcolumnsetareas
F exportreferences	F flushcolumnsetcolumn
F extendregister	F flushcolumnsetrest
F extensiblecode	F flushfloat
F fakeword	F flushlabeledfloat
F featureattribute	F flushnotes
F featurelist	F flushpageinjectionsafter
F feedback	F flushpageinjectionsbefore
F fetchallmarks	F flushpostponedblocks
F fetchmultipar	F flushpostponednotes
F fetchmultishape	F flushstream
F fetchonemark	F flushstreamcopy
F fetchposboxes	F fontchar
F fetchtwomarks	F fontcharbyindex
F figure_check	F fontcollectionclone
F figure_done	F fontcollectiondefine
F figure_dummy	F fontcollectionprepare
F figure_flush_registered_pages	F fontcollectionregister
F figure_identify	F fontcollectionreport

F fontcollectionreset	F getobjectreferencepage
F fontlookupgetkey	F getprivatechar
F fontlookupgetkeyofindex	F getprivateglyphslot
F fontlookupinitialize	F getprivatemathchar
F fontlookupnofound	F getprivateslot
F forceendjob	F getprogram
F forcequitjob	F getrandomdimen
F formatcolor	F getrandomfloat
F formatgray	F getrandomnumber
F from	F getrandomseed
F frule	F getreadfilename
F getbidimode	F getsetupstring
F getbodyfontsizes	F getsomefullstructurenumber
F getboxfromcache	F getsomestructurenumber
F getbuffer	F getspecificstructuretitle
F getbufferctxlua	F getstructurelevel
F getbuffermkvi	F getstructurenumber
F getcheckedinterfaceparameters	F getsubstring
F getcurrentprefixspec	F gettexbuffer
F getcurrentreferencemetadata	F gettwopassdata
F getdefaultfieldvalue	F gettwopassdatalist
F getdocumentargument	F geturl
F getdocumentfilename	F getvisual
F getelementtag	F hboxtovbox
F getfieldcategory	F helpaction
F getfile	F helpreference
F getfirstcharacter	F hexstringtonumber
F getfirsttwopassdata	F horizontalcode
F getfloatvariable	F hour
F getfullstructurenumber	F hyphenatedlist
F getinternalcachedlistreference	F hyphenatedurl
F getinternallistreference	F immediatemessage
F getlasttwopassdata	F incrementcounter
F getmarking	F incrementedcounter
F getmathdomain	F incrementsubcounter
F getmathitalics	F initializejob
F getmessage	F initializemathdomain
F getmpextensions	F initializemathitalics
F getmprandomnumber	F initializestream
F getnaturaldimensions	F initializetexdirectives
F getnaturalwd	F initializetextrackers
F getnotestate	F injectcurrentreference
F getobjectdimensions	F injectcurrentreferencehtdp
F getobjectreference	F injectreference



F inlinechemical	F lpdf_adddocumentcolorspace
F inputfilebarename	F lpdf_adddocumenttextgstate
F inputfilename	F lpdf_adddocumentpattern
F inputfilerealsuffix	F lpdf_adddocumentshade
F inputfilesuffix	F lpdf_addtocatalog
F insertattachment	F lpdf_addtoinfo
F insertcomment	F lpdf_addtonames
F insertfield	F lpdf_addtopageattributes
F insertionnumber	F lpdf_addtopageresources
F insertrenderingwindow	F lpdf_addtopagesattributes
F installedlanguages	F lpdf_collectedresources
F installtexdirective	F lpdf_color
F installtextracker	F luascript
F jobfilename	F luathread
F jobfilesuffix	F lxmlid
F languagenumber	F markcontent
F lastcountervalue	F markingnumber
F lastsubcountervalue	F markingtitle
F lchexnumber	F markinjector
F lchexnumbers	F markregionbox
F leapyear	F markregionboxcorrected
F linenumbersstageone	F markregionboxtagged
F linenumbersstagetwo	F markvisualfonts
F listgroupindex	F mathfraction
F listlabel	F mathrenderset
F listlocation	F message
F listnamespaces	F metapostescaped
F listprefixednumber	F metapostformatted
F listprefixedpage	F metapostgraphformat
F listrealpage	F minute
F listsize	F mixcleanup
F listtitle	F mixfinalize
F listuserdata	F mixflushlist
F loadexamodes	F mixflushrest
F loadfontgoodies	F mixgetsplit
F loadluamodule	F mixsetsplit
F loadmapfile	F mixstate
F loadmapline	F molecule
F loadspellchecklist	F month
F loadtypescriptfile	F monthmnem
F loadvisualizer	F monthname
F locatefilepath	F mpcolor
F locfilename	F mpflushliteral
F lower	F mpflushreset

F mpgettext	F pageofinternal
F mpgraphic	F pagestaterealpage
F mpoptions	F parpos
F mppopvariables	F pdfrotation
F mppushvariables	F pdfstartmatrix
F mprunset	F pdfstartmirroring
F mpruntab	F pdfstartrotation
F mprunvar	F pdfstartscaling
F mpsetclippath	F pdfstopmatrix
F mpsetoutercolor	F pdfstopmirroring
F mpsetsxxy	F pdfstoprotation
F mpsettext	F pdfstopscaling
F mptexget	F percentageof
F mptexreset	F pgfxcolorspec
F mptexset	F pickupbuffer
F mptexsetfrombuffer	F pickupmarkedcontent
F namedstructureuservariable	F pickuppunctuation
F namedstructurevariable	F placeparallel
F naturalwd	F popfloat
F nbfs	F pophyphenation
F negatedcolorcomponent	F popitaliccorrection
F nextcountervalue	F poplist
F nextparallel	F poppath
F nextsubcountervalue	F poprandomseed
F nofconversions	F popreferenceprefix
F nofdays	F popregime
F nofstackedfloats	F popsectionblock
F notedeltapage	F postponeotes
F noteinternal	F prefixedconverted
F notelistindex	F prepareMPvariable
F noteprefixednumber	F preparecolumnsetflush
F notetitle	F presetmathalternate
F ntimes	F presetsymbollist
F number	F presettabulate
F numbers	F prevcountervalue
F octnumber	F previoussubcountervalue
F octstringtonumber	F processbodyfontsizes
F operatingsystem	F processbuffer
F ordinal	F processcolorcomponents
F outputfilename	F processedfile
F overloadbookmark	F processedfiles
F overloaderror	F processfile
F overloadlowercase	F processfilemany
F overloaduppercase	F processfilenone

F processfileonce	F registerlanguagefeatures
F processjob	F registerlinenumbering
F processlist	F registermaintextcolor
F processregister	F registermpyfile
F processsplit	F registernamedlua
F processsynonyms	F registernamespace
F profilebox	F registerobject
F purefontname	F registerpattern
F pushfloat	F registerpostponedblock
F pushhyphenation	F registerreferencedobject
F pushitaliccorrection	F registerrendering
F pushlist	F registersection
F pushpath	F registershownsynonym
F pushrandomseed	F registerstructureprocessor
F pushreferenceprefix	F registersynonym
F pushregime	F registerunit
F pushsectionblock	F registerusedsynonym
F pushstream	F registeruserdata
F putboxincache	F relatemarking
F putincolumnset	F renderingvar
F rawcharacter	F replacefeature
F rawcountervalue	F replacepospxywhd
F rawdate	F reportstructure
F rawsetupstring	F resavefloat
F rawsubcountervalue	F resetboxesincache
F referencepagedetail	F resetcharacteralign
F referencepagestate	F resetcolumnset
F referencerealpage	F resetcounter
F registerattachment	F reseteffect
F registerbackendsymbol	F resetfeature
F registerbodyfontsize	F resetfontfeature
F registerbookmark	F resetfontsolution
F registerbuttons	F resetinjector
F registercolorintent	F resetitaliccorrection
F registercolumnsetarea	F resetmapfiles
F registeredviewerlayer	F resetmarking
F registerfigurepattern	F resetmathattributes
F registerfiguresuffix	F resetmathitalics
F registerfontalternative	F resetnullfont
F registerfontfamily	F resetparallel
F registerhelp	F resetpath
F registerhyphenationexception	F resetprevdepth
F registerhyphenationpattern	F resetreference
F registeritemgroup	F resetscript

F resetshownsynonyms	F setcharacterkerning
F resetstructureprocessor	F setcharacterspacing
F resetsubcounter	F setcharacterstripping
F resettimer	F setcloseddocumentaction
F resettrackers	F setclosepageaction
F resetusedsynonyms	F setcolormodel
F restartcounter	F setcolumnsetarea
F restartsubcounter	F setcolumnsetlines
F restorecounter	F setcolumnsetproperties
F restorecurrentattributes	F setcolumnsetstart
F restorenote	F setcounter
F restoreobject	F setdataset
F reuserandomseed	F setdestinationattribute
F revivefeature	F setdigitsmanipulation
F romannumerals	F setdirection
F rounded	F setdocumentargument
F runbuffer	F setdocumentcommandline
F runcontextjob	F setdocumentctxfile
F safechar	F setdocumentdefaultargument
F savebuffer	F setdocumentenvironments
F savecounter	F setdocumentfilename
F savecurrentattributes	F setdocumentfilenames
F savedlistnumber	F setdocumentmodes
F savedlistprefixednumber	F setdocumentmodules
F savedlisttitle	F seteffect
F savefloat	F setelementuserproperties
F savefont	F setfieldcalculationset
F savemargindata	F setfigurelookuporder
F savenote	F setfigurepaths
F savepagedata	F setfirstline
F savepageinjections	F setfontfeature
F saveparallel	F setfontofid
F savespecificfloat	F setfontsolution
F savestructureblock	F setformat
F savetaggedtwopassdata	F setformsmethod
F savetwopassdata	F setsizecolumnset
F savevariable	F setsizecolumnspan
F second	F sethyphenatedurlcharacters
F selectstructureblock	F sethyphenationfeatures
F setactivecatcodes	F sethyphenationmethod
F setbreakpoints	F setinitial
F setcharacteralign	F setinitialsectionblock
F setcharactercasing	F setinjector
F setcharactercleaning	F setinnerreferencemethod

F setinsertionlocation	F setreferenceoperation
F setinterfaceconstant	F setregionbox
F setinterfaceelement	F setregionboxtagged
F setinterfacemessage	F setregistermethod
F setinterfacemessages	F setreplacements
F setinterfacevariable	F setscript
F setinternalreference	F setsectionblock
F setitaliccorrection	F setsectionentry
F setjavascriptpreamble	F setstructureblockstate
F setjobcomment	F setstructurelevel
F setlanguageexceptions	F setstructurenumber
F setlanguagesynonym	F setsubcounter
F setlettercatcodes	F settagaspect
F setmapfile	F settagcombination
F setmapline	F settagdelimitedsymbol
F setmarking	F settagfigure
F setmathalphabet	F settaggedmetadata
F setmathalternate	F settaghighlight
F setmathattribute	F settagitem
F setmathdirection	F settagitemgroup
F setmathdomain	F settaglist
F setmathitalics	F settagnotation
F setmathstyle	F settagnotationsymbol
F setmpextensions	F settagproperty
F setnaturalwd	F settagproperty_b
F setnegative	F settagproperty_n
F setnextinternalreference	F settagregister
F setnextreferenceorder	F settagsorting
F setnotestate	F settagssentencesymbol
F setopendocumentaction	F settagssynonym
F setopenpageaction	F settagtablecell
F setowncounter	F settagtabulatecell
F setownsubcounter	F setupbookmarks
F setpagecolormodel	F setupcanvas
F setpagestate	F setupcharacterspacing
F setpagestaterealpageno	F setupexport
F setpagetransition	F setupfontexpansion
F setparbuilder	F setupfontprotrusion
F setpdfcompression	F setupidentity
F setprofile	F setupinsertion
F setrandomseed	F setupitaliccorrection
F setrealign	F setuplinenumbering
F setrealspaces	F setuserinterface
F setreferencearguments	F setvalidinterfacekeys

F setvisual	F starttag_u
F setvisualfont	F starttext
F setvisuallayer	F startviewerlayer
F setvisuals	F step
F setvsizecolumnset	F stopactualtext
F setxmpfile	F stopchemical
F showassignerror	F stopcolorset
F showattributes	F stopcomponent
F showcounter	F stopenvironment
F showdebuginfo	F stopfontsolution
F showdirectives	F stopparbuilder
F showdiscretionaries	F stopproduct
F showexperiments	F stopproject
F showhyphenatedinlist	F stopregime
F showhyphenationtrace	F stopsectionlevel
F showinjector	F stopstream
F showjustification	F stoptag
F showlogcategories	F stoptext
F showmessage	F stopviewerlayer
F showtrackers	F storejavascriptcode
F sin	F storejavascriptpreamble
F sind	F storenote
F specifiedfont	F storeregister
F specifiedfontsize	F strdp
F specifiedfontspec	F strhd
F splitfilename	F strht
F spotcolorname	F strip
F spotcolorparent	F structureautocatcodedget
F spotcolorvalue	F structurecatcodedget
F startactualtext	F structuregivencatcodedget
F startchemical	F structurenumber
F startcolorset	F structuretitle
F startcomponent	F structureuservariable
F startenvironment	F structurevariable
F startfontsolution	F strwd
F startparbuilder	F subcountervalue
F startproduct	F subcountervalues
F startproject	F subsubcountervalues
F startregime	F subtractfeature
F startsectionlevel	F synccolor
F startstream	F synccolorclone
F starttag	F synccolorcount
F starttag_c	F synchronizemarking
F starttag_d	F synchronizestream

