

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

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

# 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

## **included** table

B context  
B date  
B id  
B metadata  
B pdf

## **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 startunicodetoactualtextdirect  
F stoplayer  
F stopunicodetoactualtext  
F stopunicodetoactualtextdirect  
F supportedformats  
F unicodetoactualtext

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

## caches (context)

<b>ask</b>	boolean	<b>is_writable</b>	function
<b>base</b>	string	<b>loadcontent</b>	function
<b>collapsecontent</b>	function	<b>loaddata</b>	function
<b>configfiles</b>	function	<b>more</b>	string
<b>contentstate</b>	function	<b>relocate</b>	boolean
<b>defaults</b>	table	<b>savecontent</b>	function
<b>define</b>	function	<b>savedata</b>	function
<b>direct</b>	boolean	<b>setfirstwritablefile</b>	function
<b>force</b>	boolean	<b>setluanames</b>	function
<b>getfirstreadablefile</b>	function	<b>tree</b>	string
<b>getreadablepaths</b>	function	<b>treehash</b>	function
<b>getwritablepath</b>	function	<b>usedpaths</b>	function
<b>hashed</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>	<b>data table</b>	<b>S ai</b>	
<b>blockrange</b>	<b>function</b>	<b>S al</b>	
<b>blocks</b>	<b>data table</b>	<b>S b2</b>	
<b>casemap</b>	<b>table</b>	<b>S ba</b>	
<b>categories</b>	<b>data table</b>	<b>S bb</b>	
<b>category</b>	<b>function</b>	<b>S bk</b>	
<b>categorytags</b>	<b>data table</b>	<b>S cb</b>	
<b>classifiers</b>	<b>table</b>	<b>S cj</b>	
<b>collapsed</b>	<b>data table</b>	<b>S cl</b>	
<b>contextname</b>	<b>function</b>	<b>S cm</b>	
<b>csletters</b>	<b>data table</b>	<b>S cp</b>	
<b>data</b>	<b>data table</b>	<b>S cr</b>	
<b>decomposed</b>	<b>data table</b>	<b>S ex</b>	
<b>description</b>	<b>function</b>	<b>S gl</b>	
<b>descriptions</b>	<b>data table</b>	<b>S h2</b>	
<b>detailltags</b>	<b>data table</b>	<b>S h3</b>	
<b>directions</b>	<b>table</b>	<b>S hl</b>	
<b>encodes</b>	<b>data table</b>	<b>S hy</b>	
<b>entities</b>	<b>data table</b>	<b>S id</b>	
<b>fallbacks</b>	<b>data table</b>	<b>S in</b>	
<b>filters</b>	<b>data table</b>	<b>S is</b>	
<b>fractions</b>	<b>table</b>	<b>S jl</b>	
<b>fromnumber</b>	<b>function</b>	<b>S jt</b>	
<b>fschars</b>	<b>data table</b>	<b>S jv</b>	
<b>fscodes</b>	<b>data table</b>	<b>S lf</b>	
<b>getrange</b>	<b>function</b>	<b>S nl</b>	
<b>graphemes</b>	<b>data table</b>	<b>S ns</b>	
<b>hangul</b>	<b>data table</b>	<b>S nu</b>	
<b>initialize</b>	<b>function</b>	<b>S op</b>	
<b>is_character</b>	<b>data table</b>	<b>S po</b>	
<b>is_command</b>	<b>data table</b>	<b>S pr</b>	
<b>is_letter</b>	<b>data table</b>	<b>S qu</b>	
<b>is_mark</b>	<b>data table</b>	<b>S ri</b>	
<b>is_punctuation</b>	<b>data table</b>	<b>S sa</b>	
<b>is_spacing</b>	<b>data table</b>	<b>S sg</b>	
<b>lcchars</b>	<b>data table</b>	<b>S sp</b>	
<b>lccode</b>	<b>function</b>	<b>S sy</b>	
<b>lccodes</b>	<b>data table</b>	<b>S wj</b>	
<b>lettered</b>	<b>function</b>	<b>S xx</b>	

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>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>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>globdirs</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>loadluafile</b>	function
<b>arguments</b>	data table	<b>luafile</b>	function
<b>basicengines</b>	data table	<b>luafilechunk</b>	function
<b>currentrun</b>	number	<b>maxnofruns</b>	number
<b>default_texmfcnf</b>	string	<b>originalarguments</b>	data table
<b>definefilefallback</b>	function	<b>outputfilename</b>	string
<b>definefilesynonym</b>	function	<b>ownbin</b>	string
<b>engineflags</b>	data table	<b>ownmain</b>	string
<b>filename</b>	string	<b>ownname</b>	string
<b>files</b>	table	<b>ownpath</b>	string
<b>filesynonyms</b>	data table	<b>prerollrun</b>	boolean
<b>forcedruns</b>	number	<b>rawarguments</b>	data table
<b>getargument</b>	function	<b>reconstructcommandline</b>	function
<b>homedir</b>	string	<b>relativepath</b>	function
<b>initex</b>	boolean	<b>setargument</b>	function
<b>initializearguments</b>	function	<b>splitarguments</b>	function
<b>initializefilenames</b>	function	<b>suffix</b>	string
<b>inputfilebarename</b>	string	<b>texfile</b>	function
<b>inputfilename</b>	string	<b>texmfos</b>	string
<b>inputfilesuffix</b>	string	<b>texos</b>	string
<b>jobfilefullname</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

## 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 calculatyscale

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 registerpalette
F os/2	F scriptandlanguage
F pack	F setdynamics
F parsecharstrings	F setfeatures
F post	T statistics
F registerextender	D usedfeatures
F rehash	T svg
T streamreader	F filterglyph
F close	F storepdfdata
F getposition	F topdf
F getsizes	D svgcache
F look	B svgenabled
F open	T tables
F read2dot14	D baselines
F readbyte	D features
F readbytes	D featuretypes
F readcardinal	D languages

D scripts	T protrusion
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

D privateslots	
F readanddefine	
F registerfeature	
F resetfeature	
B resolvevirtualtoo	
F scale	
F scaled	
F setfactor	
F setfeature	
F setname	
B sharefonts	
F trytosharefont	
N version	
<b>current</b>	function
<b>currentid</b>	function
<b>definers</b>	table
F addlookup	
F analyze	
F applypostprocessors	
F checkedmode	
F checkedscript	
F current	
S defaultlookup	
F define	
F getspecification	
F internal	
F loadfont	
F makespecification	
T methods	
F install	
D variants	
F read	
F register	
F registered	
F registersplit	
F resetnullfont	
F resolve	
T resolvers	
F file	
F name	
F spec	
<b>definetypeface</b>	function
<b>encodings</b>	table
T agl	

D ctxcodes	
D extras	
D names	
T synonyms	
N Acyrillic	
N Becyrillic	
N Cdot	
N Checyrillic	
N Decyrillic	
N Djecyrillic	
N Dzecyrillic	
N Dzhecyrillic	
N Ecyrillic	
N Edot	
N Efcyrillic	
N Elcyrillic	
N Emcyrillic	
N Encyrillic	
N Ercyrillic	
N Ereversedcyrillic	
N Escyrillic	
N Fitacyrillic	
N Gcedilla	
N Gdot	
N Gecyrillic	
N Gheupturncyrillic	
N Gjecyrillic	
N Hardsigncyrillic	
N IAcyrillic	
N IUcyrillic	
N Icyrillic	
N Idot	
N Iecyrillic	
N Iicyrillic	
N Iishortcyrillic	
N Iocyrillic	
N Izhitsacyrillic	
N Jecyrillic	
N Kacyrillic	
N Kcedilla	
N Khacyrillic	
N Kjecyrillic	
N Lcedilla	
N Ljecyrillic	



N Ncedilla	N blackrightpointingpointer
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 dalethatafatah
N Tecyrillic	N dalethatafatahhebrew
N Tsecyrillic	N dalethatafsegol
N Tshacyrillic	N dalethatafsegolhebrew
N Ucyrillic	N dalethebrew
N Udblacute	N dalethiriq
N Ushortcyrillic	N dalethiriqhebrew
N Vecyrillic	N daletholam
N Yatcyrillic	N daletholamhebrew
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 dalettsera
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 etnahtafoukhebrew
N blackrectangle	N etnahtafoukhlefthebrew

N etnahtahebrew	N hatafsegol17
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 hiriqqarterhebrew
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 memdagesh	N qofhatafsegolhebrew
N merkhahebrew	N qofhebrew
N merkhakefulahebrew	N qofhiriq
N middot	N qofhiriqhebrew
N munahhebrew	N qofholam
N nbspace	N qofholamhebrew
N ncedilla	N qofpatah
N newsheqelsign	N qofpatahhebrew
N ninearabic	N qofqamats
N noonhehinitialarabic	N qofqamatshebrew
N nun	N qofqubuts
N nundagesh	N qofqubutshebrew
N odblacute	N qofsegol
N onearabic	N qofsegolhebrew
N overscore	N qofsheva
N patah	N qofshevahebrew
N patahl1	N qoftsere
N patahl1d	N qubuts
N patah2a	N qubuts18
N patahhebrew	N qubuts25
N patahnarrowhebrew	N qubuts31
N patahquarterhebrew	N qubutshebrew
N pe	N qubutsnarrowhebrew
N pedagesh	N qubutsquarterhebrew
N qamats	N quotelleftreversed
N qamats10	N rafe
N qamats1a	N rcedilla
N qamats1c	N reharabic
N qamats27	N resh
N qamats29	N reshhatafpatah
N qamats33	N reshhatafpatahhebrew
N qamatsde	N reshhatafsegol
N qamatshebrew	N reshhatafsegolhebrew
N qamatsnarrowhebrew	N reshhebrew
N qamatsqatanhebrew	N reshhiriq
N qamatsqatannarrowhebrew	N reshhiriqhebrew
N qamatsqatanquarterhebrew	N reshholam
N qamatsqatanwidehebrew	N reshholamhebrew
N qamatsquarterhebrew	N reshpatah
N qof	N reshpatahhebrew
N qofdagesh	N reshqamats
N qofhatafpatah	N reshqamatshebrew
N qofhatafpatahhebrew	N reshqubuts
N qofhatafsegol	N reshqubutshebrew

