

L^AT_EX class and style files for papers published in the journal HSSA

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1 hssa.cls: HSSA class file, user documentation

This code is in the file `hssa.cls`.

The documentation is created by running `hssa-documentation.dtx`, which calls `hssa.cls` and `hssa.sty`, etc.

Class file for the HSSA journal.¹

1.1 Documentation for authors

If you are writing with \LaTeX please observe the following guidelines:

- Use Unicode encoding for your files (i.e., for \XeLaTeX or \LuaTeX)
- Use the standard features of \LaTeX as documented in the standard manual, *\LaTeX : A Document Preparation System* by Leslie Lamport, or in *The Very Short Guide to Typesetting with \LaTeX* by Peter Flynn and Silmaril Consultants (part of the \TeX live distribution and at [CTAN](#)).
- Use logical markup, not presentational markup. That means you mark things as `\chapter{xxx}`, `\footnote{xxx}`, `\sanskrit{xxx}`, `\title{xxx}`, etc., and not `\textbf{xxx}`, `\vspace{5ex}`.
- Do not use `\newcommand` or `\def` to make private commands. If this appears to be unavoidable, please contact the journal editor before proceeding.
- Provide your bibliography entries in \BibTeX format. The journal uses \BibLaTeX , which is flexible. So please do not use any special formatting commands or non-standard bst files. Just use `\cite{xxx}` etc. in the simplest manner.
- If you have tables, keep them simple and don't spend time putting in many horizontal and vertical lines. They will be reformatted for the journal, in any case.

The above advice is also given on the [HSSA website](#).

¹See <http://tug.org/pracjourn/2005-3/asknelly/> for a nice statement of the difference between `.cls` and `.sty` files.

1.2 Documentation for L^AT_EX hackers converting incoming files to HSSA

1.2.1 Prelims

Start off each HSSA article L^AT_EX file with the following macros:

```
\RequirePackage{snapshot}  
\documentclass{hssa}  
\usepackage{hssa}  
\addbibresource{\jobname.bib}
```

Note that the article's bibliography should have the same name as the article, with the extension .bib.

1.2.2 Metadata

Next, use the following commands to capture the metadata for this article:

```
\HSSAissuenum{999}  
\HSSAissuedate{2999}  
\HSSAarticletitle{A Title}  
\HSSAauthorname{A. N. Author}  
\HSSAauthoraddress{University of University}  
\HSSAfirstpage{000}  
\HSSAlastpage{999}  
\DOI{1.2/3.4.5}
```

These commands generate the right text for the front page, the copyright page and the article's title and running header.

If the running header is too long (author's love long titles), use

```
\HSSAshortarticletitle{An abbreviated title}
```

1.2.3 HSSA user macros

Here follow various commands for use in HSSA articles that aren't part of standard L^AT_EX.

`\CE AD, BC, etc.` There are shortcuts for expressing the eras CE and BCE.
`\BCE` These macros also get the fonts right. There are synonyms: use any of the following and the output will look right:

```
\bce
```

\BC
 \BCE
 %
 \ce
 \CE
 \AD

Don't forget to handle the space after these macros appropriately.

\q Use this to make a loud, obnoxious marginal note in bright yellow box. Use it to annotate the PDF proofs for communicating with the author.

\q{} stands for "query," and is a tailored version of `todonotes`. In addition to the yellow box in the margin, it can also build a page index of the notes that you can print at the end of the article with `\listoftodos`.

`miniedition (env.)` **Environments for ślokas and mini-editions** An environment for making apparatus notes to a single śloka or two.

`sloka (env.)` An environment for typesetting Sanskrit verses; pretty much the same as `verse`.

`\MScite` **Citing manuscripts** Cite your manuscripts using the pattern "City, Library, accession number." The `\MScite` macro will print the right thing in your text, while also writing an entry to an alphabetical index of manuscripts that appears at the end of your article. Saying `\MScite{London, Wellcome, α999}` will print "MS London, Wellcome α 999 in your text.

`\MS` `\MS` is a synonym for `\MScite`

`\MSnocite` If you want to put an entry in your index of manuscripts, but you don't want the entry printed in the main text where you're writing, use `\MSnocite`.

`\MSsilent` A synonym for `\MSnocite`.

`\saneng` **Making a lexical index** If you say `\saneng{pūpa}{cake}` then you'll get "cake (*pūpa*)" printed in your main text. Also, an entry will be written to a lexical page index, both Sanskrit-English and English-Sanskrit.

`\ssaneng` `\ssaneng` is a silent version of the same macro that writes the index entries but puts nothing in the main text.

1.2.4 Language-switching

`\textgreek` See the documentation for [Polyglossia](#) for details of how these are used.

`\textenglish`

`\textsanskrit`

These macros switch to the respective languages and scripts (e.g., Devanagari for `\textsanskrit{}`).

`\dev` `\dev` is just an abbreviation for the `\textsanskrit` macro.

`\cjk` This is just a switch, so say `{\cjk X}` where X is a Chinese character.

1.2.5 Citation commands

HSSA uses the Bib_{La}T_EX macros, and the Oxref style for formatting according to the Oxford Hart's Rules guidelines. The NatBib conventions are also loaded, so you can use `\cite`, `\citep` `\citet` in the standard ways, as well as Bib_{La}T_EX's `\footcite`, `\cites`, `\parencites`, etc.

Bibliography and index outputs Say `\printbibliography` at the end of the document.

Here are examples from the end of Speziale's 2019 paper that do more elaborate things.

Index prologue

```
\setlength{\shorthandwidth}{.25\textwidth}
```

```
\indexprologue{\centering\emph{References are to page numbers in this
article.}}
```

Index of manuscripts As indexed using `\MScite` etc.

```
\printindex[manuscripts] % ditto for manuscripts
```

```
\printshorthands % uses features of biblatex-manuscripts-philology
[title=Primary Sources in Manuscripts,
type=manuscript,
% env=details,
%sorting=special,
]
```

Index of editions

```
\printshorthands %
[title=Primary Sources in Printed Editions,
keyword=edition, % flagged as such in the bib file
%prenote=blurb01,
```

```
%sorting=special,
]
```

Index of references

```
\printbibliography
[title=Secondary Sources and Translations,
sorting=nyt,
%keyword=secondary,
notkeyword=edition,
nottype=manuscript,
] % keep the editions in the Text Editions section only
```

`\diatop` **Miscellaneous** Puts more than one accent over a letter. This isn't available in standard L^AT_EX, but we philologists sometimes need it. Say, for example, `\diatop[\'|{\o}]` to get \acute{o} .

`\PreliminaryNote` For that zeroth footnote at the beginning of an article that gives acknowledgments or abbreviations. I prefer to put this material at the end of an article, in a section called "Acknowledgements."

`rotating (env.)` **Rotating pages for big tables and figures** That's pretty much it. You might want to add `\usepackage[figuresright]{rotating}` if you have some tables to go sideways.

`\section` **Standard L^AT_EX sectioning and similar commands** Just use the normal `\section{}` commands, down to `\paragraph`.