F synonymmeaning	F useluamodule
F synonymname	F usemodules
F systemlog	F usepath
F tagmfunctionlab	F useproduct
F tagmfunctiontxt	F useproject
F tan	F usesubpath
F tand	F usesymbols
F texdefinition_one	F usetexfile
F texdefinition_two	F usetexfileonce
F textime	F useurl
F thefirstcharacter	F usexmlfile
F themaxboxwidth	F usexmlfileonce
F theremainingcharacters	F usezipfile
F tochar	F utfchar
F transparencycomponents	F utfmathclass
F triggerpagebuilder	F utfmathcommand
F truefilename	F utfmathcommandabove
F type	F utfmathcommandbelow
F typebuffer	F utfmathcommandfiller
F typefile	F utfmathfiller
F uchar	F utfmathstretch
F uchexnumber	F vboxlisttohbox
F uchexnumbers	F verbose
F undefinechemical	F vspacing
F unicodechar	F vspacingcollapse
F unihex	F vspacingcollapseonly
F unit_normal	F vspacingdefine
F unit_reverse	F vspacingsetamount
F unloadlanguage	F vspacingsnap
F upper	F way
F useMPlibrary	F weekday
F useanyfile	F weekdayname
F useanyfileonce	F writestatus
F useclldfile	F x_table_c
F useclldfileonce	F x_table_cleanup
F usecolors	F x_table_construct
F usecomponent	F x_table_create
F useenvironment	F x_table_finish_row
F usefigurebase	F x_table_flush
F usefile	F x_table_init_construct
F usejavascriptpreamble	F x_table_init_reflow_height
F usejavascriptscripts	F x_table_init_reflow_height_option
F useluafile	F x_table_init_reflow_width
F useluafileonce	F x_table_init_reflow_width_option

F x_table_next_row	F xmldoiftext
F x_table_next_row_option	F xmlelement
F x_table_r	F xmlfilter
F x_table_reflow_height	F xmlfilterlist
F x_table_reflow_width	F xmlfirst
F x_table_set_construct	F xmlflush
F x_table_set_reflow_height	F xmlflushcontext
F x_table_set_reflow_width	F xmlflushlinewise
F xmladdindex	F xmlflushpure
F xmlaftersetup	F xmlflushsetup
F xmlall	F xmlflushspacewise
F xmlappendsetup	F xmlflushtext
F xmlapplyselectors	F xmlfunction
F xmlatt	F xmlgetindex
F xmlattdef	F xmlinclude
F xmlattribute	F xmlincludeoptions
F xmlattributedef	F xmlinclusion
F xmlbadinclusions	F xmlinclusions
F xmlbeforesetup	F xmlindex
F xmlchainatt	F xmlinlineverbatim
F xmlchainattdef	F xmlinstalldirective
F xmlchecknamespace	F xmllast
F xmlcommand	F xmllastatt
F xmlconcat	F xmllastmatch
F xmlconcatrange	F xmlload
F xmlcontext	F xmlloadbuffer
F xmlcount	F xmlloaddata
F xmldelete	F xmlloaddirectives
F xmldirect	F xmlloadentities
F xmldirectives	F xmlmain
F xmldirectivesafter	F xmlmatch
F xmldirectivesbefore	F xmlname
F xmldisplayverbatim	F xmlnamespace
F xmldoif	F xmlnonspace
F xmldoifelse	F xmlpath
F xmldoifelseempty	F xmlpos
F xmldoifelseselfempty	F xmlprependsetup
F xmldoifelsetext	F xmlpure
F xmldoifempty	F xmlraw
F xmldoifnot	F xmlrawtex
F xmldoifnotempty	F xmlrefatt
F xmldoifnotselfempty	F xmlregisterns
F xmldoifnottext	F xmlremapname
F xmldoifselfempty	F xmlremapnamespace



F xmlremovesetup	F xmlverbatim	
F xmlresetinjectors	F xmlwithindex	
F xmlresetsetups	F year	
F xmlsave	<b>setconstant</b>	function
F xmlsetcommandtonone	<b>setcount</b>	function
F xmlsetcommandtotext	<b>setdimen</b>	function
F xmlsetentity	<b>setelement</b>	function
F xmlsetinjectors	<b>setformat</b>	function
F xmlsetsetup	<b>setmacro</b>	function
F xmlsnippet	<b>setmessage</b>	function
F xmlstartrow	<b>setmessages</b>	function
F xmlstarttiming	<b>settranslation</b>	function
F xmlstoprow	<b>setupstrings</b>	data table
F xmlstoptiming	<b>setuserinterface</b>	function
F xmlstrip	<b>setvalidkeys</b>	function
F xmlstripanywhere	<b>setvariable</b>	function
F xmlstripnolines	<b>showmessage</b>	function
F xmlstripped	<b>storedscanners</b>	data table
F xmlstrippednolines	<b>strings</b>	table
F xmltag	<b>syntax</b>	data table
F xmltexentity	<b>tolist</b>	function
F xmltext	<b>translations</b>	data table
F xmltobuffer	<b>usednamespaces</b>	data table
F xmltobufferverbose	<b>variables</b>	data table
F xmltofile	<b>writestatus</b>	function
F xmltoparameters		

## io (basic lua)

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

# jit (context)

<b>arch</b>	string	<b>F_start</b>	
<b>attach</b>	function	<b>os</b>	string
<b>flush</b>	function	<b>status</b>	function
<b>off</b>	function	<b>version</b>	string
<b>on</b>	function	<b>version_num</b>	number
<b>opt</b>	table		

# job (context)

<b>comment</b>	function	F find	
<b>datasets</b>	table	F first	
D collected		F get	
F extend		F getcollected	
F getdata		F getdata	
F setdata		F getfield	
D tobesaved		F gettobesaved	
<b>disablesave</b>	function	F inlist	
<b>fileobjreferences</b>	table	F last	
D collected		F list	
D tobesaved		F save	
<b>files</b>	table	F savetagged	
D collected		D tobesaved	
F context		<b>positions</b>	table
B forcerun		F b_column	
F run		F b_region	
D tobesaved		F c	
<b>initialize</b>	function	D collected	
<b>load</b>	function	F column	
<b>loadother</b>	function	F copy	
<b>objects</b>	table	F depth	
D collected		F e_column	
F get		F e_region	
F number		F enhance	
F page		F extra	
F save		F get	
F set		F getreserved	
D tobesaved		F gettobesaved	
<b>pack</b>	boolean	F hangafter	
<b>packversion</b>	number	F hangindent	
<b>pagestates</b>	table	F height	
D collected		F hsize	
F extend		F leftskip	
F realpage		F lowerleft	
F setstate		F lowerright	
D tobesaved		F markregionbox	
<b>passes</b>	table	F n	
F check		F onsamepage	
D collected		F overlapping	
F count		F p	
F define		F page	

F paragraph	<b>save</b>	function
F parindent	<b>structure</b>	table
F position	D collected	
F r	T components	
F region	T tobesaved	
F replace	T branches	
F rightskip	S name	
F set	S type	
F setall	<b>variables</b>	table
F setregionbox	D checksums	
D tobesaved	D collected	
F upperleft	F getchecksum	
F upperright	F makechecksum	
S used	F restore	
F width	F save	
F x	F setchecksum	
F xy	D tobesaved	
F y	<b>version</b>	number
<b>register</b>		
		function

## lang (basic tex)

<b>clean</b>	function
<b>clear_hyphenation</b>	function
<b>clear_patterns</b>	function
<b>exceptions</b>	function
<b>gethjcode</b>	function
<b>hyphenate</b>	function
<b>hyphenation</b>	function
<b>hyphenationmin</b>	function

<b>id</b>	function
<b>new</b>	function
<b>patterns</b>	function
<b>postexhyphenchar</b>	function
<b>posthyphenchar</b>	function
<b>preexhyphenchar</b>	function
<b>prehyphenchar</b>	function
<b>sethjcode</b>	function

# languages (context)

<b>associate</b>	function	<b>F registerexception</b>	
<b>associated</b>	data table	<b>F registerpattern</b>	
<b>association</b>	function	<b>F setfeatures</b>	
<b>counters</b>	data table	<b>installed</b>	function
<b>current</b>	function	<b>labels</b>	table
<b>data</b>	data table	<b>F define</b>	
<b>decimals</b>	data table	<b>F split</b>	
<b>define</b>	function	<b>loadable</b>	function
<b>expand</b>	function	<b>loadwords</b>	function
<b>expanders</b>	table	<b>logger</b>	table
<b>frequencies</b>	table	<b>F report</b>	
<b>F averagecharwidth</b>		<b>numbers</b>	data table
<b>F getdata</b>		<b>postexhyphenchar</b>	function
<b>getdata</b>	function	<b>posthyphenchar</b>	function
<b>getnumber</b>	function	<b>preexhyphenchar</b>	function
<b>hjcounts</b>	table	<b>prehyphenchar</b>	function
<b>hyphenate</b>	function	<b>registered</b>	data table
<b>hyphenators</b>	table	<b>replacements</b>	table
<b>T dictionaries</b>		<b>F add</b>	
<b>D featuresets</b>		<b>F handler</b>	
<b>F handler</b>		<b>F set</b>	
<b>T methods</b>		<b>serializediscretionary</b>	function
<b>F expanded</b>		<b>setexceptions</b>	function
<b>B none</b>		<b>setsynonym</b>	function
<b>F original</b>		<b>showdiscretionaries</b>	function
<b>F tex</b>		<b>unload</b>	function
<b>F traditional</b>		<b>urls</b>	table
<b>B optimize</b>		<b>D characters</b>	
<b>F popmethod</b>		<b>N lefthyphenmin</b>	
<b>F pushmethod</b>		<b>D mapping</b>	
<b>F setmethod</b>		<b>B packslashes</b>	
<b>F setup</b>		<b>N righthyphenmin</b>	
<b>F showhyphenationtrace</b>		<b>F setcharacters</b>	
<b>T traditional</b>		<b>version</b>	number
<b>F definefeatures</b>		<b>visualizediscretionaries</b>	function
<b>F gettrace</b>		<b>words</b>	table
<b>F hyphenate</b>		<b>F check</b>	
<b>F injecthyphens</b>		<b>T data</b>	
<b>F installmethod</b>		<b>F disable</b>	
<b>F lasttrace</b>		<b>F enable</b>	
<b>F loadpatterns</b>		<b>T enablers</b>	

B enables

T methods

F found

N threshold

F load



# layouts (context)

<b>status</b>	table	F leftorrightpageaction
	F isleftpage	

## lfs (extra lua)

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

## libraries (context)

**basiclua** data table

**basictex** data table

**builtin** data table

**extralua** data table

**extratex** data table

**functions** data table

**globals** data table

## lmx (context)

<b>color</b>	function
<b>convert</b>	function
<b>convertfile</b>	function
<b>convertstring</b>	function
<b>einject</b>	function
<b>eprint</b>	function
<b>escape</b>	function
<b>finalized</b>	function
<b>finject</b>	function
<b>fprint</b>	function
<b>get</b>	function
<b>getvariables</b>	function
<b>htmfile</b>	function
<b>html</b>	table
F a	
F td	
F th	
<b>include</b>	function
<b>inherited</b>	table
S color-background-four	
S color-background-one	
S color-background-three	
S color-background-two	
S title	
<b>initialize</b>	function
<b>inject</b>	function
<b>lmxfile</b>	function

<b>loadedfile</b>	function
<b>make</b>	function
<b>new</b>	function
<b>overloaderror</b>	function
<b>popupfile</b>	function
<b>print</b>	function
<b>pv</b>	function
<b>report</b>	function
<b>reset</b>	function
<b>result</b>	function
<b>set</b>	function
<b>show</b>	function
<b>showdebuginfo</b>	function
<b>showerror</b>	function
<b>stripcss</b>	function
<b>tv</b>	function
<b>type</b>	function
<b>urlescape</b>	function
<b>variable</b>	function
<b>variables</b>	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)

<b>application</b>	function
<b>categories</b>	function
<b>direct</b>	function
<b>disable</b>	function
<b>enable</b>	function
<b>exporters</b>	table
<b>extendbanner</b>	function
<b>flush</b>	function
<b>help</b>	function
<b>messenger</b>	function
<b>new</b>	function
<b>newline</b>	function
<b>poptarget</b>	function
<b>pushtarget</b>	function
<b>report</b>	function
<b>reportbanner</b>	function
<b>reporter</b>	function
<b>reporters</b>	table
F banner	
F export	
F help	
F info	
F lines	
F version	
<b>reportline</b>	function

<b>reportlines</b>	function
<b>setformats</b>	function
<b>setformatters</b>	function
<b>setlogfile</b>	function
<b>setmessenger</b>	function
<b>setprocessor</b>	function
<b>setprogram</b>	function
<b>settarget</b>	function
<b>settimedlog</b>	function
<b>settranslations</b>	function
<b>show</b>	function
<b>show_close</b>	function
<b>show_load</b>	function
<b>show_open</b>	function
<b>simple</b>	function
<b>simpleline</b>	function
<b>simplelines</b>	function
<b>start_page_number</b>	function
<b>status</b>	function
<b>stop_page_number</b>	function
<b>subdirect</b>	function
<b>subreport</b>	function
<b>system</b>	function
<b>texerrormessage</b>	function
<b>writer</b>	function

# lpdf (context)

<b>action</b>	function	<b>finalizedocument</b>	function
<b>adddocumentcolorspace</b>	function	<b>finalizepage</b>	function
<b>adddocumenttextgstate</b>	function	<b>finishtransparencycode</b>	function
<b>adddocumentpattern</b>	function	<b>flushobject</b>	function
<b>adddocumentshade</b>	function	<b>flushstreamfileobject</b>	function
<b>addtocatalog</b>	function	<b>flushstreamobject</b>	function
<b>addtoinfo</b>	function	<b>formats</b>	data table
<b>addtonames</b>	function	<b>frompdfdoc</b>	function
<b>addtopageattributes</b>	function	<b>fromsixteen</b>	function
<b>addtopageresources</b>	function	<b>gethpos</b>	function
<b>addtopagesattributes</b>	function	<b>getmatrix</b>	function
<b>addtxmpinfo</b>	function	<b>getpos</b>	function
<b>annotationspecification</b>	function	<b>getvpos</b>	function
<b>array</b>	function	<b>graycode</b>	function
<b>boolean</b>	function	<b>hasmatrix</b>	function
<b>border</b>	function	<b>id</b>	function
<b>checkedkey</b>	function	<b>injecttxmpinfo</b>	function
<b>checkedvalue</b>	function	<b>inserttxmpinfo</b>	function
<b>circularshade</b>	function	<b>layerreference</b>	function
<b>cmykcode</b>	function	<b>limited</b>	function
<b>collectedresources</b>	function	<b>linearshade</b>	function
<b>color</b>	function	<b>nametree</b>	function
<b>colorspace</b>	function	<b>null</b>	function
<b>colorspaceconstants</b>	data table	<b>number</b>	function
<b>colorspec</b>	function	<b>pagereference</b>	function
<b>colorvalue</b>	function	<b>patternstream</b>	function
<b>colorvalues</b>	function	<b>pdfcolor</b>	function
<b>constant</b>	function	<b>pdftimestamp</b>	function
<b>delayedobject</b>	function	<b>permitdetail</b>	function
<b>destinationspecification</b>	function	<b>protectresources</b>	boolean
<b>dictionary</b>	function	<b>rectangle</b>	function
<b>docstring</b>	function	<b>reference</b>	function
<b>epdf</b>	table	<b>registerannotation</b>	function
F contenttotext		<b>registerdestination</b>	function
F expand		<b>registerdocumentfinalizer</b>	function
F expanded		<b>registerpagefinalizer</b>	function
F getpagecontent		<b>registerpattern</b>	function
F getstructure		<b>reserveobject</b>	function
F load		<b>rgbcode</b>	function
F unload		<b>rotationcm</b>	function
<b>escaped</b>	function	<b>setdates</b>	function