N reshsegol	N threearabic
N reshsegolhebrew	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 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  
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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  
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N Ocircumflexgrave  
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N Ocircumflextilde  
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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  
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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 aringacut
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 aeacute	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 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  
N cyrillicV  
N cyrillicYA  
N cyrillicYAT  
N cyrillicYERUdiaeresis  
N cyrillicYI  
N cyrillicYO  
N cyrillicYU  
N cyrillicYstr  
N cyrillicYstrstroke



N cyrillicZ	N cyrillicghemidhook
N cyrillicZDSC	N cyrillicghestroke
N cyrillicZEdiaeresis	N cyrillicgheupturn
N cyrillicZH	N cyrillicgje
N cyrillicZHEbreve	N cyrillich
N cyrillicZHEdescender	N cyrillicha
N cyrillicZHEdiaeresis	N cyrillichadc
N cyrillica	N cyrillichrdsn
N cyrillicabreve	N cyrillici
N cyrillicadiaeresis	N cyrillicidiaeresis
N cyrillicae	N cyrillicie
N cyrillicb	N cyrillicigrave
N cyrillicbigyus	N cyrillicii
N cyrillicbigyusiotified	N cyrillicimacron
N cyrillicc	N cyrillicishrt
N cyrillicch	N cyrillicishrttail
N cyrilliccheabkhasian	N cyrillicizhitsa
N cyrillicchedc	N cyrillicizhitsadoublegrave
N cyrillicchedcabkhasian	N cyrillicje
N cyrillicchediaeresis	N cyrillick
N cyrillicchekhakassian	N cyrillickabashkir
N cyrillicchevertstroke	N cyrillickadc
N cyrillicd	N cyrillickahook
N cyrillicdje	N cyrillickastroke
N cyrillicdze	N cyrillickavertstroke
N cyrillicdzeabkhasian	N cyrillickje
N cyrillicdzhe	N cyrillickoppa
N cyrillice	N cyrillicksi
N cyrillicebreve	N cyrillicl
N cyrillicediaeresis	N cyrilliclittleyus
N cyrillicegrave	N cyrilliclittleyusiotified
N cyrilliceiotified	N cyrilliclje
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N cyrillicemtail	N cyrillicn
N cyrillicencd	N cyrillicnje
N cyrillicenghe	N cyrillico
N cyrillicenhook	N cyrillicobarred
N cyrillicentail	N cyrillicobarreddiaeresis
N cyrillicerev	N cyrillicodiaeresis
N cyrillicertick	N cyrillicomega
N cyrillicery	N cyrillicomegaround
N cyrillicf	N cyrillicomegatitlo
N cyrillicfita	N cyrillicot
N cyrillicg	N cyrillicp

N cyrillicpamidhook	N dotlessj
N cyrillicpsi	N dotlessjstroke
N cyrillicr	N dstroke
N cyrillics	N dtail
N cyrillicschwa	N dzcaronligature
N cyrillicschwadiaeresis	N dzligature
N cyrillicsdsc	N eacute
N cyrillicsemisoft	N ebreve
N cyrillicsftsn	N ecaron
N cyrillicsh	N ecedilla
N cyrillicshch	N ecircumflex
N cyrillicshha	N ecircumflexacute
N cyrillict	N ecircumflexdotbelow
N cyrillictedc	N ecircumflexgrave
N cyrillictetse	N ecircumflexhook
N cyrillictshe	N ecircumflextilde
N cyrillicu	N ediaeresis
N cyrillicudiaeresis	N edotaccent
N cyrillicudoubleacute	N edotbelow
N cyrillicuk	N edoublegrave
N cyrillicumacron	N egrave
N cyrillicushrt	N ehook
N cyrillicv	N einvertedbreve
N cyrillicya	N emacron
N cyrillicyat	N emdash
N cyrillicyerudiaeresis	N emspace
N cyrillicyi	N endash
N cyrillicyo	N enspace
N cyrillicystr	N eogonek
N cyrillicystrstroke	N etilde
N cyrillicyu	N exclamdown
N cyrillicz	N ffiligature
N cyrilliczdsc	N ffligature
N cyrilliczediaeresis	N ffligature
N cyrilliczh	N fhook
N cyrilliczhebreve	N figurespace
N cyrilliczhedescender	N filigature
N cyrilliczhediaeresis	N fiveeighths
N dcaron	N fivesixths
N dcurl	N flligature
N dhook	N fourfifths
N dotlessI	N fourperemspace
N dotlessJ	N gacute
N dotlessi	N gbreve

N gcaron	N greekEtaiotasub
N gcircumflex	N greekEtaiotasubdasia
N gcommaaccent	N greekEtaiotasubdasiaperispomeni
N gdotaccent	N greekEtaiotasubdasiatonos
N greekAlpha	N greekEtaiotasubdasiavaria
N greekAlphadasia	N greekEtaiotasubpsili
N greekAlphadasiaaperispomeni	N greekEtaiotasubpsiliperispomeni
N greekAlphadasiatonos	N greekEtaiotasubpsilitonos
N greekAlphadasiaavaria	N greekEtaiotasubpsilivaria
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N greekAlphaiotasubdasia	N greekEtapsiliperispomeni
N greekAlphaiotasubdasiaperispomeni	N greekEtapsilitonos
N greekAlphaiotasubdasiatonos	N greekEtapsilivaria
N greekAlphaiotasubdasiavaria	N greekEtatonos
N greekAlphaiotasubpsili	N greekEtavaria
N greekAlphaiotasubpsiliperispomeni	N greekGamma
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N greekAlphaiotasubpsilivaria	N greekIotadasia
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N greekAlhapsili	N greekIotadasiatonos
N greekAlhapsiliperispomeni	N greekIotadasiaavaria
N greekAlhapsilitonos	N greekIotadialytika
N greekAlhapsilivaria	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 greekOmegasia
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N greekEtadasia	N greekOmegaiotasubdasia
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N greekEtadasiaavaria	N greekOmegaiotasubdasiavaria

N greekOmegaiotasubpsili	N greekalphadasiavaria
N greekOmegaiotasubpsiliperispomeni	N greekalphiotasub
N greekOmegaiotasubpsilitonos	N greekalphiotasubdasia
N greekOmegaiotasubpsilivaria	N greekalphiotasubdasiaperispomeni
N greekOmegapsili	N greekalphiotasubdasiatonos
N greekOmegapsiliperispomeni	N greekalphiotasubdasiavaria
N greekOmegapsilitonos	N greekalphiotasubperispomeni
N greekOmegapsilivaria	N greekalphiotasubpsili
N greekMegatonos	N greekalphiotasubpsiliperispomeni
N greekMegavaria	N greekalphiotasubpsilitonos
N greekOmicron	N greekalphiotasubpsilivaria
N greekOmicrondasia	N greekalphiotasubtonos
N greekOmicrondasiatonos	N greekalphiotasubvaria
N greekOmicrondasiavaria	N greekalphamacron
N greekOmicronpsili	N greekalphaoxia
N greekOmicronpsilitonos	N greekalphaperispomeni
N greekOmicronpsilivaria	N greekalphapsili
N greekOmicrontonos	N greekalphapsiliperispomeni
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N greekPsi	N greekalphavaria
N greekRho	N greekalphavrachy
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N greekSigmaunate	N greekdasia
N greekTau	N greekdasiaperispomeni
N greekTheta	N greekdasiatonos
N greekUpsilon	N greekdasiavaria
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N greekUpsilondasiaperispomeni	N greekdialytikaperispomeni
N greekUpsilondasiatonos	N greekdialytikatonos
N greekUpsilondasiavaria	N greekdialytikavaria
N greekUpsilondialytika	N greekdigamma
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N greekUpsilontonos	N greekepsilonalt
N greekUpsilonvaria	N greekepsilondasia
N greekUpsilonvrachy	N greekepsilondasiatonos
N greekXi	N greekepsilondasiavaria
N greekZeta	N greekepsilonoxia
N greekalpha	N greekepsilonpsili
N greekalphadasia	N greekepsilonpsilitonos
N greekalphadasiaperispomeni	N greekepsilonpsilivaria
N greekalphadasiatonos	N greekepsilontonos

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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 greekomegadasiavaria
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
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N greekiotadasiatonos	N greekomegapsilivaria
N greekiotadasiavaria	N greekomegatonos
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N greekiotadialytikavaria	N greekomicrondasiatonos
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N greekiotaperispomeni	N greekomicronpsili
N greekiotapsili	N greekomicronpsilitonos
N greekiotapsiliperispomeni	N greekomicronpsilivaria
N greekiotapsilitonos	N greekomicrontonos
N greekiotapsilivaria	N greekomicronvaria

