

# Local L<sup>A</sup>T<sub>E</sub>X class and style files

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## Contents

<b>1</b>	<b>xelatex-generic.sty</b>	<b>3</b>
1.1	XeLaTeX stuff . . . . .	3
1.2	Used at different times . . . . .	3
1.3	Multilingual macros . . . . .	3
1.4	Packages that Polyglossia now auto-loads . . . . .	4
1.5	Sanskrit hyphenation . . . . .	6
1.6	Misc. . . . .	6
1.7	Marginal note hacks . . . . .	6
1.8	Stacked diacritics . . . . .	7
1.9	Private abbreviations . . . . .	7
1.10	Nice hanging-indent footnotes . . . . .	7
1.11	Normal LaTeX settings now . . . . .	8
1.12	From article.cls . . . . .	9
<b>2</b>	<b>xelatex-biblatex.sty</b>	<b>11</b>
2.1	Load the basic package with options . . . . .	11
2.2	Some options for all the main entry types . . . . .	13
2.3	Fix date abbreviations to be more verbose . . . . .	13
2.4	Not used . . . . .	14
2.5	Sort citations and bibliography differently . . . . .	14
2.6	Placement of commas inside title quotes . . . . .	14
2.7	Sorting the bibliography . . . . .	14
2.8	String abbreviations . . . . .	14
2.9	Load the bibliography file . . . . .	15
2.10	Auto-formatting of URL strings . . . . .	15

2.11	Some bibliographical aliases - not used	16
2.12	Move notes to the end of bibliography entries	17
2.13	Tweak the punctuation of citations	17
2.14	Suppress shorthands. Not used	17
2.15	csquotes	17
2.16	Hacks for pubstate	18
2.17	Width of shorthand abbreviations	18
2.18	Penalties for URLs – not used	18
2.19	Create a dummy data type for putting literal strings into a bibliography	19
2.20	Turn language into langid	19
<b>3</b>	<b>xelatex-glossaries.sty</b>	<b>20</b>
3.1	Glossaries of plants, animals, and minerals	20
3.2	Singular, plural, capitalized	21
3.3	Define two glossaries	22
3.4	Format of the glossary entries	22
3.5	Glossary preamble	22
3.6	Load up the databases	22
3.7	Plants	23
3.8	Animals	23
3.9	Minerals	23
3.10	Print the glossaries	23
<b>4</b>	<b>xelatex-indexing-xindex.sty</b>	<b>24</b>
4.1	Load indextools	24
4.2	Create a lexical index	24
4.3	Create an index of manuscripts	24
4.4	Format the index	25
4.5	User macros for indexing items	25
4.6	Obsolete code	28
4.7	Tweak the item spacing of index items	28
4.8	Obsolete code	28
4.9	Macros for citing and indexing manuscripts	29
4.10	Obsolete code	29
	<b>Index of macro definitions</b>	<b>30</b>

# 1 xelatex-generic.sty

This file started to look like this in about 2016-04-01

## 1.1 XeLaTeX stuff

Normalize any residual Unicode combining accents, and write out error messages, if any:

XeLaTeX internals

```
1 \XeTeXinputnormalization=1
2 \tracinglostchars=1
3 \tracingonline=1
4 \XeTeXgenerateactualtext=1
```

## 1.2 Used at different times

Commented out, except for url, for which see

<https://tex.stackexchange.com/questions/49788>.

hyperref

```
pdfx 5 \RequirePackage[hyphens]{url}
url   6%\usepackage[final=true,hyphens]{hyperref}
      7%\usepackage[a-1b]{pdfx} % get an archival PDF
```

## 1.3 Multilingual macros

from: [Stackexchange](https://tex.stackexchange.com/questions/49788).

etex Not used

```
8%\usepackage{etex}
9%\reserveinserts{28}
10%\usepackage{xcolor}
```

polyglossia Set up various fonts and languages.

```
11 \usepackage{polyglossia}
12 %% work around a bug in polyglossia
13 %% from https://github.com/reutenauer/polyglossia/issues/626
14 \%makeatletter
15 \%ExplSyntaxOn
16 \%pretocmd\xpg@set@alias@values{%
17   \prop_if_exist:cF { xpg@alias@keyvals@#1@#4 }
18   { \prop_new:c {xpg@alias@keyvals@#1@#4} }
```

```

19%}{-}{-}
20%\ExplSyntaxOff
21%\makeatother
22%% end of workaround
23
24\defaultfontfeatures{%
25  Mapping=tex-text,
26  %Color=red,
27  Numbers=OldStyle,
28}
29
30\setmainlanguage[variant=british]{english}

Main document font:

31% \setmainfont[AutoFakeBold=1.5]{EB Garamond 12}
32\setmainfont[BoldFont = * Bold] % t1pretest 2019
33% (See https://tug.org/pipermail/tex-live/2019-March/043211.html)
34% {Linux Libertine 0} % lovely, but use Libertinus
35% {fbb} % also lovely - Bembo, but no underdot
36% {Tinos} % a croscore font; good diacritics
37{TeX Gyre Pagella}
38% {IndUni-P}
39% {Lucida Sans Unicode}
40% {Libertinus Serif} % something funny with overlapping chars in bold 2019-05

```

## 1.4 Packages that Polyglossia now auto-loads

polyglossia automatically loads: fixltx2e, etex, xunicode, fontspec. But we still need metalogo for the definitions of logos like `\XeLaTeX`.

```

41\usepackage{metalogo}
42% \usepackage{xunicode} % get unicode encoding in PDF even when using
43% \= etc. Not needed at present.

```

Getting properly-hyphenated Sanskrit:

```

44\setotherlanguage{sanskrit} % for transliterated Sanskrit
45\newfontfamily\sanskritfont
46 [Script=Latin]
47% [Script=Devanagari]
48% {Linux Libertine 0} %Transliteration only in this font
49{TeX Gyre Pagella} %Transliteration only in this font
50% {IndUni-P} %Transliteration only in this font
51% {Brill} %Transliteration only in this font
52% {Sanskrit 2003} % Roman and Devanagari

```

Define `\sansk{}` which is the same as `\emph{}`, except that it causes appropriate hyphenation for Sanskrit words. Use `\sansk{}` for Sanskrit and `\emph{}` for English.

```
53 \newcommand{\sansk}[1]{\emph{\textsanskrit{#1}}}  
54 \let\ias=\sansk %better name for it  
55 \let\rsan=\sansk
```

Now define the Devanagari font: input using standard IAST transliteration

```
56 \newfontfamily\devanagarifont  
57 [Script=Devanagari,  
58 % FakeStretch=1.05,  
59 Mapping=RomDev, %prefer slightly to iast  
60 ]  
61 % {Sahadeva}  
62 % {Sanskrit 2003}  
63 {Tiro Devanagari Sanskrit}  
  
64 % \newcommand{\dev}[1]{\textdevanagari{#1}} % test this 2018-10  
65 \newcommand{\dev}[1]{\textsanskrit{\devanagarifont #1}} % test this 2020-01  
66 \let\dsan=\devanagarifont  
67 \let\dn=\devanagarifont  
68  
69 \setotherlanguage{bengali}  
70 \newfontfamily\bengalifont  
71 [Script=Bengali]  
72 % {Sahadeva}  
73 % {Noto Serif Bengali}  
74 {Tiro Bangla}
```

Use: `\textbengali{ }`

And other languages

```
75 \setotherlanguage{german}  
76 \setotherlanguage{french}
```

will call appropriate hyphenation.

Chinese, Japanese, Korean

```
77 \newfontfamily\cjfont{Noto Sans CJK SC} %  
78 % [Script=CJK,Mapping=tex-text,Scale=MatchLowercase]  
79 % {IPAexMincho}  
80 % {TakaoPGothic}  
81 \let\cj\cjfont
```

[https://tex.stackexchange.com/questions/376420/  
include-chinese-characters-into-article-in-xelatex](https://tex.stackexchange.com/questions/376420/include-chinese-characters-into-article-in-xelatex)

Classical Greek:

```
82 \setotherlanguage{greek}
83 \newfontfamily\greekfont[Script=Greek,Mapping=tex-text]{GFS Didot}
84 %\GFS Porson}
85 %\GFS Philostratos}
```

End of polyglossia stuff.