<b>settime</b>	function	<b>tosixteen</b>	function
<b>settrailerid</b>	function	<b>transform</b>	function
<b>shareobject</b>	function	<b>transparency</b>	function
<b>shareobjectreference</b>	function	<b>transparencycode</b>	function
<b>spotcode</b>	function	<b>transparencygroups</b>	table
<b>stream</b>	function	<b>B none</b>	
<b>string</b>	function	<b>transparencyvalue</b>	function
<b>timestamp</b>	function	<b>unicode</b>	function
<b>toeight</b>	function	<b>verbose</b>	function
<b>topdfdoc</b>	function		

## lpeg (basic lua)

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



# ltn12 (extra lua)

**BLOCKSIZE**    number

**filter**        table

    F chain

    F cycle

**pump**          table

    F all

    F step

**sink**           table

    F chain

    F error

    F file

    F null

    F simplify

    F table

**source**        table

    F cat

    F chain

    F empty

    F error

    F file

    F rewind

    F simplify

    F string

# lua (basic tex)

<b>bytecode</b>	table	<b>lastbytecode</b>	number
<b>bytedata</b>	data table	<b>mask</b>	string
<b>bytdone</b>	table	<b>messages</b>	data table
B page-cst		<b>name</b>	table
<b>collectgarbage</b>	function	<b>numbers</b>	data table
<b>delay</b>	function	<b>registercode</b>	function
<b>finalize</b>	function	<b>registeredcodes</b>	function
<b>firstbytecode</b>	number	<b>registerfinalizer</b>	function
<b>flush</b>	function	<b>registername</b>	function
<b>flushdelayed</b>	function	<b>setbytecode</b>	function
<b>get_functions_table</b>	function	<b>setluaname</b>	function
<b>getbytecode</b>	function	<b>startupfile</b>	string
<b>getluaname</b>	function	<b>version</b>	string

## luatex (context)

**cleanuptempfiles**      function  
**registerdumpactions**    function  
**registerpageactions**    function  
**registerstartactions**   function

**registerstopactions**    function  
**registertempfile**       function  
**starttime**               number

## lxml (context)

<b>addindex</b>	function	<b>flush</b>	function
<b>all</b>	function	<b>flushlinewise</b>	function
<b>applyfunction</b>	function	<b>flushsetups</b>	function
<b>applyselectors</b>	function	<b>flushspacewise</b>	function
<b>att</b>	function	<b>get_id</b>	function
<b>attribute</b>	function	<b>getid</b>	function
<b>badinclusions</b>	function	<b>getindex</b>	function
<b>chainattribute</b>	function	<b>id</b>	function
<b>checkindex</b>	function	<b>idsplitter</b>	userdata
<b>collected</b>	function	<b>include</b>	function
<b>command</b>	function	<b>inclusion</b>	function
<b>concat</b>	function	<b>inclusions</b>	function
<b>concatrange</b>	function	<b>index</b>	function
<b>content</b>	function	<b>inlineverbatimim</b>	function
<b>context</b>	function	<b>installsetup</b>	function
<b>convert</b>	function	<b>last</b>	function
<b>count</b>	function	<b>lastatt</b>	function
<b>delete</b>	function	<b>lastmatch</b>	function
<b>direct</b>	function	<b>load</b>	function
<b>directives</b>	table	<b>loadbuffer</b>	function
F after		<b>loaddata</b>	function
F before		<b>loaded</b>	table
F handle		<b>main</b>	function
F load		<b>match</b>	function
F setup		<b>name</b>	function
<b>displayverbatimim</b>	function	<b>namespace</b>	function
<b>doif</b>	function	<b>nonspace</b>	function
<b>doifelse</b>	function	<b>path</b>	function
<b>doifelseempty</b>	function	<b>pos</b>	function
<b>doifelsetext</b>	function	<b>position</b>	function
<b>doifempty</b>	function	<b>pure</b>	function
<b>doifnot</b>	function	<b>raw</b>	function
<b>doifnotempty</b>	function	<b>rawroot</b>	function
<b>doifnottext</b>	function	<b>rawtex</b>	function
<b>doiftext</b>	function	<b>refatt</b>	function
<b>element</b>	function	<b>register</b>	function
<b>elements</b>	function	<b>registerentity</b>	function
<b>entities</b>	data table	<b>removesetup</b>	function
<b>filter</b>	function	<b>resetcdata</b>	function
<b>filterlist</b>	function	<b>resetsetups</b>	function
<b>first</b>	function	<b>resolvedentity</b>	function

<b>root</b>	function	<b>startraw</b>	function
<b>save</b>	function	<b>startunesaped</b>	function
<b>serialize</b>	function	<b>stopraw</b>	function
<b>setaction</b>	function	<b>stopunesaped</b>	function
<b>setcdata</b>	function	<b>store</b>	function
<b>setcommandtonone</b>	function	<b>strip</b>	function
<b>setcommandtotext</b>	function	<b>stripped</b>	function
<b>setsetup</b>	function	<b>tag</b>	function
<b>snippet</b>	function	<b>text</b>	function
<b>sorters</b>	table	<b>tobuffer</b>	function
F add		<b>tofile</b>	function
F compare		<b>toparameters</b>	function
F flush		<b>toverbatim</b>	function
F reset		<b>verbatim</b>	function
F show		<b>withindex</b>	function
F sort		<b>xmltexhandler</b>	data table
<b>splitid</b>	function		

## math (basic lua)

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

# mathematics (context)

<b>addfallbacks</b>	function	<b>injectfallbacks</b>	function
<b>alphabets</b>	data table	<b>makefont</b>	function
<b>alternatives</b>	data table	<b>mapremap</b>	data table
<b>big</b>	function	<b>overloadadditions</b>	function
<b>boldmap</b>	data table	<b>overloadparameters</b>	function
<b>categories</b>	table	<b>privatebase</b>	number
D functions		<b>registerdomain</b>	function
<b>charactersets</b>	data table	<b>remapalphabets</b>	function
<b>checkaccentbaseheight</b>	function	<b>renderings</b>	table
<b>checkprivateparameters</b>	function	D mappings	
<b>classes</b>	data table	D numbers	
<b>codes</b>	data table	D sets	
<b>define</b>	function	<b>renderset</b>	function
<b>dimensions</b>	function	<b>resetattributes</b>	function
<b>domains</b>	table	<b>resetitalics</b>	function
<b>extensiblecode</b>	function	<b>scaleparameters</b>	function
<b>extensibles</b>	data table	<b>setdomain</b>	function
<b>extrabase</b>	number	<b>setitalics</b>	function
<b>extras</b>	table	<b>sets</b>	data table
F add		<b>styles</b>	data table
F copy		<b>syncboth</b>	function
<b>fallbacks</b>	table	<b>syncname</b>	function
F apply		<b>syncstyle</b>	function
F install		<b>toname</b>	function
<b>fallbackstyleattr</b>	function	<b>tostyle</b>	function
<b>families</b>	data table	<b>tweakaftercopyingfont</b>	function
<b>gaps</b>	data table	<b>tweakbeforecopyingfont</b>	function
<b>getboth</b>	function	<b>tweaks</b>	table
<b>getdomain</b>	function	<b>utfmathaccent</b>	function
<b>getitalics</b>	function	<b>utfmathclass</b>	function
<b>getstyle</b>	function	<b>utfmathcommand</b>	function
<b>horizontalcode</b>	function	<b>utfmathfiller</b>	function
<b>initializeparameters</b>	function	<b>utfmathstretch</b>	function

## mbox (context)

<b>parse</b>	function
<b>parse_from</b>	function
<b>parse_header</b>	function
<b>parse_headers</b>	function

<b>parse_message</b>	function
<b>split_headers</b>	function
<b>split_mbox</b>	function
<b>split_message</b>	function



## md5 (extra lua)

**HEX**      function

**crypt**    function

**dec**      function

**decrypt** function

**exor**     function

**hex**      function

**sum**      function

**sumhexa** function

# metapost (context)

<b>analyzeplugins</b>	function	<b>getstatistics</b>	function
<b>checkformat</b>	function	<b>gettext</b>	function
<b>checktexts</b>	function	<b>graphic</b>	function
<b>collapse</b>	boolean	<b>graphic_base_pass</b>	function
<b>colorinitializer</b>	function	<b>initializescriptrunner</b>	function
<b>comment</b>	function	<b>instance</b>	function
<b>convert</b>	function	<b>intermediate</b>	table
<b>defaultformat</b>	string	T actions	
<b>defaultinstance</b>	string	F makempy	
<b>defaultmethod</b>	string	<b>lastlog</b>	string
<b>directrun</b>	function	<b>load</b>	function
<b>escaped</b>	function	<b>makempy</b>	table
<b>exectime</b>	table	N nofconverted	
<b>extensiondata</b>	data table	F processgraphics	
<b>filterclippath</b>	function	F registerfile	
<b>flush</b>	function	<b>maketext</b>	function
<b>flushers</b>	table	<b>metafun</b>	table
T pdf		F interpolate	
F comment		F topath	
F flushfigure		<b>method</b>	number
F startfigure		<b>mptopdf</b>	table
F stopfigure		F convertmpstopdf	
F textfigure		N nofconverted	
<b>flushliteral</b>	function	<b>n</b>	number
<b>flushnormalpath</b>	function	<b>nvformat</b>	function
<b>flushreset</b>	function	<b>optimize</b>	boolean
<b>fonts</b>	table	<b>parse</b>	function
F define		<b>pdfliterals</b>	function
T flusher		<b>pluginactions</b>	function
F flushfigure		<b>popvariable</b>	function
F startfigure		<b>popvariables</b>	function
F stopfigure		<b>process</b>	function
N instances		<b>processplugins</b>	function
F process		<b>processspecial</b>	function
<b>format</b>	function	<b>properties</b>	table
<b>format_number</b>	function	<b>pushvariable</b>	function
<b>format_string</b>	function	<b>pushvariables</b>	function
<b>formatnumber</b>	function	<b>quickanddirty</b>	function
<b>getclippath</b>	function	<b>reducetogray</b>	boolean
<b>getextensions</b>	function	<b>reporterror</b>	function
<b>getjobdata</b>	function	<b>reset</b>	function

<b>resetlastlog</b>	function	F get	
<b>resetplugins</b>	function	F reset	
<b>runscript</b>	function	F set	
<b>scripterror</b>	function	F setfrombuffer	
<b>setextensions</b>	function	<b>texerrors</b>	boolean
<b>setoutercolor</b>	function	<b>texexp</b>	function
<b>settext</b>	function	<b>texttextsdata</b>	function
<b>setvariable</b>	function	<b>theclippath</b>	function
<b>showlog</b>	boolean	<b>totable</b>	function
<b>simple</b>	function	<b>unload</b>	function
<b>svformat</b>	function	<b>untagvariable</b>	function
<b>tex</b>	table	<b>variables</b>	table

## mime (extra lua)

**b64** function

**decode** function

**decodet** table

F base64

F quoted-printable

**dot** function

**encode** function

**encodet** table

F base64

F quoted-printable

**eol** function

**normalize** function

**qp** function

**qpwrp** function

**stuff** function

**unb64** function

**unqp** function

**wrap** function

**wrapt** table

F base64

F default

F quoted-printable

F text

**wrp** function

## mp (context)

<b>BackSpace</b>	function	<b>OuterMarginWidth</b>	function
<b>BaselineSkip</b>	function	<b>OverlayDepth</b>	function
<b>BodyFontSize</b>	function	<b>OverlayHeight</b>	function
<b>BottomDistance</b>	function	<b>OverlayLineWidth</b>	function
<b>BottomHeight</b>	function	<b>OverlayOffset</b>	function
<b>BottomSpace</b>	function	<b>OverlayWidth</b>	function
<b>CurrentColumn</b>	function	<b>PageDepth</b>	function
<b>CurrentHeight</b>	function	<b>PageFraction</b>	function
<b>CurrentWidth</b>	function	<b>PageNumber</b>	function
<b>CutSpace</b>	function	<b>PageOffset</b>	function
<b>EmWidth</b>	function	<b>PaperBleed</b>	function
<b>ExHeight</b>	function	<b>PaperHeight</b>	function
<b>FooterDistance</b>	function	<b>PaperWidth</b>	function
<b>FooterHeight</b>	function	<b>PrintPaperHeight</b>	function
<b>HSize</b>	function	<b>PrintPaperWidth</b>	function
<b>HeaderDistance</b>	function	<b>RealPageNumber</b>	function
<b>HeaderHeight</b>	function	<b>RightEdgeDistance</b>	function
<b>InPageBody</b>	function	<b>RightEdgeWidth</b>	function
<b>InnerEdgeDistance</b>	function	<b>RightMarginDistance</b>	function
<b>InnerEdgeWidth</b>	function	<b>RightMarginWidth</b>	function
<b>InnerMarginDistance</b>	function	<b>SpineWidth</b>	function
<b>InnerMarginWidth</b>	function	<b>StrutDepth</b>	function
<b>LastPageNumber</b>	function	<b>StrutHeight</b>	function
<b>LayoutColumnDistance</b>	function	<b>TextHeight</b>	function
<b>LayoutColumnWidth</b>	function	<b>TextWidth</b>	function
<b>LayoutColumns</b>	function	<b>TopDistance</b>	function
<b>LeftEdgeDistance</b>	function	<b>TopHeight</b>	function
<b>LeftEdgeWidth</b>	function	<b>TopSkip</b>	function
<b>LeftMarginDistance</b>	function	<b>TopSpace</b>	function
<b>LeftMarginWidth</b>	function	<b>VSize</b>	function
<b>LineHeight</b>	function	<b>_f_</b>	function
<b>MakeupHeight</b>	function	<b>boolean</b>	function
<b>MakeupWidth</b>	function	<b>dataset</b>	function
<b>NOfColumns</b>	function	<b>datasets</b>	table
<b>NOfPages</b>	function	<b>F load</b>	
<b>NamedColor</b>	function	<b>defaultcolormodel</b>	function
<b>OnOddPage</b>	function	<b>format</b>	function
<b>OnRightPage</b>	function	<b>formatted</b>	function
<b>OuterEdgeDistance</b>	function	<b>get</b>	table
<b>OuterEdgeWidth</b>	function	<b>F boolean</b>	
<b>OuterMarginDistance</b>	function	<b>F number</b>	