N greekoxia	N greekxi
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
N greekupsilonmacron	N hebrewYod
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 idotbelow	N ocircumflextilde
N idoublegrave	N odiaeresis
N igrave	N odiaeresismacron
N ihook	N odotaccent
N iinvertedbreve	N odotaccentmacron
N ijligature	N odotbelow
N imacron	N odoublegrave
N iogonek	N oeligature
N itilde	N ograve
N jcaron	N ohook
N jcircumflex	N ohorn
N kcaron	N ohornacute
N kcommaaccent	N ohorndotbelow
N khook	N ohorngrave
N kkra	N ohornhook
N lacute	N ohorntilde
N lbar	N ohungarumlaut
N lcaron	N oinvertedbreve
N lcommaaccent	N omacron
N lcurl	N oneeighth
N ldotmiddle	N onefifth
N leftguillemot	N onehalf
N ljligature	N onequarter
N lstroke	N onesixth
N medspace	N onesuperior
N nacute	N onethird
N napostrophe	N oogonek
N narrownobreakspace	N oogonekmacron
N ncaron	N ordfeminine
N ncommaaccent	N ordmasculine
N ncurl	N ostroke
N neng	N ostrokeacute
N ngrave	N otilde
N njligature	N otildemacron
N nobreakspace	N paragraphmark
N ntilde	N periodcentered
N oacute	N perthousand
N obreve	N phook
N ocaron	N punctuationspace
N ocircumflex	N questiondown
N ocircumflexacute	N quotedbl
N ocircumflexdotbelow	N quotedblbase
N ocircumflexgrave	N quotedblleft
N ocircumflexhook	N quotedblright

N quoteleft  
N quoteright  
N quotesingle  
N quotesinglebase  
N racute  
N rcaron  
N rcommaaccent  
N rdoublegrave  
N registered  
N rightguillemot  
N rinvertedbreve  
N romanC  
N romanD  
N romanI  
N romanII  
N romanIII  
N romanIV  
N romanIX  
N romanL  
N romanM  
N romanV  
N romanVI  
N romanVII  
N romanVIII  
N romanX  
N romanXI  
N romanXII  
N romanc  
N romand  
N romani  
N romanii  
N romaniii  
N romaniv  
N romanix  
N romanl  
N romanm  
N romanv  
N romanvi  
N romanvii  
N romanviii  
N romanx  
N romanxi  
N romanxii  
N sacute

N scaron  
N scedilla  
N schwa  
N schwahook  
N scircumflex  
N scommaaccent  
N sectionmark  
N seveneighths  
N sixperemspace  
N slong  
N softhyphen  
N ssharp  
N stligature  
N tcaron  
N tcedilla  
N tcommaaccent  
N tcurl  
N textAngstrom  
N textacute  
N textampersand  
N textasciicircum  
N textasciitilde  
N textat  
N textbackslash  
N textbar  
N textbottomcomma  
N textbottomdot  
N textbraceleft  
N textbraceright  
N textbreve  
N textbrokenbar  
N textbullet  
N textcaron  
N textcedilla  
N textcelsius  
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N textcircledP  
N textcircumflex  
N textcomma  
N textcurrency  
N textdag  
N textddag  
N textdegree  
N textdiaeresis



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N textdollar	N ubreve
N textdong	N ucaron
N textdotaccent	N ucircumflex
N textellipsis	N udiaeresis
N texteuro	N udiaeresisacute
N textfraction	N udiaeresiscaron
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N texthash	N udiaeresismacron
N texthorizontalbar	N udotbelow
N texthungarumlaut	N udoublegrave
N texthyphen	N ugrave
N textkelvin	N uhook
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
N thorn	N ytilde
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N threefifths	N zcaron
N threeperemspace	N zdotaccent
N threequarter	N zerowidthnobreospace
N threesuperior	N zerowidthspace
N trademark	N zhook
N tstroke	N zstroke
N twofifths	N zwj
N twosuperior	N zwnj
N twothirds	F is_known

D known	N Aringbelow
F load	N Atilde
F make_unicode_vector	N Aybarmenian
D math	N B
T names	N Bcircle
T unicodes	N Bdotaccent
N A	N Bdotbelow
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
N Acyrillic	N Checyrillic
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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

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N Dcroat  
N Ddotaccent  
N Ddotbelow  
N Decyrillic  
N Deicoptic  
N Delta  
N Deltagreek  
N Dhook  
N Digammagreek  
N Djecyrillic  
N Dlinebelow  
N Dmonospace  
N Dslash  
N Dtopbar  
N Dz  
N Dzcaron  
N Dzeabkhasiancyrillic  
N Dzecyrillic  
N Dzhecyrillic  
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N Ebreve  
N Ecaron  
N Ecedillabreve  
N Echarmenian  
N Ecircle  
N Ecircumflex  
N Ecircumflexacute  
N Ecircumflexbelow  
N Ecircumflexdotbelow  
N Ecircumflexgrave  
N Ecircumflexhookabove  
N Ecircumflextilde  
N Ecyrillic  
N Edblgrave  
N Edieresis  
N Edot  
N Edotaccent  
N Edotbelow  
N Efcyrillic  
N Egrave  
N Eharmenian

N Ehookabove  
N Eightroman  
N Einvertedbreve  
N Eiotifiedcyrillic  
N Elcyrillic  
N Elevenroman  
N Emacron  
N Emacronacute  
N Emacrongrave  
N Emcyrillic  
N Emonospace  
N Encyrillic  
N Endescendercyrillic  
N Eng  
N Enghecyrillic  
N Enhookcyrillic  
N Egonek  
N Eopen  
N Epsilon  
N Epsilontonos  
N Ercyrillic  
N Ereversed  
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  
N Ezhreversed  
N F  
N Fcircle  
N Fdotaccent  
N Feharmenian  
N Feicoptic  
N Fhook  
N Fitacyrillic  
N Fiveroman

N Fmonospace	N Hdotbelow
N Fourroman	N Hmonospace
N G	N Hoarmenian
N GBsquare	N Horicoptic
N Gacute	N Hzsquare
N Gamma	N I
N Gammaafrican	N IAcyrillic
N Gangiacoptic	N IJ
N Gbreve	N IUcyrillic
N Gcaron	N Iacute
N Gcedilla	N Ibreve
N Gcircle	N Icaron
N Gcircumflex	N Icircle
N Gcommaaccent	N Icircumflex
N Gdot	N Icyrillic
N Gdotaccent	N Idblgrave
N Gecyrillic	N Idieresis
N Ghadarmenian	N Idieresisacute
N Ghemiddlehookcyrillic	N Idieresiscyrillic
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 Iocyrlilic
N Hascendercyrillic	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 Izhitsadblgravecyrillic  
N J  
N Jaarmenian  
N Jcircle  
N Jcircumflex  
N Jecyrillic  
N Jheharmenian  
N Jmonospace  
N K  
N KBsquare  
N KKsquare  
N Kabashkircyrillic  
N Kacute  
N Kacyrillic  
N Kadescendercyrillic  
N Kahookcyrillic  
N Kappa  
N Kastrokecyrillic  
N Kaverticalserokecyrillic  
N Kcaron  
N Kcedilla  
N Kcircle  
N Kcommaaccent  
N Kdotbelow  
N Keharmenian  
N Kenarmenian  
N Khacyrillic  
N Kheicoptic  
N Khook  
N Kjecyrillic  
N Klinebelow  
N Kmonospace  
N Koppacyrillic  
N Koppagreek  
N Ksicyrillic  
N L  
N LJ  
N Lacute  
N Lambda  
N Lcaron  
N Lcedilla  
N Lcircle  
N Lcircumflexbelow  
N Lcommaaccent

N Ldot  
N Ldotaccent  
N Ldotbelow  
N Ldotbelowmacron  
N Liwnarmenian  
N Lj  
N Ljecyrillic  
N Llinebelow  
N Lmonospace  
N Lslash  
N M  
N MBsquare  
N Macute  
N Mcircle  
N Mdotaccent  
N Mdotbelow  
N Menarmenian  
N Mmonospace  
N Mturned  
N Mu  
N N  
N NJ  
N Nacute  
N Ncaron  
N Ncedilla  
N Ncircle  
N Ncircumflexbelow  
N Ncommaaccent  
N Ndotaccent  
N Ndotbelow  
N Nhookleft  
N Nineroman  
N Nj  
N Njecyrillic  
N Nlinebelow  
N Nmonospace  
N Nowarmenian  
N Ntilde  
N Nu  
N O  
N OE  
N Oacute  
N Obarredcyrillic  
N Obarreddieresiscyrillic

N Obreve	N Oopen
N Ocaron	N Oslash
N Ocenteredtilde	N Oslashacute
N Ocircle	N Ostrokeacute
N Ocircumflex	N Otcyrillic
N Ocircumflexacute	N Otilde
N Ocircumflexdotbelow	N Otildeacute
N Ocircumflexgrave	N Otildedieresis
N Ocircumflexhookabove	N P
N Ocircumflextilde	N Pacute
N Ocyrillic	N Pcircle
N Odblacute	N Pdotaccent
N Odblgrave	N Pecyrillic
N Odieresis	N Peharmerian
N Odieresiscyrillic	N Pemiddlehookcyrillic
N Odotbelow	N Phi
N Ograve	N Phook
N Oharmenian	N Pi
N Ohm	N Piwrarmenian
N Ohookabove	N Pmonospace
N Ohorn	N Psi
N Ohornacute	N Psicyrillic
N Ohorndotbelow	N Q
N Ohorngrave	N Qcircle
N Ohornhookabove	N Qmonospace
N Ohorntilde	N R
N Ohungarumlaut	N Raarmenian
N Oi	N Racute
N Oinvertedbreve	N Rcaron
N Omacron	N Rcedilla
N Omacronacute	N Rcircle
N Omacrongrave	N Rcommaaccent
N Omega	N Rdblgrave
N Omegacyrillic	N Rdotaccent
N Omegagreek	N Rdotbelow
N Omegaroundcyrillic	N Rdotbelowmacron
N Omegatitlocyrillic	N Reharmerian
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