## 1.5 Sanskrit hyphenation

hyphenations A cumulative hyphenation exception file, `sanskrit-hyphenations.tex`, adds numerous hand-tuned hyphenation points to the default Polyglossia hyphenation rules for Sanskrit. This file needs to be `\input` after the start of the document. Normally, we'd do this with `\AtBeginDocument`, but for obscure reasons, that doesn't work. So we have to add the `\input` statement by hand at the start of every document, immediately after `\begin{document}`.

```
86 %\AtBeginDocument{\input{sanskrit-hyphenations.tex}} % this doesn't work :-(  

```

## 1.6 Misc.

```
csquotes
graphicx 87 \usepackage[style=british]{csquotes} % error in log if not included
          88 \usepackage{graphicx} % final = print even in a "draft" document
```

## 1.7 Marginal note hacks

`\q` I use `\q{}` as a shorthand for putting a self-reminder in the margin. In my mind, it stands for “query.” At first, I defined `\q` using `marginpar` (with `marginfix`). Then I discovered the `todonotes` package by Henrik Midtiby, and that's what I use now.

Set up the parameters of `\todo` notes to my liking:

```
89 \usepackage[colorinlistoftodos,
90 %    disable,
91   textsize=tiny,
92 %  obeyDraft, % turn off so that notes always display
93   textwidth=.11\textwidth,
94   loadshadowlibrary,
95   shadow,
96   backgroundcolor=yellow
97 ]{todonotes}
98 \setuptodonotes{fancyline}
99 %
```

```

100 % Now renew the \q command to use \todo:
101 \newcommand{\q}[1]{\todo{#1}}
102 %
103 % Use the following if you want to print the todo list
104 % at the document's end, when in draft mode:
105 % \AtEndDocument{\newpage\listoftodos }

```

## 1.8 Stacked diacritics

\diatop \diatop, by Christina Thiele, used for r underdot overbar ( $\bar{r}$ , F6, 246, etc.)

See *TeXniques: Conference Proceedings* 1987, no. 5, p. 11. (<https://tug.org/techniques/>)

```

106 \def\diatop[#1|#2]{\leavevmode\setbox1=\hbox{#1}\setbox2=\hbox{#2}}%
107     \dimen0=\ifdim\wd1>\wd2\wd1\else\wd2\fi%
108     \dimen1=\ht2\advance\dimen1by-1ex%
109     \setbox1=\hbox to1\dimen0{\hss#1\hss}%
110     \rlap{\raise1\dimen1\box1}%
111     \hbox to1\dimen0{\hss#2\hss}}}%

```

E.g. of use: \diatop[\'ō] gives u macron acute

## 1.9 Private abbreviations

```

\AD
etc. 112 \newcommand{\AD}{\textsc{ce}}
113 \newcommand{\BC}{\textsc{bce}}
114 \newcommand{\BCE}{\textsc{bce}}
115 \newcommand{\CE}{\textsc{ce}}
116 \providecommand{\Cs}{\emph{Caraka\-\sam\-\hitā}}
117 \providecommand{\Ss}{\emph{Suśruta\-\sam\-\hitā}}
118 \let\CS\Cs
119 \let\SS\Ss
120 \providecommand{\AH}{\emph{Aṣṭāṅga\-\hrdaya\-\sam\-\hitā}}
121 % \newcommand{\saneng}[2]{#2 (\sansk{#1})} % now in
122 % xelatex-indexing-xindex.sty
123 \newcommand{\PYS}{PYŚ} % {Pātañjala\-\yoga\-\śāstra}
124 \newcommand{\YSV}{\sansk{Yogasūtravivaraṇa}}
125 \newcommand{\sutra}[1]{\textbf{\large #1}\par}

```

## 1.10 Nice hanging-indent footnotes

\hangfootnotes LaTeX Companion, p.73. Not used.

```

126 % \def\hangfootnotes{%

```

```

127% \renewcommand{\@makefnmark}[1]{\setlength{\parindent}{0pt}%
128% \begin{list}{}{\setlength{\labelwidth}{1.5em}%
129% \setlength{\leftmargin}{\labelwidth}%
130% \setlength{\labelsep}{3pt}\setlength{\itemsep}{0pt}%
131% \setlength{\parsep}{0pt}\setlength{\topsep}{0pt}%
132% \footnotesize}\item[\hfill\@makefnmark]##1%
133% \end{list}}%
134%}

```

But the above is broken by bigfoot (too much vertical space)

Footnotes with hanging indents adapted from <http://www.ceus-now.com/raggedright-in-footnotes-with-hanging-indent/>

```

135 \newcommand\hangfootnotes{%
136 \long\def\@makefnmark##1{\leftskip=1.8em\hskip-1.8em\hb@xt@1.8em
137 {\@thefnmark\hss}##1}}

```

## 1.11 Normal LaTeX settings now

```

138 \setcounter{secnumdepth}{0}

```

enumitem

```

139 \usepackage[inline]{enumitem} % supersedes mdwlist: does it globally
140 \setlist{itemsep=.5em,
141 \labelindent=\parindent,
142 \leftmargin=*,
143 }

```

```

144% \usepackage{makeidx} % leave this to xelatex-indexing.sty

```

multicol (env.)

longtable (env.) 145 \usepackage{multicol}

array (env.) 146% \multicolsep = 12pt plus 4pt minus 3pt % default

```

147 \multicolsep = 1pt plus .25ex % like the starred environments

```

```

148 \usepackage{longtable}

```

```

149 \usepackage{array}

```

```

150% \usepackage{index} % multiple indexes. Doesn't play well with Beamer

```

```

151 \widowpenalty 4000

```

```

152 \clubpenalty 300

```

```

153 \brokenpenalty 5000

```

```

154 \interfootnotelinepenalty 10 % lets notes break more easily

```

```

155 \vfuzz2pt % Don't report over-full v-boxes if over-edge is small

```

```

156 \hfuzz2pt % Don't report over-full h-boxes if over-edge is small

```

```

157 \emergencystretch .1\textwidth

```

```

158 \hyphenation{dharam-pal wuj-as-tyk never-the-less nutri-tive

```

```

159 asoka kerala Aristotle Alex-ander Majno manu-script manu-scripts}

```



Command to draw a box where the pictures will go:

```
160 \newcommand{\pretendpicture}  
161  {\centering \fbox{\vrule width0pt height 2.5in depth0pt  
162   \vrule width 4in height0pt depth0pt }\par }}
```

use as follows:

```
\begin{figure}[htp]  
\begin{center}  
  \pretendpicture  
\end{center}  
\caption{}  
\label{fig: }  
\end{figure}
```

## 1.12 From article.cls

This isn't used.

```
163% \typeout{Wujastyk: NB: Modified maketitle command, flush  
164% left and no array for authors.}  
  
165% \providecommand\@maketitle{%  
166%   \newpage  
167%   \null  
168%   \vskip 2em%  
169%%   \begin{center}%  
170%   \let \footnote \thanks  
171%   \noindent{\LARGE \@title \par}%  
172%   \vskip 1.5em%  
173%   \noindent {\large  
174%     \lineskip .5em%  
175%%     \noindent  
176%%     \begin{tabular}[t]{l} %DW  
177%       \@author  
178%%     \end{tabular}\par %DW  
179%   }%  
180%   \vskip 1em%  
181%   \noindent {\large \@date}%  
182%%   \end{center}%  
183%   \par  
184%   \vskip 3em} %DW was 1.5em
```

sloka See <http://cs.wlu.edu/~necaise/refs/latex2e/env-list.4.html> Not used:

```

185 % \newenvironment{sloka} % based on {verse}, from book.cls
186 %             {\let\\\@centercr
187 %             \list{}\itemsep \z@
188 %             \topsep .1\baselineskip
189 %             \parsep .25\baselineskip
190 %             \itemindent -1.5em%
191 %             \listparindent\itemindent
192 %             \rightmargin \z@
193 %             \leftmargin 3pc % = CUP's \SFB@indent
194 %             \advance\leftmargin 1.5em}%
195 %             \item\itshape\relax}
196 %             {\endlist}

```

Here's another version from book.cls, based on the quote environment

```

197 \newenvironment{sloka}
198 {\list{}\rightmargin\leftmargin}%
199 \renewcommand{\emph}[1]{\textit{##1}}%
200 \smallskip\item\itshape\relax}
201 {\smallskip\endlist}

```

Note that we replaced `\emph` with `\textit` so that italicized words in the italic environment stay italicized after all.

