

L^AT_EX class and style files for my own local use

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

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
```

2 Used at different times

Commented out.

hyperref

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

3 Multilingual macros

from: [Stackexchange](#).

etex Not used

```
7%\usepackage{etex}
8%\reserveinserts{28}
9%\usepackage{xcolor}
```

polyglossia Set up various fonts and languages.

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

```

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

Main document font:
30% \setmainfont[AutoFakeBold=1.5]{EB Garamond 12}
31\setmainfont[BoldFont = * Bold] % t1pretest 2019
32% (See https://tug.org/pipermail/tex-live/2019-March/043211.html)
33% {Linux Libertine 0} % lovely, but use Libertinus
34% {fbb} % also lovely - Bembo, but no underdot
35% {Tinos} % a croscore font; good diacritics
36{TeX Gyre Pagella}
37% {IndUni-P}
38% {Lucida Sans Unicode}
39% {Libertinus Serif} % something funny with overlapping chars in bold 2019-05

```

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`.

```

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

```

Getting properly-hyphenated Sanskrit:

```

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

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

Now define the Devanagari font: input using standard IAST transliteration

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

Use: \textbengali{ }

And other languages

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

will call appropriate hyphenation.

Chinese, Japanese, Korean

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

<https://tex.stackexchange.com/questions/376420/>

[include-chinese-characters-into-article-in-xelatex](#)

Classical Greek:

```
81 \setotherlanguage{greek}
```

```

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

```

End of polyglossia stuff.

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}`.

```

85 % \AtBeginDocument{\input{sanskrit-hyphenations.tex}} % this doesn't work :- (

```

6 Misc.

```

csquotes
graphicx 86 \usepackage[style=british]{csquotes} % error in log if not included
          87 \usepackage{graphicx}

```

7 Marginal note hacks

Not used:

```

88 % \usepackage{marginfix}
      simple marginal query, now superseded:
89 % \newcommand{\q}[1]{%
90 %     \marginpar{%
91 %         \rlap{%
92 %             \fbox{\vtop{\hsize 0.2\textwidth\raggedright\tiny#1}}}}
93 %     %}

```

Actually, `todonotes` makes nicer marginal comments:

```

todonotes
94 \usepackage[colorinlistoftodos,
95 %     disable,
96 textsize=tiny,
97 obeyDraft,

```

```

98 textwidth=.11\textwidth,
99 loadshadowlibrary,
100 shadow,
101 backgroundcolor=yellow
102 ]{todonotes}
103     \setuptodonotes{fancyline}
104
105 % Now renew the \q command to use \todo:
106 \newcommand{\q}[1]{\todo{#1}}
107 % \AtEndDocument{\newpage\listoftodos } %print the todo list
108 % at the end,
109 % when in draft mode

```

8 Stacked diacritics

\diatop \diatop, by Christina Thiele, used for r underdot overbar (ṛ, F6, 246) See *TeXniques: Conference Proceedings* 1987, no.5, p.11. (<https://tug.org/texniques/>)

```

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

```

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

9 Private abbreviations

```

\AD
etc. 116 \newcommand{\AD}{\textsc{ce}{}}
117 \newcommand{\BC}{\textsc{bce}{}}
118 \newcommand{\BCE}{\textsc{bce}{}}
119 \newcommand{\CE}{\textsc{ce}{}}
120 \providecommand{\Cs}{\emph{Caraka\ -saṃ\ -hitā}}
121 \providecommand{\Ss}{\emph{Suśruta\ -saṃ\ -hitā}}
122 \let\CS\Cs
123 \let\SS\Ss
124 \providecommand{\AH}{\emph{Aṣṭāṅga\ -hṛdaya\ -saṃ\ -hitā}}
125 % \newcommand{\saneng}[2]{#2 (\sansk{#1})} % now in
126 % xelatex-indexing-xindex.sty
127 \newcommand{\PYS}{PYŚ} % {Pātañjala\ -yoga\ -śāstra}
128 \newcommand{\YSV}{\sansk{Yogasūtravivaraṇa}}

```

```
129 \newcommand{\sutra}[1]{\textbf{\large #1}\par}
```

10 Nice hanging-indent footnotes

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

```
130 % \def\hangfootnotes{%
131 % \renewcommand{\@makefnmark}[1]{\setlength{\parindent}{0pt}%
132 % \begin{list}{}{\setlength{\labelwidth}{1.5em}%
133 % \setlength{\leftmargin}{\labelwidth}%
134 % \setlength{\labelsep}{3pt}\setlength{\itemsep}{0pt}%
135 % \setlength{\parsep}{0pt}\setlength{\topsep}{0pt}%
136 % \footnotesize}\item[\hfill\@makefnmark]##1%
137 % \end{list}}%
138 %}
```