`\lettrine` The first line after a section is formatted with an initial drop-cap and small caps, using `\lettrine`. The three arguments are 1. line-drop and over height (always the same), 2. the drop-capital itself, and 3. the remaining letters of the word and some more words up to the end of a phrase. For example

```
\lettrine[lines=2,loversize=.1]{T}{he} object of this contribution is ...
```

How much you include in the phrase is up to you. E.g.,

```
\lettrine[lines=2,loversize=.1]{T}{he object of this contribution} is ...
```


Note that *all* the letters of the phrase should be lowercase. They will be turned into small caps, and uppercase letters won't look right. E.g.,

```
\lettrine[lines=2,loversize=.1]{T}{he mahābhārata and the rāmāyana both feature kṛṣṇa  
%% ...
```

1.2.6 What you get for nothing

In addition to setting up the above commands, the class and style files below will handle the

- colour and layout of the front and back matter,
- the title and section headings,
- the running headers and footers,
- the two-column footnotes
- the use of T_EX Gyre Pagella or other Unicode font in T_EX math mode.

2 hssa.cls: HSSA class file, macro definitions

This code is in the file `hssa.cls`.

See <http://tug.org/pracjourn/2005-3/asknelly/> for a nice statement of the difference between `.cls` and `.sty` files. Here in `hssa.cls`, I'm keeping the code that is part of the core of HSSA's design. I would not expect to change things here much after 2019.

```
\NeedsTeXFormat{LaTeX2e} Declare that we are using the main LaTeX2e format.
1 \NeedsTeXFormat{LaTeX2e}

\LoadClass{HSSA} HSSA is based on an 11pt article style:
2 \LoadClass[11pt]{article}

\RequirePackage{Here come the packages that HSSA assumes are present.
3 \usepackage{hssa-indexing-xindy} % has to be loaded before hyperref
4 \RequirePackage{ %
5     graphicx,
6     amsmath,
7     amsfonts,
8     amssymb,
9     textcomp, % arcane LaTeX/NFSS system for subsetting encodings. Needed for Sigma.
10    wasysym,
11    hyperref,
12    hyperxmp, % to embed XMP metadata in the PDF
13    geometry,
14    array,
15    longtable,
16    polyglossia, % polyglossia calls fontspec
17    multicol,
18    booktabs, % better table spacing, \toprule etc.
19    textcase, % to get \MakeTextLowercase for tweaking the running footer
20    fancyhdr,
21    hssa-biblatex, % bibliography management and formatting
22 }

xcolor Settings for the xcolor package
23 \RequirePackage[xetex,
24     dvipdfmx,
25     hyperref,
26     svgnames,
27     table]
28     {xcolor}
```

enumitem To control the spacing around itemized lists.

```
29 \usepackage{enumitem} % supersedes mdwlist: does it globally
30 \setlist{noitemsep,
31     %labelindent=\parindent,
32     %leftmargin=*,
33 }
```

\q Issue notes to the author in the margins of the page proofs. It uses the todonotes package.

Define \q to be \empty for the final run to suppress the display of notes. Put a \newpage \listoftodos just before \end{document} to help the author with an indexed list to the marginal notes.

```
34 \setlength{\marginparwidth}{2cm} %todonotes manual, section 1.6.5
35 \usepackage[colorinlistoftodos,
36 %    disable,
37 %textsize=small,
38 loadshadowlibrary,
39 shadow,
40 backgroundcolor=yellow]{todonotes}
41 \setuptodonotes{fancyline}
42 %
43 \newcommand{\q}[1]{{}\todo{\footnotesize #1}{}}
```

\PreliminaryNote A preliminary numberless “footnote” for abbreviations, grant references, and other general initial statements. But commonly, put this in a little “Acknowledgements” section at the end of the paper.

```
44 \newcommand{\PreliminaryNote}[1]{%
45     {\def\thefootnote{\relax }%
46         \footnotetext{\hspace*{-2.3em} %only if not using \hangfootnotes
47             #1}}}
48 %
49 %DW ?
50 \skip\footins=24pt
51 %DW ?
```

2.1 Set the geometry for the pages

geometry Set the geometry for the pages DW

```
52 \geometry{twoside,
53     paperwidth=210mm,
54     paperheight=297mm,
55     textheight=562pt,
56     textwidth=384pt,
```

```

57 centering,
58 headheight=30pt,
59 headsep=18pt,
60 footskip= 42pt, %24pt,
61 footnotesep=24pt plus 2pt minus 12pt,
62 }

```

2.2 Front matter

```

\title I thought about doing something like this:
\author \newenvironment{frontmatter}{}{\maketitle}
\date but then gave that up.

\title
63 \title{\LARGE \@HSSAarticletitle }

\author Put the author's address in a parbox because it may have hard linebreaks
(\\) that can cause trouble. This happened in Speziale 2019. I still don't
know why the linebreak is allowed after the authorname but not in the ad-
dress.
64 \author{\@HSSAauthorname\\ [1ex]
65 \parbox{\textwidth}{\small\centering\emph{\@HSSAauthoraddress}}
66 }

\date No date.
67 \date{\relax }

```

2.3 Running headers and footers

```

\HSSAfooter Variable that collects the text for the footer.
68 \def\HSSAfooter#1 %*%
69 {\gdef\@HSSAfooter{#1}}

\@HSSAtitle Define the title for use on the title page.
70 \newcommand{\@HSSAtitle}{History of Science in South Asia}

\HSSAverso Variable that collects the page header of the verso pages.
71 \def\HSSAverso#1{\gdef\@HSSAverso{#1}}

\HSSArecto Ditto for the recto, and initialize them both to nothing.
72 \def\HSSArecto#1{\gdef\@HSSArecto{#1}}
73 \let\@HSSAverso\@empty
74 \let\@HSSArecto\@empty

```

Now the HSSA journal running headers, footers and cover citation. Set the shorttitle to be the same as \HSSAverso unless the author redefines it in the document preamble.

```
75 \HSSAverso{\@HSSAarticletitle }
76 \let\HSSAshorttitle\HSSAverso
77 \HSSArecto{\@HSSAauthorname }
```

\@HSSAheaderfooterfont Set up the font that will be used for running headers and footers. Small caps, and a bit of extra space, 7%, of the font's point size, between each letter (LetterSpace is from fontspec).

```
78 \def\@HSSAheaderfooterfont{\scshape\addfontfeature{LetterSpace=7}}
```

\HSSAfooter Use the \MakeTextLowercase macro from the textcase package and construct the running footer for each page.

```
79 \HSSAfooter{\MakeTextLowercase{\@HSSAtitle}\ \@HSSAissuenum\
80 (\@HSSAissuedate) \thefirstpage--\thelastpage}
```