`\PreliminaryNote` Preliminary numberless "footnote" for abbreviations, grant references, and other general initial statements.

```

202 \newcommand{\PreliminaryNote}[1]{%
203 {\def\thefootnote{\relax }%
204 \footnotetext{\hspace*{-2.3em} %only if not using \hangfootnotes
205 #1}}}

206 \newcommand{\doublespacing}{%
207 \renewcommand{\baselinestretch}{1.5}
208 \addtolength{\footnotesep}{0.5\footnotesep}}

```

The following not used.

```

209 % \usepackage{ccllicenses}
210 % \let\DWolddate\date
211 % \renewcommand{\date}[1]{\DWolddate{#1}\ \cc \ccby \ccnc \ccsa }}

```

## 2 xelatex-biblatex.sty

### 2.1 Load the basic package with options

`biblatex.sty` Load the Bib<sub>La</sub>T<sub>E</sub>X package and the `oxyear` style, and set the various options.

```
212 \usepackage[%
213 backend=biber,
214 %style=authoryear-icomp,
215 % Make idem and ibidem behave appropriately:
216 %\url{https://tex.stackexchange.com/questions/61717/biblatex-strictly-identical-footnote-c
217 % (and see \newbibmacro*{cite:ibid} below).
218 %ibidpage,
219 %idemtracker=false,
220 %style=authoryear,
221 %uniquename=false,
222 % oxref:
223 style=oxyear,
224 dashed=true,
225 % end oxref
226 %bibstyle=publist,
227 %marginyear=true,
228 %style=verbose-trad1,
229 %
230 % I finally worked out how to sort cites by year and bibliography by name
231 %
232 %\url{https://cikitsa.blogspot.ca/2017/07/biblatex-citations-and-bibliography.html}
233 % sorting=nyt, % not needed here because it is implied by oxref style
234 sortcites=true,
235 %sortlocale=en-GB,
236 backref=false,
237 date=comp,
238 datecirca=true,
239 dateuncertain=true,
240 bibencoding=auto,
241 hyperref=auto,
242 isbn=true,
243 doi=true,
244 language=auto,
245 natbib=true,
246 texencoding=auto,
247 url=true,
248 urldate=short,
249 usetranslator=true,
250 useprefix=true,% van Nooten
251 giveninits=false, % Give first names in the bibliography. See
```

```

252 %\url{https://github.com/alex-ball/biblatex-oxref/issues/17#issuecomment-843383550}
253 %maxnames=1, % before "et al."
254 %uniquelist=false,
255 %refsection=section,
256 ]{biblatex}

```

\cites Here is a rewrite of the \cites command that auto-sorts citations in the text into the required year-sequence. It is copied blindly from [the Stackexchange post by Audrey and moewe](#). Just use \cites as usual, putting your citation keys in any order, and the output will print them in ascending date order.

```

257 % original definition of \cites
258 \DeclareMultiCiteCommand{\cbx@cites}{\cite}{\multicitedelim}
259
260 % new definition
261 \DeclareMultiCiteCommand{\cites}[\cbx@cite@wrapper\cbx@cites]{\cbx@cite}{}
262
263 % first pass saves keys, prenotes, postnotes
264 \DeclareCiteCommand{\cbx@cite}
265 {\csxdef{prenote:\thefield{entrykey}}{\thefield{prenote}}}{
266 {\listxadd\cbx@savekeys{\thefield{entrykey}}}{
267 {}
268 {\csxdef{postnote:\thefield{entrykey}}{\thefield{postnote}}}}
269
270 % second pass outputs sorted citation list
271 \newrobustcmd{\cbx@cite@wrapper}[2]{%
272   \def\cbx@savekeys{%
273     \def\cbx@citecall{#1}%
274     #2\cbx@sortkeysinit\cbx@citesort\cbx@citecall}
275
276 % internal list of saved keys => sorted argument list
277 \def\cbx@citesort{%
278   \def\do##1{%
279     \ifinlist{##1}{\cbx@savekeys}
280     {\protected@xappto\cbx@citecall{%
281       [\csuse{prenote:##1}][\csuse{postnote:##1}]{##1}}}
282     {}}%
283   \dolistloop{\cbx@sortkeys}}
284
285 % internal list of sorted entry keys
286 \def\cbx@sortkeysinit{%
287   \ifcsundef{blx@dlist@entry@\the\c@refsection @\blx@refcontext@context}
288   {}
289   {\global\csletcs{cbx@sortkeys}{blx@dlist@entry@\the\c@refsection
290     @\blx@refcontext@context}}}

```

```
291 \def\cbx@sortkeys{}
```

## 2.2 Some options for all the main entry types

```
cuteBibliographyOptions
```

```
292 \ExecuteBibliographyOptions[% for biblatex-oxyear
293 article,
294 book,
295 mvbook,
296 mvcollection,
297 inbook,
298 incollection,
299 inreference,
300 collection,
301 reference,
302 mvreference]{useeditor=true,
303   usetranslator=true,
304 %   uniquename=full
305 }
```

## 2.3 Fix date abbreviations to be more verbose

\blx@ox@compyear Patch so that date-abbreviations aren't just one digit. Kindly supplied by Alex Ball, <https://github.com/alex-ball/biblatex-oxref/issues/19>

```
306 \renewcommand{\blx@ox@compyear}[2]{%
307   \def\num@one{#1}%
308   \def\num@two{#2}%
309   \StrLen{\num@one}[\num@one@len]%
310   \StrLen{\num@two}[\num@two@len]%
311   \ifboolexpr{
312     test {\ifnumequal{\num@one@len}{\num@two@len}}
313     and
314     test {\ifnumless{\num@one}{\num@two}}
315   }{%
316     \StrCompare{\num@one}{\num@two}[\Result]%
317     \ifnum\num@two@len>3%
318     \IfStrEq{\Result}{2}{\def\Result{1}}{}%
319     \fi
320     %%% Extend the legal date compression behaviour to all entries
321     \IfStrEq{\Result}{4}{\def\Result{3}}{}%
322     %%% End of changes
323     \StrGobbleLeft{0\num@two}{\Result}%
324   }\num@two}}
```

## 2.4 Not used

bookeditor I don't use this, now. patch of Sept 2019

```
https://mail.google.com/mail/u/0/#inbox/
FmfcgxwDrHpMnGSkkqjMqHwCCdJqBLkC
325%\makeatletter
326%\xpatchbibmacro{bookeditor}{\global\undef\bbx@lasthash}{\}{\}{%
327% \wlog{INFO: oxyyear fix no longer needed!}}
328%\makeatother
```

## 2.5 Sort citations and bibliography differently

I finally discovered how to sort citations by year and bibliography entries by name (and see sorting, above). See

<https://cikitsa.blogspot.ca/2017/07/biblatex-citations-and-bibliography.html>

## 2.6 Placement of commas inside title quotes

efineBibliographyExtras Following sections 3.10 and 4.7.5 of the Bib<sub>La</sub>TeX manual, put the comma *inside* the quotation marks of the title.

```
329\DeclareBibliographyExtras{british}{\DeclareQuotePunctuation{.,}}
```

## 2.7 Sorting the bibliography

\printbibliography To avoid saying \newrefcontext[sorting=nyt] before \printbibliography in every document redefine \printbibliography (from biblatex.sty):

```
330\renewrobustcmd*{\printbibliography}{%
331 \newrefcontext[sorting=nyt] % added this line
332 \begingroup
333 \delimcontext{bib}%
334 \edef\on@line{\on@line}%
335 \@ifnextchar[%]
336 {\blx@printbibliography}
337 {\blx@printbibliography[]}}
```

## 2.8 String abbreviations

volcite no "p." or "pp." in, for example, \volcite:

```
338\DefineBibliographyStrings{english}{%
339 page = {},
```

```

340     pages          = {},
341     volume         = {},
342 }

```

## 2.9 Load the bibliography file

`\addbibresource` This isn't used, because we load different bibliographies in different documents.

```

343 % \addbibresource
344 %% [datatype=bibtex]
345 % {biblio4-utf8.bib}

