

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

Dominik Wujastyk

August 12, 2023

Contents

| | | |
|----------|--|-----------|
| 1 | Documentation for authors using L^AT_EX | 4 |
| 2 | Documentation for L^AT_EX hackers converting incoming files to HSSA | 5 |
| 2.1 | Prelims | 5 |
| 2.1.1 | Metadata | 5 |
| 2.2 | HSSA user macros | 5 |
| 2.2.1 | AD, BC, etc. | 6 |
| 2.2.2 | Environments for ślokas and mini-editions | 6 |
| 2.2.3 | Citing manuscripts | 6 |
| 2.2.4 | Making a lexical index | 7 |
| 2.2.5 | Language-switching | 7 |
| 2.2.6 | Citation commands | 7 |
| 2.2.7 | Bibliography and index outputs | 7 |
| 2.2.8 | Miscellaneous | 8 |
| 2.2.9 | Rotating pages for big tables and figures | 8 |
| 2.3 | Standard L ^A T _E X sectioning and similar commands | 9 |
| 2.4 | What you get for nothing | 9 |
| 3 | Macros in the class file for the HSSA journal: hssa.cls | 10 |
| 3.1 | Set the geometry for the pages | 11 |
| 3.2 | Front matter | 12 |
| 3.3 | Running headers and footers | 12 |
| 3.4 | Fancy headers and footers | 13 |

| | | |
|----------|--|-----------|
| 3.5 | Fancy-plus-DOI style | 13 |
| 3.6 | Link colours | 14 |
| 3.7 | Output the preliminary matter | 14 |
| 3.8 | Output the final pages that come after the article | 15 |
| 3.9 | Arrange the appendix | 15 |
| 3.10 | Set up the alignment and fonts of title and author names | 15 |
| 3.11 | The content of the cover page | 16 |
| 3.12 | The the content of the copyright page | 17 |
| 3.13 | The content of the back cover page | 19 |
| 3.14 | Tweak captions → footnotesize | 20 |
| 3.15 | Page layout dimensions | 20 |
| 3.16 | Misc layout settings | 20 |
| 3.17 | Journal-specific user-facing macros | 21 |
| 3.18 | Customizing the sectioning commands | 22 |
| 3.19 | Collecting the page-number information | 22 |
| 3.20 | Creative Commons logo | 22 |
| 3.21 | Tweak tabular layout | 22 |
| 3.22 | Not used | 23 |
| 3.23 | PDF metadata | 23 |
| 3.24 | Hypertext links | 23 |
| 3.25 | Simple indented, environment for Sanskrit verses | 24 |
| 3.26 | Diatop | 24 |
| 3.26.1 | Unknown | 25 |
| 3.27 | Mini edition environment | 25 |
| 3.28 | Index of Manuscripts | 26 |
| 4 | Style file for HSSA journal: hssa.sty | 27 |
| 4.1 | Load basic macros for reledmac (footnote cols) | 27 |
| 4.2 | Set up the langages and fonts, Polyglossia-style | 27 |
| 4.2.1 | British English, Greek, Sanskrit | 27 |
| 4.2.2 | T _E X Gyre Pagella, the default roman font for HSSA | 27 |
| 4.2.3 | Sanskrit input in Devanagari script | 27 |
| 4.2.4 | Sanskrit input in IAST script, output in Devanagari | 27 |
| 4.2.5 | Chinese | 28 |
| 4.2.6 | Greek font | 28 |
| 4.3 | Local generic author-facing macros | 28 |
| 4.4 | Math mode with Unicode fonts | 28 |
| 4.5 | Two-column footnote formatting | 29 |

| | | |
|----------|--|-----------|
| 5 | Biblatex settings for HSSA | 30 |
| 5.1 | Load Biblatex | 30 |
| 5.2 | Settings for oyear | 31 |
| 5.3 | Bibliography punctuation | 31 |
| 5.4 | Bibliography sorting | 31 |
| 5.5 | Positioning of the notes | 31 |
| 5.6 | csquotes | 32 |
| 5.7 | Tweak the citation style | 32 |
| 5.8 | Unused code | 32 |
| 5.9 | URL formatting in the bibliography | 32 |
| 5.9.1 | Buddhist Digital Resource Center | 32 |
| 5.9.2 | ARK | 32 |
| 5.9.3 | Archive.org | 33 |
| 5.9.4 | Academia.edu | 33 |
| 5.9.5 | Digital Library of India | 33 |
| 5.9.6 | JSTOR | 33 |
| 5.9.7 | Jainelibrary | 33 |
| 5.9.8 | DOI | 33 |
| 5.10 | Tweaks to make the citation form:- Author date: page | 34 |
| 5.11 | "Forthcoming" hacks | 34 |
| 5.12 | Tighten up URL date | 34 |
| 5.13 | Hyperlink magic | 34 |
| 6 | Indexing for HSSA | 36 |
| 6.1 | English-Sanskrit indexes | 36 |
| 7 | Commands for citing and indexing manuscripts | 37 |
| | Index of macro definitions | 38 |

1 Documentation for authors using L^AT_EX

If you are writing with L^AT_EX please observe the following guidelines:

- Use Unicode encoding for your files (i.e., for XeL^AT_EX or LuaT_EX)
- Use the standard features of L^AT_EX as documented in the standard manual, *L^AT_EX: A Document Preparation System* by Leslie Lamport, or in *The Very Short Guide to Typesetting with L^AT_EX* by Peter Flynn and Silmaril Consultants (part of the T_EXlive 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 BibT_EX format. The journal uses BibL^AT_EX, 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](#).

