LaTeX 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 TeXlive 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.

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

1.2 Documentation for LaTeX hackers converting incoming files to HSSA

1.2.1 Prelims

Start off each HSSA article LaTeX 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 LaTeX.

\CE
\BCE

AD, BC, etc. There are shortcuts for expressing the eras CE and 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 tailord 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, $\alpha$999}` 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 BibLaTeX 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 BibLaTeX'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 LaTeX, but we philologists sometimes need it. Say, for example, `\diatop[\'|{ō}]` to get ő.

`\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 LaTeX 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 TEX Gyre Pagella or other Unicode font in TEX 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` Declare that we are using the main LaTeX2e format.

```
\NeedsTeXFormat{LaTeX2e}
```

`\LoadClass` HSSA is based on an 11pt article style:

```
\LoadClass[11pt]{article}
```

`\RequirePackage` Here come the packages that HSSA assumes are present.

```
\usepackage{hssa-indexing} % has to be loaded before hyperref
\RequirePackage{ %
    graphicx,
    amsmath,
    amsfonts,
    amssymb,
    textcomp, % arcane LaTeX/NFSS system for subsetting encodings.  Needed for Sigma.
    wasysym,
    hyperref,
    hyperxmp, % to embed XMP metadata in the PDF
    geometry,
    array,
    longtable,
    polyglossia,  % polyglossia calls fontspec
    multicol,
    booktabs, % better table spacing, \toprule etc.
    textcase, % to get \MakeTextLowercase for tweaking the running footer
    fancyhdr,
    xltxtra, % for the definition of \XeLaTeX
    hssa-biblatex, % bibliography management and formatting
}
```

`xcolor` Settings for the `xcolor` package

```
\RequirePackage[xetex,
    dvipdfmx,
    hyperref,
    svgnames,
    table]
    {xcolor}
```

enumitem To control the spacing around itemized lists.

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

\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.

```
\setlength{\marginparwidth}{2cm} %todonotes manual, section 1.6.5
\usepackage[colorinlistoftodos,
%    disable,
%textsize=small,
loadshadowlibrary,
shadow,
backgroundcolor=yellow]{todonotes}
\setuptodonotes{fancyline}
%
\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.

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

2.1 Set the geometry for the pages

geometry Set the geometry for the pages DW

```
\geometry{twoside,
 paperwidth=210mm,
 paperheight=297mm,
 textheight=562pt,
 textwidth=384pt,
```

```
  centering,
  headheight=30pt,
  headsep=18pt,
  footskip= 42pt, %24pt,
  footnotesep=24pt plus 2pt minus 12pt,
 }
```

2.2 Front matter

\title \author \date

I thought about doing something like this:

```
\newenvironment{frontmatter}{}{\maketitle}
```

but then gave that up.

\title

```
\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 address.

```
\author{\@HSSAauthorname\\ [1ex]
    \parbox{\textwidth}{\small\centering\emph{\@HSSAauthoraddress}}
}
```

\date No date.

```
\date{\relax }
```

2.3 Running headers and footers

\HSSAfooter Variable that collects the text for the footer.

```
\def\HSSAfooter#1 %*%
    {\gdef\@HSSAfooter{#1}}
```

\@HSSAtitle Define the title for use on the title page.

```
\newcommand{\@HSSAtitle}{History of Science in South Asia}
```

\HSSAverso Variable that collects the page header of the verso pages.

```
\def\HSSAverso#1{\gdef\@HSSAverso{#1}}
```

\HSSArecto Ditto for the recto, and initialize them both to nothing.

```
\def\HSSArecto#1{\gdef\@HSSArecto{#1}}
\let\@HSSAverso\@empty
\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.

```
\HSSAverso{\@HSSAarticletitle }
  \let\HSSAshorttitle\HSSAverso
\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).