```

## 2.10 Auto-formatting of URL strings

Enable hot URLs for PDFs at Archive.org and Academia.edu and other sites.

```

\DeclareFieldFormat See BibLATEX documentation 4.11.2 and macros from biblatex.def
346 \newif\ifBibHiddenURLs
347 %
348 \ifBibHiddenURLs
349     \relax
350 \else
351 %
352 \DeclareFieldFormat{url}{%
353     \ifhyperref
354     {\ \textsc{url: } \href{#1}{#1}} % added a newline to help with long URLs in PDFs
355     {\textsc{url: } \nolinkurl{#1}} %DW bug here
356 %
357 % Buddhist Digital Resource Center:
358 \DeclareFieldFormat{eprint:tbrc}{%
359     \textsc{TBRC} \space
360     \ifhyperref
361     {\href{https://www.tbrc.org/\#!rid=#1}{\nolinkurl{#1}}}
362     {\nolinkurl{#1}}}
363 %
364 \DeclareFieldFormat{eprint:ark}{%
365     \textsc{ark:} \space
366     \ifhyperref
367     {\href{https://n2t.net/#1}{\nolinkurl{#1}}}
368     {\nolinkurl{#1}}}
369 %
370 \DeclareFieldFormat{eprint:archive}{%
371 %     Internet Archive \addcolon \space
372     \ifhyperref

```

```

373 %      {\href{http://archive.org/details/#1}{\nolinkurl{#1}}}
374      {\href{http://archive.org/details/#1}{\small Internet Archive}}}
375      {\nolinkurl{#1}}}
376 \DeclareFieldAlias{eprint:archive.org}{eprint:archive}
377 \DeclareFieldAlias{eprint:Archive.org}{eprint:archive}
378
379 \DeclareFieldFormat{eprint:academia}{%
380 %      Academia.edu\addcolon\space
381 %      \ifhyperref
382 %      {\href{http://www.academia.edu/#1}{\small Academia.edu}}}
383 %      {\nolinkurl{#1}}}
384 \DeclareFieldAlias{eprint:academia.edu}{eprint:academia}
385
386 \DeclareFieldFormat{eprint:dli}{%
387 %      DLI\addcolon\space
388 %      \ifhyperref
389 %      {\href{http://www.dli.gov.in/cgi-bin/DBscripts/allmetainfo.cgi?barcode=#1/}{\small
390 %      Digital Library of India}}}
391 %      {\nolinkurl{#1}}}
392 \DeclareFieldAlias{eprint:DLI}{eprint:dli}
393 \DeclareFieldFormat{eprint:jstor}{%
394 %      \ifhyperref
395 %      {\href{http://www.jstor.org/stable/#1}{\small JSTOR}}}
396 %      {\nolinkurl{#1}}}
397
398 \DeclareFieldFormat{eprint:google}{%
399 %      \ifhyperref
400 %      {\href{http://books.google.com/books?id=#1}{\small Google books}}}
401 %      {\nolinkurl{#1}}}
402 %
403 \DeclareFieldFormat{doi}{%
404 %      \textsc{doi}\addcolon\space
405 %      \ifhyperref
406 %      {\href{https://doi.org/#1}{\nolinkurl{#1}}}
407 %      {\nolinkurl{#1}}}
408 %
409 \fi
410 \BibHiddenURLsfalse

```

## 2.11 Some bibliographical aliases - not used

Not used. This should be done in individual documents and document styles, not here in a generic style file.



```

\defcitealias
411 %\defcitealias{meul-hist}{HIML}
412 %\defcitealias{ncc}{NCC}
413 %\defcitealias{bisw-bibl}{BSIMC}

```

## 2.12 Move notes to the end of bibliography entries

To make Bib<sub>La</sub>T<sub>E</sub>X notes print last, like addendums.

```

\DeclareSourceMap From
http://tex.stackexchange.com/questions/138913/
how-to-move-the-field-note-at-the-end-of-the-reference
414 \DeclareSourceMap{
415     \maps[datatype=bibtex]{
416         \map{
417             \step[fieldsource=note, final]
418             \step[fieldset=addendum, origfieldval, final]
419             \step[fieldset=note, null]
420         }
421     }
422 }

```

## 2.13 Tweak the punctuation of citations

```

\DeclareFieldFormat Tweaks to make the citation form:- Author date: page
423 \DeclareFieldFormat{postnote}{#1}
424 \renewcommand{\postnotedelim}{: \,}
425 \renewcommand{\nameyear delim}{\ }

```

## 2.14 Suppress shorthands. Not used

\clearfield Suppress shorthands: <http://tex.stackexchange.com/questions/57041/>

Once again, I don't use this at present.

```

426 % \AtEveryCitekey{\clearfield{shorthand}}

```

## 2.15 csquotes

```

csquotes
427 \usepackage{csquotes}
428 \setquotestyle{american} % american = double quotes

```

## 2.16 Hacks for pubstate

`\DeclareLabeldate` Bib<sub>La</sub>T<sub>E</sub>X hacks to get pubstate (?forthcoming? etc.) behaving as it should  
Bib<sub>La</sub>T<sub>E</sub>X manual 4.5.10

```
429 \DeclareLabeldate{%  
430   \field{date}  
431   \field{year}  
432   \field{pubstate}  
433   \field{eventdate}  
434   \field{origdate}  
435   \field{urldate}  
436   \literal{nodate}  
437 }
```

## 2.17 Width of shorthand abbreviations

`\DeclareFieldFormat` Some magic from “moewe” at  
<https://tex.stackexchange.com/questions/442749/biblatex-have-hyperref-links-point-to-the-shorthand-list>  
that makes hyperlinks from citations point to the list of abbreviations.

```
438 \DeclareFieldFormat{shorthandwidth}{%  
439   \bibhypertarget{shorthand:\thefield{entrykey}}  
440   {#1}}  
441  
442 \DeclareFieldFormat{bibhyperref}{%  
443   \iffieldundef{shorthand}  
444   {\bibhyperref{#1}}  
445   {\bibhyperlink{shorthand:\thefield{entrykey}}{#1}}}
```

## 2.18 Penalties for URLs – not used

`penalties` Penalty settings to make URLs format better. From xurl documentation.  
Currently not used.

```
446 %\usepackage{xurl}  
447 %\setcounter{biburllcpenalty}{1}  
448 %\setcounter{biburlucpenalty}{1}  
449 %\setcounter{biburlnumpenalty}{1}  
450 %% but Bib\LaTeX\ has this built in to it.
```

## 2.19 Create a dummy data type for putting literal strings into a bibliography

`\DeclareBibliographyDriver` Create a new data type in bibtex, `@literal`, which just prints the content of the title field.

Thanks to emilianoehyans at <https://forums.zotero.org/discussion/110863/biblatex-both-langid-and-language-are-needed>

```
451 \DeclareBibliographyDriver{literal}{%
452     \newunit\newblock
453     \printfield{title}%
454     \finentry}
```

## 2.20 Turn language into langid

`\DeclareSourcemap` It turns out that it's the `langid` field that controls language-switching in bibliography entries, not `language`. Since I've always used `language`, this code will just write the content of the `language` field to the `langid` field, on the fly.

```
455 \DeclareSourcemap{
456     \maps[datatype=bibtex]{
457         \map{
458             \step[fieldsource=language,fieldtarget=langid]
459         }
460     }
461 }
```

That's all, folks!

### 3 xelatex-glossaries.sty

Official documentation of LaTeX glossaries is found in the TeXlive distribution:

- glossaries.pdf
- glossaries-extra.pdf
- bib2gls.pdf
- glossariesbegin.pdf

See

- <https://ctan.org/pkg/glossaries>
- <https://ctan.org/pkg/glossaries-extra>
- <https://ctan.org/pkg/bib2gls>

The Glossaries packages are complex and the documentation is voluminous and written from the point of view of an insider programmer. See also <https://en.wikibooks.org/wiki/LaTeX/Glossary>

I cannot pretend to understand the package overall, but the code below works.