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

2.1 Prelims

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

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

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

2.1.1 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}
```

2.2 HSSA user macros

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

2.2.1 AD, BC, etc.

`\CE` There are shortcuts for expressing the eras CE and BCE. These macros also
`\BCE` 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`.

2.2.2 Environments for ślokas and mini-editions

`miniedition (env.)` 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.

2.2.3 Citing manuscripts

`\MScite` 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`.

2.2.4 Making a lexical index

`\saneng` 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.

2.2.5 Language-switching

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

`\textenglish` 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.

2.2.6 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.

2.2.7 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
```

2.2.8 Miscellaneous

`\diatop` Puts more than one accent over a letter. This isn't available in standard \LaTeX , but we philologists sometimes need it. Say, for example, `\diatop[\text{'}\{ö\}]` to get \ddot{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."

2.2.9 Rotating pages for big tables and figures

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

2.3 Standard L^AT_EX sectioning and similar commands

`\section` 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  
%% ...
```

2.4 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.

3 Macros in the class file for the HSSA journal: hssa.cls

This is `hssa.cls` by Dominik Wujastyk, a class file for the HSSA journal.

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

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` Declare that we are using the main L^AT_EX2e format.

```
1 \NeedsTeXFormat{LaTeX2e}
```

`\LoadClass` 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} % has to be loaded before hyperref
4 \RequirePackage{ %
5   graphicx,
6   amsmath,
7   amsfons,
8   amssymb,
9   textcomp, % arcane LaTeX/NFSS system for subsetting encodings. Needed for Sigma.
10  wasysym,
11  polyglossia,
12  hyperxmp, % to embed XMP metadata in the PDF
13  hyperref,
14  geometry,
15  array,
16  longtable,
17  polyglossia, % polyglossia calls fontspec
18  multicol,
19  booktabs, % better table spacing, \toprule etc.
20  textcase, % to get \MakeTextLowercase for tweaking the running footer
21  fancyhdr
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=tiny,
38 loadshadowlibrary,
39 shadow,
40 backgroundcolor=yellow]{todonotes}
41 \setuptodonotes{fancyline}
42 %
43 \newcommand{\q}[1]{{}\todo{#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 ?

```

3.1 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 }

```

3.2 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 }

```

3.3 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}
```

3.4 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[CO]{\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}
```

3.5 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 }

```

3.6 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/
```

3.7 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}.`

3.8 Output the final pages that come after the article

`\AtEndDocument`

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

3.9 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}
```

3.10 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

```

3.11 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 coverpage

```

3.12 The the content of the copyright page

\copyrightspage

```

208 \long\def\copyrightspage{%
209     \begingroup
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 \leftmargini=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

```

3.13 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 }

```

3.14 Tweak captions → footnotesize

\@makecaption

```

320 % originally for Speziale
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}

```

3.15 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

```

3.16 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}

```

3.17 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}}

```

3.18 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}}

```

3.19 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}

```

3.20 Creative Commons logo

```

397 \newbox\cclogobox
398 \global\setbox\cclogobox=\hbox{%
399   \includegraphics[width=10mm]{/home/dom/Dropbox/localtexmf/tex/HSSA/cc-by-sa.eps}}

```

3.21 Tweak tabular layout

```

400 \newcommand\arraybslash{\let\\\@arraycr}
401 \setlength\tabcolsep{1mm}
402 \renewcommand\arraystretch{1.3}

403 \RequirePackage{xltextra}
404 \emergencystretch=.1\columnwidth

```

3.22 Not used

Legacy code to be thought about and probably weeded out.

```

405 %\HSSAJournalAbbrev{Hist.~Sci.~South Asia}
406 \definecolor{bg}{HTML}{600000}
407 \colorlet{pagecolor}{bg}
408 \colorlet{urlcolor}{black!50}
409 \colorlet{endurlcolor}{pagecolor!30}
410 \colorlet{linkcolor}{black!50}
411 \colorlet{endscriptcolor}{pagecolor!20}

```

3.23 PDF metadata

Commented out because it interferes with other stuff.

```

412 % \pdfstringdef{\@temppdftitle}{\@HSSAarticletitle}
413 % \pdfstringdef{\@temppdfauthor}{\@HSSAauthorname}
414 % \pdfinfo{
415 %     % copying out title because of macro expansion problems
416 %     /Title (\@temppdftitle)
417 %     /Author (\@temppdfauthor)
418 %     /Keywords (DOI: https://doi.org/\@DOI)
419 % }
420 %}

```

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

```

421 %\usepackage[a-1b]{pdfx} % get an archival PDF
422 % optionally, create a file \jobname.xmpdata with \Author{} \Title{} \Copyright{}
423 % \CopyrightURL{} \Keywords{}

```

3.24 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.