<code>F numeric</code>		<b><code>quadruple</code></b>	<code>function</code>
<code>F string</code>		<b><code>quoted</code></b>	<code>function</code>
<b><code>get_outline_text</code></b>	<code>function</code>	<b><code>report</code></b>	<code>function</code>
<b><code>graphformat</code></b>	<code>function</code>	<b><code>size</code></b>	<code>function</code>
<b><code>n</code></b>	<code>function</code>	<b><code>tb_dimensions</code></b>	<code>function</code>
<b><code>numeric</code></b>	<code>function</code>	<b><code>triplet</code></b>	<code>function</code>
<b><code>pair</code></b>	<code>function</code>	<b><code>tt_dimensions</code></b>	<code>function</code>
<b><code>path</code></b>	<code>function</code>	<b><code>tt_initialize</code></b>	<code>function</code>
<b><code>print</code></b>	<code>function</code>		

## mplib (extra tex)

<b>fields</b>	function	<b>get_numeric</b>	function
<b>finder</b>	function	<b>get_string</b>	function
<b>finders</b>	table	<b>new</b>	overloaded function
<b>F file</b>		<b>pen_info</b>	function
<b>get_boolean</b>	function	<b>preprocessed</b>	function
<b>get_number</b>	function	<b>version</b>	function

# noads (context)

**handlers**            table

- F alternates
- F autofences
- F classes
- F collapse
- F domains
- F families
- F italics
- F relocate
- F render
- F resize
- F showtree
- F tags

F unscript

F variants

**process**            function

**processnested**    function

**processors**        table

T autofences

T collapse

F mlist\_to\_hlist

T relocate

T render

T resize

T unscript

**processouter**     function



## node (basic tex)

**check\_discretionaries** function  
**check\_discretionary** function  
**copy** function  
**copy\_list** function  
**count** function  
**current\_attr** function  
**dimensions** function  
**direct** table

F check\_discretionaries  
F check\_discretionary  
F copy  
F copy\_list  
F count  
F current\_attr  
F dimensions  
F effective\_glue  
F end\_of\_math  
F find\_attribute  
F first\_glyph  
F flush\_list  
F flush\_node  
F flush\_properties\_table  
F free  
F get\_attribute  
F get\_properties\_table  
F getboth  
F getbox  
F getchar  
F getdisc  
F getfield  
F getfont  
F getglue  
F getid  
F getleader  
F getlist  
F getnext  
F getprev  
F getproperty  
F getsubtype  
F has\_attribute  
F has\_field

F has\_glyph  
F hpack  
F insert\_after  
F insert\_before  
F is\_char  
F is\_direct  
F is\_glyph  
F is\_node  
F is\_zero\_glue  
F kerning  
F last\_node  
F length  
F ligaturing  
F new  
F protect\_glyph  
F protect\_glyphs  
F protrusion\_skipable  
F remove  
F set\_attribute  
F set\_properties\_mode  
F setboth  
F setbox  
F setchar  
F setdisc  
F setfield  
F setglue  
F setleader  
F setlink  
F setlist  
F setnext  
F setprev  
F setproperty  
F setsubtype  
F slide  
F tail  
F todirect  
F tonode  
F tostring  
F traverse  
F traverse\_char  
F traverse\_id

F unprotect_glyphs		<b>is_node</b>	function
F unset_attribute		<b>is_zero_glue</b>	function
F usedlist		<b>kerning</b>	function
F vpack		<b>last_node</b>	function
F write		<b>length</b>	function
<b>effective_glue</b>	function	<b>ligaturing</b>	function
<b>end_of_math</b>	function	<b>mlist_to_hlist</b>	function
<b>family_font</b>	function	<b>new</b>	function
<b>fields</b>	function	<b>next</b>	function
<b>find_attribute</b>	function	<b>prev</b>	function
<b>first_glyph</b>	function	<b>protect_glyph</b>	function
<b>flush_list</b>	function	<b>protect_glyphs</b>	function
<b>flush_node</b>	function	<b>protrusion_skippable</b>	function
<b>flush_properties_table</b>	function	<b>remove</b>	function
<b>free</b>	function	<b>set_attribute</b>	function
<b>get_attribute</b>	function	<b>set_properties_mode</b>	function
<b>get_properties_table</b>	function	<b>setboth</b>	function
<b>getboth</b>	function	<b>setfield</b>	function
<b>getchar</b>	function	<b>setglue</b>	function
<b>getdisc</b>	function	<b>setlink</b>	function
<b>getfield</b>	function	<b>setnext</b>	function
<b>getfont</b>	function	<b>setprev</b>	function
<b>getglue</b>	function	<b>setproperty</b>	function
<b>getid</b>	function	<b>slide</b>	function
<b>getleader</b>	function	<b>subtype</b>	function
<b>getlist</b>	function	<b>subtypes</b>	function
<b>getnext</b>	function	<b>tail</b>	function
<b>getprev</b>	function	<b>tostring</b>	function
<b>getproperty</b>	function	<b>traverse</b>	function
<b>getsubtype</b>	function	<b>traverse_char</b>	function
<b>has_attribute</b>	function	<b>traverse_id</b>	function
<b>has_field</b>	function	<b>type</b>	function
<b>has_glyph</b>	function	<b>types</b>	function
<b>hpack</b>	function	<b>unprotect_glyphs</b>	function
<b>id</b>	function	<b>unset_attribute</b>	function
<b>insert_after</b>	function	<b>usedlist</b>	function
<b>insert_before</b>	function	<b>vpack</b>	function
<b>is_char</b>	function	<b>whatsits</b>	function
<b>is_glyph</b>	function	<b>write</b>	function

## nodes (context)

<b>accentcodes</b>	data table	<b>firstcharacter</b>	function
<b>aligned</b>	function	<b>firstcharinbox</b>	function
<b>append</b>	function	<b>firstdirinbox</b>	function
<b>astable</b>	function	<b>firstglyph</b>	function
<b>basepoints</b>	function	<b>flush</b>	function
<b>boundarycodes</b>	data table	<b>flush_list</b>	function
<b>boxes</b>	table	<b>flush_node</b>	function
F dimensions		<b>free</b>	function
F direct		<b>fullhpack</b>	function
F reset		<b>getbox</b>	function
F restore		<b>getchar</b>	function
F save		<b>getdisc</b>	function
<b>builders</b>	table	<b>getfield</b>	function
F buildpage_filter		<b>getfont</b>	function
F vpack_filter		<b>getglue</b>	function
<b>check_discretionaries</b>	function	<b>getid</b>	function
<b>codes</b>	data table	<b>getleader</b>	function
<b>concat</b>	function	<b>getlist</b>	function
<b>copy</b>	function	<b>getnext</b>	function
<b>copy_list</b>	function	<b>getprev</b>	function
<b>copy_node</b>	function	<b>getskip</b>	function
<b>count</b>	function	<b>getsubtype</b>	function
<b>current_attr</b>	function	<b>gluecodes</b>	data table
<b>delete</b>	function	<b>glyphcodes</b>	data table
<b>destinations</b>	table	<b>glyphdir_is_equal</b>	data table
N attribute		<b>glyphdir_is_opposite</b>	data table
T done		<b>glyphdir_is_orthogonal</b>	data table
F handler		<b>handlers</b>	table
T stack		F accessibility	
<b>dimensionfields</b>	data table	F alignbackgrounds	
<b>dimensions</b>	function	F backgrounds	
<b>dir_is_pop</b>	data table	F characters	
<b>dir_negation</b>	data table	F checkforleaks	
<b>disccodes</b>	data table	F checkglyphs	
<b>discretionarycodes</b>	data table	F cleanupbox	
<b>effective_glue</b>	function	F cleanuppage	
<b>end_of_math</b>	function	F export	
<b>fencecodes</b>	data table	F finalize	
<b>fields</b>	function	F migrate	
<b>fillcodes</b>	data table	F protectglyphs	
<b>first_glyph</b>	function	F stripping	

<code>F unprotectglyphs</code>		<code>leftmarginwidth</code>	function
<code>has_attribute</code>	function	<code>ligaturing</code>	function
<code>has_field</code>	function	<code>linefillers</code>	table
<code>has_glyph</code>	function	<code>D data</code>	
<code>hpack</code>	function	<code>F define</code>	
<code>idstousing</code>	function	<code>F enable</code>	
<code>ignorablefields</code>	data table	<code>F handler</code>	
<code>injections</code>	table	<code>lines</code>	table
<code>F copy</code>		<code>T boxed</code>	
<code>F getligaindex</code>		<code>F register</code>	
<code>F getthreshold</code>		<code>F setup</code>	
<code>F handler</code>		<code>F stage_one</code>	
<code>F installnewkern</code>		<code>F stage_two</code>	
<code>F isspace</code>		<code>D data</code>	
<code>F keepcounts</code>		<code>F finalize</code>	
<code>F reset</code>		<code>F number</code>	
<code>F resetcounts</code>		<code>N scratchbox</code>	
<code>F setcursive</code>		<code>link</code>	function
<code>F setkern</code>		<code>linked</code>	function
<code>F setligaindex</code>		<code>list</code>	function
<code>F setmark</code>		<code>listablefields</code>	data table
<code>F setpair</code>		<code>listcodes</code>	data table
<code>F setspacekerns</code>		<code>listtutf</code>	function
<code>insert_after</code>	function	<code>load</code>	function
<code>insert_before</code>	function	<code>locate</code>	function
<code>insert_list_after</code>	function	<code>margincodes</code>	data table
<code>installattributehandler</code>	function	<code>marginkerncodes</code>	data table
<code>is_char</code>	function	<code>markers</code>	table
<code>is_direct</code>	function	<code>F get</code>	
<code>is_display_math</code>	function	<code>mathcodes</code>	data table
<code>is_glyph</code>	function	<code>maxboxwidth</code>	function
<code>is_mirrored</code>	data table	<code>mlist_to_hlist</code>	function
<code>is_node</code>	function	<code>new</code>	function
<code>is_nut</code>	function	<code>noadcodes</code>	data table
<code>is_rotated</code>	data table	<code>noadoptions</code>	table
<code>is_zero_glue</code>	function	<code>N axis</code>	
<code>ischar</code>	function	<code>N exact</code>	
<code>isglyph</code>	function	<code>N left</code>	
<code>kerncodes</code>	data table	<code>N middle</code>	
<code>kerning</code>	function	<code>N no_axis</code>	
<code>keys</code>	table	<code>N right</code>	
<code>T whatsit</code>		<code>N set</code>	
<code>last_node</code>	function	<code>N unused_1</code>	
<code>leadercodes</code>	data table	<code>N unused_2</code>	

**nodecodes****nopts****nuts**

F append  
 F check\_discretionaries  
 F concat  
 F copy  
 F copy\_list  
 F copy\_node  
 F copy\_properties  
 F copyvisual  
 F count  
 F current\_attr  
 F delete  
 F dimensions  
 F effective\_glue  
 F end\_of\_math  
 F first\_glyph  
 F firstcharacter  
 F firstcharinbox  
 F firstglyph  
 F flush  
 F flush\_list  
 F flush\_node  
 F free  
 F fullhpack  
 F getattr  
 F getattribute  
 F getboth  
 F getbox  
 F getchar  
 F getdisc  
 F getfield  
 F getfont  
 F getglue  
 F getid  
 F getleader  
 F getlist  
 F getnext  
 F getprev  
 F getprop  
 F getskip  
 F getsubtype  
 F has\_attribute

**data table****function****table**

F has\_field  
 F has\_glyph  
 F hpack  
 F insert\_after  
 F insert\_before  
 F insert\_list\_after  
 F is\_char  
 F is\_direct  
 F is\_display\_math  
 F is\_glyph  
 F is\_node  
 F is\_nut  
 F is\_zero\_glue  
 F ischar  
 F isglyph  
 F kerning  
 F last\_node  
 F leftmarginwidth  
 F ligaturing  
 F link  
 F linked  
 F locate  
 F mlist\_to\_hlist  
 F nestedtracedslide  
 F new  
 T pool  
 F baselineskip  
 F boundary  
 F cleanup  
 F disc  
 F emptyrule  
 F fontkern  
 F glue  
 F gluespec  
 F glyph  
 F hlist  
 F italicickern  
 F kern  
 F latelua  
 F lateluafunction  
 F leftmarginkern  
 F leftskip  
 F lineskip  
 F negatedglue

F noad	F remove
F pdfannotation	F repackhlist
F pdfdestination	F replace
F pdfdirect	F rightmarginwidth
F pdfdirectliteral	F set_attribute
F pdfliteral	F setattr
F pdfpage	F setattrattribute
F pdfpageliteral	F setattrattributes
F pdfrestore	F setboth
F pdfsave	F setbox
F pdfsetmatrix	F setchar
F penalty	F setdisc
F register	F setfield
F rightmarginkern	F setglue
F rightskip	F setleader
F rule	F setlink
F shrink	F setlist
F special	F setnext
F stretch	F setprev
F temp	F setprop
F textdir	F setsubtype
F usage	F setunsetattributes
F userattributes	F setvisual
T userids	F setvisuals
N margins.inline	F slide
N property	F somepenalty
N splitters.one	F somespace
N splitters.two	F splitbox
F userlist	F tail
F userlua	F takebox
F usernumber	F takelist
F userrule	F theprop
F userstring	F tonode
F usertokens	F tonodes
F vlist	F tonut
F wordboundary	F tosequence
F zeroglue	F toString
F prepend	F tracedslide
F protect_glyph	F traverse
F protect_glyphs	F traverse_char
F protrusion_skippable	F traverse_id
F rawprop	T typesetters
F reference	F tohbox
F rehpack	F tohpack