2.4 Fancy headers and footers

Now the fancy header setup, which should be done after the geometry setup.

```
81 %\usepackage{fancyhdr} % after the geometry setup
82 \pagestyle{fancy}
83 \fancyhead{}
84 \fancyhead[C]{\textenglish{\@HSSAheaderfooterfont\MakeTextLowercase{\@HSSArecto}}}
85 \fancyhead[CE]{\textenglish{\@HSSAheaderfooterfont\MakeTextLowercase{\@HSSAverso}}}
86 \fancyhead[RO]{\textenglish{\@HSSAheaderfooterfont\thepage}}
87 \fancyhead[LE]{\textenglish{\@HSSAheaderfooterfont\thepage}}
88 \fancyfoot[L]{}
89 \fancyfoot[C]{\textenglish{\@HSSAheaderfooterfont\HSSAfooter}}
90 \fancyfoot[R]{}
91 \renewcommand{\headrulewidth}{0pt}
92 \renewcommand{\footrulewidth}{0pt}
```

2.5 Fancy-plus-DOI style

\fancypage Make a style for the first page that has the DOI in the bottom right

```
93 \fancypagestyle{fancy-plus-DOI}{%
94 \fancyhead{}
95 \fancyhead[R]{}
96 \fancyfoot[L]{\copy\cclogobox\ \tiny\textenglish{\@HSSAheaderfooterfont
97 \href{http://doi.org/\@DOI}{doi: \@DOI}}}
```

```

98 \fancyfoot[C]{\textenglish{\@HSSAheaderfooterfont\@HSSAfooter}}
99 \fancyfoot[R]{ }
100 }

```

2.6 Link colours

`\definecolor` This is the colour that will be used for the URL links; it's dark, so that it doesn't disturb the reading as much as the standard blue would do. It depends on the `xcolor` package.

```
101 \definecolor{darkbrown}{rgb}{0.4, 0.26, 0.13} % from http://latexcolor.com/
```

2.7 Output the preliminary matter

These commands depend on `hyperref`, but that is always loaded so there's no need to check.

```

\AtBeginDocument
102 \AtBeginDocument{%
103     \coverpage
104     \copyrightspage
105     %
106     \setcounter{page}{0}
107     \maketitle
108     \thispagestyle{fancy-plus-DOI}
109     \setcounter{page}{\thefirstpage}
110 %
111     \def\@linkcolor{darkbrown}
112     \def\@anchorcolor{darkbrown}
113     \def\@citecolor{darkbrown}
114     \def\@filecolor{darkbrown}
115     \def\@urlcolor{darkbrown}
116     \def\@menucolor{darkbrown}
117     \def\@pagecolor{darkbrown}
118 %
119     \selectbackgroundlanguage{english}
120 }

```

It would have been convenient to `\input{sanskrit-hyphenations}` at this too, but for some reason this doesn't work. These hyphenations have to be `\input` after `\begin{document}`.

2.8 Output the final pages that come after the article

```
\AtEndDocument
```

```

121 \AtEndDocument{%
122     \newpage
123     \coverlastpage
124 }

```

2.9 Arrange the appendix

appendix

```

125 % Consider using \RequirePackage[title]{appendix}
126 %
127 \def\appendixname{Appendix}
128 \renewcommand\appendix{\par
129     \setcounter{section}{0}%
130     \setcounter{subsection}{0}%
131     \setcounter{equation}{0}
132     \addtocontents{toc}{\string\let\string\numberline\string\tmptocnumberline}{}}
133 }

```

Last page Define the last page number and set it to 100

```

134 \def\LastPage#1{\gdef\@LastPage{#1}}
135 \LastPage{100}

```

2.10 Set up the alignment and fonts of title and author names

```

\aufont
\titlefont 136 \def\titlealign#1{\gdef\@titlealign{#1}}
\footerfont 137 \let\@titlealign\centering
\footeraddress 138 \def\aualign#1{\gdef\@aualign{#1}}
139 \let\@aualign\centering
140 \def\titlefont#1{\gdef\@titlefont{#1}}
141 \def\aufont#1{\gdef\@aufont{#1}}
142 \def\@titlefont{\fontsize{20}{24}}
143 \def\@aufont{\fontsize{10}{12}}
144 %
145 % Footer font
146 %
147 \def\footerfont#1{\gdef\@footerfont{#1}}
148 \footerfont{\fontsize{7}{8}}
149 %
150 % Footer address
151 %
152 \def\footeraddress#1{\gdef\@footeraddress{#1}}
153 \let\@footeraddress\@empty

```

2.11 The content of the cover page

\coverpage

```
154 \long\def\coverpage{%
155     \thispagestyle{empty}
156     \begingroup
157     \parindent0pt
158     \pagecolor{pagecolor}
159     \color{Maroon!20}
160     \hspace*{-.05\linewidth}%
161     \begin{minipage}{1.1\linewidth}%
162         \vspace*{-18pt}%
163         \includegraphics[width=50mm]{logo.eps}\par
164         \vskip-12pt
165         \fontsize{30}{36}\selectfont
166         History of Science in South Asia\par\medskip
167         \footnotesize\itshape
168         A journal for the history of all forms of scientific thought and
169         action, ancient and modern, in all regions of South Asia\par
170     \end{minipage}
171     \par
172     \vfill
173     \begin{minipage}{\linewidth}
174         \raggedright
175         \LARGE
176         \@HSSAspecialissuedetails
177     \end{minipage}
178     \par
179     \vfill
180     \par
181     \begin{minipage}{\linewidth} % Here's the main title and author and affiliation
182         \raggedright
183         \LARGE
184         \@HSSAarticletitle
185         \par\vspace*{10mm}
186         \large
187         \@HSSAauthorname\par
188         \vspace{.8\baselineskip}
189         \normalsize
190         \emph{\@HSSAauthoraddress}
191         \par\vspace*{10mm}
192     \end{minipage}
193     \par
194     \vfill
195     \par
```



```

196 \hspace*{-.05\linewidth}%
197 \begin{minipage}{1.1\linewidth}
198 \rule{\linewidth}{.1pt}
199 \footnotesize
200 {\tiny MLA} style citation form: \thecovercitation \[3pt]
201 Online version available at: {\def\@urlcolor{Maroon!20}%
202 \href{http://hssa-journal.org}{http://hssa-journal.org}}
203 \end{minipage}
204 \endgroup
205 \vspace{-10mm}
206 \newpage
207 } % end coverage

```

2.12 The the content of the copyright page

\copyrightspage

```

208 \long\def\copyrightspage{%
209 \begin{group}
210 \pagecolor{white}
211 \normalcolor
212 \thispagestyle{empty}
213 \footnotesize
214 \begin{minipage}[t][.98\textheight][t]{\linewidth}
215 {\addfontfeature{LetterSpace=8}\bfseries
216 HISTORY OF SCIENCE IN SOUTH ASIA}\
217 A journal for the history of all forms of scientific thought and action,
218 ancient and modern, in all regions of South Asia, published online
219 at \href{http://hssa-journal.org}{http://hssa-journal.org}
220
221 \vfill
222
223 ISSN 2369-775X
224
225 \vfill
226
227 \textit{Editorial Board:}\
228 \begin{itemize}
229 \leftmargin=1em
230 \item Dominik Wujastyk, University of Alberta, Edmonton, Canada
231 \item Kim Plofker, Union College, Schenectady, United States
232 % \item Dhruv Raina, Jawaharlal Nehru University, New Delhi, India
233 \item Clemency Montelle, University of Canterbury,
234 Christchurch, New Zealand
235 \item Fabrizio Speziale, School of Advanced Studies in the