```

424 \hypersetup{colorlinks=true,

```

```

425     bookmarksopen=false,
426     pdfpagescrop={39 62 554 759},
427     % now hyperxmp settings:
428 %     pdfauthor={\@HSSAauthorname},
429 %     pdftitle={\@HSSAarticletitle},
430     pdfcopyright={\copyright\ The Author},
431 %     pdfdoi={\@DOI },
432 %     pdfurl={https://doi.org/\@DOI},
433     pdfissn={2369-775X},
434     pdflicenseurl={https://creativecommons.org/licenses/by-sa/4.0/},
435     pdfpublication={History of Science in South Asia},
436     pdfcaptionwriter={Dominik Wujastyk},
437     pdfurl={https://journals.library.ualberta.ca/hssa/},
438     pdfpublisher={University of Alberta Library},
439     pdfpubtype={journal},
440     pdfpubstatus={VoR}, % Version of Record
441 }

```

3.25 Simple indented, environment for Sanskrit verses

```

\beginsloka
442 %\newenvironment{sloka}
443 % {\list{}{\rightmargin\leftmargin}%
444 %     \item\relax}
445 %{\endlist}
446 %
447 \newenvironment{sloka} % tweaked from verse
448 {\let\\\@centercr
449     \parindent 1em
450     \leavevmode \hskip-.03em
451     %     \rightmargin \leftmargin
452     %     \advance \leftmargin 10em
453     %     \advance\leftskip 2em
454     %     \advance\rightskip 2em
455     %\narrower
456 }
457 {\relax }

```

3.26 Diatop

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

```

458     \def\diatop[#1|#2]{\leavevmode{\setbox1=\hbox{\{#1\}}\setbox2=\hbox{\{#2\}}}%
459         \dimen0=\ifdim\wd1>\wd2\wd1\else\wd2\fi%

```



```

460      \dimen1=\ht2\advance\dimen1by-1ex%
461      \setbox1=\hbox to1\dimen0{\hss#1\hss}%
462      \rlap{\raise1\dimen1\box1}%
463      \hbox to1\dimen0{\hss#2\hss}}}%

```

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

3.26.1 Unknown

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

```

464      \newcommand{\lettergroup}[1]{\smallskip }

```

3.27 Mini edition environment

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

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

```

465 % nice hanging-indent footnotes. LaTeX Companion, p.73:
466 \def\hangfootnotes{%
467     \renewcommand{\@makefnmark}[1]{\setlength{\parindent}{0pt}%
468         \begin{list}{}{\setlength{\labelwidth}{1.5em}%
469             \setlength{\leftmargin}{\labelwidth}%
470             \setlength{\labelsep}{3pt}\setlength{\itemsep}{0pt}%
471             \setlength{\parsep}{0pt}\setlength{\topsep}{0pt}%
472             \footnotesize\item[\hfill\@makefnmark]##1%
473         \end{list}}}%
474 }

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

```

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`.

3.28 Index of Manuscripts

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

Usage:

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

4 Style file for HSSA journal: hssa.sty

Style file for the HSSA journal.¹ 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.

4.1 Load basic macros for reledmac (footnote cols)

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

We don't load hssa-biblatex as an option here because it is already loaded in hssa.cls; it's a permanent feature of HSSA.

4.2 Set up the languages and fonts, Polyglossia-style

4.2.1 British English, Greek, Sanskrit

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

4.2.2 T_EX Gyre Pagella, the default roman font for HSSA

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

4.2.3 Sanskrit input in Devanagari script

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

4.2.4 Sanskrit input in IAST script, output in Devanagari

```
504 % Sanskrit input in IAST
505 \newfontfamily\devanagarifont[Script=Devanagari,
506 Mapping=RomDev,
```

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

```

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

```

4.2.5 Chinese

```

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

```

4.2.6 Greek font

```

520 % Greek
521 \newfontfamily\greekfont{Gentium Plus}[Script=Greek,
522     Mapping=tex-text,
523     Scale=MatchUppercase]
524 %
525 %\Old Standard}
526 %\GFS Porson}
527 %\GFS Didot}
528 %\Galatia SIL}
529 %\Linux Libertine O}

```

See [Stackexchange about Greek fonts](#).

4.3 Local generic author-facing macros

```

\bce
\ce 530 \def\bce{\textsc{bce}} % I took out the final \xspace
\BCE 531 % because it's behaviour is hard to predict - DW
\CE 532 \def\ce{\textsc{ce}} % ditto.
533 \let\BC\bce \let\BCE\bce \let\AD\ce \let\CE\ce

```

4.4 Math mode with Unicode fonts

```

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

```

4.5 Two-column footnote formatting

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

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

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

[Stackexchange help](#).

```
556 \usepackage{microtype}
```

5 Biblatex settings for HSSA

Don't need this at present:

```
557% \usepackage[%  
558% tools={manuscripts},  
559% bibstyle={authoryear},  
560% ]{biblatex-multiple-dm} % for biblatex-manuscripts-philology
```

5.1 Load Biblatex

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

(on ynt, see [Cikitsā blog post](#).)