F tonodes		F pdfpageliteral	
F toinbox		F pdfrestore	
F tovpack		F pdfsave	
F unprotect_glyphs		F pdfsetmatrix	
F unset_attribute		F register	
F unsetattribute		F rule	
F unsetattributes		F special	
F untracedslide		F usage	
F usedlist		F usernumber	
F vianodes		F vlist	
F vianuts		<b>prepend</b>	function
F vpack		<b>print</b>	function
F write		<b>processors</b>	table
<b>packlist</b>	function	B enabled	
<b>pardir_is_equal</b>	data table	F hpack_filter	
<b>pardir_is_opposite</b>	data table	F post_linebreak_filter	
<b>pardir_is_parallel</b>	data table	F pre_linebreak_filter	
<b>partextdir_is_equal</b>	data table	F tracer	
<b>penaltycodes</b>	data table	<b>processwords</b>	function
<b>plugindata</b>	table	<b>properties</b>	table
F finalizer		T actions	
F initializer		F delayed	
S name		F fdelayed	
T namespace		F immediate	
N attribute		F attach	
D data		T data	
F enable		F delayed	
F handler		<b>protect_glyph</b>	function
F register		<b>protect_glyphs</b>	function
D registered		<b>protrusion_skippable</b>	function
D values		<b>pts</b>	function
F processor		<b>radicalcodes</b>	data table
<b>points</b>	function	<b>reference</b>	function
<b>pool</b>	table	<b>references</b>	table
F baselineskip		N attribute	
F cleanup		T done	
F glyph		F handler	
F hlist		T stack	
F kern		<b>reheapack</b>	function
F latelua		<b>remove</b>	function
F lateluafunction		<b>repackhlist</b>	function
F lineskip		<b>replace</b>	function
F pdfdirect		<b>report</b>	function
F pdfliteral		<b>rightmarginwidth</b>	function

<b>rulecodes</b>	data table	T glyphs	
<b>rules</b>	table	F set	
D data		<b>striprange</b>	function
F define		<b>tail</b>	function
F enable		<b>takebox</b>	function
F handler		<b>tasks</b>	table
T ruleactions		F actions	
F draw		F appendaction	
F fill		F disableaction	
F mp		F disablegroup	
F stroke		F enableaction	
F userrule		F enablegroup	
<b>save</b>	function	F freeze	
<b>serialize</b>	function	F freezegroup	
<b>serializebox</b>	function	F new	
<b>set_attribute</b>	function	F prependaction	
<b>setattributes</b>	function	F removeaction	
<b>setbox</b>	function	F replaceaction	
<b>setboxtonaturalwd</b>	function	F restart	
<b>setfield</b>	function	F setaction	
<b>setglue</b>	function	F showactions	
<b>setunsetattributes</b>	function	F table	
<b>shifts</b>	table	<b>textdir_is_equal</b>	data table
D data		<b>textdir_is_is</b>	data table
F define		<b>textdir_is_opposite</b>	data table
F enable		<b>textdir_is_parallel</b>	data table
F handler		<b>tobasepoints</b>	function
<b>show</b>	function	<b>tocentimeters</b>	function
<b>showboxes</b>	function	<b>tociceros</b>	function
<b>showcodes</b>	function	<b>todidots</b>	function
<b>showlist</b>	function	<b>todimen</b>	function
<b>showsimplelist</b>	function	<b>toinches</b>	function
<b>skipcodes</b>	data table	<b>tomillimeters</b>	function
<b>slide</b>	function	<b>tonewciceros</b>	function
<b>snapshots</b>	table	<b>tonewdidots</b>	function
F getparameters		<b>tonode</b>	function
F getsamples		<b>tonodes</b>	function
F resetsamples		<b>tonut</b>	function
F takesample		<b>topicas</b>	function
<b>somepenalty</b>	function	<b>topoints</b>	function
<b>somespace</b>	function	<b>toscaledpoints</b>	function
<b>splitbox</b>	function	<b>tosequence</b>	function
<b>stripdiscretionaries</b>	function	<b>tostring</b>	function
<b>stripping</b>	table	<b>totable</b>	function



<b>totree</b>	function	F set	
<b>toutf</b>	function	F setlist	
<b>tracers</b>	table	<b>traverse</b>	function
T characters		<b>traverse_char</b>	function
F collect		<b>traverse_id</b>	function
F equal		<b>typesetters</b>	table
F start		F hbox	
F string		F hpack	
F unicodes		F tohbox	
T colors		F tohpack	
F reset		F tonodes	
F set		F tovbox	
F setlist		F tovpack	
F fontchar		F vpack	
T frequencies		<b>unprotect_glyphs</b>	function
F register		<b>unset_attribute</b>	function
T pool		<b>unsetattribute</b>	function
T nodes		<b>unsetattributes</b>	function
F rule		<b>usedlist</b>	function
T nuts		<b>usercodes</b>	data table
F rule		<b>vianodes</b>	function
F resetproperties		<b>vianuts</b>	function
F rule		<b>visualizebox</b>	function
F setlist		<b>visualizers</b>	table
F setproperties		F box	
F start		F handler	
T steppers		F markfonts	
F check		F setfont	
F codes		F setlayer	
F features		F setvisual	
F font		<b>vpack</b>	function
F glyphs		<b>whatcodes</b>	data table
F message		<b>whatsitcodes</b>	data table
F messages		<b>whatsitters</b>	table
F nofsteps		T getters	
F register		T dimensions	
F reset		T width	
F start		T setters	
F stop		T dimensions	
F stop		T width	
T transparencies		<b>write</b>	function
F reset			

## number (context)

	function	<b>tocentimeters</b>	function
<b>basepoints</b>	function	<b>tociceros</b>	function
<b>bit</b>	function	<b>tocontext</b>	function
<b>bits</b>	function	<b>todidots</b>	function
<b>clearbit</b>	function	<b>todimen</b>	function
<b>dimenfactors</b>	data table	<b>toevenhex</b>	function
<b>formatted</b>	function	<b>toinches</b>	function
<b>hasbit</b>	function	<b>tomillimeters</b>	function
<b>maxdimen</b>	number	<b>tonewciceros</b>	function
<b>nopts</b>	function	<b>tonewdidots</b>	function
<b>percent</b>	function	<b>tonumberf</b>	function
<b>points</b>	function	<b>tonumberg</b>	function
<b>pts</b>	function	<b>topicsas</b>	function
<b>setbit</b>	function	<b>topoints</b>	function
<b>signed</b>	function	<b>toscaled</b>	function
<b>sparseexponent</b>	function	<b>toscaledpoints</b>	function
<b>splitdimen</b>	function	<b>toset</b>	function
<b>tobasepoints</b>	function	<b>valid</b>	function
<b>tobitstring</b>	function		

## objects (context)

<b>data</b>	table	<b>page</b>	function
<b>dimensions</b>	function	<b>reference</b>	function
<b>found</b>	function	<b>register</b>	function
<b>n</b>	number	<b>restore</b>	function

## os (basic lua)

<b>__getenv__</b>	function	<b>remove</b>	overloaded function
<b>__setenv__</b>	function	<b>rename</b>	overloaded function
<b>binsuffix</b>	string	<b>resolvers</b>	table
<b>binsuffixes</b>	table	<b>  F bits</b>	
<b>clock</b>	function	<b>resultof</b>	function
<b>converttime</b>	function	<b>runtime</b>	function
<b>date</b>	function	<b>selfdir</b>	string
<b>difftime</b>	function	<b>setenv</b>	overloaded function
<b>env</b>	data table	<b>setlocale</b>	overloaded function
<b>exec</b>	overloaded function	<b>sleep</b>	function
<b>execute</b>	overloaded function	<b>spawn</b>	overloaded function
<b>exit</b>	function	<b>time</b>	function
<b>fulltime</b>	function	<b>times</b>	function
<b>getenv</b>	overloaded function	<b>timezone</b>	function
<b>gettimeofday</b>	function	<b>tmpdir</b>	function
<b>isleapyear</b>	function	<b>tmpname</b>	function
<b>launch</b>	function	<b>today</b>	function
<b>libsuffix</b>	string	<b>type</b>	string
<b>localtime</b>	function	<b>uname</b>	function
<b>name</b>	string	<b>uuid</b>	function
<b>newline</b>	string	<b>validdatetime</b>	function
<b>nofdays</b>	function	<b>weekday</b>	function
<b>now</b>	function	<b>where</b>	function
<b>platform</b>	string	<b>which</b>	function

## package (basic lua)

<b>config</b>	string	<b>loaded</b>	table
<b>cpath</b>	string	<b>loaders</b>	table
<b>extralibpath</b>	function	<b>loadlib</b>	function
<b>extralibpaths</b>	function	<b>luapaths</b>	function
<b>extralupath</b>	function	<b>path</b>	string
<b>extralupaths</b>	function	<b>preload</b>	table
<b>helpers</b>	table	<b>searchpath</b>	function
<b>libpaths</b>	function	<b>seeall</b>	function

# pagebuilders (context)

## columnsets      table

- F add
- F block
- F check
- F currentcolumn
- F define
- F finishflush
- F flushareas
- F flushcolumn
- F flushrest
- F goto
- F noto
- F prepareflush
- F put
- F registerarea
- F reset
- F setarea

- F sethsize
- F sethspace
- F setlines
- F setproperties
- F setstart
- F setvsize

## injections      table

- F flushafter
- F flushbefore
- F save

## mixedcolumns      table

- F cleanup
- F finalize
- F getlist
- F getrest
- F getsplit
- F setsplit

## pdf (basic tex)

<b>fontname</b>	function	<b>immediateobj</b>	function
<b>fontobjnum</b>	function	<b>mapfile</b>	function
<b>fontsize</b>	function	<b>mapline</b>	function
<b>getcatalg</b>	function	<b>maxobjnum</b>	function
<b>getcompresslevel</b>	function	<b>newcolorstack</b>	function
<b>getcreationdate</b>	function	<b>obj</b>	function
<b>getdecimaldigits</b>	function	<b>objtype</b>	function
<b>getdestmargin</b>	function	<b>pageref</b>	function
<b>gethpos</b>	function	<b>print</b>	function
<b>getignoreunknownimages</b>	function	<b>refobj</b>	function
<b>getimageresolution</b>	function	<b>registerannot</b>	overloaded function
<b>getinclusionerrorlevel</b>	function	<b>reserveobj</b>	function
<b>getinfo</b>	function	<b>setcatalg</b>	overloaded function
<b>getlastannot</b>	function	<b>setcompresslevel</b>	function
<b>getlastlink</b>	function	<b>setdecimaldigits</b>	function
<b>getlastobj</b>	function	<b>setdestmargin</b>	function
<b>getlinkmargin</b>	function	<b>setfontattributes</b>	function
<b>getmajorversion</b>	function	<b>setignoreunknownimages</b>	function
<b>getmatrix</b>	function	<b>setimageresolution</b>	function
<b>getminorversion</b>	function	<b>setinclusionerrorlevel</b>	function
<b>getnames</b>	function	<b>setinfo</b>	overloaded function
<b>getobjcompresslevel</b>	function	<b>setlinkmargin</b>	function
<b>getorigin</b>	function	<b>setmajorversion</b>	function
<b>getpageattributes</b>	function	<b>setminorversion</b>	function
<b>getpageresources</b>	function	<b>setnames</b>	overloaded function
<b>getpagesattributes</b>	function	<b>setobjcompresslevel</b>	function
<b>getpkresolution</b>	function	<b>setorigin</b>	function
<b>getpos</b>	function	<b>setpageattributes</b>	overloaded function
<b>getretval</b>	function	<b>setpageresources</b>	overloaded function
<b>getsuppressoptionalinfo</b>	function	<b>setpagesattributes</b>	overloaded function
<b>getthreadmargin</b>	function	<b>setpkresolution</b>	function
<b>gettrailer</b>	function	<b>setsuppressoptionalinfo</b>	function
<b>gettrailerid</b>	function	<b>setthreadmargin</b>	function
<b>getversion</b>	function	<b>settrailer</b>	overloaded function
<b>getvpos</b>	function	<b>settrailerid</b>	function
<b>getxformattributes</b>	function	<b>setxformattributes</b>	function
<b>getxformmargin</b>	function	<b>setxformmargin</b>	function
<b>getxformresources</b>	function	<b>setxformresources</b>	function
<b>hasmatrix</b>	function	<b>xformname</b>	function

# pdfscanner (context)

**scan** function



# physics (context)

**units** table

F registerunit

D tables

## profiler (extra lua)

**pause**   function  
**resume**   function

**start**   function  
**stop**   function

# publications (context)

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

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

F fetchentries		<b>okay</b>	function
F filterall		<b>oneorange</b>	function
F flushcombi		<b>parenttag</b>	function
F flushentry		<b>permitted</b>	function
T methods		<b>refman_to_btx</b>	function
F dataset		<b>resolvedname</b>	function
F force		<b>save</b>	function
F global		<b>search</b>	function
F local		<b>setcategory</b>	function
F nofreeregistered		<b>setspecification</b>	function
F prepareentries		<b>singularorplural</b>	function
F register		<b>sortedentries</b>	function
F sameasprevious		<b>sortmethods</b>	table
T sorters		T authoryear	
F cite		T sequence	
F dataset		<b>specifications</b>	table
F default		T default	
F index		S author	
F list		S comment	
F reference		S copyright	
F short		S name	
F used		S version	
F uservariable		D virtual	
<b>listvariants</b>	table	<b>splitauthor</b>	function
F default		<b>splitoneauthor</b>	function
F index		<b>statistics</b>	table
F num		N nofbytes	
F page		N nofdatasets	
F short		N nofdefinitions	
F tag		N nofshortcuts	
<b>load</b>	function	<b>tables</b>	table
<b>loadbibdata</b>	function	D implicits	
<b>loaddefinitionfile</b>	function	D origins	
<b>loaders</b>	table	D privates	
F bbl		D sets	
F bib		D specials	
F buffer		D types	
F endnote		D virtuals	
F lua		<b>tags</b>	function
F refman		<b>tracers</b>	table
F registercleaner		F showdatasetauthors	
F xml		F showdatasetcompleteness	
<b>loadreplacementfile</b>	function	F showdatasetfields	
<b>new</b>	function	F showentry	