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

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

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

2.4 Fancy headers and footers

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

```
%\usepackage{fancyhdr} % after the geometry setup
\pagestyle{fancy}
\fancyhead{}
\fancyhead[CO]{\textenglish{\@HSSAheaderfooterfont\MakeTextLowercase{\@HSSArecto}}}
\fancyhead[CE]{\textenglish{\@HSSAheaderfooterfont\MakeTextLowercase{\@HSSAverso}}}
\fancyhead[RO]{\textenglish{\@HSSAheaderfooterfont\thepage}}
\fancyhead[LE]{\textenglish{\@HSSAheaderfooterfont\thepage}}
\fancyfoot[L]{}
\fancyfoot[C]{\textenglish{\@HSSAheaderfooterfont\@HSSAfooter}}
\fancyfoot[R]{}
\renewcommand{\headrulewidth}{0pt}
\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

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

```
\fancyfoot[C]{\textenglish{\@HSSAheaderfooterfont\@HSSAfooter}}
\fancyfoot[R]{}
}
```

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.

```
\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

```
\AtBeginDocument{%
    \coverpage
    \copyrightspage
    %
    \setcounter{page}{0}
    \maketitle
    \thispagestyle{fancy-plus-DOI}
    \setcounter{page}{\thefirstpage}
%
    \def\@linkcolor{darkbrown}
    \def\@anchorcolor{darkbrown}
    \def\@citecolor{darkbrown}
    \def\@filecolor{darkbrown}
    \def\@urlcolor{darkbrown}
    \def\@menucolor{darkbrown}
    \def\@pagecolor{darkbrown}
%
    \selectbackgroundlanguage{english}
}
```

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

```
\AtEndDocument{%
    \newpage
    \coverlastpage
}
```

2.9 Arrange the appendix

appendix

```
% Consider using \RequirePackage[title]{appendix}
%
\def\appendixname{Appendix}
\renewcommand\appendix{\par
  \setcounter{section}{0}%
  \setcounter{subsection}{0}%
  \setcounter{equation}{0}
  \addtocontents{toc}{\string\let\string\numberline\string\tmptocnumberline}{}{}
}
```

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

```
\def\LastPage#1{\gdef\@LastPage{#1}}
\LastPage{100}
```

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

\aufont
\titlefont
\footerfont
\footeraddress

```
\def\titlealign#1{\gdef\@titlealign{#1}}
\let\@titlealign\centering
\def\aualign#1{\gdef\@aualign{#1}}
\let\@aualign\centering
\def\titlefont#1{\gdef\@titlefont{#1}}
\def\aufont#1{\gdef\@aufont{#1}}
\def\@titlefont{\fontsize{20}{24}}
\def\@aufont{\fontsize{10}{12}}
%
% Footer font
%
\def\footerfont#1{\gdef\@footerfont{#1}}
\footerfont{\fontsize{7}{8}}
%
% Footer address
%
\def\footeraddress#1{\gdef\@footeraddress{#1}}
\let\@footeraddress\@empty
```

2.11 The content of the cover page

\coverpage

```
\long\def\coverpage{%
    \thispagestyle{empty}
    \begingroup
    \parindent0pt
    \pagecolor{pagecolor}
    \color{Maroon!20}
    \hspace*{-.05\linewidth}%
    \begin{minipage}{1.1\linewidth}%
        \vspace*{-18pt}%
        \includegraphics[width=50mm]{logo.eps}\par
        \vskip-12pt
        \fontsize{30}{36}\selectfont
        History of Science in South Asia\par\medskip
        \footnotesize\itshape
        A journal for the history of all forms of scientific thought and
        action, ancient and modern, in all regions of South Asia\par
    \end{minipage}
    \par
    \vfill
    \begin{minipage}{\linewidth}
        \raggedright
        \LARGE
        \@HSSAspecialissuedetails
    \end{minipage}
    \par
    \vfill
    \par
    \begin{minipage}{\linewidth} % Here's the main title and author and affiliation
        \raggedright
        \LARGE
        \@HSSAarticletitle
        \par\vspace*{10mm}
        \large
        \@HSSAauthorname\par
        \vspace{.8\baselineskip}
        \normalsize
        \emph{\@HSSAauthoraddress}
        \par\vspace*{10mm}
    \end{minipage}
    \par
    \vfill
    \par
```

```
    \hspace*{-.05\linewidth}%
    \begin{minipage}{1.1\linewidth}
        \rule{\linewidth}{.1pt}
        \footnotesize
        {\tiny MLA} style citation form:  \thecovercitation \\[3pt]
        Online version available at: {\def\@urlcolor{Maroon!20}%
            \href{http://hssa-journal.org}{http://hssa-journal.org}}
    \end{minipage}
  \endgroup
    \vspace{-10mm}
    \newpage
} % end coverpage
```