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N SF070000	N Sacutedotaccent
N SF080000	N Sampigreek
N SF090000	N Scaron
N SF10000	N Scarondotaccent
N SF100000	N Scedilla
N SF110000	N Schwa
N SF190000	N Schwacyrillic
N SF20000	N Schwadiesiscyrillic
N SF200000	N Scircle
N SF210000	N Scircumflex
N SF220000	N Scommaaccent
N SF230000	N Sdotaccent
N SF240000	N Sdotbelow
N SF250000	N Sdotbelowdotaccent
N SF260000	N Seharmerian
N SF270000	N Sevenroman
N SF280000	N Shaarmenian
N SF30000	N Shacyrillic
N SF360000	N Shchacyrillic
N SF370000	N Sheicoptic
N SF380000	N Shhacyrillic
N SF390000	N Shimacoptic
N SF40000	N Sigma
N SF400000	N Sixroman
N SF410000	N Smonospace
N SF420000	N Softsigncyrillic
N SF430000	N Stigmagreek
N SF440000	N T
N SF450000	N Tau
N SF460000	N Tbar
N SF470000	N Tcaron
N SF480000	N Tcedilla
N SF490000	N Tcircle
N SF50000	N Tcircumflexbelow
N SF500000	N Tcommaaccent
N SF510000	N Tdotaccent
N SF520000	N Tdotbelow

N Tecyrillic	N Uhornhookabove
N Tedescendercyrillic	N Uhorntilde
N Tenroman	N Uhungarumlaut
N Tetsecyrillic	N Uhungarumlautcyrillic
N Theta	N Uinvertedbreve
N Thook	N Ukcyrillic
N Thorn	N Umacron
N Threeroman	N Umacroncyrillic
N Tiwnarmenian	N Umacrondieresis
N Tlinebelow	N Umonospace
N Tmonospace	N Uogonek
N Toarmenian	N Upsilon
N Tonefive	N Upsilon1
N Tonesix	N Upsilonacutehooksymbolgreek
N Tonetwo	N Upsilonafrican
N Tretroflexhook	N Upsilondieresis
N Tsecyrillic	N Upsilondieresishooksymbolgreek
N Tshecyrillic	N Upsilonhooksymbol
N Twelveroman	N Upsilontonos
N Tworoman	N Uring
N U	N Ushortcyrillic
N Uacute	N Ustraightcyrillic
N Ubreve	N Ustraightstrokecyrillic
N Ucaron	N Utilde
N Ucircle	N Utildeacute
N Ucircumflex	N Utildebelow
N Ucircumflexbelow	N V
N Ucyrillic	N Vcircle
N Udblacute	N Vdotbelow
N Udblgrave	N Vecyrillic
N Udieresis	N Vewarmenian
N Udieresisacute	N Vhook
N Udieresisbelow	N Vmonospace
N Udieresiscaron	N Voarmenian
N Udieresisiscyrillic	N Vtilde
N Udieresisgrave	N W
N Udieresismacron	N Wacute
N Udotbelow	N Wcircle
N Ugrave	N Wcircumflex
N Uhookabove	N Wdieresis
N Uhorn	N Wdotaccent
N Uhornacute	N Wdotbelow
N Uhorndotbelow	N Wgrave
N Uhorngrave	N Wmonospace



N X	N Zhecyrillic
N Xcircle	N Zhedescendercyrillic
N Xdieresis	N Zhedieresiscyrillic
N Xdotaccent	N Zlinebelow
N Xeharmenian	N Zmonospace
N Xi	N Zstroke
N Xmonospace	N a
N Y	N aabengali
N Yacute	N aacute
N Yatcyrillic	N aadeva
N Ycircle	N aagujarati
N Ycircumflex	N aagurmukhi
N Ydieresis	N aamatragurmukhi
N Ydotaccent	N aarusquare
N Ydotbelow	N aavowelsignbengali
N Yericyrillic	N aavowelsigndeva
N Yerudieresiscyrillic	N aavowelsigngujarati
N Ygrave	N abbreviationmarkarmenian
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 Yuslitleiotifiedcyrillic	N acaron
N Z	N acircle
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
N Zecyrillic	N acutecmb
N Zedescendercyrillic	N acutecomb
N Zedieresiscyrillic	N acutedeva
N Zeta	N acutelowmod
N Zhearmenian	N acutetonecmb
N Zhebrevecyrillic	N acyrillic

N adblgrave	N afii10047
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N adieresiscyrillic	N afii10051
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N aeacute	N afii10056
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N afii57683	N agujarati
N afii57684	N agurmukhi
N afii57685	N ahiragana
N afii57686	N ahookabove
N afii57687	N aibengali
N afii57688	N aibopomofo
N afii57689	N aideva
N afii57690	N aiecyrillic
N afii57694	N aigujarati

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N aimatragurmukhi	N anglebracketleftvertical
N ainarabic	N anglebracketright
N ainfinalarabic	N anglebracketrightvertical
N aininitialarabic	N angleleft
N ainmedialarabic	N angleright
N ainvertedbreve	N angstrom
N aivowelsignbengali	N anoteleia
N aivowelsigndeva	N anudattadeva
N aivowelsigngujarati	N anusvarabengali
N akatakana	N anusvaradeva
N akatakanahalfwidth	N anusvaragujarati
N akorean	N aogonek
N alef	N apaatosquare
N alefarabic	N aparen
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 arrowheadleftmod	N aturned
N arrowheadrightmod	N aubengali
N arrowheadupmod	N aubopomofo
N arrowleft	N audeva
N arrowleftdbl	N augujarati
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N arrowleftoverright	N aulengthmarkbengali
N arrowleftwhite	N aumatragurmukhi
N arrowright	N auvowelsignbengali
N arrowrightdblstroke	N auvowelsigndeva
N arrowrightheavy	N auvowelsigngujarati
N arrowrightoverleft	N avagrahadeva
N arrowrightwhite	N aybarmenian
N arrowtableft	N ayin
N arrowtabright	N ayinaltonehebrew
N arrowup	N ayinhebrew
N arrowupdn	N b
N arrowupdnbse	N babengali
N arrowupdownbase	N backslash
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
N ascript	N barmonospace
N ascriptturned	N bbopomofo
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N asmallkatakana	N bdotaccent
N asmallkatakanahalfwidth	N bdotbelow
N asterisk	N beamedsixteenthnotes
N asteriskaltonearabic	N because
N asteriskarabic	N becyrillic
N asteriskmath	N beharabic
N asteriskmonospace	N behfinalarabic
N asterisksmall	N behinitialarabic
N asterism	N behiragana
N asymptoticallyequal	N behmedialarabic
N at	N behmeeminitialarabic
N atilde	N behmeemisolatedarabic
N atmonospace	N behnoonfinalarabic
N atsmall	N bekatakana

N benarmenian	N bobaimaithai
N bet	N bohiragana
N beta	N bokatakana
N betasymbolgreek	N bparen
N betdagesh	N bqsquare
N betdageshhebrew	N braceleft
N bethebrew	N braceleftmonospace
N betrafehebrew	N braceleftsmall
N bhabengali	N braceleftvertical
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 candrabindudeva	N chochangthai
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 commaarmenian	N cornerbracketleft
N commamonospace	N cornerbracketlefthalfwidth
N commareversedabovcmb	N cornerbracketleftvertical
N commareversedmod	N cornerbracketright
N commasmall	N cornerbracketrighthalfwidth
N commaturnedabovcmb	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 daletpatah	N ddabengali
N daletpatahhebrew	N ddadeva
N daletqamats	N ddagujarati
N daletqamatshebrew	N ddagurmukhi
N daletqubuts	N ddalarabic
N daletqubutshebrew	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 dasiapneumatacyrilliccmb	N dekatakana
N dblanglebracketleft	N deleteleft
N dblanglebracketleftvertical	N deleteright
N dblanglebracketright	N delta
N dblanglebracketrightvertical	N deltaturned
N dblarchinvertedbelowcmb	N denominatorminusonenumeratorbengali
N dbllarrowleft	N dezh
N dbllarrowright	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 dieresis-tonos
N dcedilla	N dihiragana
N dcircle	N dikatakana
N dcircumflexbelow	N dittomark
N dcroat	N divide