F showfields		<b>usedataset</b>	function
F showhashedauthors		<b>usedentries</b>	function
F showtables		<b>writers</b>	table
F showvariants		F author	
<b>typesetters</b>	table	F keyword	
F author		F pagenumber	
F string		F range	

## regimes (context)

<b>cleanup</b>	function
<b>disable</b>	function
<b>enable</b>	function
<b>fromregime</b>	function
<b>pop</b>	function

<b>process</b>	function
<b>push</b>	function
<b>toregime</b>	function
<b>translate</b>	function

## resolvers (context)

<b>allprefixes</b>	function	<b>findtexfile</b>	function
<b>appendhash</b>	function	<b>findwildcardfile</b>	function
<b>automount</b>	function	<b>findwildcardfiles</b>	function
<b>automounted</b>	table	<b>formatofsuffix</b>	function
<b>booleanvariable</b>	function	<b>formatofvariable</b>	function
<b>cacheversion</b>	string	<b>formats</b>	data table
<b>checkedvariable</b>	function	<b>generators</b>	data table
<b>cleanedpathlist</b>	function	<b>get_from_content</b>	function
<b>cleanpath</b>	function	<b>getenv</b>	function
<b>cleanpathlist</b>	function	<b>getownpath</b>	function
<b>concatinators</b>	data table	<b>getreadfilename</b>	function
<b>configbanner</b>	string	<b>hashers</b>	data table
<b>criticalvars</b>	data table	<b>homedir</b>	string
<b>dangerous</b>	data table	<b>inputstack</b>	table
<b>datastate</b>	function	<b>installinputfilehandler</b>	function
<b>defaultsuffixes</b>	table	<b>installinputlinehandler</b>	function
<b>dowithfilesandreport</b>	function	<b>instance</b>	table
<b>dowithfilesintree</b>	function	D data	
<b>dowithpath</b>	function	B diskcache	
<b>dowithvariable</b>	function	D environment	
<b>env</b>	function	D expansions	
<b>executers</b>	table	D fakepaths	
<b>expandbraces</b>	function	D files	
<b>expandedpathfromlist</b>	function	B force_suffixes	
<b>expandedpathlist</b>	function	D found	
<b>expandedpathlistfromvariable</b>	function	D foundintrees	
<b>expandpath</b>	function	D hashed	
<b>expandpathfromvariable</b>	function	D hashes	
<b>expansion</b>	function	D lists	
<b>extendtexmfvariable</b>	function	B loaderror	
<b>filtered_from_content</b>	function	D order	
<b>find_file</b>	function	D pathlists	
<b>find_files</b>	function	T pathstack	
<b>findbinfile</b>	function	B remember	
<b>findctxfile</b>	function	B renewcache	
<b>finders</b>	data table	B renewtree	
<b>findfile</b>	function	B savelists	
<b>findfiles</b>	function	D setups	
<b>findgivenfile</b>	function	D specification	
<b>findgivenfiles</b>	function	D variables	
<b>findpath</b>	function	<b>jobpath</b>	function



<b>jobs</b>	table	<b>registerextrapath</b>	function
F currentcomponent		<b>registerfile</b>	function
F currentenvironment		<b>registerfilehash</b>	function
F currentproduct		<b>registerintrees</b>	function
F currentproject		<b>registermethod</b>	function
F justacomponent		<b>registerzipfile</b>	function
D processors		<b>relations</b>	data table
F productcomponent		<b>renew</b>	function
F usefile		<b>repath</b>	function
<b>joinpath</b>	function	<b>reset</b>	function
<b>load</b>	function	<b>resetextrapath</b>	function
<b>loadbinfile</b>	function	<b>resetmemstream</b>	function
<b>loaders</b>	data table	<b>resetresolve</b>	function
<b>loadlualib</b>	function	<b>resolve</b>	function
<b>loadtexfile</b>	function	<b>savers</b>	data table
<b>loadtime</b>	function	<b>scandata</b>	function
<b>locateformat</b>	function	<b>scanfiles</b>	function
<b>locators</b>	data table	<b>schemes</b>	table
<b>luacnfname</b>	string	T cleaners	
<b>luacnfspec</b>	string	F md5	
<b>luacnfstate</b>	string	F none	
<b>macros</b>	table	F strip	
F convertfile		F cleanname	
F decodecomment		F fetchstring	
F enablecomment		F fetchtable	
F encodecomment		F install	
F preprocessed		<b>setdynamic</b>	function
F processmk		<b>setenv</b>	function
F processmkvi		<b>setinstance</b>	function
F version		<b>setmemstream</b>	function
<b>maxreadlevel</b>	number	<b>showpath</b>	function
<b>methodhandler</b>	function	<b>simplescanfiles</b>	function
<b>newinstance</b>	function	<b>splitconfigurationpath</b>	function
<b>openbinfile</b>	function	<b>splitexpansions</b>	function
<b>openers</b>	data table	<b>splitmethod</b>	function
<b>openfile</b>	function	<b>splitpath</b>	function
<b>opentexfile</b>	function	<b>stackpath</b>	function
<b>ownpath</b>	string	<b>suffixes</b>	data table
<b>popextrapath</b>	function	<b>suffixmap</b>	data table
<b>poppath</b>	function	<b>suffixofformat</b>	function
<b>prefixes</b>	data table	<b>texdatablob</b>	function
<b>prependhash</b>	function	<b>toppath</b>	function
<b>pushextrapath</b>	function	<b>unexpandedpath</b>	function
<b>pushpath</b>	function	<b>unexpandedpathlist</b>	function

<b>unresolve</b>	function	<b>validatedpath</b>	function
<b>updaterelations</b>	function	<b>variable</b>	function
<b>updatescript</b>	function	<b>variableofformat</b>	function
<b>uselibrary</b>	function	<b>variableofformatorsuffix</b>	function
<b>usertypes</b>	data table	<b>wildcardpattern</b>	function
<b>usezipfile</b>	function		

## sandbox (context)

<b>binaryhandler</b>	function
<b>disablerunners</b>	function
<b>enable</b>	function
<b>filehandlerone</b>	function
<b>filehandlertwo</b>	function
<b>finalizer</b>	function
<b>initializer</b>	function
<b>iohandler</b>	function
<b>logcalls</b>	function
<b>logfiles</b>	function
<b>original</b>	function
<b>overload</b>	function
<b>possiblepath</b>	function

<b>redefine</b>	function
<b>register</b>	function
<b>registerbinary</b>	function
<b>registerroot</b>	function
<b>registerrunner</b>	function
<b>report</b>	function
<b>run</b>	function
<b>runhandler</b>	function
<b>setfilenamelogger</b>	function
<b>setlogger</b>	function
<b>setreporter</b>	function
<b>settrace</b>	function
<b>validfilename</b>	function

# scripts (context)

<b>autofontfeature</b>	table	N inter_char_stretch_factor
F disable		N inter_word_stretch_factor
F enable		<b>handlers</b>
F handler		data table
<b>categorytonumber</b>	data table	<b>hash</b>
<b>colors</b>	data table	table
<b>decomposehangul</b>	function	<b>injectors</b>
<b>defaults</b>	table	data table
N inter_char_half_shrink_factor		<b>installdataset</b>
N inter_char_half_stretch_factor		function
N inter_char_hangul_penalty		<b>installmethod</b>
N inter_char_quarter_shrink_factor		function
N inter_char_quarter_stretch_factor		<b>numbertocategory</b>
N inter_char_shrink_factor		data table
		<b>numbertodataset</b>
		data table
		<b>numbertohandler</b>
		data table
		<b>reset</b>
		function
		<b>set</b>
		function
		<b>splitters</b>
		data table

## set (context)

**contains**    function

**create**     function

**tolist**     function

**tonumber**   function

**totable**    function

# socket (extra lua)

**BLOCKSIZE** number  
**\_DEBUG** boolean  
**\_SETSIZE** number  
**bind** function  
**choose** function  
**connect** function  
**connect4** function  
**connect6** function  
**dns** table

F getaddrinfo  
F gethostname  
F getnameinfo  
F tohostname  
F toip

**ftp** table

S PASSWORD  
N PORT  
N TIMEOUT  
S USER  
F command  
F get  
F open  
F put

**gettime** function

**headers** table

T canonic  
S accept  
S accept-charset  
S accept-encoding  
S accept-language  
S accept-ranges  
S action  
S age  
S allow  
S alternate-recipient  
S arrival-date  
S authorization  
S bcc  
S cache-control  
S cc  
S comments

S connection  
S content-description  
S content-disposition  
S content-encoding  
S content-id  
S content-language  
S content-length  
S content-location  
S content-md5  
S content-range  
S content-transfer-encoding  
S content-type  
S date  
S diagnostic-code  
S dsn-gateway  
S etag  
S expect  
S expires  
S final-log-id  
S final-recipient  
S from  
S host  
S if-match  
S if-modified-since  
S if-none-match  
S if-range  
S if-unmodified-since  
S in-reply-to  
S keywords  
S last-attempt-date  
S last-modified  
S location  
S max-forwards  
S message-id  
S mime-version  
S original-envelope-id  
S original-recipient  
S pragma  
S proxy-authenticate  
S proxy-authorization  
S range

S received  
 S received-from-mta  
 S references  
 S referer  
 S remote-mta  
 S reply-to  
 S reporting-mta  
 S resent-bcc  
 S resent-cc  
 S resent-date  
 S resent-from  
 S resent-message-id  
 S resent-reply-to  
 S resent-sender  
 S resent-to  
 S retry-after  
 S return-path  
 S sender  
 S server  
 S smtp-remote-recipient  
 S status  
 S subject  
 S te  
 S to  
 S trailer  
 S transfer-encoding  
 S upgrade  
 S user-agent  
 S vary  
 S via  
 S warning  
 S will-retry-until  
 S www-authenticate  
 S x-mailer

**http**      **table**

N PORT  
 N TIMEOUT  
 S USERAGENT  
 F open  
 F request

**newtry**      **function**

**protect**      **function**  
**select**      **function**  
**sink**      **function**  
**sinkt**      **table**

F close-when-done  
 F default  
 F http-chunked  
 F keep-open

**skip**      **function**  
**sleep**      **function**  
**smtp**      **table**

S DOMAIN  
 N PORT  
 S SERVER  
 N TIMEOUT  
 S ZONE  
 F message  
 F open  
 F send

**source**      **function**  
**sourcet**      **table**

F by-length  
 F default  
 F http-chunked  
 F until-closed

**tcp**      **function**  
**tcp6**      **function**  
**tp**      **table**

N TIMEOUT  
 F connect

**try**      **function**  
**udp**      **function**  
**udp6**      **function**  
**url**      **table**

F absolute  
 F build  
 F build\_path  
 F escape  
 F parse  
 F parse\_path  
 F unescape

# sorters (context)

**basicsorter**      function

**comparers**        table

    F basic

**constants**        table

    S defaultdigits

    S defaultlanguage

    S defaultmethod

    N digitmaximum

    N digitoffset

    N ignoredoffset

    N replacementoffset

    T validmethods

        B ch

        B mc

        B mm

        B pc

    B pm

    B uc

    B zc

    B zm

**definitions**      data table

**firstofsplit**      function

**packch**            function

**packuc**            function

**setlanguage**      function

**sort**                function

**splitters**         table

    F utf

**strip**              function

**tracers**           data table

**update**            function



## statistics (context)

<b>checkfmtstatus</b>	function	<b>resettiming</b>	function
<b>elapsed</b>	function	<b>runtime</b>	function
<b>elapsedindeed</b>	function	<b>savefmtstatus</b>	function
<b>elapsedseconds</b>	function	<b>show</b>	function
<b>elapsedtime</b>	function	<b>starttiming</b>	function
<b>enable</b>	boolean	<b>stoptiming</b>	function
<b>formatruntime</b>	function	<b>threshold</b>	number
<b>hastiming</b>	function	<b>timed</b>	function
<b>memused</b>	function	<b>tracefunction</b>	function
<b>register</b>	function		

## status (basic tex)

**list**                    function  
**resetmessages**    function

# storage (context)

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

## streams (context)

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

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

## string (basic lua)

<b>autodouble</b>	function	<b>optionalquoted</b>	function
<b>autosingle</b>	function	<b>quote</b>	function
<b>booleanstring</b>	function	<b>quoted</b>	function
<b>byte</b>	function	<b>rep</b>	function
<b>bytepairs</b>	function	<b>replacenewlines</b>	function
<b>bytes</b>	function	<b>reverse</b>	function
<b>char</b>	function	<b>split</b>	function
<b>characterpairs</b>	function	<b>splitlines</b>	function
<b>characters</b>	function	<b>splitup</b>	function
<b>checkedsplit</b>	function	<b>strip</b>	function
<b>collapsespaces</b>	function	<b>sub</b>	function
<b>count</b>	function	<b>tformat</b>	function
<b>dump</b>	function	<b>toHEX</b>	function
<b>escapedpattern</b>	function	<b>toboollean</b>	function
<b>explode</b>	function	<b>tobytes</b>	function
<b>find</b>	function	<b>tocontext</b>	function
<b>format</b>	function	<b>todec</b>	function
<b>formatter</b>	function	<b>todimen</b>	function
<b>formatters</b>	function	<b>tohex</b>	function
<b>fullstrip</b>	function	<b>tonodes</b>	function
<b>gmatch</b>	function	<b>topattern</b>	function
<b>gsub</b>	function	<b>totable</b>	function
<b>is_boolean</b>	function	<b>toutf</b>	function
<b>is_empty</b>	function	<b>tracedchar</b>	function
<b>itself</b>	function	<b>tracedchars</b>	table
<b>len</b>	function	<b>unquote</b>	function
<b>limit</b>	function	<b>unquoted</b>	function
<b>longtostring</b>	function	<b>upper</b>	function
<b>lower</b>	function	<b>utfcharacters</b>	function
<b>match</b>	function	<b>utfvalues</b>	function
<b>nspace</b>	table	<b>valid</b>	function