```

236 Social Sciences (EHSS), Paris, France
 237 \item Michio Yano, Kyoto Sangyo University, Kyoto, Japan
 238 \item Gudrun Bühnemann, University of Wisconsin-Madison, USA
 239 \item Anuj Misra, University of Copenhagen, Denmark
 240 \item Aditya Kolachana, Indian Institute of Technology, Madras, India
 241 \item Dagmar Wujastyk, University of Alberta, Edmonton, Canada
 242 \end{itemize}
 243
 244 \medskip
 245
 246 \textit{Publisher:}\[4pt]
 247 History of Science in South Asia
 248
 249 \medskip
 250
 251 \textit{Principal Contact:}\[4pt]
 252 Dominik Wujastyk, Editor, University of Alberta\\
 253 Email: \$\langle\$wujastyk@ualberta.ca\$\rangle\$
 254
 255 \medskip
 256
 257 \textit{Mailing Address:}\[4pt]
 258 History of Science in South Asia,\\
 259 Department of History, Classics and Religion,\\
 260 2--81 HM Tory Building,\\
 261 University of Alberta,\\
 262 Edmonton, AB, T6G 2H4\\
 263 Canada
 264
 265 \medskip
 266
 267 This journal provides immediate open access to its content on the
 268 principle that making research freely available to the public supports
 269 a greater global exchange of knowledge.
 270
 271 \medskip
 272
 273 Copyrights of all the articles rest with the respective authors and
 274 published under the provisions of
 275 \href{http://www.creativecommons.org/licenses/by-sa/4.0/}{Creative Commons
 276 Attribution-ShareAlike 4.0} License.
 277
 278 \medskip
 279
 280 The electronic versions were generated from sources marked up in

```

281      \href{http://www.latex-project.org}{\LaTeX{}} in a computer running
282      \textsc{gnu/linux} operating system. \textsc{pdf} was typeset
283      using \href{http://tug.org/xetex/}{\XeTeX{}} from
284      \href{http://tug.org/texlive/}{\TeX Live}.
285      The base font used for Latin script and oldstyle numerals was
286      \href{http://www.gust.org.pl/projects/e-foundry/tex-gyre/pagella}{\TeX{}}
287      Gyre Pagella} developed by
288      \href{http://www.gust.org.pl}{\textsc{gust}}, the Polish
289      \TeX{} Users Group.
290  \end{minipage}
291  \endgroup
292
293  \pagecolor{white}
294  \normalcolor
295} % end \copyrightpage

```

2.13 The content of the back cover page

\coverlastpage

```

296 \long\def\coverlastpage{\newpage\parindent=0pt
297   \thispagestyle{empty}
298   \pagecolor{pagecolor}
299   \parskip=0pt
300   \mbox{}
301   \vfill
302   \par
303   \color{endscriptcolor}
304   \colorlet{urlcolor}{endurlcolor}
305   \rule[3pt]{\textwidth}{.2pt}
306   {\normalfont\scriptsize\raggedright Please write to
307     \href{mailto:wujastyk@ualberta.ca}
308     {\color{white}$\langle$wujastyk@ualberta.ca$\rangle$}
309     to file bugs/problem reports, feature requests and to get involved. \\
310     % \addfontfeature{LetterSpace=6}%
311     \href{http://hssa-journal.org}
312     {\color{white}The History of Science in South Asia}
313     \textbullet\
314     Department of History and Classics,
315     2--81 HM Tory Building, University of Alberta,
316     Edmonton, AB, T6G 2H4,
317     Canada.}%
318   \vspace*{-20pt}
319 }

```

2.14 Tweak captions → footnotesize

```
\@makecaption
320 % originally for Speciale
321 \long\def\@makecaption#1#2{%
322     \vskip\abovecaptionskip
323     \footnotesize % added footnotesize
324     \sbox\@tempboxa{#1: #2}%
325     \ifdim \wd\@tempboxa >\hsize
326     #1: #2\par
327     \else
328     \global \@minipagefalse
329     \hb@xt@\hsize{\hfil\box\@tempboxa\hfil}%
330     \fi
331     \vskip\belowcaptionskip}
```

2.15 Page layout dimensions

DW can this be superseded by the geometry package?

```
pagelayout
332 \renewcommand\topfraction{1}
333 \renewcommand\bottomfraction{.8}
334 \renewcommand\textfraction{0}
335 \renewcommand\floatpagefraction{.8} % 0.95 better ???
336 \renewcommand\dbltopfraction{1}
337 \renewcommand\dblfloatpagefraction{.8}
338 \renewcommand\topfraction{1}
339 \renewcommand\bottomfraction{.8}
340 \renewcommand\textfraction{0.1}
341 \renewcommand\floatpagefraction{0.95} % was 0.8 changed 1
```

2.16 Misc layout settings

```
342 \lefthyphenmin=3
343 \righthyphenmin=3
344 %\RequirePackage[hang]{footmisc}
345 %\setlength\footnotemargin{.8em}
346
347 %\geometry{footskip=42pt}
348
349 \RequirePackage{lettrine}
350 \RequirePackage[normalem]{ulem}
```

2.17 Journal-specific user-facing macros

HSSAspecialissuedetails Only for for guest-edited single-theme issues.

```

351 \def\HSSAspecialissuedetails#1{\gdef\@HSSAspecialissuedetails{#1}}
352 \HSSAspecialissuedetails{\empty }

```

\HSSAissuenum Provide user command \HSSAissuenum.

```

353 \def\HSSAissuenum#1{\gdef\@HSSAissuenum{#1}}
354 \HSSAissuenum{999}

```

\HSSAarticletitle Provide user command \HSSAarticletitle

```

355 \def\HSSAarticletitle#1{\gdef\@HSSAarticletitle{#1}\hypersetup{pdftitle=#1}}
356 \HSSAarticletitle{My Life}

```

Provide user command \HSSAauthorname

```

357 \def\HSSAauthorname#1{\gdef\@HSSAauthorname{#1}\hypersetup{pdfauthor=#1}}
358 \HSSAauthorname{Joe Bloggs}

```

Provide user command \HSSAissuedate

```

359 \def\HSSAissuedate#1{\gdef\@HSSAissuedate{#1}}
360 \HSSAissuedate{1900}

```

Provide user command \HSSAauthoraddress

```

361 \def\HSSAauthoraddress#1{\gdef\@HSSAauthoraddress{#1}}
362 \HSSAauthoraddress{Timbuktu}

```

Collect DOI info when ready and print it in covercitation Provide DOI when we have it.

```

363 \def\DOI#1{\gdef\@DOI{#1}}
364 \gdef\@DOI{\empty}
365 %%\newtoks\DOI
366 \newcommand{\printDOI}{\ifx\@DOI\empty\relax
367   \else
368     {\def\@urlcolor{Maroon!20}
369       \textsc{doi:} \href{https://doi.org/\@DOI}{\@DOI}.\fi }
370 }

```

Say \DOI{xxx}, and then later \printDOI where you want it printed.