```
575 sortcites=true,  
576 backref=false,  
577 date=comp,  
578 datecirca=true,  
579 dateuncertain=true,  
580 bibencoding=auto,  
581 hyperref=auto,  
582 isbn=true,  
583 doi=true,  
584 language=auto,  
585 natbib=true,  
586 texencoding=auto,  
587 url=true,  
588 urldate=short,  
589 useprefix=true,  
590 %refsection=section,  
591 giveninits=false,  
592 maxbibnames=10]{biblatex}
```

5.2 Settings for oyear

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

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

5.3 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.

```
604 \DefineBibliographyExtras{british}{\DeclareQuotePunctuation{.,}}
```

5.4 Bibliography sorting

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

```
605 \renewrobustcmd*{\printbibliography}{%
606   \newrefcontext[sorting=nyt] % added this line
607   \begingroup
608   \delimcontext{bib}%
609   \edef\on@line{\on@line}%
610   \@ifnextchar[%
611     {\blx@printbibliography}
612     {\blx@printbibliography[]}}
613 }
```

5.5 Positioning of the notes

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

```
614 \DeclareSourcemap{
615   \maps[datatype=bibtex]{
616     \map{
617       \step[fieldsource=note, final]
```

```

618         \step[fieldset=addendum, origfieldval, final]
619         \step[fieldset=note, null]
620     }
621 }
622 }

```

5.6 csquotes

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

```
623 \usepackage[style=american]{csquotes}
```

5.7 Tweak the citation style

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

```

624 \DefineBibliographyStrings{english}{%
625     page          = {},
626     pages          = {},
627     volume = {vol},
628     volumes = {vols},
629 }

```

5.8 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:

```

630 %\DeclareFieldFormat{url}{\textsc{url:} {\small \href{#1}{\nolinkurl{#1}}}}
631 %\DeclareFieldFormat{doi}{\textsc{doi:} {\small \href{#1}{\nolinkurl{#1}}}}

```

5.9 URL formatting in the bibliography

5.9.1 Buddhist Digital Resource Center

```

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

```

5.9.2 ARK

```
637 \DeclareFieldFormat{eprint:ark}{%
```



```

638 \textsc{ark:}\space
639 \ifhyperref
640 {\href{https://n2t.net/#1}{\nolinkurl{#1}}}
641 {\nolinkurl{#1}}}

```

5.9.3 Archive.org

```

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

```

5.9.4 Academia.edu

```

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

```

5.9.5 Digital Library of India

```

654 \DeclareFieldFormat{eprint:dli}{%
655 DLI\addcolon\space
656 \ifhyperref
657 {\href{http://www.dli.gov.in/cgi-bin/DBscripts/allmetainfo.cgi?barcode=#1/}{\nolinkurl{#1}}}
658 {\nolinkurl{#1}}}
659 \DeclareFieldAlias{eprint:DLI}{eprint:dli}

```

5.9.6 JSTOR

```

660 \DeclareFieldFormat{eprint:jstor}{%
661   \ifhyperref
662   {\href{http://www.jstor.org/stable/#1}{\small JSTOR}}}
663   {\nolinkurl{#1}}}

```

5.9.7 Jainelibrary

```

664 \DeclareFieldFormat{eprint:jainlibrary}{%
665 Jain eLibrary\addcolon\space
666 \ifhyperref
667 {\href{http://www.jainlibrary.org/book.php?file=#1}{\nolinkurl{#1}}}
668 {\nolinkurl{#1}}}

```

5.9.8 DOI

```

669 \DeclareFieldFormat{doi}{%
670   \textsc{doi}\addcolon\space
671   \ifhyperref
672     {\href{https://doi.org/#1}{\nolinkurl{#1}}}
673     {\nolinkurl{#1}}}

```

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

```

674 \DeclareFieldFormat{postnote}{#1}
675 \renewcommand{\postnotedelim}{: \,}
676 \renewcommand{\nameyeardelim}{ }

```

5.11 “Forthcoming” hacks

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

```

677 \DeclareLabeldate{%
678   \field{date}
679   \field{year}
680   \field{pubstate}
681   \field{eventdate}
682   \field{origdate}
683   \field{urldate}
684   \literal{nodate}
685 }

```

5.12 Tighten up URL date

```

686 \DeclareFieldFormat{urldate}{%
687   (on
688   \thefield{urlday}\addspace%
689   \mkbibmonth{\thefield{urlmonth}}\addspace%
690   \thefield{urlyear})\isdot}

```

5.13 Hyperlink magic

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

```

691 \DeclareFieldFormat{shorthandwidth}{%
692   \bibhypertarget{shorthand:\thefield{entrykey}}
693   {#1}}
694
695 \DeclareFieldFormat{bibhyperref}{%
696   \iffieldundef{shorthand}
697   {\bibhyperref{#1}}
698   {\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>

```

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

```

TeX stops reading here.