A shorter and earlier description of this package – with pictures! – is available at <https://cikitsa.blogspot.com/2022/11/making-index-of-plant-names.html>

#### 3.1 Glossaries of plants, animals, and minerals

This package initializes two glossaries, plants and animals. These glossaries draw their content from the databases `plants.bib` and `animals.bib`, using the `bib2gls` feature of Glossaries. These two databases are in simple bibtex format. One entry, for example, reads,

```
@Entry{māmsī,  
citationkey = {māmsī},  
description = {Nardostachys grandiflora, DC. See  
               \volcite{1}[\#1691]{NK}},  
name        = {spikenard},  
}
```

Note the use of Bib<sub>La</sub>T<sub>E</sub>X citations in the description field. You will have loaded the biblatex package earlier for this to work.

Also, note that the separate field “citationkey = {māṃsī},” is not necessary (as far as I know). The citation key is the word after @Entry{ and before the comma. I use [JabRef](#) to manage my databases and it adds the citationkey = by itself. It does no harm.

The citation keys in the databases, e.g., māṃsī, is used as the argument of the macro \gls{} in your document. It may contain diacritical marks. For example, you write “The plant is \gls{māṃsī}” and your output PDF will print “The plant is spikenard”. The macro \gls has looked up “māṃsī” in plants.bib and replaced it with the name “spikenard”. At the same time, the entry “spikenard” is written to the glossary at the end of your document, giving the name “māṃsī” and then the contents of the description field from plants.bib.

### 3.2 Singular, plural, capitalized

The command \glspl{} produces the plural (“spikenards”). The command \Gls{} capitalizes the output (“Spikenard”). \Glspl{} ... (“Spikenards”). If the plural isn’t composed with suffix s, you can add a field “plural =” to the plants.bib database giving the plural form. (So, with plural=mongeeese, \Glspl{nakula} prints “Mongeeese”.)

The glossaries at the end of your document are produced by the commands

- \printunsrtglossary[type=plants]
- \printunsrtglossary[type=animals]
- \printunsrtglossary[type=minerals]

glossaries-extra.sty

```
462 \usepackage[record={only}, % see bib2gls manual, option summary
463 nostyles, % don't load things you don't need
464 style=bookindex, % load this style
465 stylemods=bookindex, % load the updates for this style
466 postpunc={\,:\ }, % after description, before page numbers
467 automake, % run bib2gls automatically; bib2gls manual
468 section]{glossaries-extra}
```

### 3.3 Define two glossaries

`\newglossary` Give names to the database types and to the default headings that will print when the glossaries are printed. Filename extensions etc. are handled silently.

```
469 \newglossary*{plants}{Flora}
470 \newglossary*{animals}{Fauna}
471 \newglossary*{minerals}{Minerals}
```

### 3.4 Format of the glossary entries

This controls the format of the text printed in the glossaries.  
See glossaries-extra.pdf manual, section 8.7.1, p.443

`\glstrbookindexname`

```
472 \renewcommand*{\glstrbookindexname}[1]{%
473   \glossentryname{#1}%
474   \space (\emph{\the\glslabeltok{#1}})%
475   \ifglshasdesc{#1}{\space \glossentrydesc{#1}\glspostdescription}{}%
476 }
```

Get rid of that pesky pre-comma. (glossaries-extra.pdf manual, section 8.7.1, p.446):

```
477 \renewcommand*\glstrbookindexprelocation[1]{\empty }
```

### 3.5 Glossary preamble

`\setglossarypreamble` Tell the reader that a colon (postpunc above) is what separates the glossary text from the page numbers. It can be a bit visually confusing.  
(glossaries-extra.pdf manual, section 8.7.1, p.443):

```
478 %\renewcommand{\glossaryname}{Materia Medica} % can do that later
479 \setglossarypreamble{\emph{\footnotesize
480   Numbers after the final colon refer to
481   pages in this book.}\bigskip}
```

### 3.6 Load up the databases

Instructions to `bib2gls`, telling it the location of the databases and what type of data is in each.

The `type=` parameter tells `bib2gls` what kind of data is in this database. So you can use the same `\gls{}` command whether you are referring to a plant or an animal. `bib2gls` will look through both databases and send the plant identities to the plants glossary and the animals to the animals glossary.

I don't understand why the `field-aliases` parameter is necessary, but it seems to be.

### 3.7 Plants

```
482 \GlsXtrLoadResources[
483   src={~/Dropbox/localtexmf/bibtex/bib/plants},
484   type=plants,
485   %selection=all, % select this if you want all the contents of the database
486   field-aliases={identifier=citationkey},
487   sort={en-GB},
488 ]
```

### 3.8 Animals

```
489 \GlsXtrLoadResources[
490   src={~/Dropbox/localtexmf/bibtex/bib/animals},
491   type=animals,
492   %selection=all, % select this if you want all the contents of the database
493   field-aliases={identifier=citationkey},
494   sort={en-GB},
495 ]
```

### 3.9 Minerals

```
496 \GlsXtrLoadResources[
497   src={~/Dropbox/localtexmf/bibtex/bib/minerals},
498   type=minerals,
499   %selection=all, % select this if you want all the contents of the database
500   field-aliases={identifier=citationkey},
501   sort={en-GB},
502 ]
```

### 3.10 Print the glossaries

As mentioned above, produce the actual glossaries with:

```
\printunsrtglossary • \printunsrtglossary[type=plants]
                    • \printunsrtglossary[type=animals]
                    at the end of your document.
```

That's all folks!

## 4 xelatex-indexing-xindex.sty

Formerly used xindy; now updated to use xindex

These are macros for creating several indexes. First, a lexical index, Sanskrit-English and English-Sanskrit. Secondly An index of manuscripts.

### 4.1 Load indextools

indextools.sty

```
503%\usepackage[imakeidx]{xindex} % deprecated by indextools
504\usepackage[xindex]{indextools}
```

This is useful if there are multiple indexes, and to make indexing happen during a normal XeTeX run. see

<https://cikitsa.blogspot.ca/2016/07/getting-xindy-to-work-for-iast-encoded.html>

This should be loaded *before* hyperref.

### 4.2 Create a lexical index

A lexical index that sorts words with diacritical marks. I use this with `\saneng{}{}` to make indexes and reverse indexes of Sanskrit terms. Load the databases:

\makeindex

```
505\makeindex[name=lexical,
506title=Glossary,
507columns=2,
508%options= --input-markup xelatex -M iast.xdy -L general,
509%options = --input-markup xelatex -M de-accent
510options= -c iast -a -n, % nocasesensitive, noheadings
511intoc, % put an entry in the table of contents
512]
```

### 4.3 Create an index of manuscripts

Now an index of manuscripts, used by the `\MS` or `\MScite` commands.

\makeindex

```
513\makeindex[name=manuscripts,
514title=Index of Manuscripts,
515%program=texindy,
516%options = --input-markup xelatex -M iast.xdy -L general,
```



```

517 %options = --input-markup xelatex -M de-accent
518 options = -c iast -a -n, % nocasesensitive, noheadings
519 columns=1,
520 intoc]

```

## 4.4 Format the index

\indexsetup

```

521 \indexsetup{level=\section*,
522 %    noclearpage,
523 % firstpagestyle=fancy
524 othercode= %\footnotesize
525     \newcommand{\lettergroup}[1]{\relax}
526 %
527 %https://tex.stackexchange.com/questions/541009/index-layout-subitems-on-the-same-line-as-
528     \renewcommand\@idxitem{\par}
529     \renewcommand\subitem{}
530 }

```

## 4.5 User macros for indexing items

A simple command \saneng{sanskrit}{english} to print the English, put the Skt. in parentheses, and send both words to a lexical index.