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 dorusquare  
 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 epsilonontonos  
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 fifteenperiod
N etnahtafoukhlefthebrew	N figuredash
N etnahtahebrew	N filledbox
N etnahtalefthebrew	N filledrect
N eturned	N finalkaf
N eukorean	N finalkafdagesh
N euro	N finalkafdageshhebrew
N evowelsignbengali	N finalkafhebrew
N evowelsigndeva	N finalkafqamats
N evowelsingujarati	N finalkafqamatshebrew
N exclam	N finalkafsheva
N exclamarmenian	N finalkafshevahebrew
N exclamdbl	N finalmem
N exclamdown	N finalmemhebrew
N exclammonospace	N finalnun
N existential	N finalnunhebrew
N ezh	N finalpe
N ezhcaron	N finalpehebrew
N ezhcurl	N finaltsadi
N ezhreversed	N finaltsadihebrew
N ezhtail	N firsttonechinese
N f	N fisheye
N fadeva	N fitacyrillic
N fagurmukhi	N five
N fahrenheit	N fivearabic
N fathaarabic	N fivebengali
N fathalowarabic	N fivecircle
N fathatanarabic	N fivecircleinversesansserif
N fbopomofo	N fivedeva
N fcircle	N fiveeighths
N fdotaccent	N fivegujarati
N feharabic	N fivegurmukhi
N feharmenian	N fivehackarabic
N fehfinalarabic	N fivehangzhou
N fehinitialarabic	N fiveideographicparen
N fehmedialarabic	N fiveinferior
N feicoptic	N fivemonospace
N female	N fiveparen
N ff	N fiveperiod
N ffi	N fivepersian
N ffl	N fiveroman
N fi	N fivesuperior
N fifteencircle	N fivethai
N fifteenparen	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 guilsinglright
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 hatafqamats1b	N hekatakana
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 hiriq21
N hcircumflex	N hiriq2d
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 hehaltonearabic	N hokatakana
N heharabic	N hokatakanahalfwidth
N hehebrew	N holam
N hehfinalaltonearabic	N holam19
N hehfinalalttwoarabic	N holam26
N hehfinalarabic	N holam32
N hehhamzaabovefinalarabic	N holamhebrew
N hehhamzaaboveisolatedarabic	N holamnarrowhebrew
N hehinitialaltonearabic	N holamquarterhebrew
N hehinitialarabic	N holamwidehebrew
N hehiragana	N honokhukthai
N hehmedialaltonearabic	N hookabovecomb
N hehmedialarabic	N hookcmb
N heiseierasquare	N hookpalatalizedbelowcmb



N hookretroflexbelowcmb	N ideographicexcellentcircle
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 huiitosquare	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 idotbelow	N intisquare
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 iotadiesisistonos
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 jcircle
N integral	N jcircumflex
N integralbottom	N jcrossedtail
N integralbt	N jdotlessstroke
N integraltop	N jecyrillic
N integraltp	N jeemarabic
N intersection	N jeemfinalarabic

N jeeminitialarabic  
N jeemmedialarabic  
N jeharabic  
N jehfinalarabic  
N jhabengali  
N jhadeva  
N jhagujarati  
N jhagurmukhi  
N jheharmerian  
N jis  
N jmonospace  
N jpren  
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 kapyeounphieupkorean  
N kapyeounpieupkorean  
N kapyeounssangpieupkorean  
N karoriisquare  
N kashidaautoarabic  
N kashidaautonosidebearingarabic

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 kenarmerian  
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 lagurmukhi
N khzsquare	N lakkhangyaotai
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 kokaiithai	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 ldotbelowmacron	N luthai
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 meemmedialarabic	N mmsquaredsquare
N meemmeeminitialarabic	N mohiragana
N meemmeemisolatedarabic	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 mhiragana	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 nabra
N mmonospace	N nacute

N nadeva	N nine
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 nmsquare
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 nihiragana	N nonuthai
N nikatakana	N noonarabic
N nikatakanahalfwidth	N noonfinalarabic
N nikhahitthai	N noonghunnaarabic

N noonghunnafinalarabic	N nundagesh
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 ohiragana	N oneinferior
N ohookabove	N onemonospace
N ohorn	N onenumeratorbengali
N ohornacute	N oneparen
N ohorndotbelow	N oneperiod
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 ovowelsigngujarati  
N p  
N paampssquare  
N paasentosquare  
N pabengali  
N pacute  
N padeva  
N pagedown  
N pageup  
N pagujarati  
N pagurmukhi  
N pahiragana  
N paiyannoithai  
N pakatakana  
N palatalizationcyrillicmb  
N palochkacyrillic  
N pansioskorean  
N paragraph  
N parallel  
N parenleft  
N parenleftalttonearabic  
N parenleftinferior  
N parenleftmonospace  
N parenleftsmall  
N parenleftsuperior  
N parenleftvertical  
N parenright  
N parenrightalttonearabic  
N parenrightinferior  
N parenrightmonospace  
N parenrightsmall  
N parenrightsuperior  
N parenrightvertical  
N partialdiff  
N paseqhebrew  
N pashtahebrew  
N pasquare  
N patah  
N patah1l  
N patah1d  
N patah2a  
N patahhebrew  
N patahnarrowhebrew  
N patahquarterhebrew

N patahwidehebrew  
N pazerhebrew  
N pbopomofo  
N pcircle  
N pdotaccent  
N pe  
N pecyrillic  
N pedagesh  
N pedageshhebrew  
N peezisquare  
N pefinaldageshhebrew  
N peharabic  
N peharmenian  
N pehebrew  
N pehfinalarabic  
N pehinitialarabic  
N pehiragana  
N pehmedialarabic  
N pekatakana  
N pemiddlehookcyrillic  
N perafehebrew  
N percent  
N percentarabic  
N percentmonospace  
N percentsmall  
N period  
N periodarmenian  
N periodcentered  
N periodhalfwidth  
N periodmonospace  
N periodsmall  
N perispomenigreekcmb  
N perpendicular  
N perthousand  
N peseta  
N pfsquare  
N phabengali  
N phadeva  
N phagujarati  
N phagurmukhi  
N phi  
N phil  
N phieuphacirclekorean  
N phieuphaparenkorean

N phieuphcirclekorean  
 N phieuphkorean  
 N phieuphparenkorean  
 N philatin  
 N phinthuthai  
 N phisymbolgreek  
 N phook  
 N phophanthai  
 N phophungthai  
 N phosamphaothai  
 N pi  
 N pieupacirclekorean  
 N pieupaparenkorean  
 N pieupcieuckorean  
 N pieupcirclekorean  
 N pieupkiyeokkorean  
 N pieupkorean  
 N pieupparenkorean  
 N pieupsioskiyeokkorean  
 N pieupsioskorean  
 N pieupsiosstikeutkorean  
 N pieupthieuthkorean  
 N pieuptikeutkorean  
 N pihiragana  
 N pikatakana  
 N pisymbolgreek  
 N piwrarmenian  
 N plus  
 N plusbelowcmb  
 N pluscircle  
 N plusminus  
 N plusmod  
 N plusmonospace  
 N plusmall  
 N plussuperior  
 N pmonospace  
 N pmsquare  
 N pohiragana  
 N pointingindexdownwhite  
 N pointingindexleftwhite  
 N pointingindexrightwhite  
 N pointingindexupwhite  
 N pokatakana  
 N poplathai

N postalmark  
 N postalmarkface  
 N pparen  
 N precedes  
 N prescription  
 N primemod  
 N primereversed  
 N product  
 N projective  
 N prolongedkana  
 N propellor  
 N propersubset  
 N proper superset  
 N proportion  
 N proportional  
 N psi  
 N psicyrillic  
 N psilipneumatacyrilliccmb  
 N pssquare  
 N puhiragana  
 N pukatakana  
 N pvsquare  
 N pwsquare  
 N q  
 N qadeva  
 N qadmahebrew  
 N qafarabic  
 N qaffinalarabic  
 N qafinitialarabic  
 N qafmedialarabic  
 N qamats  
 N qamats10  
 N qamats1a  
 N qamats1c  
 N qamats27  
 N qamats29  
 N qamats33  
 N qamatsde  
 N qamatshebrew  
 N qamatsnarrowhebrew  
 N qamatsqatanhebrew  
 N qamatsqatannarrowhebrew  
 N qamatsqatanquarterhebrew  
 N qamatsqatanwidehebrew

N qamatsquarterhebrew	N questiondown
N qamatswidehebrew	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 rdotaccent	N rhadeva
N rdotbelow	N rho
N rdotbelowmacron	N rhoohk
N referencemark	N rhoohkturned
N reflexsubset	N rhoohkturnedsuperior
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 reshhatafpatah	N rieulparenkorean
N reshhatafpatahhebrew	N rieulphieuphkorean
N reshhatafsegol	N rieulpieupkorean
N reshhatafsegolhebrew	N rieulpieupsioskorean
N reshhebrew	N rieulsioskorean
N reshhiriq	N rieulthieuthkorean
N reshhiriqhebrew	N rieultikeutkorean
N reshholam	N rieulyeorinhieuhkorean
N reshholamhebrew	N rightangle
N reshpatah	N righttackbelowcmb
N reshpatahhebrew	N righttriangle
N reshqamats	N rihiragana
N reshqamatshebrew	N rikatakana
N reshqubuts	N rikatakanahalfwidth
N reshqubutshebrew	N ring
N reshsegol	N ringbelowcmb
N reshsegolhebrew	N ringcmb
N reshsheva	N ringhalfleft
N reshshevahebrew	N ringhalfleftarmenian
N reshtsere	N ringhalfleftbelowcmb
N reshtserehebrew	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 rlonglegturned	N sahiragana
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 saraithai
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 segol	N sfthyphen
N segol13	N shaarmenian
N segol1f	N shabengali
N segol2c	N shacyrillic
N segolhebrew	N shaddaarabic
N segolnarrowhebrew	N shaddadammaarabic
N segolquarterhebrew	N shaddadammatanarabic
N segoltahebrew	N shaddafathaarabic
N segolwidehebrew	N shaddafathatanarabic
N seharmenian	N shaddakasraarabic
N sehiragana	N shaddakasratanarabic
N sekatakana	N shade
N sekatakanahalfwidth	N shadedark
N semicolon	N shadelight
N semicolonarabic	N shademedium
N semicolonmonospace	N shadeva
N semicolonsmall	N shagujarati
N semivoicedmarkkana	N shagurmukhi
N semivoicedmarkkanahalfwidth	N shalshethebrew
N sentisquare	N shbopomofo
N sentosquare	N shchacyrillic
N seven	N sheenarabic
N sevenarabic	N sheenfinalarabic
N sevenbengali	N sheeninitialarabic
N sevencircle	N sheenmedialarabic
N sevencircleinversesansserif	N sheicoptic
N sevendeve	N sheqel
N seveneighths	N sheqelhebrew
N sevengujarati	N sheva
N sevengurmukhi	N sheva15
N sevenhackarabic	N sheva15
N sevenhangzhou	N sheva22
N sevenideographicparen	N sheva2e
N seveninferior	N shevahebrew
N sevenmonospace	N shevanarrowhebrew
N sevenparen	N shevaquarterhebrew
N sevenperiod	N shevawidehebrew
N sevenpersian	N shhacyrillic
N sevenroman	N shimacoptic
N sevensuperior	N shin
N seventeencircle	N shindagesh
N seventeenparen	N shindageshhebrew
N seventeenperiod	N shindageshshindot
N seventhai	N shindageshshindothebrew