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/>

```
139 \newcommand\hangfootnotes{%
140 \long\def\@makefnmark##1{\leftskip=1.8em\hskip-1.8em\hb@xt@1.8em
141 {\@thefnmark\hss}##1}}
```

11 Normal LaTeX settings now

```
142 \setcounter{secnumdepth}{0}
```

`enumitem`

```
143 \usepackage[inline]{enumitem} % supersedes mdwlist: does it globally
144 \setlist{itemsep=.5em,
145 %labelindent=\parindent,
146 %leftmargin=*,
147 }
```

```
148 % \usepackage{makeidx} % leave this to xelatex-indexing.sty
```

`multicol (env.)`

`longtable (env.)` 149 \usepackage{multicol}

`array (env.)` 150 % \multicolsep = 12pt plus 4pt minus 3pt % default

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

```
152 \usepackage{longtable}
```

```
153 \usepackage{array}
```

```
154 % \usepackage{index} % multiple indexes. Doesn't play well with Beamer
```

```
155 \widowpenalty 4000
```

```

156 \clubpenalty 300
157 \brokenpenalty 5000
158 \interfootnotelinepenalty 10 % lets notes break more easily
159 \vfuzz2pt % Don't report over-full v-boxes if over-edge is small
160 \hfuzz2pt % Don't report over-full h-boxes if over-edge is small
161 \emergencystretch .1\textwidth

162 \hyphenation{dharam-pal wuj-as-tyk never-the-less nutri-tive
163 asoka kerala Aristotle Alex-ander Majno manu-script manu-scripts}

```

Command to draw a box where the pictures will go:

```

164 \newcommand{\pretendpicture}
165 { {\centering \fbox{\vrule width0pt height 2.5in depth0pt
166 \vrule width 4in height0pt depth0pt }\par }}

```

use as follows:

```

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

```

12 From article.cls

This isn't used.

```

167% \typeout{Wujastyk: NB: Modified maketitle command, flush
168% left and no array for authors.}

169% \providecommand\@maketitle{%
170% \newpage
171% \null
172% \vskip 2em%
173%% \begin{center}%
174% \let \footnote \thanks
175% \noindent{\LARGE \@title \par}%
176% \vskip 1.5em%
177% \noindent {\large
178% \lineskip .5em%
179%% \noindent
180%% \begin{tabular}[t]{l} %DW
181% \@author
182%% \end{tabular}\par %DW

```



```

183%    }%
184%    \vskip 1em%
185%    \noindent {\large \@date}%
186%%    \end{center}%
187%    \par
188%    \vskip 3em} %DW was 1.5em

```

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

```

189% \newenvironment{sloka} % based on {verse}, from book.cls
190%     {\let\\\@centercr
191%     \list{}\itemsep \z@
192%         \topsep .1\baselineskip
193%         \parsep .25\baselineskip
194%         \itemindent -1.5em%
195%         \listparindent\itemindent
196%         \rightmargin \z@
197%         \leftmargin 3pc % = CUP's \SFB@indent
198%         \advance\leftmargin 1.5em}%
199%     \item\itshape\relax}
200%     {\endlist}

```

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

```

201 \newenvironment{sloka}
202 {\list{}\rightmargin\leftmargin}%
203 \item\itshape\relax}
204 {\endlist}

```

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

```

205 \newcommand{\PreliminaryNote}[1]{%
206 {\def\thefootnote{\relax }%
207 \footnotetext{\hspace*{-2.3em} %only if not using \hangfootnotes
208 #1}}}

209 \newcommand{\doublespacing}{%
210 \renewcommand{\baselinestretch}{1.5}
211 \addtolength{\footnotesep}{0.5\footnotesep}}

```

The following not used.

```

212% \usepackage{ccllicenses}
213% \let\DWolddate\date
214% \renewcommand{\date}[1]{\DWolddate{#1\\ \cc \ccby \ccnc \ccsa }}