\saneng

```

531 % simple command to print the English, put the Skt.
532 % in parentheses, and send both words to a lexical index.
533 \newcommand{\saneng}[2]
534 % #1 = Sanskrit
535 % #2 = English
536 {#2 (\emph{#1})%
537     %%{\def\tuck{\kern -.175em }%
538     %% \def\loweramount{.6ex }%
539     %% \leavevmode
540     %% \lower\loweramount
541     %% \hbox{\tiny $\llcorner$}\tuck #2 (\sansk{#1})%
542     %% \raise\loweramount
543     %% \hbox{\tuck \tiny $\urcorner$}%
544     % and now make the index entries:
545     % \index[lex]{\sansk{#1}!#2@#2}%
546     % \index[lex]{#2@#2!\sansk{#1}}}%
547 %
548 % Version with glosses as sub-items:
549     \index[lexical]{#2@MakeLowercase{#2}!#1@\emph{#1}}%

```

```

550 \index[lexical]{#1@\emph{#1}!#2@MakeLowercase{#2}}

\sanidx Like \saneng{ }{ }, but only print the English, and send the Sanskrit silently
to the index:
551 \newcommand{\sanidx}[2]
552 % #1 = Sanskrit
553 % #2 = English
554 {#2%
555 %%{\def\tuck{\kern -.175em }%
556 %% \def\loweramount{.6ex }%
557 %% \leavevmode
558 %% \lower\loweramount
559 %% \hbox{\tiny $\llcorner$}\tuck #2 (\sansk{#1})%
560 %% \raise\loweramount
561 %% \hbox{\tuck \tiny $\urcorner$}%
562 % and now make the index entries:
563 % \index[lex]{\sansk{#1}!#2@#2}%
564 % \index[lex]{#2@#2!\sansk{#1}}%
565 \index[lexical]{#2@MakeLowercase{#2}!#1@\emph{#1}}%
566 \index[lexical]{#1@\emph{#1}!#2@MakeLowercase{#2}}

```

\sanengdev Now a version that prints #1 in Devanagari in the text, but Latin in the index:

```

567 \newcommand{\sanengdev}[2]
568 % #1 = Sanskrit
569 % #2 = English
570 {#2 (\dev{#1})%
571 %%{\def\tuck{\kern -.175em }%
572 %% \def\loweramount{.6ex }%
573 %% \leavevmode
574 %% \lower\loweramount
575 %% \hbox{\tiny $\llcorner$}\tuck #2 (\sansk{#1})%
576 %% \raise\loweramount
577 %% \hbox{\tuck \tiny $\urcorner$}%
578 % and now make the index entries:
579 % \index[lex]{\sansk{#1}!#2@#2}%
580 % \index[lex]{#2@#2!\sansk{#1}}%
581 %
582 % Version with glosses as sub-items:
583 % \index[lexical]{#2@MakeLowercase{#2}!#1@\emph{#1}}%
584 % \index[lexical]{#2@MakeLowercase{#2}!{#1}@\emph{{#1}}}%
585 % \index[lexical]{#1@\emph{#1}!#2@MakeLowercase{#2}}
586 % \index[lexical]{{#1}@\emph{{#1}}!#2@MakeLowercase{#2}}
587 %
588 % Version with glosses on the same line in parens:
589 % \index[lexical]{#2@MakeLowercase{#2 (\emph{#1})}}%

```

```

590 %    \index[lexical]{#1@\MakeLowercase{\emph{#1} (#2)}}}
591 %

```

\engsan A variant that puts the English input first; of historical interest only:

```

592 \newcommand{\engsan}[2]
593 % #2 = Sanskrit
594 % #1 = English
595 {#1 (\sansk{#2})}%
596   %%{\def\tuck{\kern -.175em }%
597   %% \def\loweramount{.6ex }%
598   %% \leavevmode
599   %% \lower\loweramount
600   %% \hbox{\tiny $\llcorner$\tuck #2 (\sansk{#1})}%
601   %% \raise\loweramount
602   %% \hbox{\tuck \tiny $\urcorner$\tuck #2 (\sansk{#1})}%
603   % and now make the index entries:
604   % \index[lex]{\sansk{#1}!#2@#2}%
605   % \index[lex]{#2@#2!\sansk{#1}}}%
606   \index[lexical]{#1!#2@\emph{#2}}}%
607   \index[lexical]{#2@\emph{#2}!#1}}

```

\ssaneng Now a silent version of \saneng{}{} that prints nothing in the text but sends the entries to the index.

```

608 \providecommand{\ssaneng}[2]% silent \saneng index entry
609 % #1 = Sanskrit
610 % #2 = English
611 {%#2 (\sansk{#1})}%
612   %%{\def\tuck{\kern -.175em }%
613   %% \def\loweramount{.6ex }%
614   %% \leavevmode
615   %% \lower\loweramount
616   %% \hbox{\tiny $\llcorner$\tuck #2 (\sansk{#1})}%
617   %% \raise\loweramount
618   %% \hbox{\tuck \tiny $\urcorner$\tuck #2 (\sansk{#1})}%
619   % and now make the index entries:
620   % \index[lex]{\sansk{#1}!#2@#2}%
621   % \index[lex]{#2@#2!\sansk{#1}}}%
622 %
623 % Version with glosses as sub-items:
624   \index[lexical]{#2@\MakeLowercase{#2}!#1@\emph{#1}}}%
625   \index[lexical]{#1@\emph{#1}!#2@\MakeLowercase{#2}}}%
626 %
627 \let\sse=\ssaneng

```

## 4.6 Obsolete code

Older code, using index.sty: Lexical index, for inclusion in \engsan or \saneng

```
%\usepackage{index,amssymb}
%\newindex{lex}{ldx}{lnd}{Lexical Index}
%\makeatletter
```

## 4.7 Tweak the item spacing of index items

```
\@idxitem
628\renewcommand\@idxitem{\par\hangindent 15\p@ }% from sanmed.sty
```

## 4.8 Obsolete code

```
\newcommand\skt[2]{#1%\footnote{#1: Skt. \emph{#2}}}%
% #1 = English
% #2 = Sanskrit
% next lines experimental
% \index[skt]{#1!#2@\emph{#2}}%
% \index[skt]{#2@\emph{#2}!#1}}
% \makeatother

test version of \saneng that puts tick marks around the indexed words.
\newcommand{\saneng}[2]
% #1 = Sanskrit
% #2 = English
%{\def\tuck{\kern -.175em }%
%\def\loweramount{.6ex }%
% \leavevmode
% \lower\loweramount
% \hbox{\tiny $\llcorner$\tuck #2 (\sansk{#1})}%
% \raise\loweramount
% \hbox{\tuck \tiny $\urcorner$}%
% and now make the index entries:
% \index[lex]{\sansk{#1}!#2@#2}%
% \index[lex]{#2@#2!\sansk{#1}}}%
% \index[lex]{#2!#1@\emph{#1}}}%
% \index[lex]{#1@\emph{#1}!#2}}

Index of manuscripts, old version for index.sty
%\newindex{mex}{mdx}{mnd}{Index of Manuscripts}
%\newcommand{\MS}[1]{MS #1\index[mex]{#1}}
```

```
%\newcommand{\MSsilent}[1]{\index[mex]{#1}}
```

## 4.9 Macros for citing and indexing manuscripts

New version with imakeidx.

`\MS` Say `\MS{Kathmandu, NAK 1-243}`. `\MScite{}` is identical. This prints “MS  
`\MScite` Kathmandu, NAK 1-243” in the text and sends an entry to the index of  
manuscripts.

```
629 \newcommand{\MS}[1]{MS #1\index[manuscripts]{#1}}
630     \let\MScite=\MS
631 \newcommand{\MSsilent}[1]{\index[manuscripts]{#1}}
632     \let\MSnocite=\MSsilent
```

## 4.10 Obsolete code

```
%\renewcommand{\doublespacing}{%
%\renewcommand{\baselinestretch}{1.5}
%\addtolength{\footnotesep}{0.5\footnotesep}}
```

## Index

Numbers written in *italic* refer to the page where the corresponding entry is described; numbers underlined refer to the code line of the definition; numbers in *roman* refer to the code lines where the entry is used.