6 Indexing for HSSA

Formerly used xindy; now updated to use xindex

```
718 \usepackage[imakeidx]{xindex}
719 % \PassOptionsToPackage{nonewpage}{imakeidx}
720 %
721 \indexsetup{level=\section*,
722     noclearpage,
723     firstpagestyle=fancy
724 }
725 %
726 \makeindex[name=lexical,
727 title=Lexical Index,
728 columns=3,
729 options= --config iast --no_casesensitive --noheadings, % nocasesensitive,
730 %noheadings
731 ]
732 %
733 \makeindex[name=manuscripts,
734 title=Index of Manuscripts,
735 options= --config iast --no_casesensitive --noheadings,
736 columns=1]
737 %
```

Before the `\printindex` command say
“`\indexprologue{References are to page numbers.}`”

6.1 English-Sanskrit indexes

Command for English words to be followed by Sanskrit in parentheses, and both to be sent to the lexical index.

```
\saneng
738 \newcommand{\saneng}[2]
739 % #1 = Sanskrit
740 % #2 = English
741 {#2 (\sansk{#1})%
742     \index[lexical]{#2!#1@\emph{#1}}%
743     \index[lexical]{#1@\emph{#1}!#2}}
```

`\ssaneng` A “silent” version of `\saneng` that sends items to the index but prints nothing in the main text.

```
744 \providecommand{\ssaneng}[2]{% silent index entry
745 % #1 = Sanskrit
```

```

746 % #2 = English
747 {\index[lexical]{#2!#1@\emph{#1}}}%
748     \index[lexical]{#1@\emph{#1}!#2}}

```

Tidy up the index spacing:

```

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

```

7 Commands for citing and indexing manuscripts

\MS

```

750 \newcommand{\MS}[1]{MS #1\index[manuscripts]{#1}}
751     \let\MScite=\MS

```

And a silent version (data to index; nothing in text):

```

752 \newcommand{\MSsilent}[1]{\index[manuscripts]{#1}}
753     \let\MSnocite=\MSsilent

```

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 | | |
|---|--|--|
| \# 635 | \@footeraddress .. 152, 153 | \addfontfeature .. 78, 215, 310, 377 |
| \, 675 | \@footerfont 147 | \addspace ... 688, 689 |
| \@DOI 97, 363, 364, 366, 369, 418, 431, 432 | \@idxitem 749 | \addtocontents .. 132 |
| \@HSSAarticletitle ... 63, 75, 184, 355, 373, 412, 429 | \@ifnextchar 610 | \addtolength 477 |
| \@HSSAauthoraddress 65, 190, 361 | \@linkcolor 111 | \advance 452, 453, 454, 460 |
| \@HSSAauthorname 64, 77, 187, 357, 373, 413, 428 | \@makecaption ... 320 | \appendix ... 125, 128 |
| \@HSSAfooter 69, 89, 98 | \@makefnmark 472 | \appendixname ... 127 |
| \@HSSAheaderfooterfont ... 78, 84, 85, 86, 87, 89, 96, 98 | \@makefnmark 467 | \arrangementX 545, 546 |
| \@HSSAissuedate 80, 359, 374 | \@menucolor 116 | \arraybslash 400 |
| \@HSSAissuenum 79, 353, 374 | \@minipagefalse . 328 | \arraystretch ... 402 |
| \@HSSArecto 72, 74, 84 | \@minipagerestore 553 | \assignrefcontextentries 603 |
| \@HSSAspecialissuedetails 176, 351 | \@minus 380, 381, 384, 385, 389 | \AtBeginDocument 102, 603 |
| \@HSSAtitle 70, 79, 374 | \@nameuse 551 | \AtEndDocument .. 121 |
| \@HSSAverso 71, 73, 85 | \@pagecolor 117 | \aualign 138 |
| \@LastPage 134 | \@plus 380, 381, 384, 385, 389 | \aufont 136 |
| \@alph 544 | \@startsection 379, 383, 388 | \Author 422 |
| \@anchorcolor ... 112 | \@tempboxa 324, 325, 329 | \author 64 |
| \@arraycr 400 | \@temppdfauthor 413, 417 | |
| \@aualign ... 138, 139 | \@temppdftitle 412, 416 | B |
| \@aufont 141, 143 | \@titlealign . 136, 137 | \baselineskip ... 188 |
| \@centercr 448 | \@titlefont . 140, 142 | \BC 533 |
| \@citecolor 113 | \@urlcolor 115, 201, 368 | \BCE 530 |
| \@empty ... 73, 74, 153 | \\ . 64, 96, 200, 216, 227, 246, 251, 252, 257, 258, 259, 260, 261, 262, 309, 400, 448 | \bce 530 |
| \@filecolor 114 | _ ... 79, 313, 374, 430 | \beforenotesX ... 549 |
| | A | \begin ... 161, 173, 181, 197, 214, 228, 468, 476, 478 |
| | \abovecaptionskip 322 | \begin{group} 156, 209, 607 |
| | \AD 533 | \begin{sloka} ... 442 |
| | \addcolon 643, 649, 655, 665, 670 | \belowcaptionskip 331 |
| | | \bfseries 215 |
| | | \bibhyperlink ... 698 |
| | | \bibhyperref 697 |