```

13 BibLaTeX

BibLaTeX Load the BibLaTeX package and the oxyear style, and set the various options.

```
215 \usepackage[%
216 backend=biber,
217 %style=authoryear-icomp,
218 % Make idem and ibidem behave appropriately:
219 \url{https://tex.stackexchange.com/questions/61717/biblatex-strictly-identical-footnote-c
220 % (and see \newbibmacro*{cite:ibid} below).
221 %ibidpage,
222 %idemtracker=false,
223 %style=authoryear,
224 %uniquename=false,
225 % oxref:
226 style=oxyear,
227 dashed=true,
228 % end oxref
229 %bibstyle=publist,
230 %marginyear=true,
231 %style=verbose-trad1,
232 %
233 % I finally worked out how to sort cites by year and bibliography by name
234 %
235 \url{https://cikitsa.blogspot.ca/2017/07/biblatex-citations-and-bibliography.html}
236 sorting=ynt, %ynt for the citations in date order; nyt otherwise
237 sortcites=true,
238 %sortlocale=en-GB,
239 backref=false,
240 date=comp,
241 datecirca=true,
242 dateuncertain=true,
243 bibencoding=auto,
244 hyperref=auto,
245 isbn=true,
246 doi=true,
247 language=auto,
248 natbib=true,
249 texencoding=auto,
250 url=true,
251 urldate=short,
252 usetranslator=true,
253 useprefix=true,% van Nooten
254 giveninits=false, % Give first names in the bibliography. See
255 \url{https://github.com/alex-ball/biblatex-oxref/issues/17#issuecomment-843383550}
```

```

256 %maxnames=1, % before "et al."
257 %uniquelist=false,
258 %refsection=section,
259 %bibstyle=manuscripts, % invokes biblatex-manuscripts-philology
260 ]{biblatex}
261
262 \ExecuteBibliographyOptions[% for biblatex-oxyear
263 article,
264 book,
265 mvbook,
266 mvcollection,
267 inbook,
268 incollection,
269 inreference,
270 collection,
271 reference,
272 mvreference]{useeditor=true,
273     usetranslator=true,
274 %     uniquename=full
275 }

```

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>

```

276 \renewcommand{\blx@ox@compyear}[2]{%
277     \def\num@one{#1}%
278     \def\num@two{#2}%
279     \StrLen{\num@one}[\num@one@len]%
280     \StrLen{\num@two}[\num@two@len]%
281     \ifboolexpr{
282         test {\ifnumequal{\num@one@len}{\num@two@len}}
283         and
284         test {\ifnumless{\num@one}{\num@two}}
285     }{%
286         \StrCompare{\num@one}{\num@two}[\Result]%
287         \ifnum\num@two@len>3%
288         \IfStrEq{\Result}{2}{\def\Result{1}}{}%
289         \fi
290         %% Extend the legal date compression behaviour to all entries
291         \IfStrEq{\Result}{4}{\def\Result{3}}{}%
292         %% End of changes
293         \StrGobbleLeft{0\num@two}{\Result}%
294     }{\num@two}}

```

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

urls biblatex documentation 4.11.2 and macros from biblatex.def Enable hot
URLs for PDFs at Archive.org and Academia.edu

```
317 \newif\ifBibHiddenURLs
318 %
319 \ifBibHiddenURLs
320   \relax
321 \else
322 %
323 \DeclareFieldFormat{url}{%
324   \ifhyperref
325     {\textsc{url: }}\href{#1}{#1}} % added a newline to help with long URLs in PDFs
326     {\textsc{url: }}\nolinkurl{#1}} %DW bug here
327 %
328 % Buddhist Digital Resource Center:
329 \DeclareFieldFormat{eprint:tbrc}{%
330   \textsc{TBRC}\space
331   \ifhyperref
332     {\href{https://www.tbrc.org/\#!rid=#1}{\nolinkurl{#1}}}
333     {\nolinkurl{#1}}}
334 %
335 \DeclareFieldFormat{eprint:ark}{%
336   \textsc{ark:}\space
337   \ifhyperref
338     {\href{https://n2t.net/#1}{\nolinkurl{#1}}}
339     {\nolinkurl{#1}}}
340 %
341 \DeclareFieldFormat{eprint:archive}{%
342 %   Internet Archive\addcolon\space
343   \ifhyperref
344 %     {\href{http://archive.org/details/#1}{\nolinkurl{#1}}}
345 %     {\href{http://archive.org/details/#1}{\small Internet Archive}}}
346     {\nolinkurl{#1}}}
347 \DeclareFieldAlias{eprint:archive.org}{eprint:archive}
348 \DeclareFieldAlias{eprint:Archive.org}{eprint:archive}
349
350 \DeclareFieldFormat{eprint:academia}{%
351 %   Academia.edu\addcolon\space
352   \ifhyperref
353     {\href{http://www.academia.edu/#1}{\small Academia.edu}}}
354     {\nolinkurl{#1}}}
355 \DeclareFieldAlias{eprint:academia.edu}{eprint:academia}
356
357 \DeclareFieldFormat{eprint:dli}{%
358 %   DLI\addcolon\space
```

```

359 \ifhyperref
360 {\href{http://www.dli.gov.in/cgi-bin/DBscripts/allmetainfo.cgi?barcode=#1/}{\small
361 Digital Library of India}}
362 {\nolinkurl{#1}}}
363 \DeclareFieldAlias{eprint:DLI}{eprint:dli}
364 \DeclareFieldFormat{eprint:jstor}{%
365 \ifhyperref
366 {\href{http://www.jstor.org/stable/#1}{\small JSTOR}}}
367 {\nolinkurl{#1}}}
368
369 \DeclareFieldFormat{eprint:google}{%
370 \ifhyperref
371 {\href{http://books.google.com/books?id=#1}{\small Google books}}}
372 {\nolinkurl{#1}}}
373 %
374 \DeclareFieldFormat{doi}{%
375 \textsc{doi}\addcolon\space
376 \ifhyperref
377 {\href{https://doi.org/#1}{\nolinkurl{#1}}}
378 {\nolinkurl{#1}}}
379 %
380 \fi
381 \BibHiddenURLsfalse