\covercitation Gather the required information for the MLA cover citation and format it for output

```

371 \def\covercitation#1{\gdef\thecovercitation{#1}}
372 %
373 \covercitation{\@HSSAauthorname. "\@HSSAarticletitle."
374   \emph{\@HSSAtitle}, \@HSSAissuenum\ (\@HSSAissuedate):
375   \thefirstpage--\thelastpage. \printDOI }
376 %/DW

```

```
377 \def\fspace#1{\addfontfeature{LetterSpace=#1}}
```

2.18 Customizing the sectioning commands

\section

```
378 \setcounter{secnumdepth}{1}
379 \renewcommand\section{\@startsection {section}{1}{\z@}%
380     {-18\p@ \@plus 6\p@ \@minus 3\p@}%
381     {9\p@ \@plus 6\p@ \@minus 3\p@}%
382     {\normalfont\centering\fspace{10}\MakeUppercase}}
383 \renewcommand\subsection{\@startsection{subsection}{2}{\z@}%
384     {-15\p@ \@plus 6\p@ \@minus 3\p@}%
385     {6\p@ \@plus 6\p@ \@minus 3\p@}%
386     %           {\normalfont\footnotesize\fspace{10}\centering\MakeUppercase}}
387     {\normalfont\large\scshape\fspace{8}\centering\MakeLowercase}}
388 \renewcommand\subsubsection{\@startsection{subsubsection}{3}{\z@}%
389     {-15\p@ \@plus 6\p@ \@minus 3\p@}%
390     {\p@}%
391     {\normalfont\normalsize\itshape\centering}}
```

2.19 Collecting the page-number information

```
392 \def\HSSAfirstpage#1{\gdef\thefirstpage{#1}}
393 \def\HSSAlastpage#1{\gdef\thelastpage{#1}}
394 % Initialize the values:
395 \HSSAfirstpage{000}
396 \HSSAlastpage{999}
```

2.20 Creative Commons logo

```
397 \newbox\cclogobox
398 \global\setbox\cclogobox=\hbox{%
399     \includegraphics[width=10mm]{cc-by-sa.eps}}
```

2.21 Tweak tabular layout

```
400 \newcommand\arraybslash{\let\\\@arraycr}
401 \setlength\tabcolsep{1mm}
402 \renewcommand\arraystretch{1.3}
403 %\RequirePackage{xltextra} % comment out because it clashes with bidi and is
404 % loaded by polyglossia anyhow.
405 \emergencystretch=.1\columnwidth
```

2.22 Not used

Legacy code to be thought about and probably weeded out.

```

406 %\HSSAJournalAbbrev{Hist.~Sci.~South Asia}
407 \definecolor{bg}{HTML}{600000}
408 \colorlet{pagecolor}{bg}
409 \colorlet{urlcolor}{black!50}
410 \colorlet{endurlcolor}{pagecolor!30}
411 \colorlet{linkcolor}{black!50}
412 \colorlet{endscriptcolor}{pagecolor!20}

```

2.23 PDF metadata

Commented out because it interferes with other stuff.

```

413 % \pdfstringdef{\@temppdftitle}{\@HSSAarticletitle}
414 % \pdfstringdef{\@temppdfauthor}{\@HSSAauthorname}
415 % \pdfinfo{
416 %     % copying out title because of macro expansion problems
417 %         /Title (\@temppdftitle)
418 %         /Author (\@temppdfauthor)
419 %         /Keywords (DOI: https://doi.org/\@DOI)
420 %     }
421 %}

```

The pdfx package clashes with using \hypersetup to embed XMP data.
Commented out.

```

422 %\usepackage[a-1b]{pdfx} % get an archival PDF
423 % optionally, create a file \jobname.xmpdata with \Author{} \Title{} \Copyright{}
424 % \CopyrightURL{} \Keywords{}

```

2.24 Hypertext links

\hypersetup Settings for hypertext links, used by hyperref. These settings also include hyperxmp settings to embed XMP metadata in the PDF. The \@ macros don't expand at the right time. A problem for another day. In any case, hyperxmp seems to get more or less the right data from \author etc.

```

425 \hypersetup{colorlinks=true,
426     bookmarksopen=false,
427     pdfpagescrop={39 62 554 759},
428     % now hyperxmp settings:
429 %     pdfauthor={\@HSSAauthorname},
430 %     pdftitle={\@HSSAarticletitle},
431 %     pdfcopyright={\copyright\ The Author},
432 %     pdfdoi={\@DOI },
433 %     pdfurl={https://doi.org/\@DOI},
434 %     pdfissn={2369-775X},
435 %     pdflicenseurl={https://creativecommons.org/licenses/by-sa/4.0/},

```

```

436 pdfpublication={History of Science in South Asia},
437 pdfcaptionwriter={Dominik Wujastyk},
438 pdfurl={https://journals.library.ualberta.ca/hssa/},
439 pdfpublisher={University of Alberta Library},
440 pdfpubtype={journal},
441 pdfpubstatus={VoR}, % Version of Record
442 }

```

2.25 Simple indented, environment for Sanskrit verses

`\beginsloka`

```

443 %\newenvironment{sloka}
444 % {\list{}{\rightmargin\leftmargin}%
445 %   \item\relax}
446 %{\endlist}
447 %
448 \newenvironment{sloka} % tweaked from verse
449 {\let\\\@centercr
450   \parindent 1em
451   \leavevmode \hskip-.03em
452   %   \rightmargin \leftmargin
453   %   \advance \leftmargin 10em
454   %   \advance\leftskip 2em
455   %   \advance\rightskip 2em
456   %\narrower
457 }
458 {\relax }

```

2.26 Diatop

`\diatop` `\diatop`, used for r underdot overbar (\bar{r} , F6, 246) See Conference Proceedings, *TeXniques* no. 5, p. 11.

```

459 \def\diatop[#1|#2]{\leavevmode{\setbox1=\hbox{{#1}}}\setbox2=\hbox{{#2}}}%
460 \dimen0=\ifdim\wd1>\wd2\wd1\else\wd2\fi%
461 \dimen1=\ht2\advance\dimen1by-1ex%
462 \setbox1=\hbox to1\dimen0{\hss#1\hss}%
463 \rlap{\raise1\dimen1\box1}%
464 \hbox to1\dimen0{\hss#2\hss}}%

```

E.g. of use: `\diatop[\ ' |{\=o}]` gives o macron acute.

2.26.1 Unknown

Again, what's this? "get rid of the alphabetic headers"?


```
465 \newcommand{\lettergroup}[1]{\smallskip }
```

2.27 Mini edition environment

miniedition Documented at [the Cikitsā blog](#).