| | | |
|--|--|--|
| <code>\bibhypertarget</code> . 692 | 660, 664, 669, | <code>\end</code> 170, 177, |
| <code>\blx@ox@compyear</code> 699 | 674, 686, 691, 695 | 192, 203, 242, |
| <code>\blx@printbibliography</code> | <code>\DeclareLabeldate</code> 677 | 290, 473, 483, 484 |
| 611, 612 | <code>\DeclareQuotePunctuation</code> | <code>\endgroup</code> . . . 204, 291 |
| <code>\bottomfraction</code> .. | 604 | <code>\endlist</code> 445 |
| 333, 339 | <code>\DeclareSourceMap</code> 614 | <code>\enumitem</code> 29 |
| <code>\box</code> 329, 462 | <code>\def</code> 45, 68, | <code>\ExecuteBibliographyOptions</code> |
| | 71, 72, 78, 111, | 593 |
| C | 112, 113, 114, | |
| <code>\c@mpfootnote</code> . . . 544 | 115, 116, 117, | F |
| <code>\cclogobox</code> 96, 397, 398 | 127, 134, 136, | <code>\fancyfoot</code> . . . 88, |
| <code>\CE</code> 530 | 138, 140, 141, | 89, 90, 96, 98, 99 |
| <code>\ce</code> 530 | 142, 143, 147, | <code>\fancyhead</code> . 83, 84, |
| <code>\centering</code> | 152, 154, 201, | 85, 86, 87, 94, 95 |
| .. 65, 137, 139, | 208, 296, 321, | <code>\fancypage</code> 93 |
| 382, 386, 387, 391 | 351, 353, 355, | <code>\fancytyle</code> . . . 93 |
| <code>\CJK</code> 515 | 357, 359, 361, | <code>\fi</code> . 330, 369, 459, 712 |
| <code>\colalignX</code> 547 | 363, 368, 371, | <code>\field</code> . . . 678, 679, |
| <code>\color</code> 159, 303, 308, 312 | 377, 392, 393, | 680, 681, 682, 683 |
| <code>\colorlet</code> 304, 407, | 458, 466, 530, | <code>\floatpagefraction</code> |
| 408, 409, 410, 411 | 532, 544, 553, | 335, 341 |
| <code>\columnwidth</code> 404 | 700, 701, 711, 714 | <code>\fontsize</code> |
| <code>\copy</code> 96 | <code>\DefineBibliographyExtras</code> | 142, 143, 148, 165 |
| <code>\Copyright</code> 422 | 604 | <code>\footeraddress</code> . . 136 |
| <code>\copyright</code> 430 | <code>\DefineBibliographyStrings</code> | <code>\footfont</code> 136 |
| <code>\copyrightpage</code> . . 295 | 624 | <code>\footins</code> 50 |
| <code>\copyrightspage</code> . . | <code>\definecolor</code> . 101, 406 | <code>\footnote</code> . . . 481, 552 |
| 104, 208 | <code>\delimcontext</code> . . . 608 | <code>\footnoteA</code> 555 |
| <code>\CopyrightURL</code> . . . 423 | <code>\dev</code> 512, 513 | <code>\footnotemargin</code> . 345 |
| <code>\covercitation</code> . . 371 | <code>\devanagarifont</code> . . | <code>\footnoterule</code> . . . 479 |
| <code>\coverlastpage</code> 123, 296 | 505, 512, 514 | <code>\footnoteruleA</code> . . 543 |
| <code>\coverpage</code> . . 103, 154 | <code>\diatop</code> 458 | <code>\footnotesize</code> . . . |
| | <code>\dimen</code> 459, | 167, 199, |
| D | 460, 461, 462, 463 | 213, 323, 386, 472 |
| <code>\date</code> 67 | <code>\dn</code> 503 | <code>\footnotetext</code> . . . 46 |
| <code>\dblfloatpagefraction</code> | <code>\DOI</code> 363, 365 | <code>\footrulewidth</code> . . . 92 |
| 337 | | <code>\fspace</code> 377, 382, 386, 387 |
| <code>\dbltopfraction</code> . 336 | E | |
| <code>\DeclareFieldAlias</code> | <code>\edef</code> 609 | G |
| 647, 653, 659 | <code>\else</code> 327, 367, 459 | <code>\gdef</code> 69, |
| <code>\DeclareFieldFormat</code> | <code>\emergencystretch</code> 404 | 71, 72, 134, 136, |
| 630, | <code>\emph</code> . . 65, 190, 374, | 138, 140, 141, |
| 631, 632, 637, | 742, 743, 747, 748 | 147, 152, 351, |
| 642, 648, 654, | <code>\empty</code> . . . 352, 364, 366 | 353, 355, 357, |