N shindageshsindot	N sixperiod
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 sofasuqhebrew
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 sosalathai
N sioskorean	N sosothai
N siosnieunkorean	N sosuathai
N siosparenkorean	N space
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F define		F addtojavascriptpreamble
F list		F addtolist
<b>registernamespace</b>	function	F addvalidinterfacekeys
<b>scanners</b>	table	F allinputpaths
F Alphabetic		F alphabetic
F Character		F analyzefloatmethod
F Characters		F analyzeitemgroup
F MPLIBconvertoutlinetext		F analyzelist
F MPc		F analyzeregister
F MPd		F applypattern
F MPH		F applytobox
F MPll		F applytofirstcharacter
F MPLr		F assignbuffer
F MPLs		F autofinishstructurelevels
F MPn		F autonextspace
F MPp		F autonextstructurelevel

F autose setups	F btxlastofrange
F autostarttext	F btxlistvariant
F autostoptext	F btxloaddefinitionfile
F averagecharwidth	F btxloadjournallist
F bitmapimage	F btxloadreplacementfile
F blockcolumnset	F btxoneorrange
F boxtostring	F btxpreparelistentries
F bposcolumn	F btxremapauthor
F bposcolumnregistered	F btxsavedataset
F btxabbreviatedjournal	F btxsavejournallist
F btxaddentry	F btxsetdataset
F btxaddjournal	F btxsetentry
F btxauthor	F btxsetregister
F btxauthorfield	F btxsetspecification
F btxauthortoregister	F btxsingularorplural
F btxcollectlistentries	F btxtoregister
F btxcurrentfirstnames	F btxusedataset
F btxcurrentinitials	F btxuservariable
F btxcurrentjuniors	F buildtextaccent
F btxcurrentsurnames	F character
F btxcurrentvons	F characters
F btxdetail	F chardescription
F btxdirect	F checkcolumnset
F btxdoif	F checkcountersetup
F btxdoifelse	F checkedconversion
F btxdoifelsecombiinlist	F checkedpagefloat
F btxdoifelsesameasprevious	F checkinjector
F btxdoifelseuservariable	F checkinterfacechain
F btxdoifnot	F checktwopassdata
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 converteddimen	F definefontfeature
F converttmpstopdf	F definefontsolution
F copyboxfromcache	F definehyphenationfeatures
F copyposition	F defineinsertion
F cos	F defineintermediatecolor
F cosd	F definelabels
F countervalue	F definelanguage
F counttwopassdata	F definelinefiller
F currentcomponent	F definelinkedlist
F currentdate	F definemarking
F currentdesignsize	F definemetafont
F currentenvironment	F definemultitonecolorglobal
F currentpostthyphenchar	F definenamespace
F currentprehyphenchar	F definenote
F currentproduct	F defineparallel
F currentproject	F defineparbuilder
F currentreferenceorder	F defineprocesscolordummy
F currentsectiontolist	F defineprocesscolorglobal
F datasetvariable	F defineprocesscolorlocal
F dayname	F defineprogram
F decimals	F definereference
F decrementcounter	F defineregister
F decrementedcounter	F definerule
F decrementsubcounter	F definesectionlevels
F defineaccents	F defineshift
F defineattribute	F definesnapmethod
F definebreakpoint	F definespotcolorglobal
F definebreakpoints	F definestructureblock
F definecharacterspacing	F definestructureset
F definechemical	F definetransparency
F definecolumnset	F definetransparencyglobal
F defineconversion	F definetwopasslist
F definecounter	F definetypeface
F definedlayoutcomponent	F defineviewerlayer
F definefallbackfamily	F depthnumber
F definefield	F digits_normal
F definefieldset	F digits_reverse
F definefilefallback	F directboxfromcache
F definefilesynonym	F directcopyboxfromcache
F definefont_one	F disableautofontscript
F definefont_two	F disabledirectives
F definefontcolorpalette	F disableexperiments
F definefontfamily	F disablejobsave
F definefontfamilypreset	F disableparbuilder

F disableregime  
F disablespellchecking  
F disablestatetriggering  
F disablestream  
F disabletrackers  
F discardfromlist  
F doanalyzeframedbox  
F doifcommon  
F doifcounter  
F doifelseblack  
F doifelsebuffer  
F doifelsecharinfont  
F doifelsecommon  
F doifelsecontinewithfile  
F doifelseconverter  
F doifelsecounter  
F doifelsecurrentfonthasfeature  
F doifelsedrawingblack  
F doifelsefieldcategory  
F doifelsefiledefined  
F doifelsefileexist  
F doifelsefirstchar  
F doifelsefontpresent  
F doifelseinelement  
F doifelseinputfile  
F doifelseinset  
F doifelseintwopassdata  
F doifelseleapyear  
F doifselisthasentry  
F doifselisthasnumber  
F doifselisthaspage  
F doifselisthastitle  
F doifselocfile  
F doifelsemarking  
F doifelsemessage  
F doifelseobject  
F doifelseobjectreference  
F doifelseolderversion  
F doifelseoverlapping  
F doifelseparallel  
F doifelseparentfile  
F doifelsepathexist  
F doifelseposition  
F doifelsepositiononpage

F doifelsepositionsonsamepage  
F doifelsepositionsonthispage  
F doifelsepositionsused  
F doifelserangeonpage  
F doifelserereference  
F doifelserightttoleftinbox  
F doifelsesame  
F doifelsestackedfloats  
F doifelsesynonymshown  
F doifelsesynonymused  
F doifelseurldefined  
F doifelseutfmathabove  
F doifelseutfmathaccent  
F doifelseutfmathbelow  
F doifelseutfmathfiller  
F doifelsevisualizer  
F doiffieldsetelse  
F doifinset  
F doifnotcommon  
F doifnotcounter  
F doifnotecontent  
F doifnoteonsamepageasprevious  
F doifnotinset  
F doifnotsame  
F doifposition  
F doifsame  
F doprocesstypescriptfile  
F doreshapeframedbox  
F dosaveposition  
F dosavepositionplus  
F dosavepositionwhd  
F dosetposition  
F dosetpositionbox  
F dosetpositionplus  
F dosetpositionstrut  
F dosetpositionwhd  
F dostarttextfile  
F dostoptextfile  
F elapsedtime  
F enableasciimode  
F enableautofences  
F enableautofontscript  
F enablebackgroundalign  
F enablebackgroundboxes

F enablecolor	F figure_flush_registered_pages
F enablecolorintents	F figure_identify
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 fontcollectionregister	F getobjectdimensions
F fontcollectionreport	F getobjectreference
F fontcollectionreset	F getobjectreferencepage
F fontlookupgetkey	F getprivatechar
F fontlookupgetkeyofindex	F getprivateglyphslot
F fontlookupinitialize	F getprivatemathchar
F fontlookupnoffound	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 hboxto vbox
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 injectcurrentreferencehtdp  
F injectreference  
F inlinechemical  
F inputfilebarename  
F inputfilename  
F inputfilerealsuffix  
F inputfilesuffix  
F insertattachment  
F insertcomment  
F insertfield  
F insertionnumber  
F insertrenderingwindow  
F installedlanguages  
F installtexdirective  
F installtextracker  
F jobfilefullname  
F jobfilename  
F jobfilesuffix  
F languagenumber  
F lastcountervalue  
F lastsubcountervalue  
F lchexnumber  
F lchexnumbers  
F leapyear  
F linenumbersstageone  
F linenumbersstagetwo  
F listgroupindex  
F listlabel  
F listlocation  
F listnamespaces  
F listprefixednumber  
F listprefixedpage  
F listrealpage  
F listsize  
F listtitle  
F listuserdata  
F loadexamodes  
F loadfontgoodies  
F loadluamodule  
F loadmapfile  
F loadmapline  
F loadspellchecklist  
F loadtypescriptfile  
F loadvisualizer