# structures (context)

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

D data		F savedlistnumber	
F define		F savedlistprefixednumber	
F getdata		F savedlisttitle	
F getlocation		D sectionblocks	
F getname		F sectionnumber	
F getnumber		F size	
F setlocation		F title	
F setup		D tobесaved	
D stored		F userdata	
		F uservalue	
<b>itemgroups</b>	<b>table</b>	<b>marks</b>	<b>table</b>
<b>lists</b>	<b>table</b>		
F addto		D data	
F analyze		F define	
B autoreorder		F exists	
D cached		F fetch	
D collected		F fetchallmarks	
F discard		F fetched	
F enhance		F fetchonemark	
T enhancers		F fetchtwomarks	
F filter		F get	
F formulainumber		F number	
F getresult		F relate	
F groupindex		F reset	
F hasnumberdata		F set	
F haspagedata		F show	
F hastitledata		F synchronize	
F iscached		F title	
D kinds		T tracers	
F label		F showtable	
F location		<b>notes</b>	<b>table</b>
D names		F checkpagechange	
F number		F define	
D ordered		F doifonsamepageasprevious	
F page		F get	
F popnesting		F getdeltapage	
F prefix		F getinternal	
F prefixednumber		F getn	
F prefixedpage		F getstate	
F process		F hascontent	
D pushed		F internal	
F pushnesting		F internalid	
F realpage		F listindex	
F reordered		F ordered	
T result		F postpone	

F resetpostponed		D flaginternals
F restore		F from
F save		D functions
F setstate		F get
D states		F getcurrentmetadata
F store		F getcurrentprefixspec
<b>pages</b>	<b>table</b>	F getinnermethod
F analyze		F getinternalcachedlistreference
D collected		F getinternallistreference
F in_body		F getinternalreference
F is_odd		D handlers
N nopages		F identify
F number		F import
F on_right		F inject
F save		F injectcurrentset
D tobesaved		S innermethod
<b>references</b>	<b>table</b>	D internals
F analyze		F load
F checkedfile		F loadpresets
F checkedfileorurl		F mark
F checkedprogram		D pages
F checkedrealpage		U prefixsplitter
F checkedurl		D productdata
D collected		T programs
U componentsplitter		T data
F currentmetadata		F define
F currentorder		F get
D currentset		F realpageofpage
F define		U referencesplitter
D defined		D referred
D derived		F referredpage
F enableinteraction		F registerfinalizer
F enhance		F registerinitializer
D executers		F registerpage
F expandcurrent		F reportproblems
F export		F reset
T files		D runners
T data		F set
F define		F setandgetattribute
F found		F setcomponent
F get		F setinnermethod
F filter		F setinternalreference
F filterdefault		F setnextinternal
D filters		F setnextorder



F setreferencerealpage

D specials

F splitcomponent

F splitprefix

F splitreference

F synchronizepage

T testrunners

F inner

F special

F special operation

F special operation with arguments

T testspecials

F deltapage

F i

F internal

F page

F realpage

F section

F userpage

D tobereferred

D tobesaved

D tracedpages

T urls

T data

F define

F found

F get

F untex

D usedinternals

D usedviews

F valid

## registers

## table

F analyze

D collected

F compare

F define

F enhance

F extend

F filter

F filtercollected

F finalize

F findinternal

F flush

F get

F prepare

F process

F setmethod

F sort

F store

D tobesaved

F unique

F userdata

## sections

## table

F autodepth

F cct

D collected

F current

F currentblock

F currentid

F currentlevel

F currentsectionindex

F depthnumber

F finddata

F findnumber

F fullnumber

F getcurrentlevel

F getlevel

F getnumber

F internalreference

D levelmap

D levels

F load

F matchingtilldepth

F numberatdepth

F numbers

F popblock

F prefixedconverted

F pushblock

F register

D registered

F reportstructure

F save

T sectionblockdata

T bodypart

S bookmark

F set

F setblock

F setchecker

- F setentry
- F setinitialblock
- F setlevel
- F setnumber
- F structuredata
- F title
- D tobesaved
- F typesetnumber
- F userdata
- B verbose

**sets** table

- F define
- F get
- F getall
- D setlist

**specials** table

- D collected
- F retrieve
- F store
- D tobesaved

**synonyms** table

- F analyzed
- D collected
- F compare
- F define
- F filter
- F finalize
- F flush
- F isshown
- F isused
- F meaning
- F prepare
- F process
- F register
- F registershown
- F registerused
- F resetshown
- F resetused
- F sort
- F synonym
- D tobesaved

**tags** table

- F elementtag
- F finishexport
- F getid
- F handler
- D labels
- F last
- F lastinchain
- F locatedtag
- T patterns
- U splitter
- D properties
- F registermetadata
- F restart
- F setaspect
- F setattributefield
- F setcombination
- F setfigure
- F sethighlight
- F setitem
- F setitemgroup
- F setlist
- F setnotation
- F setnotationsymbol
- F setproperty
- F setregister
- F setsorting
- F setsynonym
- F settablecell
- F settabulatecell
- F settagdelimitedsymbol
- F settagssubsentencesymbol
- F setupexport
- F setuserproperties
- D specifications
- F start
- F stop
- F strip
- D taglist
- T usewithcare
- T images

## table (basic lua)

<b>allkeys</b>	function	<b>prepend</b>	function
<b>append</b>	function	<b>print</b>	function
<b>are_equal</b>	function	<b>remove</b>	function
<b>autokey</b>	function	<b>reverse</b>	function
<b>compact</b>	function	<b>reversed</b>	function
<b>concat</b>	function	<b>save</b>	function
<b>contains</b>	function	<b>sequenced</b>	function
<b>copy</b>	function	<b>serialize</b>	function
<b>count</b>	function	<b>setmetatablecall</b>	function
<b>derive</b>	function	<b>setmetatableindex</b>	function
<b>deserialize</b>	function	<b>setmetatablekey</b>	function
<b>drop</b>	function	<b>setmetatablenewindex</b>	function
<b>fastcopy</b>	function	<b>sort</b>	function
<b>fastserialize</b>	function	<b>sorted</b>	function
<b>filtered</b>	function	<b>sortedhash</b>	function
<b>flattened</b>	function	<b>sortedhashkeys</b>	function
<b>foreach</b>	function	<b>sortedhashonly</b>	function
<b>foreachi</b>	function	<b>sortedindexonly</b>	function
<b>fromhash</b>	function	<b>sortedkeys</b>	function
<b>getmetatablekey</b>	function	<b>sortedpairs</b>	function
<b>getn</b>	function	<b>sparse</b>	function
<b>has_one_entry</b>	function	<b>strip</b>	function
<b>identical</b>	function	<b>sub</b>	function
<b>imerge</b>	function	<b>swapped</b>	function
<b>imerged</b>	function	<b>tocontext</b>	function
<b>insert</b>	function	<b>tocsv</b>	function
<b>is_empty</b>	function	<b>tofile</b>	function
<b>keys</b>	function	<b>tohandle</b>	function
<b>load</b>	function	<b>tohash</b>	function
<b>loweredkeys</b>	function	<b>toxml</b>	function
<b>maxn</b>	function	<b>twowaymapper</b>	function
<b>merge</b>	function	<b>unique</b>	function
<b>merged</b>	function	<b>unnest</b>	function
<b>mirrored</b>	function	<b>unpack</b>	function
<b>pack</b>	function	<b>values</b>	function

## tex (basic tex)

<b>attribute</b>	table	<b>gettoks</b>	function
<b>badness</b>	function	<b>getuccode</b>	function
<b>box</b>	table	<b>glue</b>	table
<b>catcode</b>	table	<b>hashtokens</b>	function
<b>conditionals</b>	data table	<b>ifs</b>	data table
<b>constants</b>	data table	<b>inimatcodes</b>	number
<b>count</b>	table	<b>init_rand</b>	function
<b>cprint</b>	function	<b>isattribute</b>	function
<b>ctdcatcodes</b>	number	<b>isbox</b>	function
<b>ctxcatcodes</b>	number	<b>iscount</b>	overloaded function
<b>definefont</b>	function	<b>isdefined</b>	function
<b>delcode</b>	table	<b>isdimen</b>	overloaded function
<b>dimen</b>	table	<b>ismuskip</b>	overloaded function
<b>directives</b>	data table	<b>isskip</b>	overloaded function
<b>enableprimitives</b>	function	<b>istoken</b>	function
<b>error</b>	function	<b>istoks</b>	function
<b>extraprimitives</b>	function	<b>lccode</b>	table
<b>finish</b>	function	<b>linebreak</b>	function
<b>fontidentifier</b>	function	<b>lists</b>	table
<b>fontname</b>	function	<b>lua_math_random</b>	function
<b>fprint</b>	function	<b>lua_math_randomseed</b>	function
<b>get</b>	function	<b>luacatcodes</b>	number
<b>getattribute</b>	function	<b>mathcode</b>	table
<b>getbox</b>	function	<b>modes</b>	data table
<b>getboxresourcedimensions</b>	function	<b>muglue</b>	table
<b>getcatcode</b>	function	<b>muskip</b>	table
<b>getcount</b>	function	<b>nest</b>	table
<b>getdelcode</b>	function	<b>nilcatcodes</b>	number
<b>getdelcodes</b>	function	<b>normal_rand</b>	function
<b>getdimen</b>	function	<b>notcatcodes</b>	number
<b>getglue</b>	function	<b>number</b>	function
<b>getlccode</b>	function	<b>primitives</b>	function
<b>getlist</b>	function	<b>print</b>	function
<b>getmath</b>	function	<b>prtcacodes</b>	number
<b>getmathcode</b>	function	<b>resetparagraph</b>	function
<b>getmathcodes</b>	function	<b>romannumeral</b>	function
<b>getmuglue</b>	function	<b>round</b>	function
<b>getmuskip</b>	function	<b>run</b>	function
<b>getnest</b>	function	<b>saveboxresource</b>	function
<b>getsfcode</b>	function	<b>scale</b>	function
<b>getskip</b>	function	<b>scantoks</b>	function

<b>set</b>	function	<b>skip</b>	table
<b>setattribute</b>	function	<b>sp</b>	function
<b>setbox</b>	function	<b>splitbox</b>	function
<b>setcatcode</b>	function	<b>sprint</b>	function
<b>setcount</b>	function	<b>systemmodes</b>	data table
<b>setdelcode</b>	function	<b>takebox</b>	function
<b>setdimen</b>	function	<b>texcatcodes</b>	number
<b>setglue</b>	function	<b>toks</b>	table
<b>setlccode</b>	function	<b>tpacatcodes</b>	number
<b>setlist</b>	function	<b>tpbcatcodes</b>	number
<b>setmath</b>	function	<b>tprint</b>	function
<b>setmathcode</b>	function	<b>trackers</b>	data table
<b>setmuglue</b>	function	<b>triggerbuildpage</b>	function
<b>setmuskip</b>	function	<b>txtcatcodes</b>	number
<b>setnest</b>	function	<b>type</b>	function
<b>setsfcode</b>	function	<b>uccode</b>	table
<b>setskip</b>	function	<b>uniform_rand</b>	function
<b>settoks</b>	function	<b>uniformdeviate</b>	function
<b>setuccode</b>	function	<b>uprint</b>	function
<b>sfcode</b>	table	<b>useboxresource</b>	function
<b>shipout</b>	function	<b>vrbcatcodes</b>	number
<b>show_context</b>	function	<b>write</b>	function

## texconfig (basic tex)

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

## texio (basic tex)

**setescape** function  
**write** function

**write\_nl** function

# tokens (context)

**astable**      function  
**bgroup**      userdata  
**bits**        table

N active  
N alignment  
N begingroup  
N character  
N close  
N comment  
N endgroup  
N endoffline  
N escape  
N ignore  
N invalid  
N letter  
N mathshift  
N open  
N other  
N parameter  
N space  
N subscript  
N superscript  
N whitespace

**collectors** table

T data  
F defaultwords  
F dowithwords  
F flush  
F install  
F register  
T registered  
F show  
F test

**compile**      function  
**constant**    function  
**converters** table

S toboolean  
S todimen  
S toglue  
S tonumber  
S tostring

**defined**      function  
**egroup**      userdata  
**getters**      table

F box  
F count  
F dimen  
F glue  
F skip  
F token

**hbox**        userdata  
**istoken**     function  
**letter**      function  
**letters**     function  
**other**       function  
**pickup**      function  
**printlist**   function  
**scanners**    table

F boolean  
F code  
F conditional  
F count  
F csname  
F dimen  
F dimension  
F glue  
F integer  
F keyword  
F list  
F lxmlid  
F number  
F scanclose  
F scanopen  
F skip  
F string  
F token  
F tokens  
F toks  
F word

**scantable**    function  
**setters**      table  
F box



F count	F conditional
F dimen	F count
F glue	F csname
F macro	F dimen
F skip	F dimension
<b>shortcuts</b> table	F glue
T bits	F integer
N active	F keyword
N alignment	F list
N begingroup	F lxmldid
N character	F number
N close	F scanclose
N comment	F scanopen
N endgroup	F skip
N endofline	F string
N escape	F token
N ignore	F tokens
N invalid	F toks
N letter	F word
N mathshift	F scannumber
N open	F scanopen
N other	F scanstring
N parameter	F scanword
N space	F toboolean
N subscript	F todimen
N superscript	T tokens
N whitespace	F astable
N close	U bgroup
F inspect	T collectors
N open	F defaultwords
F report	F dowithwords
F scanboolean	F flush
F scanclose	F install
F scancode	F register
F scanconditional	F show
F scanscsname	F test
F scandimen	F compile
F scandimension	F constant
F scaninteger	T converters
F scankeyword	S toboolean
F scanlist	S todimen
T scanners	S toglue
F boolean	S tonumber
F code	S tostring