| | | |
|---------------------------------------|--|--|
| 359, 361, 363, | | |
| 364, 371, 392, 393 | | |
| \geometry . 52, 52, 347 | | |
| \global 328, 398 | | |
| \greekfont 521 | | |
| H | | |
| \hangfootnotes 46, 466, 480 | | |
| \hangindent 749 | | |
| \hb@xt@ 329 | | |
| \hbox 398, 458, 461, 463 | | |
| \headrulewidth . . . 91 | | |
| \hfil 329 | | |
| \hfill 472 | | |
| \href . . 97, 202, 219, | | |
| 275, 281, 283, | | |
| 284, 286, 288, | | |
| 307, 311, 369, | | |
| 630, 631, 635, | | |
| 640, 645, 651, | | |
| 657, 662, 667, 672 | | |
| \hsize 325, 329 | | |
| \hskip 450 | | |
| \hspace 46, 160, 196, 551 | | |
| \hss 461, 463 | | |
| \HSSAarticletitle 355 | | |
| \HSSAauthoraddress | | |
| 361, 362 | | |
| \HSSAauthorname . . | | |
| 357, 358 | | |
| \HSSAfirstpage 392, 395 | | |
| \HSSAfooter . . 68, 79 | | |
| \HSSAissuedate 359, 360 | | |
| \HSSAissuenum . . 353 | | |
| \HSSAjournalAbbrev 405 | | |
| \HSSAlastpage 393, 396 | | |
| \HSSArecto . . . 72, 77 | | |
| \HSSAshorttitle . . 76 | | |
| \HSSAspecialissuedetails | | |
| 351 | | |
| \HSSAverso . 71, 75, 76 | | |
| \ht 460 | | |
| \hypersetup | | |
| 355, 357, 424 | | |
| I | | |
| \ifboolexpr 704 | | |
| \ifdim 325, 459 | | |
| \iffieldundef . . . 696 | | |
| \ifhyperref | | |
| . 634, 639, 644, | | |
| 650, 656, 661, 671 | | |
| \ifhyperrefsloka 666 | | |
| \ifnum 710 | | |
| \ifnumequal 705 | | |
| \ifnumless 707 | | |
| \IfStrEq 711, 714 | | |
| \ifx 366 | | |
| \includegraphics . | | |
| 163, 399 | | |
| \index . . . 742, 743, | | |
| 747, 748, 750, 752 | | |
| \indexsetup 721 | | |
| \isdot 690 | | |
| \item 230, 231, | | |
| 232, 233, 235, | | |
| 237, 238, 239, | | |
| 240, 241, 444, 472 | | |
| \itemsep 470 | | |
| \itshape . 167, 391, 544 | | |
| J | | |
| \jobname 422 | | |
| K | | |
| \Keywords 423 | | |
| L | | |
| \labelsep 470 | | |
| \labelwidth . 468, 469 | | |
| \langle 253, 308 | | |
| \LARGE 63, 175, 183 | | |
| \large . . . 186, 387, 514 | | |
| \largesloka 514 | | |
| \Last _l page 134 | | |
| \LastPage . . . 134, 135 | | |
| \LaTeX 281 | | |
| \leavevmode . 450, 458 | | |
| \lefthyphenmin . . 342 | | |
| \leftmargin | | |
| 443, 451, 452, 469 | | |
| \leftmargini 229 | | |
| \leftskip 453 | | |
| \let 73, 74, 76, | | |
| 132, 137, 139, | | |
| 153, 400, 448, | | |
| 479, 481, 503, | | |
| 533, 543, 552, | | |
| 553, 555, 751, 753 | | |
| \lettergroup 464 | | |
| \linewidth . . 160, | | |
| 161, 173, 181, | | |
| 196, 197, 198, 214 | | |
| \list 443 | | |
| \literal 684 | | |
| \LoadClass 2 | | |
| \long 154, 208, 296, 321 | | |
| M | | |
| \makeindex . . 726, 733 | | |
| \MakeLowercase . . 387 | | |
| \MakeTextLowercase | | |
| 20, 79, 84, 85 | | |
| \maketitle 107 | | |
| \MakeUppercase 382, 386 | | |
| \map 616 | | |
| \maps 615 | | |
| \marginparwidth . . 34 | | |
| \mbox 300 | | |
| \medskip | | |
| . 166, 244, 249, | | |
| 255, 265, 271, 278 | | |
| \miniedition 465 | | |
| \mkbibmonth 689 | | |
| \MS 750 | | |
| \MScite 486, 751 | | |
| \MSnocite 753 | | |
| \MSsilent . . . 752, 753 | | |
| N | | |
| \nameyear _{del} . . 676 | | |
| \narrower 455 | | |
| \NeedsTeXFormat . . 1 | | |
| \newbox 397 | | |
| \newcommand . . 43, | | |
| 44, 70, 366, 400, | | |