F locatefilepath  
F locfilename  
F lower  
F lpdf\_adddocumentcolorspace  
F lpdf\_adddocumenttextgstate  
F lpdf\_adddocumentpattern  
F lpdf\_adddocumentshade  
F lpdf\_addtocatalog  
F lpdf\_addtoinfo  
F lpdf\_addtonames  
F lpdf\_addtopageattributes  
F lpdf\_addtopageresources  
F lpdf\_addtopagesattributes  
F lpdf\_collectedresources  
F lpdf\_color  
F luascript  
F luathread  
F lxmlid  
F markcontent  
F markingnumber  
F markingtitle  
F markinjector  
F markregionbox  
F markregionboxcorrected  
F markregionboxtagged  
F markvisualfonts  
F mathfraction  
F mathrenderset  
F message  
F metapostescaped  
F metapostformatted  
F metapostgraphformat  
F minute  
F mixcleanup  
F mixfinalize  
F mixflushlist  
F mixflushrest  
F mixgetsplit  
F mixsetsplit  
F mixstate  
F molecule  
F month  
F monthmnem  
F monthname

F mpcolor	F overloaderror
F mpflushliteral	F overloadlowercase
F mpflushreset	F overloaduppercase
F mpgettext	F pageofinternal
F mpgraphic	F pagestaterealignpage
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 previouscountervalue
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 processfile	F registerhyphenationexception
F processfilemany	F registerhyphenationpattern
F processfilenone	F registeritemgroup
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 resetprevdepth  
F resetreference  
F resetscript  
F resetshowsynonyms  
F resetstructureprocessor  
F resetsubcounter  
F resettimer  
F resettrackers  
F resetusedsynonyms  
F restartcounter  
F restartsubcounter  
F restorecounter  
F restorecurrentattributes  
F restorenote  
F restoreobject  
F reuserandomseed  
F revivefeature  
F romannumerals  
F rounded  
F runbuffer  
F runcontextjob  
F safechar  
F savebuffer  
F savecounter  
F savecurrentattributes  
F savedlistnumber  
F savedlistprefixednumber  
F savedlisttitle  
F savefloat  
F savefont  
F savemargindata  
F savenote  
F savepagedata  
F savepageinjections  
F saveparallel  
F savespecificfloat  
F savestructureblock  
F savetaggedtwopassdata  
F savetwopassdata  
F savevariable  
F second  
F selectstructureblock  
F setactivecatcodes  
F setbreakpoints

F setcharacteralign  
F setcharactercasing  
F setcharactercleaning  
F setcharacterkerning  
F setcharacterspacing  
F setcharacterstripping  
F setcloseddocumentaction  
F setclosepageaction  
F setcolormodel  
F setcolumnsetarea  
F setcolumnsetlines  
F setcolumnsetproperties  
F setcolumnsetstart  
F setcounter  
F setdataset  
F setdestinationattribute  
F setdigitsmanipulation  
F setdirection  
F setdocumentargument  
F setdocumentcommandline  
F setdocumentctxfile  
F setdocumentdefaultargument  
F setdocumentenvironments  
F setdocumentfilename  
F setdocumentfilenames  
F setdocumentmodes  
F setdocumentmodules  
F seteffect  
F setelementuserproperties  
F setfieldcalculationset  
F setfigurelookuporder  
F setfigurepaths  
F setfirstline  
F setfontfeature  
F setfontofid  
F setfontsolution  
F setformat  
F setformsmethod  
F setsizecolumnset  
F setsizecolumnspan  
F sethyphenatedurlcharacters  
F sethyphenationfeatures  
F sethyphenationmethod  
F setinitial

F setinitialsectionblock	F setrealign
F setinjector	F setrealspaces
F setinnerreferencemethod	F setreferencearguments
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 setuplinenumbering	F starttag
F setuserinterface	F starttag_c
F setvalidinterfacekeys	F starttag_d
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 showhyphenationontrace	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 synccolorcount	F usejavascriptscripts
F synchronizemarking	F useluafilename
F synchronizestream	F useluafilenameonce
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 usetexfilenameonce
F textime	F useurl
F thefirstcharacter	F usexmlfile
F themaxboxwidth	F usexmlfilenameonce
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 useanyfilenameonce	F writestatus
F usecldfile	F x_table_c
F usecldfilenameonce	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 x_table_init_reflow_height_option	F xmldoifnotselfempty
F x_table_init_reflow_width	F xmldoifnottext
F x_table_init_reflow_width_option	F xmldoifselfempty
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 xmllaftersetup	F xmlflushsetups
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 xmlnonamespace
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 xmlregisterns	F xmltofile	
F xmlremapname	F xmltoparameters	
F xmlremapnamespace	F xmlverbatim	
F xmlremovesetup	F xmlwithindex	
F xmlresetinjectors	F year	
F xmlresetsetups	<b>setconstant</b>	function
F xmlsave	<b>setcount</b>	function
F xmlsetcommandtonone	<b>setdimen</b>	function
F xmlsetcommandtotext	<b>setelement</b>	function
F xmlsetentity	<b>setformat</b>	function
F xmlsetinjectors	<b>setmacro</b>	function
F xmlsetsetup	<b>setmessage</b>	function
F xmlsnippet	<b>setmessages</b>	function
F xmlstartraw	<b>settranslation</b>	function
F xmlstarttiming	<b>setupstrings</b>	data table
F xmlstopraw	<b>setuserinterface</b>	function
F xmlstoptiming	<b>setvalidkeys</b>	function
F xmlstrip	<b>setvariable</b>	function
F xmlstripanywhere	<b>showmessage</b>	function
F xmlstripnolines	<b>storedscanners</b>	data table
F xmlstripped	<b>strings</b>	table
F xmlstrippednolines	<b>syntax</b>	data table
F xmltag	<b>tolist</b>	function
F xmltexentity	<b>translations</b>	data table
F xmltext	<b>usednamespaces</b>	data table
F xmltobuffer	<b>variables</b>	data table
F xmltobufferverbose	<b>writestatus</b>	function

## io (basic lua)

<b>ask</b>	function	<b>output</b>	overloaded function
<b>bytes</b>	function	<b>pathseparator</b>	string
<b>characters</b>	function	<b>popen</b>	overloaded function
<b>close</b>	function	<b>read</b>	function
<b>copydata</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



# 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  
F parindent  
F position  
F r  
F region  
F replace  
F rightskip  
F set  
F setall  
F setregionbox  
D tobesaved  
F upperleft  
F upperright  
S used  
F width  
F x  
F xy  
F y

**register**

function

**save**  
**structure**  
D collected  
T components  
T tobesaved  
T branches  
S name  
S type

**variables**  
D checksums  
D collected  
F getchecksum  
F makechecksum  
F restore  
F save  
F setchecksum  
D tobesaved

**version**

function  
table

table

number

## 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 none	
<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>bytedone</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>inlineverbatim</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>displayverbatim</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>doifsetext</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>log</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>setrandomseedi</b>	function
<b>exp</b>	function	<b>sin</b>	function
<b>floor</b>	function	<b>sind</b>	function
<b>fmod</b>	function	<b>sinh</b>	function
<b>frexp</b>	function	<b>sqrt</b>	function
<b>huge</b>	number	<b>tan</b>	function
<b>initialseed</b>	number	<b>tand</b>	function
<b>ldexp</b>	function	<b>tanh</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>quadruple</b>	function
<code>F string</code>		<b>quoted</b>	function
<b>get_outline_text</b>	function	<b>report</b>	function
<b>graphformat</b>	function	<b>size</b>	function
<b>n</b>	function	<b>tb_dimensions</b>	function
<b>numeric</b>	function	<b>triplet</b>	function
<b>pair</b>	function	<b>tt_dimensions</b>	function
<b>path</b>	function	<b>tt_initialize</b>	function
<b>print</b>	function		

## 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)

<b>handlers</b>	table		
F alternates		F unscript	
F autofences		F variants	
F classes		<b>process</b>	function
F collapse		<b>processnested</b>	function
F domains		<b>processors</b>	table
F families		T autofences	
F italics		T collapse	
F relocate		F mlist_to_hlist	
F render		T relocate	
F resize		T render	
F showtree		T resize	
F tags		T unscript	
		<b>processouter</b>	function

## node (basic tex)

<b>check_discretionaries</b>	function	F has_glyph
<b>check_discretionary</b>	function	F hpack
<b>copy</b>	function	F insert_after
<b>copy_list</b>	function	F insert_before
<b>count</b>	function	F is_char
<b>current_attr</b>	function	F is_direct
<b>dimensions</b>	function	F is_glyph
<b>direct</b>	table	F is_node
F check_discretionaries		F is_zero_glue
F check_discretionary		F kerning
F copy		F last_node
F copy_list		F length
F count		F ligaturing
F current_attr		F new
F dimensions		F protect_glyph
F effective_glue		F protect_glyphs
F end_of_math		F protrusion_skipable
F find_attribute		F rangedimensions
F first_glyph		F remove
F flush_list		F set_attribute
F flush_node		F set_properties_mode
F flush_properties_table		F setboth
F free		F setbox
F get_attribute		F setchar
F get_properties_table		F setdisc
F getboth		F setfield
F getbox		F setglue
F getchar		F setleader
F getdisc		F setlink
F getfield		F setlist
F getfont		F setnext
F getglue		F setprev
F getid		F setproperty
F getleader		F setsubtype
F getlist		F slide
F getnext		F tail
F getprev		F todirect
F getproperty		F tonode
F getsubtype		F tostring
F has_attribute		F traverse
F has_field		F traverse_char