```

citealias Not used. Better done in individual documents.

```

382 %\defcitealias{meul-hist}{HIML}
383 %\defcitealias{ncc}{NCC}
384 %\defcitealias{bisw-bibl}{BSIMC}

```

note To make Bib_{La}T_EX notes print last, like addendums
from [http://tex.stackexchange.com/questions/138913/
how-to-move-the-field-note-at-the-end-of-the-reference](http://tex.stackexchange.com/questions/138913/how-to-move-the-field-note-at-the-end-of-the-reference)

```

385 \DeclareSourcemap{
386 \maps[datatype=bibtex]{
387 \map{
388 \step[fieldsource=note, final]
389 \step[fieldset=addendum, origfieldval, final]
390 \step[fieldset=note, null]
391 }
392 }
393 }

```

DeclareFieldFormat Tweaks to make the citation form:- Author date: page

```

394 \DeclareFieldFormat{postnote}{#1}

```

```

395 \renewcommand{\postnotedelim}{:\,}
396 \renewcommand{\nameyear delim}{ }

clearfield Suppress shorthands: http://tex.stackexchange.com/questions/57041/
    Once again, I don't use this at present.
397 % \AtEveryCitekey{\clearfield{shorthand}}

csquotes
398 \usepackage{csquotes}
399 \setquotestyle{american} % american = double quotes

DeclareLabeldate BibLaTEX hacks to get pubstate (?forthcoming? etc.) behaving as it should
BibLaTEX manual 4.5.10
400 \DeclareLabeldate{%
401   \field{date}
402   \field{year}
403   \field{pubstate}
404   \field{eventdate}
405   \field{origdate}
406   \field{urldate}
407   \literal{nodate}
408 }

shorthandwidth Some magic from "moewe" at https://tex.stackexchange.com/questions/442749/biblatex-have-hyperref-links-point-to-the-shorthand-list that
makes hyperlinks work from citations to a list of abbreviations.
409 \DeclareFieldFormat{shorthandwidth}{%
410   \bibhypertarget{shorthand:\thefield{entrykey}}
411   {#1}}
412
413 \DeclareFieldFormat{bibhyperref}{%
414   \iffieldundef{shorthand}
415   {\bibhyperref{#1}}
416   {\bibhyperlink{shorthand:\thefield{entrykey}}{#1}}}

penalties Penalty settings to make URLs format better. From xurl documentation.
    Currently not used.
417 %\usepackage{xurl}
418 %\setcounter{biburllcpenalty}{1}
419 %\setcounter{biburlucpenalty}{1}
420 %\setcounter{biburlnumpenalty}{1}
421 %% but BibLaTEX has this built in to it.

```

volcite No "pp." or "pages" in \volcite etc.

```
422 \DefineBibliographyStrings{english}{%
423     page          = {},
424     pages          = {},
425 }
```

literal 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>

```
426 \DeclareBibliographyDriver{literal}{%
427     \newunit\newblock
428     \printfield{title}%
429     \finentry}
```

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.

```
430 \DeclareSourcemap{
431     \maps[datatype=bibtex]{
432         \map{
433             \step[fieldsource=language,fieldtarget=langid]
434         }
435     }
436 }
```

That's all, folks!

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					
\#	320	\BCE	106	\DeclareFieldAlias	
\,	383	\begin	120, 161, 168		335, 336, 343, 351
\-	108, 109, 112, 115	\begingroup	291	\DeclareFieldFormat	
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