| | | |
|--|---|---|
| 464, 512, 513, 514, 738, 750, 752 | 191, 193, 195, 302, 326, 514, 749 | \rlap 462 \rule 198, 305 |
| \newenvironment 442, 447, 475 | \parbox 65 \parindent ... 31, 157, 296, 449, 467 | S \saneng 738 \sansk 741 \sanskritfont 496, 503 \sbox 324 \scriptsize 306 \scshape 78, 387 \section 378, 721 \selectbackgroundlanguage 119 \selectfont 165 \setbox .. 398, 458, 461 \setcounter 106, 109, 129, 130, 131, 378 \setdefaultlanguage 487 \setlength ... 34, 345, 401, 467, 468, 469, 470, 471 \setlist 30 \setmainfont 491, 494, 495 \setmathfont . 535, 536 \setotherlanguage 488, 489, 490 \setuptodonotes .. 41 \skip 50 \small 65, 630, 631, 662 \smallskip 464 \space 633, 638, 643, 649, 655, 665, 670 \ssaneng 744 \step 617, 618, 619 \StrCompare 709 \StrGobbleLeft .. 716 \string 132 \StrLen 702, 703 \subsection 383 \subsubsection .. 388 |
| \newfontfamily ... 496, 505, 515, 521 | \parsep 471 \parskip 299 \PassOptionsToPackage 719 \pdfinfo 414 \pdfstringdef 412, 413 \postnotedelim .. 675 \PreliminaryNote . 44 \printbibliography 605 \printDOI ... 366, 375 \providecommand . 744 | |
| \newpage . 122, 206, 296 \newrefcontext .. 606 \newtoks 365 \nolinkurl ... 630, 631, 635, 636, 640, 641, 645, 646, 651, 652, 657, 658, 663, 667, 668, 672, 673 \normalcolor . 211, 294 \normalfont .. 306, 382, 386, 387, 391 \normalfootfootmarkX 550 \normalsize . 189, 391 \num@one 700, 702, 707, 709 \num@one@len . 702, 705 \num@two . 701, 703, 707, 709, 716, 717 \num@two@len 703, 705, 710 \numberline 132 | Q \q 34 R \raggedright .. 174, 182, 306, 514, 548 \raise 462 \rangle 253, 308 \relax 45, 67, 366, 444, 457, 479, 543, 547 \renewcommand 91, 92, 128, 332, 333, 334, 335, 336, 337, 338, 339, 340, 341, 379, 383, 388, 402, 467, 550, 675, 676, 699, 749 \renewrobustcmd . 605 \RequirePackage 3, 23, 125, 344, 349, 350, 403 \Result 709, 711, 714, 716 \rightthyphenmin . 343 \rightmargin 443, 451, 477 \rightskip 454 | |
| O \on@line 609 \originalfootnote 481, 552, 553 | | |
| P \p@ .. 380, 381, 384, 385, 389, 390, 749 \pagecolor 158, 210, 293, 298 \pagelayout 332 \pagestyle 82 \par .. 128, 163, 166, 169, 171, 178, 180, 185, 187, | | T \tabcolsep 401 |

| | | | |
|---|---------------|-------------------------------------|----------------|
| <code>\TeX</code> | 284, 286, 289 | <code>\thelastpage</code> | 537, 542, 556, |
| <code>\textbullet</code> | 313 | | 80, 375, 393 |
| <code>\textdevanagari</code> . | 513 | <code>\thempfootnote</code> .. | 544 |
| <code>\textenglish</code> 84, 85, | | <code>\thepage</code> | 86, 87 |
| 86, 87, 89, 96, 98 | | <code>\thispagestyle</code> ... | |
| <code>\textfraction</code> 334, 340 | | 108, 155, 212, 297 | |
| <code>\textheight</code> | 214 | <code>\tiny</code> | 96, 200 |
| <code>\textit</code> 227, 246, 251, 257 | | <code>\Title</code> | 422 |
| <code>\textsc</code> 282, 288, 369, | | <code>\title</code> | 63 |
| 530, 532, 630, | | <code>\titlealign</code> | 136 |
| 631, 633, 638, 670 | | <code>\titlefont</code> | 136 |
| <code>\textwidth</code> | | <code>\tmptocnumberline</code> 132 | |
| . 65, 305, 477, 478 | | <code>\todo</code> | 43 |
| <code>\thecovercitation</code> | | <code>\topfraction</code> . | 332, 338 |
| | 200, 371 | <code>\toprule</code> | 19 |
| <code>\thefield</code> | 688, | <code>\topsep</code> | 471 |
| 689, 690, 692, 698 | | | |
| <code>\thefirstpage</code> | | U | |
| . 80, 109, 375, 392 | | <code>\usepackage</code> | |
| <code>\thefootnote</code> | 45 | .. 3, 29, 35, 81, | |
| | | 421, 486, 534, | |
| | | V | |
| | | <code>\verb</code> | 546, 548, 554 |
| | | <code>\vfill</code> . . . | 172, 179, |
| | | 194, 221, 225, 301 | |
| | | <code>\vskip</code> . . . | 164, 322, 331 |
| | | <code>\vspace</code> .. | 162, 185, |
| | | 188, 191, 205, 318 | |
| | | W | |
| | | <code>\wd</code> | 325, 459 |
| | | X | |
| | | <code>\xcolor</code> | 23 |
| | | <code>\XeTeX</code> | 283 |
| | | <code>\xspace</code> | 530 |
| | | Z | |
| | | <code>\z@</code> | 379, 383, 388 |