F traverse_id		<b>is_node</b>	function
F unprotect_glyphs		<b>is_zero_glue</b>	function
F unset_attribute		<b>kerning</b>	function
F usedlist		<b>last_node</b>	function
F vpack		<b>length</b>	function
F write		<b>ligaturing</b>	function
<b>effective_glue</b>	function	<b>mlist_to_hlist</b>	function
<b>end_of_math</b>	function	<b>new</b>	function
<b>family_font</b>	function	<b>next</b>	function
<b>fields</b>	function	<b>prev</b>	function
<b>find_attribute</b>	function	<b>protect_glyph</b>	function
<b>first_glyph</b>	function	<b>protect_glyphs</b>	function
<b>flush_list</b>	function	<b>protrusion_skippable</b>	function
<b>flush_node</b>	function	<b>rangedimensions</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 italicckern  
 F kern  
 F latelua  
 F lateluafunction  
 F leftmarginkern  
 F leftskip  
 F lineskip  
 F negatedglue

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

F tohpack		F pdfliteral	
F tonodes		F pdforiginliteral	
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>rangedimensions</b>	function
<b>pool</b>	table	<b>reference</b>	function
F baselineskip		<b>references</b>	table
F cleanup		N attribute	
F glyph		T done	
F hlist		F handler	
F kern		T stack	
F latelua		<b>reheapack</b>	function
F lateluafunction		<b>remove</b>	function
F lineskip		<b>repackhlist</b>	function
F pdfdirect		<b>replace</b>	function

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

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

# 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>getcatalog</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>setcatalog</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>redefine</b>	function
<b>disablerunners</b>	function	<b>register</b>	function
<b>enable</b>	function	<b>registerbinary</b>	function
<b>filehandlerone</b>	function	<b>registerroot</b>	function
<b>filehandlertwo</b>	function	<b>registerrunner</b>	function
<b>finalizer</b>	function	<b>report</b>	function
<b>initializer</b>	function	<b>run</b>	function
<b>iohandler</b>	function	<b>runhandler</b>	function
<b>logcalls</b>	function	<b>setfilenamelogger</b>	function
<b>logfiles</b>	function	<b>setlogger</b>	function
<b>original</b>	function	<b>setreporter</b>	function
<b>overload</b>	function	<b>settrace</b>	function
<b>possiblepath</b>	function	<b>validfilename</b>	function



# scripts (context)

**autofontfeature**    table

    F disable

    F enable

    F handler

**categorytonumber**   data table

**colors**             data table

**decomposehangul**    function

**defaults**           table

    N inter\_char\_half\_shrink\_factor

    N inter\_char\_half\_stretch\_factor

    N inter\_char\_hangul\_penalty

    N inter\_char\_quarter\_shrink\_factor

    N inter\_char\_quarter\_stretch\_factor

    N inter\_char\_shrink\_factor

    N inter\_char\_stretch\_factor

    N inter\_word\_stretch\_factor

**handlers**           data table

**hash**               table

**injectors**          data table

**installdataset**     function

**installmethod**     function

**numbertocategory**   data table

**numbertodataset**   data table

**numbertohandler**   data table

**reset**              function

**set**                function

**splitters**          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>elapsed</b>	function
<b>elapsedindeed</b>	function
<b>elapsedseconds</b>	function
<b>elapsedtime</b>	function
<b>enable</b>	boolean
<b>formatruntime</b>	function
<b>hastiming</b>	function
<b>memused</b>	function
<b>register</b>	function

<b>resettiming</b>	function
<b>runtime</b>	function
<b>savefmtstatus</b>	function
<b>show</b>	function
<b>starttiming</b>	function
<b>stoptiming</b>	function
<b>threshold</b>	number
<b>timed</b>	function
<b>tracefunction</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	
<b>sets</b>	<b>table</b>
F define	
F get	
F getall	
D setlist	
<b>specials</b>	<b>table</b>
D collected	
F retrieve	
F store	
D tobesaved	
<b>synonyms</b>	<b>table</b>
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	

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

## **alignments** table

F handler  
F set

## **breakpoints** table

F define  
F handler  
D mapping  
T methods  
T numbers  
F set  
F setreplacement

## **cases** table

T actions  
F handler  
F register  
F set

## **characteralign** table

F handler  
F resetcharacteralign  
F setcharacteralign

## **characters** table

F handler  
T methods  
F replacensp  
F replacenspaces

## **checkers** table

F handler  
F reset  
F set

## **cleaners** table

F handler  
F set

## **digits** table

T actions  
F handler  
F set

## **directions** table

F getfences  
F getglobal  
F getmethod  
F handler

T handlers  
F installhandler  
F processmath  
F set  
F setcolor  
F setmath  
F tomode

## **firstlines** table

T actions  
F default  
F line  
F word  
F handler  
F set

## **initials** table

T actions  
F default  
F addanchortoline  
F addtoline  
F calculatedelta  
F checkline  
F handler  
F moveinline  
F normalize  
F set

## **injectors** table

F check  
T list  
F mark  
F reset  
F set  
F show

## **italics** table

F enablemath  
F enabletext  
F forcevariant  
F handler  
F reset  
F set

## **kerns** table

D factors

- F handler
- F keepligature
- B keptogether
- D mapping
- F set
- manipulators**      table
  - 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
- margins**              table
  - F finalhandler
  - F globalhandler
  - F localhandler
  - F save
- marksuspects**      function
- paragraphs**        table
  - F addanchortoline
  - F addtoline
  - F calculatedelta
  - F checkline
  - F handler
  - F moveinline
  - F normalize
  - F set
- processors**        table
  - F apply

- F register
- F reset
- F split
- F startapply
- F stopapply
- F stripped
- F tostring
- showsuspects**      function
- spacings**            table
  - F define
  - F handler
  - D mapping
  - T numbers
    - T frenchpunctuation
      - T characters
      - S name
      - N number
  - F reset
  - F set
  - F setup
- wrappers**            table
  - F handler
- xtables**              table
  - 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  
F registerfinalizer  
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	B modernvariable
T hashes	T modernvariablelight,modern-variable-light
T settings_to_set	B modern-variable-light
T max,fit,broad,auto	B modernvariablelight
B auto	T serif,sans,mono
B broad	B mono
B fit	B sans
B max	B serif
T modern,latin-modern	T text,hidden,paper,paper,leftpage,rightpage
B latin-modern	B hidden
B modern	B leftpage
T modern,latin-modern,modern-variable,latin-modern-variable,modern-condensed,latin-modern-condensed	B paper
B latin-modern	B rightpage
B latin-modern-condensed	B text
B latin-modern-variable	F iterator
B modern	F keq_to_hash
B modern-condensed	F listitem
B modern-variable	F make_settings_to_hash_pattern
T modern,latin-modern-designsize,latin-modern	F mergehashes
B latin-modern	F options_to_array
B latin-modern-designsize	F options_to_hash
B modern	T patterns
T modern,modern-base	U settings_to_array
B modern	U settings_to_hash_a
B modern-base	U settings_to_hash_b
T modern-condensed,latin-modern-condensed-designsize,latin-modern-light-condensed,latin-modern-light	U settings_to_hash_c
B latin-modern-condensed	U unittotex
B latin-modern-condensed-designsize	F process_stripped_settings
B latin-modern-light-condensed	F rfc4180splitter
B modern-condensed	F runtime
B modern-light-condensed	F settings_to_array
T modern-light,latin-modern-light-designsize,latin-modern-light	F settings_to_array_obey_fences
B latin-modern-light	F settings_to_array_with_repeat
B latin-modern-light-designsize	F settings_to_hash
B modern-light	F settings_to_hash_strict
T modern-mono,modern-base-mono	F settings_to_hash_tolerant
B modern-base-mono	F settings_to_numbers
B modern-mono	F settings_to_set
T modern-variable,latin-modern-variable-designsize,latin-modern-variable	F simple_hash_to_string
B latin-modern-variable	F splitmethod
B latin-modern-variable-designsize	F splitthousands
B modern-variable	F stepper
T modernvariable,modern-variable	F stripped_settings_to_array
B modern-variable	



F unittotex		F open	
F unittotxml		F read2dot14	
<b>report</b>	<b>function</b>	F readbyte	
<b>sequencers</b>	<b>table</b>	F readbytes	
F appendaction		F readcardinal	
F appendgroup		F readcardinal1	
F compile		F readcardinal2	
F disableaction		F readcardinal3	
F disablegroup		F readcardinal4	
F enableaction		F readchar	
F enablegroup		F readfixed4	
D functions		F readinteger	
F localize		F readinteger1	
F new		F readinteger2	
F nodeprocessor		F readinteger4	
F prependaction		F readstring	
F prependgroup		F setposition	
F removeaction		F size	
F replaceaction		F skip	
F setkind		F skipbytes	
F toString		F skiplong	
<b>setters</b>	<b>table</b>	F skipshort	
F disable		<b>strings</b>	<b>table</b>
F enable		F collapseCrLf	
F initialize		T formatters	
F list		F add	
F new		F new	
F register		F newrepeater	
F report		F nice	
F reset		T striplinepatterns	
F show		U collapse	
<b>stacker</b>	<b>table</b>	U prune	
F new		U prune and collapse	
<b>storage</b>	<b>table</b>	U prune and no empty	
F allocate		U retain	
F checked		U retain and collapse	
F mark		U retain and no empty	
F marked		F striplines	
F setinitializer		F striplong	
F sparse		F tabtospace	
<b>streams</b>	<b>table</b>	T tracers	
F close		<b>tables</b>	<b>table</b>
F getposition		F accesstable	
F look		F definedtable	

F definetable

F replacevalue

F encapsulate

**templates**

table

F insertaftervalue

F load

F insertbeforevalue

F replace

F migratetable

F replacer

F removevalue

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)

**archives**

table

**close**

function

**closearchive**

function

**open**

overloaded function

**openarchive**

function

**openfile**

function

**registeredfiles**

table

**type**

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