2.12 The the content of the copyright page

\copyrightspage

```
\long\def\copyrightspage{%
    \begingroup
    \pagecolor{white}
    \normalcolor
    \thispagestyle{empty}
    \footnotesize
    \begin{minipage}[t][.98\textheight][t]{\linewidth}
        {\addfontfeature{LetterSpace=8}\bfseries
            HISTORY OF SCIENCE IN SOUTH ASIA}\\
        A journal for the history of all forms of scientific thought and action,
        ancient and modern, in all regions of South Asia, published online
        at \href{http://hssa-journal.org}{http://hssa-journal.org}

        \vfill

        ISSN 2369-775X

        \vfill

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    Canada

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        \textsc{gnu/linux} operating system. \textsc{pdf} was typeset
        using \href{http://tug.org/xetex/}{\XeTeX}{} from
        \href{http://tug.org/texlive/}{\TeX Live}.
        The base font used for Latin script and oldstyle numerals  was
        \href{http://www.gust.org.pl/projects/e-foundry/tex-gyre/pagella}{\TeX{}
            Gyre Pagella}  developed by
        \href{http://www.gust.org.pl}{\textsc{gust}}, the Polish
        \TeX{} Users Group.
    \end{minipage}
    \endgroup

    \pagecolor{white}
    \normalcolor
} % end \copyrightpage
```

2.13 The content of the back cover page

\coverlastpage

```
\long\def\coverlastpage{\newpage\parindent=0pt
    \thispagestyle{empty}
    \pagecolor{pagecolor}
    \parskip=0pt
    \mbox{}
    \vfill
    \par
    \color{endscriptcolor}
    \colorlet{urlcolor}{endurlcolor}
    \rule[3pt]{\textwidth}{.2pt}
    {\normalfont\scriptsize\raggedright Please write to
        \href{mailto:wujastyk@ualberta.ca}
            {\color{white}$\langle$wujastyk@ualberta.ca$\rangle$}
        to file bugs/problem reports, feature requests and to get involved. \\
        %   \addfontfeature{LetterSpace=6}%
        \href{http://hssa-journal.org}
            {\color{white}The History of Science in South Asia}
        \textbullet\
        Department of History and Classics,
        2--81 HM Tory Building, University of Alberta,
        Edmonton, AB, T6G 2H4,
        Canada.}%
    \vspace*{-20pt}
}
```

2.14 Tweak captions → footnotesize

\@makecaption

```
% originally for Speziale
\long\def\@makecaption#1#2{%
    \vskip\abovecaptionskip
    \footnotesize % added footnotesize
    \sbox\@tempboxa{#1: #2}%
    \ifdim \wd\@tempboxa >\hsize
    #1: #2\par
    \else
    \global \@minipagefalse
    \hb@xt@\hsize{\hfil\box\@tempboxa\hfil}%
    \fi
    \vskip\belowcaptionskip}
```

2.15 Page layout dimensions

DW can this be superseded by the geometry package?

pagelayout

```
\renewcommand\topfraction{1}
\renewcommand\bottomfraction{.8}
\renewcommand\textfraction{0}
\renewcommand\floatpagefraction{.8}    % 0.95 better ????
\renewcommand\dbltopfraction{1}
\renewcommand\dblfloatpagefraction{.8}
\renewcommand\topfraction{1}
\renewcommand\bottomfraction{.8}
\renewcommand\textfraction{0.1}
\renewcommand\floatpagefraction{0.95}  % was 0.8 changed 1
```