Symbols		
\# . . . . .	361	\bengalifont . . . . . 70
\, . . . . .	<u>424</u> , 466	\BibHiddenURLsfalse . . . . . 410
\- . . . . .	116, 117, 120, 123	\bibhyperlink . . . . . 445
\= . . . . .	43	\bibhyperref . . . . . 444
\@author . . . . .	177	\bibhypertarget . . . . . 439
\@centercr . . . . .	186	\biblatex.sty . . . . . <u>212</u>
\@date . . . . .	181	\bigskip . . . . . 481
\@idxitem . . . . .	<u>528</u> , <u>628</u>	\blx@ox@compyear . . . . . 306
\@ifnextchar . . . . .	335	\blx@printbibliography . . . . . 336, 337
\@makefnmark . . . . .	132	\blx@refcontext@context . . . . . 287, 290
\@makefntext . . . . .	127, 136	\bookeditor . . . . . <u>325</u>
\@maketitle . . . . .	165	\box . . . . . 110
\@thefnmark . . . . .	137	\brokenpenalty . . . . . 153
\@title . . . . .	171	
\\ . . . . .	186, 211, 354	
\_ . . . . .	450, 466	
		<b>D</b>
<b>A</b>		\date . . . . . 210, 211
\AD . . . . .	<u>112</u>	\DeclareBibliographyDriver . . . . . <u>451</u>
\addbibresource . . . . .	<u>343</u>	\DeclareCiteCommand . . . . . 264
\addcolon . . . . .	371, 380, 387, 404	\DeclareFieldAlias . . . . . 376, 377, 384, 392
\addtolength . . . . .	208	\DeclareFieldFormat . . . . . <u>346</u> , <u>423</u> , <u>438</u>
\advance . . . . .	108, 194	\DeclareLabeldate . . . . . <u>429</u>
\AH . . . . .	120	\DeclareMultiCiteCommand . . . . . 258, 261
array (env.) . . . . .	<u>145</u>	\DeclareQuotePunctuation . . . . . 329
\AtBeginDocument . . . . .	86	\DeclareSourcemap . . . . . <u>414</u> , <u>455</u>
\AtEndDocument . . . . .	105	\def . . . . . 106, 126, 136, 203, 272, 273, 277, 278, 286, 291, 307, 308, 318, 321, 537, 538, 555, 556, 571, 572, 596, 597, 612, 613
\AtEveryCitekey . . . . .	426	\defaultfontfeatures . . . . . 24
<b>B</b>		
\baselineskip . . . . .	188, 189	
\baselinestretch . . . . .	207	
\bbx@lasthash . . . . .	326	
\BC . . . . .	113	
\BCE . . . . .	114	
\begin . . . . .	128, 169, 176	
\begingroup . . . . .	332	
		<b>C</b>
		\c@refsection . . . . . 287, 289
		\cbx@cite . . . . . 261, 264
		\cbx@cite@wrapper . . . . . 261, 271
		\cbx@citecall . . . . . 273, 274, 280
		\cbx@cites . . . . . 258, 261
		\cbx@citesort . . . . . 274, 277
		\cbx@savekeys . . . . . 266, 272, 279
		\cbx@sortkeys . . . . . 283, 291
		\cbx@sortkeysinit . . . . . 274, 286
		\cc . . . . . 211
		\ccby . . . . . 211
		\ccnc . . . . . 211
		\ccsa . . . . . 211
		\CE . . . . . 115
		\centering . . . . . 161
		\cite . . . . . 258

<code>\defcitealias</code> ... <a href="#">411</a>	<b>F</b>	<code>\hspace</code> ..... <a href="#">204</a>
<code>\DefineBibliographyExtras</code> ..... <a href="#">161</a>	<code>\fi</code> ..... <a href="#">107, 319, 409</a>	<code>\hss</code> ..... <a href="#">109, 111, 137</a>
..... <a href="#">329</a>	<code>\field</code> ... <a href="#">430, 431,</a>	<code>\ht</code> ..... <a href="#">108</a>
<code>\DefineBibliographyStrings</code> ..... <a href="#">338</a>	..... <a href="#">432, 433, 434, 435</a>	<code>\hyperref</code> ..... <a href="#">5</a>
<code>\delimcontext</code> ... <a href="#">333</a>	<code>\finentry</code> ..... <a href="#">454</a>	<code>\hyphenation</code> .... <a href="#">158</a>
<code>\dev</code> ..... <a href="#">64, 65, 570</a>	<code>\footnote</code> ..... <a href="#">170</a>	<code>\hyphenations</code> .... <a href="#">86</a>
<code>\devanagarifont</code> ..	<code>\footnotesep</code> .... <a href="#">208</a>	<b>I</b>
..... <a href="#">56, 65, 66, 67</a>	<code>\footnotesize</code> ....	<code>\iast</code> ..... <a href="#">54</a>
<code>\diatop</code> ..... <a href="#">106</a>	..... <a href="#">132, 479, 524</a>	<code>\ifBibHiddenURLs</code> .
<code>\dimen</code> ..... <a href="#">107,</a>	<code>\footnotetext</code> ... <a href="#">204</a>	..... <a href="#">346, 348</a>
<a href="#">108, 109, 110, 111</a>	<b>G</b>	<code>\ifboolexpr</code> .... <a href="#">311</a>
<code>\dn</code> ..... <a href="#">67</a>	<code>\global</code> ..... <a href="#">289, 326</a>	<code>\ifcsundef</code> ..... <a href="#">287</a>
<code>\do</code> ..... <a href="#">278</a>	<code>\glossaries-extra.sty</code>	<code>\ifdim</code> ..... <a href="#">107</a>
<code>\dolistloop</code> .... <a href="#">283</a>	..... <a href="#">462</a>	<code>\iffieldundef</code> ... <a href="#">443</a>
<code>\doublespacing</code> .. <a href="#">206</a>	<code>\glossaryname</code> ... <a href="#">478</a>	<code>\ifglshasdesc</code> ... <a href="#">475</a>
<code>\dsan</code> ..... <a href="#">66</a>	<code>\glossentrydesc</code> . <a href="#">475</a>	<code>\ifhyperref</code> <a href="#">353, 360,</a>
<code>\DWolddate</code> .. <a href="#">210, 211</a>	<code>\glossentryname</code> . <a href="#">473</a>	<a href="#">366, 372, 381,</a>
<b>E</b>	<code>\glslabeltok</code> .... <a href="#">474</a>	<a href="#">388, 394, 399, 405</a>
<code>\edef</code> ..... <a href="#">334</a>	<code>\glspostdescription</code>	<code>\ifinlist</code> ..... <a href="#">279</a>
<code>\else</code> ..... <a href="#">107, 350</a>	..... <a href="#">475</a>	<code>\ifnum</code> ..... <a href="#">317</a>
<code>\emergencystretch</code> <a href="#">157</a>	<code>\glstrbookindexname</code>	<code>\ifnumequal</code> .... <a href="#">312</a>
<code>\emph</code> .. <a href="#">53, 116, 117,</a>	..... <a href="#">472</a>	<code>\ifnumless</code> ..... <a href="#">314</a>
<a href="#">120, 199, 474,</a>	<code>\glstrbookindexprelocation</code>	<code>\IfStrEq</code> .... <a href="#">318, 321</a>
<a href="#">479, 536, 549,</a>	..... <a href="#">477</a>	<code>\index</code> ..... <a href="#">545,</a>
<a href="#">550, 565, 566,</a>	<code>\GlsXtrLoadResources</code>	<a href="#">546, 549, 550,</a>
<a href="#">583, 584, 585,</a>	..... <a href="#">482, 489, 496</a>	<a href="#">563, 564, 565,</a>
<a href="#">586, 589, 590,</a>	<code>\graphicx</code> ..... <a href="#">87</a>	<a href="#">566, 579, 580,</a>
<a href="#">606, 607, 624, 625</a>	<code>\greekfont</code> ..... <a href="#">83</a>	<a href="#">583, 584, 585,</a>
<code>\empty</code> ..... <a href="#">477</a>	<b>H</b>	<a href="#">586, 589, 590,</a>
<code>\end</code> ..... <a href="#">133, 178, 182</a>	<code>\hangfootnotes</code> <a href="#">126, 204</a>	<a href="#">604, 605, 606,</a>
<code>\endlist</code> .... <a href="#">196, 201</a>	<code>\hangindent</code> .... <a href="#">628</a>	<a href="#">607, 620, 621,</a>
<code>\engsan</code> ..... <a href="#">592</a>	<code>\hb@xt@</code> ..... <a href="#">136</a>	<a href="#">624, 625, 629, 631</a>
<code>\enumitem</code> ..... <a href="#">139</a>	<code>\hbox</code> . <a href="#">106, 109, 111,</a>	<code>\indexsetup</code> .... <a href="#">521</a>
environments:	<a href="#">541, 543, 559,</a>	<code>\indextools.sty</code> . <a href="#">503</a>
array ..... <a href="#">145</a>	<a href="#">561, 575, 577,</a>	<code>\input</code> ..... <a href="#">86</a>
longtable .... <a href="#">145</a>	<a href="#">600, 602, 616, 618</a>	<code>\interfootnotelinepenalty</code>
multicol ..... <a href="#">145</a>	<code>\hfill</code> ..... <a href="#">132</a>	..... <a href="#">154</a>
<code>\etc.</code> ..... <a href="#">112</a>	<code>\hfuzz</code> ..... <a href="#">156</a>	<code>\item</code> .... <a href="#">132, 195, 200</a>
<code>\etex</code> ..... <a href="#">8</a>	<code>\hline</code> . <a href="#">354, 361, 367,</a>	<code>\itemindent</code> . <a href="#">190, 191</a>
<code>\ExecuteBibliographyOptions</code> ..	<a href="#">373, 374, 382,</a>	<code>\itemsep</code> .... <a href="#">130, 187</a>
..... <a href="#">292</a>	<a href="#">389, 395, 400, 406</a>	<code>\itshape</code> .... <a href="#">195, 200</a>
<code>\ExplSyntaxOff</code> ... <a href="#">20</a>	<code>\hskip</code> ..... <a href="#">136</a>	<b>K</b>
<code>\ExplSyntaxOn</code> .... <a href="#">15</a>		<code>\kern</code> ..... <a href="#">537,</a>
		<a href="#">555, 571, 596, 612</a>