F defined	N open
U egroup	F report
T getters	F scanboolean
F box	F scanclose
F count	F scancode
F dimen	F scanconditional
F glue	F scansname
F skip	F scandimen
F token	F scandimension
U hbox	F scaninteger
F istoken	F scankeyword
F letter	F scanlist
F letters	F scannumber
F other	F scanopen
F pickup	F scanstring
F printlist	F scanword
F scantable	F toboolean
T setters	F todimen
F box	F tonumber
F count	F tostring
F dimen	U vbox
F glue	U vtop
F macro	F tonumber
F skip	F tostring
T shortcuts	<b>vbox</b> userdata
N close	<b>vtop</b> userdata
F inspect	

# tracers (context)

<b>count</b>	function	<b>primitive</b>	function
<b>cs</b>	function	<b>printerror</b>	function
<b>dimen</b>	function	<b>printwarning</b>	function
<b>knownlist</b>	function	<b>showlines</b>	function
<b>lists</b>	table	<b>strings</b>	table
T context		S undefined	
T internals		<b>toks</b>	function
T scratch		<b>type</b>	function
<b>name</b>	function		

## trackers (context)

<b>data</b>	data table	<b>register</b>	function
<b>default</b>	function	<b>report</b>	function
<b>disable</b>	function	<b>reset</b>	function
<b>dumphashtofile</b>	function	<b>savehash</b>	function
<b>enable</b>	function	<b>show</b>	function
<b>list</b>	function	<b>value</b>	function
<b>name</b>	string		

# typesetters (context)

<b>alignments</b>	table		
F handler			T handlers
F set			F installhandler
<b>breakpoints</b>	table		F processmath
F define			F set
F handler			F setcolor
D mapping			F setmath
T methods			F tomode
T numbers			<b>firstlines</b>
F set			table
F setreplacement			T actions
<b>cases</b>	table		F default
T actions			F line
F handler			F word
F register			F handler
F set			F set
<b>characteralign</b>	table		<b>initials</b>
F handler			table
F resetcharacteralign			T actions
F setcharacteralign			F default
<b>characters</b>	table		F addanchortoline
F handler			F addtoline
T methods			F calculatedelta
F replacensp			F checkline
F replacenspaces			F handler
<b>checkers</b>	table		F moveinline
F handler			F normalize
F reset			F set
F set			<b>injectors</b>
<b>cleaners</b>	table		table
F handler			F check
F set			T list
<b>digits</b>	table		F mark
T actions			F reset
F handler			F set
F set			F show
<b>directions</b>	table		<b>italics</b>
F getfences			table
F getglobal			F enablemath
F getmethod			F enabletext
F handler			F forcevariant
			F handler
			F reset
			F set
			<b>kerns</b>
			table
			D factors

F handler	
F keepligature	
B keptogether	
D mapping	
F set	
<b>manipulators</b>	<b>table</b>
F apply	
F applyspecification	
T methods	
F Word	
F Words	
F abbreviatedjournal	
F expandedjournal	
F lowercase	
F stripperperiod	
F uppercase	
T patterns	
U list	
U pair	
F splitspecification	
<b>margins</b>	<b>table</b>
F finalhandler	
F globalhandler	
F localhandler	
F save	
<b>marksuspects</b>	<b>function</b>
<b>paragraphs</b>	<b>table</b>
F addanchortoline	
F addtoline	
F calculatedelta	
F checkline	
F handler	
F moveinline	
F normalize	
F set	
<b>processors</b>	<b>table</b>
F apply	
F register	
F reset	
F split	
F startapply	
F stopapply	
F stripped	
F tostring	
<b>showsuspects</b>	<b>function</b>
<b>spacings</b>	<b>table</b>
F define	
F handler	
D mapping	
T numbers	
T frenchpunctuation	
T characters	
S name	
N number	
F reset	
F set	
F setup	
<b>wrappers</b>	<b>table</b>
F handler	
<b>xtables</b>	<b>table</b>
F cleanup	
F construct	
F create	
F finish_row	
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 byte  
F char  
F dump  
F find  
F format  
F gfind  
F gmatch  
F gsub  
F len  
F lower  
F match  
F rep  
F reverse  
F sub  
F upper

## grapheme table

F byte  
F char  
F dump  
F find  
F format  
F gfind  
F gmatch  
F gsub  
F len  
F lower  
F match  
F rep  
F reverse  
F sub  
F upper

## latin1 table

F byte  
F char  
F dump  
F find  
F format  
F gfind  
F gmatch  
F gsub

F len  
F lower  
F match  
F rep  
F reverse  
F sub  
F upper

## utf8 table

F byte  
F char  
F characters  
F chrln  
F count  
F dump  
F filetype  
F find  
F format  
F gfind  
F gmatch  
F gsub  
F is\_valid  
F len  
F length  
F lower  
F magic  
F match  
F remapper  
F rep  
F replacer  
F reverse  
F split  
F splitlines  
F sub  
F substituter  
F tocodes  
F toeight  
F toentities  
F tostring  
F totable  
F upper  
F ustring

F utf16\_to\_utf8\_be  
F utf16\_to\_utf8\_be\_t  
F utf16\_to\_utf8\_le  
F utf16\_to\_utf8\_le\_t  
F utf16\_to\_utf8\_t  
F utf32\_to\_utf8\_be  
F utf32\_to\_utf8\_be\_t  
F utf32\_to\_utf8\_le  
F utf32\_to\_utf8\_le\_t

F utf32\_to\_utf8\_t  
F utf8\_to\_utf16  
F utf8\_to\_utf16\_be  
F utf8\_to\_utf16\_le  
F utf8\_to\_utf8\_t  
F values  
F xstring



## url (context)

<b>addscheme</b>	function
<b>barepath</b>	function
<b>construct</b>	function
<b>escape</b>	function
<b>filename</b>	function
<b>hashed</b>	function

<b>hascheme</b>	function
<b>query</b>	function
<b>split</b>	function
<b>toquery</b>	function
<b>unescapeget</b>	function

# utilities (context)

## **debugger** table

F disable  
F enable  
F savestats  
F showstats  
F showtraceback

## **files** table

F close  
F getposition  
F getsize  
F look  
F open  
F read2dot14  
F readbyte  
F readbytes  
F readcardinal  
F readcardinal1  
F readcardinal2  
F readcardinal3  
F readcardinal4  
F readchar  
F readfixed4  
F readinteger  
F readinteger1  
F readinteger2  
F readinteger3  
F readinteger4  
F readstring  
F readtag  
F setposition  
F size  
F skip  
F skiplong  
F skipshort  
F writebyte  
F writecardinal2  
F writecardinal4  
F writestring

## **formatters** table

F formatcolumns  
F list

F stripzeros

## **garbagecollector** table

F check  
N criterium  
B enabled

## **lua** table

B alwaysstripcode  
F compile  
F loadedluacode  
F loadstripped  
N nofstrippedbytes  
N nofstrippedchunks  
B stripcode  
T strippedchunks  
F strippedloadstring  
T suffixes  
S lua  
S luc  
S lui  
S luj  
S luv  
S tma  
S tmc  
S tua  
S tuc

## **packers** table

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

## **parsers** table

F add\_settings\_to\_array  
F arguments\_to\_table  
F array\_to\_string  
F csvsplitter  
F getparameters  
F groupedsplitat  
F hash\_to\_string

T hashes

T settings\_to\_set

T max,fit,broad,auto

B auto

B broad

B fit

B max

T text,hidden,paper,page,leftpage,rightpage

B hidden

B leftpage

B page

B paper

B rightpage

B text

F iterator

F keq\_to\_hash

F listitem

F make\_settings\_to\_hash\_pattern

F mergehashes

F options\_to\_array

F options\_to\_hash

T patterns

U settings\_to\_array

U settings\_to\_hash\_a

U settings\_to\_hash\_b

U settings\_to\_hash\_c

U unittotex

F process\_stripped\_settings

F rfc4180splitter

F runtime

F settings\_to\_array

F settings\_to\_array\_obey\_fences

F settings\_to\_array\_with\_repeat

F settings\_to\_hash

F settings\_to\_hash\_strict

F settings\_to\_hash\_tolerant

F settings\_to\_numbers

F settings\_to\_set

F simple\_hash\_to\_string

F splitmethod

F splitthousands

F stepper

F stripped\_settings\_to\_array

F unittotex

F unittotxml

**report**

**sequencers**

F appendaction

F appendgroup

F compile

F disableaction

F disablegroup

F enableaction

F enablegroup

D functions

F localize

F new

F nodeprocessor

F prependaction

F prependgroup

F removeaction

F replaceaction

F setkind

F tostring

**setters**

F disable

F enable

F initialize

F list

F new

F register

F report

F reset

F show

**stacker**

F new

**storage**

F allocate

F checked

F mark

F marked

F setinitializer

F sparse

**streams**

F close

F getposition

F look

F open

function

table

table

table

table

table

F read2dot14  
F readbyte  
F readbytes  
F readcardinal  
F readcardinal1  
F readcardinal2  
F readcardinal3  
F readcardinal4  
F readchar  
F readfixed4  
F readinteger  
F readinteger1  
F readinteger2  
F readinteger4  
F readstring  
F setposition  
F size  
F skip  
F skipbytes  
F skiplong  
F skipshort

## strings

table

F collapsecrlf  
T formatters  
F add  
F new  
F newrepeater  
F nice

T striplinepatterns  
U collapse  
U prune  
U prune and collapse  
U prune and no empty  
U retain  
U retain and collapse  
U retain and no empty  
F striplines  
F striplong  
F tabtospace  
T tracers

## tables

table

F accesstable  
F definedtable  
F definetable  
F encapsulate  
F insertaftervalue  
F insertbeforevalue  
F migratetable  
F removevalue  
F replacevalue

## templates

table

F load  
F replace  
F replacer  
F resolve

## vf (context)

<b>char</b>	function
<b>down</b>	function
<b>fontid</b>	function
<b>image</b>	function
<b>node</b>	function
<b>nop</b>	function

<b>pop</b>	function
<b>push</b>	function
<b>right</b>	function
<b>rule</b>	function
<b>special</b>	function

## visualizers (context)

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

## xml (context)

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

F all	F match	
F attribute	F name	
F chainattribute	F position	
F chainpath	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	<b>first</b>	function
F first	<b>found</b>	function
F function	<b>functions</b>	table
F index	<b>getbuffer</b>	function
F last	<b>gethandlers</b>	function
F lettered	<b>gethandlersfunction</b>	function
F lower	<b>helpers</b>	table
F lowerall	F recursetext	
F match	<b>include</b>	function
F name	<b>inclusion</b>	function
F position	<b>inclusions</b>	function
F reverse	<b>index</b>	function
F stripped	<b>inheritedconvert</b>	function
F tag	<b>inject</b>	function
F tags	<b>inject_element</b>	function
F text	<b>inject_element_after</b>	function
F upper	<b>inject_element_before</b>	function
F upperall	<b>injectafter</b>	function
T xml	<b>injectbefore</b>	function
F all	<b>insert</b>	function
F att	<b>insert_element</b>	function
F attribute	<b>insert_element_after</b>	function
F attributes	<b>insert_element_before</b>	function
F cdata	<b>insertafter</b>	function
F chainattribute	<b>insertbefore</b>	function
F count	<b>insertcdata</b>	function
F default	<b>insertcomment</b>	function
F elements	<b>inspect</b>	function
F empty	<b>is_valid</b>	function
F first	<b>kind</b>	function
F function	<b>last</b>	function
F index	<b>lastmatch</b>	function
F last	<b>load</b>	function
F lowerall	<b>lpath</b>	function



<b>lpathcached</b>	function	<b>save</b>	function
<b>lpathcalls</b>	function	<b>selection</b>	function
<b>lshow</b>	function	<b>separate</b>	function
<b>makestandalone</b>	function	<b>serialize</b>	function
<b>match</b>	function	<b>setcdata</b>	function
<b>name</b>	function	<b>setcomment</b>	function
<b>newhandlers</b>	function	<b>sethandlersfunction</b>	function
<b>nodesettostring</b>	function	<b>setinjectors</b>	function
<b>originalload</b>	function	<b>setproperty</b>	function
<b>package</b>	function	<b>settings</b>	function
<b>parent</b>	function	<b>specialcodes</b>	table
<b>parsedentitylpeg</b>	userdata	S "	
<b>pihandlers</b>	table	S #	
F injector		S \$	
F tex		S %	
<b>placeholders</b>	table	S &	
F unknown_any_entity		S '	
F unknown_dec_entity		S <	
F unknown_hex_entity		S >	
<b>position</b>	function	S \	
<b>privatecodes</b>	table	S {	
<b>privatetoken</b>	function	S	
<b>process</b>	function	S }	
<b>process_attributes</b>	function	S ~	
<b>process_elements</b>	function	<b>specialhandler</b>	table
<b>processattributes</b>	function	<b>sprint</b>	function
<b>profiled</b>	table	<b>string</b>	function
<b>raw</b>	function	<b>strip</b>	function
<b>registerentity</b>	function	<b>strip_whitespace</b>	function
<b>registers</b>	function	<b>stripelement</b>	function
<b>reindex</b>	function	<b>stripleadingspaces</b>	function
<b>remap_name</b>	function	<b>table</b>	function
<b>remap_namespace</b>	function	<b>text</b>	function
<b>remap_tag</b>	function	<b>textonly</b>	function
<b>remapname</b>	function	<b>texttocdata</b>	function
<b>remapnamespace</b>	function	<b>tocdata</b>	function
<b>remaptag</b>	function	<b>toelement</b>	function
<b>renamespace</b>	function	<b>tostring</b>	function
<b>reparsedentitylpeg</b>	userdata	<b>totable</b>	function
<b>replace</b>	function	<b>toxml</b>	function
<b>replace_element</b>	function	<b>tprint</b>	function
<b>resetinjectors</b>	function	<b>traverse</b>	function
<b>resolvens</b>	function	<b>unescaped</b>	function
<b>root</b>	function	<b>unescapedentitylpeg</b>	userdata

**unprivatized**  
**unspecialized**  
**withelement**

function  
function  
function

**withelements**  
**wrap**  
**xmlns**

function  
function  
table

## zip (extra lua)

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

## zlib (extra lua)

<b>adler32</b>	function
<b>compress</b>	function
<b>compressobj</b>	function
<b>crc32</b>	function

<b>decompress</b>	function
<b>decompressobj</b>	function
<b>version</b>	function