First make a hanging footnote setup to use for these minipage notes:

```
466 % nice hanging-indent footnotes. LaTeX Companion, p.73:
467 \def\hangfootnotes{%
468     \renewcommand{\@makefnmark}[1]{\setlength{\parindent}{0pt}%
469         \begin{list}{}{\setlength{\labelwidth}{1.5em}%
470             \setlength{\leftmargin}{\labelwidth}%
471             \setlength{\labelsep}{3pt}\setlength{\itemsep}{0pt}%
472             \setlength{\parsep}{0pt}\setlength{\topsep}{0pt}%
473             \footnotesize}\item[\hfill\@makefnmark]##1%
474         \end{list}}%
475 }

476 \newenvironment{miniedition}
477     {\begin{quote}
478         \addtolength{\textwidth}{-2\rightmargin} % width of the quote environment
479         \begin{minipage}{\textwidth}
480             \let\footnoterule\relax % if you want a rule, comment out this line.
481             \hangfootnotes
482             % \let\footnote\originalfootnote
483         }
484     {\end{minipage}
485     \end{quote}
486 }
```

Resetting `\footnote` to `\originalfootnote` is no longer needed. Standard non-reledmac L^AT_EX footnotes are now restored by the `\@minipagerestore` hook in the file `hssa-reledmac.sty`.

2.28 Index of Manuscripts

`\MScite` The command `\MScite` is defined in `hssa-indexing-xindy.sty` that is loaded earlier in this file.

Usage:

```
\MScite{City Library Accession no.}
\MScite{London Wellcome Indic alpha 23}
\printindex[manuscripts]
```

3 hssa.sty: HSSA main style file

This code is in the file `hssa.sty`. Style file for the HSSA journal.² Here in `hssa.sty`, I'm keeping the code that is not part of the core of HSSA's design, including calls to other style files that might or might not be included for different articles.

3.1 Load basic macros for reledmac (footnote cols)

```
487 \usepackage{hssa-reledmac} % journal home style, two-col footnotes
```

Note: we don't load `hssa-biblatex` here because it is already loaded in `hssa.cls`; it's a permanent feature of HSSA.

3.2 Languages and fonts, Polyglossia-style

3.2.1 British English, Greek, Sanskrit

```
488 \setdefaultlanguage[variant=british]{english}
489 %\setotherlanguage{japanese} % still experimental in Polyglossia
490 \setotherlanguage{greek}
491 \setotherlanguage{sanskrit}
```

3.2.2 T_EX Gyre Pagella, the default roman font for HSSA

```
492 \setmainfont[Ligatures=TeX,
493 Mapping=tex-text,
494 Numbers=OldStyle]{TeX Gyre Pagella}
495 %\setmainfont[Scale=1.05]{Alegreya} % quite nice; superscripts not smaller
496 %\setmainfont{Libertinus Serif} % looks good; does math
```

3.2.3 Sanskrit input in Devanagari script

```
497 \newfontfamily\sanskritfont[Script=Devanagari,
498 %Mapping=RomDev,
499 FakeStretch=1.08, % improves Sanskrit 2003
500 AutoFakeBold=1.5,
501 ]
502 {Sanskrit 2003}
503 % {Murty Sanskrit}
504 \let\dn\sanskritfont %for legacy Velthuis-encoded documents
```

3.2.4 Sanskrit input in IAST script, output in Devanagari

```
505 % Sanskrit input in IAST
```

²See <http://tug.org/pracjourn/2005-3/asknelly/> for a nice statement of the difference between `.cls` and `.sty` files.

```

506 \newfontfamily\devanagarifont[Script=Devanagari,
507 Mapping=RomDev,
508 FakeStretch=1.08, % improves Sanskrit 2003
509 AutoFakeBold=2.5,
510 ]
511 % {Murty Sanskrit}
512 {Sanskrit 2003}
513 \newcommand{\dev}[1]{\devanagarifont#1}}
514 %\newcommand{\dev}[1]{\textdevanagari{#1}}
515 \newcommand{\largesloka}[1]{\raggedright \devanagarifont\large #1\par}}

```

3.2.5 Chinese

```

516 \newfontfamily\cjk[Script=CJK,Mapping=tex-text,Scale=MatchLowercase]
517 %\IPAexMincho % missing
518 %\TakaoPGothic}
519 {Yu Mincho}
520 %

```

3.2.6 Greek font

```

521 % Greek
522 \newfontfamily\greekfont{Gentium Plus}[Script=Greek,
523 Mapping=tex-text,
524 Scale=MatchUppercase]
525 %
526 %\Old Standard}
527 %\GFS Porson}
528 %\GFS Didot}
529 %\Galatia SIL}
530 %\Linux Libertine O}

```

See [Stackexchange about Greek fonts](#).

3.3 Local generic author-facing macros

```

\bce
\ce 531 \def\bce{\textsc{bce}} % I took out the final \xspace
\BCE 532 % because it's behaviour is hard to predict - DW
\CE 533 \def\ce{\textsc{ce}} % ditto.
534 \let\BC\bce \let\BCE\bce \let\AD\ce \let\CE\ce

```

3.4 Math mode with Unicode fonts

```

535 \usepackage{unicode-math} % must load after amsmath; see manual ch. 3
536 %\setmathfont{texgyreagella-math.otf} % doesn't have old style numerals.
537 \setmathfont{Asana Math}[Numbers=OldStyle]

```

4 hssa-reledmac.sty: critical edition and footnote column macros

This code is in the file `hssa-reledmac.sty`.

4.1 Two-column footnote formatting

With help from [EDMAC](#) and [Stackexchange](#).

```
538 \usepackage[nocritical,
539     noend,
540     %noeledsec,
541     %noledgroup,
542     series={A,B}]{reledmac}
543 \usepackage{setspace}
544 %\let\footnoteruleA=\relax % do we want a footnoterule?
545 \def\thempfootnote{{\itshape\@alph\c@mpfootnote}} % from latex.ltx
546 \arrangementX[A]{twocol}
547 \arrangementX[B]{twocol} % for occasional use in the \verb|miniedition| environment
548 \colalignX{\relax } % looks better. But should we optimize narrow columns
549 %by going \verb"\raggedright"?
550 \beforenotesX{2em plus 1.5em minus 1.5em} % spacing above notes
551 \renewcommand*{\normalfootfootmarkX}[1]{%
552     \@nameuse{@thefnmark#1}\hspace*{.5em}}
```

`\footnote` `\footnote` is not going to be the standard L^AT_EX footnote. So store the standard version. Then restore the standard `\footnote` when inside minipage environment.

Finally, make the command `\footnote` into the `reledmac` two-column command.

```
553 \let\originalfootnote=\footnote % store this for use in minipages
554 \def\@minipagerestore{\let\footnote\originalfootnote} % restore standard \footnote
555 % Now change \verb"\footnote" to the reledmac version:
556 \let\footnote=\footnoteA
```

[Stackexchange help](#). Commented out, but useful in some tight situations:

```
557 % \usepackage{microtype}
```

5 hssa-biblatex.sty: Bib \LaTeX settings for HSSA

This code is in the file `hssa-biblatex.sty`.