<b>L</b>	<code>\maps</code> ..... 415, 456	<code>\num@two@len</code> ..... 310, 312, 317
<code>\labelsep</code> ..... 130	<code>\MS</code> ..... 629	<b>O</b>
<code>\labelwidth</code> . 128, 129	<code>\MScite</code> ..... 629	<code>\on@line</code> ..... 334
<code>\LARGE</code> ..... 171	<code>\MSnocite</code> ..... 632	<b>P</b>
<code>\large</code> ... 125, 173, 181	<code>\MSSilent</code> ... 631, 632	<code>\p@</code> ..... 628
<code>\LaTeX</code> ..... 450	<code>\multicitedelim</code> . 258	<code>\par</code> .. 125, 162, 171, 178, 183, 528, 628
<code>\leavevmode</code> 106, 539, 557, 573, 598, 614	<code>\multicol (env.)</code> .. 145	<code>\parindent</code> .. 127, 141
<code>\leftmargin</code> ..... 129, 193, 194, 198	<code>\multicolsep</code> . 146, 147	<code>\parsep</code> ..... 131, 189
<code>\leftskip</code> ..... 136	<b>N</b>	<code>\pdfx</code> ..... 5
<code>\let</code> ..... 54, 55, 66, 67, 81, 118, 119, 170, 186, 210, 627, 630, 632	<code>\nameyear delim</code> .. 425	<code>\penalties</code> ..... 446
<code>\lettergroup</code> .... 525	<code>\newbibmacro</code> .... 217	<code>\polyglossia</code> ..... 11
<code>\lineskip</code> ..... 174	<code>\newblock</code> ..... 452	<code>\postnotedelim</code> .. 424
<code>\list</code> ..... 187, 198	<code>\newcommand</code> ..... 53, 64, 65, 101, 112, 113, 114, 115, 121, 123, 124, 125, 135, 160, 202, 206, 525, 533, 551, 567, 592, 629, 631	<code>\PreliminaryNote</code> 202
<code>\listoftodos</code> .... 105	<code>\newenvironment</code> .. 185, 197	<code>\pretendpicture</code> . 160
<code>\listparindent</code> .. 191	<code>\newfontfamily</code> ... 45, 56, 70, 77, 83	<code>\pretocmd</code> ..... 16
<code>\listxadd</code> ..... 266	<code>\newglossary</code> .... 469	<code>\printbibliography</code> 330
<code>\literal</code> ..... 436	<code>\newif</code> ..... 346	<code>\printfield</code> .... 453
<code>\llcorner</code> .... 541, 559, 575, 600, 616	<code>\newpage</code> .... 105, 166	<code>\printunsrtglossary</code> ..... 503
<code>\long</code> ..... 136	<code>\newrefcontext</code> .. 331	<code>\prop</code> ..... 17, 18
<code>longtable (env.)</code> . 145	<code>\newrobustcmd</code> ... 271	<code>\protected@xappto</code> 280
<code>\lower</code> ..... 540, 558, 574, 599, 615	<code>\newunit</code> ..... 452	<code>\providecommand</code> .. 116, 117, 120, 165, 608
<code>\loweramount</code> ..... 538, 540, 542, 556, 558, 560, 572, 574, 576, 597, 599, 601, 613, 615, 617	<code>\noindent</code> ..... 171, 173, 175, 181	<code>\PYS</code> ..... 123
<b>M</b>	<code>\nolinkurl</code> ..... 355, 361, 362, 367, 368, 373, 375, 383, 391, 396, 401, 406, 407	<b>Q</b>
<code>\makeatletter</code> . 14, 325	<code>\null</code> ..... 167	<code>\q</code> ..... 89
<code>\makeatother</code> .. 21, 328	<code>\num@one</code> ..... 307, 309, 314, 316	<b>R</b>
<code>\makeindex</code> .. 505, 513	<code>\num@one@len</code> . 309, 312	<code>\raise</code> ... 110, 542, 560, 576, 601, 617
<code>\MakeLowercase</code> ... 549, 550, 565, 566, 583, 584, 585, 586, 589, 590, 624, 625	<code>\num@two</code> . 308, 310, 314, 316, 323, 324	<code>\relax</code> ..... 195, 200, 203, 349, 525
<code>\map</code> ..... 416, 457		<code>\renewcommand</code> .... 127, 199, 207, 211, 306, 424, 425, 472, 477, 478, 528, 529, 628
		<code>\renewrobustcmd</code> . 330
		<code>\RequirePackage</code> ... 5
		<code>\reserveinserts</code> ... 9



\Result	316, 318, 321, 323	\SS	119	U	
\rightmargin	192, 198	\Ss	117, 119	\undef	326
\rlap	110	\ssaneng	608	\urcorner	543, 561, 577, 602, 618
\rsan	55	\sse	627	\url	5, 216, 232, 252
S		\step	417, 418, 419, 458	\usepackage	6, 7, 8, 10, 11, 41, 42, 87, 88, 89, 139, 144, 145, 148, 149, 150, 209, 212, 427, 446, 462, 503, 504
\saneng	121, 531, 608	\StrCompare	316	V	
\sanengdev	567	\StrGobbleLeft	323	\vfuzz	155
\sanidx	551	\StrLen	309, 310	\volcite	338
\sansk	53, 54, 55, 121, 124, 541, 545, 546, 559, 563, 564, 575, 579, 580, 595, 600, 604, 605, 611, 616, 620, 621	\subitem	529	\vrule	161, 162
\sanskritfont	45	\sutra	125	\vskip	168, 172, 180, 184
\section	521	T		W	
\setbox	106, 109	\textbf	125	\wd	107
\setcounter	138, 447, 448, 449	\textdevanagari	64	\widowpenalty	151
\setglossarypreamble	478	\textit	199	\wlog	327
\setlength	127, 128, 129, 130, 131	\textsanskrit	53, 65	X	
\setlist	140	\textsc	112, 113, 114, 115, 354, 355, 359, 365, 404	\XeLaTeX <sub>int</sub> internals	1
\setmainfont	31, 32	\textwidth	93, 157	\XeTeXgenerateactualtext	4
\setmainlanguage	30	\thanks	170	\XeTeXinputnormalization	1
\setotherlanguage	44, 69, 75, 76, 82	\the	287, 289, 474	\xpatchbibmacro	326
\setquotestyle	428	\thefield	265, 266, 268, 439, 445	\xpg@set@alias@values	16
\setuptodonotes	98	\thefootnote	203	Y	
\SFB@indent	193	\tiny	541, 543, 559, 561, 575, 577, 600, 602, 616, 618	\YSV	124
\sloka	185	\todo	100, 101	Z	
\small	374, 382, 389, 395, 400	\todonotes	89	\z@	187, 192
\smallskip	200, 201	\topsep	131, 188		
\space	359, 365, 371, 380, 387, 404, 474, 475	\tracinglostchars	2		
		\tracingonline	3		
		\tuck	537, 541, 543, 555, 559, 561, 571, 575, 577, 596, 600, 602, 612, 616, 618		
		\typeout	163		