5.1 Manuscript-oriented Bib \LaTeX macros

We don't need this at present. It's only here as a place-keeper, as a starting point in case we have a document that requires lots of specialized bibliographies for manuscripts, e.g., perhaps a manuscript catalogue.

```
558 % \usepackage[%  
559 % tools={manuscripts},  
560 % bibstyle={authoryear},  
561 % ]{biblatex-multiple-dm} % for biblatex-manuscripts-philology
```

5.2 Load Biblatex

Here are the macros for our bibliographies. HSSA uses *New Hart's Rules* (Oxford University Press, 2014) as its formatting style guide. These Rules are comprehensively implemented for Bib \LaTeX through the `oxref` and `oxyear` packages. See also section 5.3 below.

```
562 \usepackage[%  
563 backend=biber,  
564 %bibstyle=multiple-dm, % for biblatex-manuscripts-philology  
565 % oxref:  
566 style=oxyear,  
567 dashed=true,  
568 usetranslator=true,% see oxref documentation para 2.1.10  
569 %ibidtracker=constrict,  
570 %ibidpage=false,  
571 %pagetracker=page,  
572 %idemtracker=constrict,  
573 sorting=ynt,
```

(on `ynt`, see [Cikitsā blog post](#).)

```
574 sortcites=true,  
575 backref=false,  
576 date=comp,  
577 datecirca=true,  
578 dateuncertain=true,  
579 bibencoding=auto,  
580 hyperref=auto,  
581 isbn=true,  
582 doi=true,
```

```

583 language=auto,
584 natbib=true,
585 texencoding=auto,
586 url=true,
587 urldate=short,
588 useprefix=true,
589 %refsection=section,
590 giveninits=false,
591 maxbibnames=10]{biblatex}

```

5.3 Settings for oxyear

```

592 \ExecuteBibliographyOptions[% for biblatex-oxyear
593 book,
594 mvbook,
595 mvcollection,
596 inbook,
597 incollection,
598 inreference,
599 collection,
600 reference,
601 mvreference]{useeditor=true,usetranslator=true}
602 \AtBeginDocument{\assignrefcontextentries[]{*}}

```

See [Cikitsā blog post](#) for further explanation of the above.

5.4 Bibliography punctuation

Following sections 3.10 and 4.7.5 of the Bib_{La}T_EX manual, put the comma *inside* the quotation marks of the title.

```

603 \DefineBibliographyExtras{british}{\DeclareQuotePunctuation{.,}}

```

5.5 Bibliography sorting

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

```

604 \renewrobustcmd*{\printbibliography}{%
605   \newrefcontext[sorting=nyt] % added this line
606   \begingroup
607   \delimcontext{bib}%
608   \edef\on@line{\on@line}%
609   \@ifnextchar[%

```

```

610     {\blx@printbibliography}
611     {\blx@printbibliography[]}
612 }

```

5.6 Positioning of the notes

To make bibtex notes print last, like addendums from [Stackexchange](#).

```

613 \DeclareSourceMap{
614     \maps[datatype=bibtex]{
615         \map{
616             \step[fieldsource=note, final]
617             \step[fieldset=addendum, origfieldval, final]
618             \step[fieldset=note, null]
619         }
620     }
621 }

```

5.7 csquotes

The american option with csquotes gives double quotes in article titles in the bibliography.

```

622 \usepackage[style=american]{csquotes}

```

5.8 Tweak the citation style

Remove the “p.” and “pp.” from, for example, \volcite :

```

623 \DefineBibliographyStrings{english}{%
624     page          = {},
625     pages         = {},
626     volume = {vol},
627     volumes = {vols},
628 }

```

5.9 Unused code

Biblatex documentation 4.11. and macros from biblatex.def Enable hot URLs for PDFs at Archive.org and Academia.edu etc.

Make URLs smaller:

```

629 %\DeclareFieldFormat{url}{\textsc{url:} {\small \href{#1}{\nolinkurl{#1}}}}
630 %\DeclareFieldFormat{doi}{\textsc{doi:} {\small \href{#1}{\nolinkurl{#1}}}}

```

5.10 URL formatting in the bibliography

5.10.1 Buddhist Digital Resource Center

```
631 \DeclareFieldFormat{eprint:tbrc}{%
632   \textsc{TBRC}\space
633   \ifhyperref
634     {\href{https://www.tbrc.org/\#!rid=#1}{\nolinkurl{#1}}}
635 {\nolinkurl{#1}}}
```

5.10.2 ARK

```
636 \DeclareFieldFormat{eprint:ark}{%
637 \textsc{ark:}\space
638 \ifhyperref
639 {\href{https://n2t.net/#1}{\nolinkurl{#1}}}
640 {\nolinkurl{#1}}}
```

5.10.3 Archive.org

```
641 \DeclareFieldFormat{eprint:archive}{%
642 Internet Archive\addcolon\space
643 \ifhyperref
644 {\href{http://archive.org/details/#1}{\nolinkurl{#1}}}
645 {\nolinkurl{#1}}}
646 \DeclareFieldAlias{eprint:archiveorg}{eprint:archive}
```

5.10.4 Academia.edu

```
647 \DeclareFieldFormat{eprint:academia}{%
648 Academia.edu\addcolon\space
649 \ifhyperref
650 {\href{http://www.academia.edu/#1}{\nolinkurl{#1}}}
651 {\nolinkurl{#1}}}
652 \DeclareFieldAlias{eprint:academia.edu}{eprint:academia}
```

5.10.5 JSTOR

```
653 \DeclareFieldFormat{eprint:jstor}{%
654   \ifhyperref
655     {\href{http://www.jstor.org/stable/#1}{\small JSTOR}}}
656     {\nolinkurl{#1}}}
```

5.10.6 Jainelibrary

```
657 \DeclareFieldFormat{eprint:jainlibrary}{%
658 Jain eLibrary\addcolon\space
659 \ifhyperrefsloka
660 {\href{http://www.jainlibrary.org/book.php?file=#1}{\nolinkurl{#1}}}
```



```
661 {\nolinkurl{#1}}
```

5.10.7 DOI

```
662 \DeclareFieldFormat{doi}{%
663   \textsc{doi}\addcolon\space
664   \ifhyperref
665     {\href{https://doi.org/#1}{\nolinkurl{#1}}}
666     {\nolinkurl{#1}}}
```

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

```
667 \DeclareFieldFormat{postnote}{#1}
668 \renewcommand{\postnotedelim}{: \,}
669 \renewcommand{\nameyear delim}{ }
```

5.12 “Forthcoming” hacks

Biblatex hacks to get pubstate (“forthcoming” etc.) behaving as it should
Biblatex manual 4.5.10

```
670 \DeclareLabeldate{%
671   \field{date}
672   \field{year}
673   \field{pubstate}
674   \field{eventdate}
675   \field{origdate}
676   \field{urldate}
677   \literal{nodate}
678 }
```

5.13 Tighten up URL date

```
679 \DeclareFieldFormat{urldate}{%
680   (on
681   \thefield{urlday}\addspace%
682   \mkbibmonth{\thefield{urlmonth}}\addspace%
683   \thefield{urlyear})\isdot}
```

5.14 Hyperlink magic

Some magic from “moewe” at [Stackexchange](#) that makes hyperlinks work from citations to a list of abbreviations.

```
684 \DeclareFieldFormat{shorthandwidth}{%
685   \bibhypertarget{shorthand:\thefield{entrykey}}
686   {#1}}
687
688 \DeclareFieldFormat{bibhyperref}{%
```

```

689 \iffielddundef{shorthand}
690 {\bibhyperref{#1}}
691 {\bibhyperlink{shorthand:\thefield{entrykey}}{#1}}

```

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

```

692 \renewcommand{\blx@ox@compyear}[2]{%
693   \def\num@one{#1}%
694   \def\num@two{#2}%
695   \StrLen{\num@one}[\num@one@len]%
696   \StrLen{\num@two}[\num@two@len]%
697   \ifboolexpr{
698     test {\ifnumequal{\num@one@len}{\num@two@len}}
699     and
700     test {\ifnumless{\num@one}{\num@two}}
701   }{%
702     \StrCompare{\num@one}{\num@two}[\Result]%
703     \ifnum\num@two@len>3%
704     \IfStrEq{\Result}{2}{\def\Result{1}}{}%
705     \fi
706     %% Extend the legal date compression behaviour to all entries
707     \IfStrEq{\Result}{4}{\def\Result{3}}{}%
708     %% End of changes
709     \StrGobbleLeft{0\num@two}{\Result}%
710   }{\num@two}}

```

TeX stops reading here.

6 hssa-indexing-xindy.sty: indexing for HSSA

This code is in the file hssa-indexing-xindy.sty.

indextools Now (2023) see the package indextools by Maïeule Rouquette (<https://github.com/maieul/indextools>) that patches imakeidx to work with bidi.

```
711 % \usepackage[xindy,nonewpage]{imakeidx} % imakeidx deprecated since
712 % indextools
713 \usepackage[xindy,nonewpage]{indextools}
```

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>

7 Indexes

lexical

```
714 \makeindex[name=lexical,
715 title=Lexical Index,
716 program=texindy,
717 options =--input-markup xelatex -M iast.xdy -L general,
718 %options = --input-markup xelatex -M de-accent
719 ]
720 %
721 \makeindex[name=manuscripts,
722 title=Index of Manuscripts,
723 program=texindy,
724 options =--input-markup xelatex -M iast.xdy -L general,
725 %options = --input-markup xelatex -M de-accent
726 columns=2]
727
728 \indexsetup{level=\section*,
729   noclearpage,
730   firstpagestyle=fancy
731 }
```

8 User commands for easy indexing

These are end-user commands for “sanskrit-english” and “silent-sanskrit-english” macros that facilitate saying things like `\saneng{cakra}{wheel}` and auto-building indexes from that.

```

\saneng
\ssaneng 732 \newcommand{\saneng}[2]
          733 % #1 = Sanskrit
          734 % #2 = English
          735 {#2 (\sansk{#1})%
          736   %%{\def\tuck{\kern -.175em }%
          737   %% \def\loweramount{.6ex }%
          738   %% \leavevmode
          739   %% \lower\loweramount
          740   %% \hbox{\tiny $\llcorner$}\tuck #2 (\sansk{#1})%
          741   %% \raise\loweramount
          742   %% \hbox{\tuck \tiny $\urcorner$}%
          743   % and now make the index entries:
          744   % \index[lex]{\sansk{#1}!#2@#2}%
          745   % \index[lex]{#2@#2!\sansk{#1}}}%
          746   \index[lexical]{#2!#1@\emph{#1}}}%
          747   \index[lexical]{#1@\emph{#1}!#2}}
          748
          749 \providecommand{\ssaneng}[2]% silent index entry
          750 % #1 = Sanskrit
          751 % #2 = English
          752 {%#2 (\sansk{#1})%
          753   %%{\def\tuck{\kern -.175em }%
          754   %% \def\loweramount{.6ex }%
          755   %% \leavevmode
          756   %% \lower\loweramount
          757   %% \hbox{\tiny $\llcorner$}\tuck #2 (\sansk{#1})%
          758   %% \raise\loweramount
          759   %% \hbox{\tuck \tiny $\urcorner$}%
          760   % and now make the index entries:
          761   % \index[lex]{\sansk{#1}!#2@#2}%
          762   % \index[lex]{#2@#2!\sansk{#1}}}%
          763   \index[lexical]{#2!#1@\emph{#1}}}%
          764   \index[lexical]{#1@\emph{#1}!#2}}

```

Older code, using index.sty:

9 Lexical index, for inclusion in engsan or saneng

```

\@idxitem
765 %\usepackage{index,amssymb}
766 %\newindex{lex}{ldx}{lnd}{Lexical Index}
767 \renewcommand\@idxitem{\par\hangindent 15\p@ }% from sanmed.sty
768 %\newcommand\skt[2]{#1%\footnote{#1: Skt. \emph{#2}}}%

```

```

769%% #1 = English
770%% #2 = Sanskrit
771%% next lines experimental
772% \index[skt]{#1!#2@\emph{#2}}%
773% \index[skt]{#2@\emph{#2}!#1}}

```

10 Test version of saneng that puts tick marks around the indexed words

```

\saneng
774%\newcommand{\saneng}[2]
775%% #1 = Sanskrit
776%% #2 = English
777%\def\tuck{\kern -.175em }%
778% \def\loweramount{.6ex }%
779% \leavevmode
780% \lower\loweramount
781% \hbox{\tiny $\llcorner$}\tuck #2 (\sansk{#1})%
782% \raise\loweramount
783% \hbox{\tuck \tiny $\urcorner$}%
784%% and now make the index entries:
785%% \index[lex]{\sansk{#1}!#2@#2}%
786%% \index[lex]{#2@#2!\sansk{#1}}%
787% \index[lex]{#2!#1@\emph{#1}}%
788% \index[lex]{#1@\emph{#1}!#2}}

```

11 Index of manuscripts, old version for index.sty

```

\MS
\MSsilent 789%\newindex{mex}{mdx}{mnd}{Index of Manuscripts}
790%\newcommand{\MS}[1]{MS #1\index[mex]{#1}}
791%\newcommand{\MSsilent}[1]{\index[mex]{#1}}
792
793%new version with imakeidx:
794%\newcommand{\MS}[1]{MS #1\index[manuscripts]{#1}}
795% \let\MScite=\MS
796%\newcommand{\MSsilent}[1]{\index[manuscripts]{#1}}
797% \let\MSnocite=\MSsilent

```

Index

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