2.16 Misc layout settings

```
\lefthyphenmin=3
\righthyphenmin=3
%\RequirePackage[hang]{footmisc}
%\setlength\footnotemargin{.8em}

%\geometry{footskip=42pt}

\RequirePackage{lettrine}
\RequirePackage[normalem]{ulem}
```

2.17 Journal-specific user-facing macros

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

```
\def\HSSAspecialissuedetails#1{\gdef\@HSSAspecialissuedetails{#1}}
\HSSAspecialissuedetails{\empty }
```

\HSSAissuenum Provide user command \HSSAissuenum.

```
\def\HSSAissuenum#1{\gdef\@HSSAissuenum{#1}}
\HSSAissuenum{999}
```

\HSSAarticletitle Provide user command \HSSAarticletitle

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

Provide user command \HSSAauthorname

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

Provide user command \HSSAissuedate

```
\def\HSSAissuedate#1{\gdef\@HSSAissuedate{#1}}
\HSSAissuedate{1900}
```

Provide user command \HSSAauthoraddress

```
\def\HSSAauthoraddress#1{\gdef\@HSSAauthoraddress{#1}}
\HSSAauthoraddress{Timbuktu}
```

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

```
\def\DOI#1{\gdef\@DOI{#1}}
\gdef\@DOI{\empty}
%%\newtoks\DOI
\newcommand{\printDOI}{\ifx\@DOI\empty\relax
    \else
    {\def\@urlcolor{Maroon!20}
        \textsc{doi:} \href{https://doi.org/\@DOI}{\@DOI}.\fi }
}
```

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

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

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

2.18 Customizing the sectioning commands

\section

```
\setcounter{secnumdepth}{1}
\renewcommand\section{\@startsection {section}{1}{\z@}%
    {-18\p@ \@plus 6\p@ \@minus 3\p@}%
    {9\p@ \@plus 6\p@ \@minus 3\p@}%
    {\normalfont\centering\fspace{10}\MakeUppercase}}
\renewcommand\subsection{\@startsection{subsection}{2}{\z@}%
    {-15\p@ \@plus 6\p@ \@minus 3\p@}%
    {6\p@ \@plus 6\p@ \@minus 3\p@}%
    %           {\normalfont\footnotesize\fspace{10}\centering\MakeUppercase}}
    {\normalfont\large\scshape\fspace{8}\centering\MakeLowercase}}
\renewcommand\subsubsection{\@startsection{subsubsection}{3}{\z@}%
    {-15\p@ \@plus 6\p@ \@minus 3\p@}%
    {\p@}%
    {\normalfont\normalsize\itshape\centering}}
```

2.19 Collecting the page-number information

```
\def\HSSAfirstpage#1{\gdef\thefirstpage{#1}}
\def\HSSAlastpage#1{\gdef\thelastpage{#1}}
% Initialize the values:
\HSSAfirstpage{000}
\HSSAlastpage{999}
```

2.20 Creative Commons logo

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

2.21 Tweak tabular layout

```
\newcommand\arraybslash{\let\\\@arraycr}
\setlength\tabcolsep{1mm}
\renewcommand\arraystretch{1.3}
```

```
%\RequirePackage{xltxtra} % comment out because it clashes with bidi and is
% loaded by polyglossia anyhow.
\emergencystretch=.1\columnwidth
```

2.22 Not used

Legacy code to be thought about and probably weeded out.

```
%\HSSAjournalAbbrev{Hist.~Sci.~South Asia}
\definecolor{bg}{HTML}{600000}
\colorlet{pagecolor}{bg}
\colorlet{urlcolor}{black!50}
\colorlet{endurlcolor}{pagecolor!30}
\colorlet{linkcolor}{black!50}
\colorlet{endscriptcolor}{pagecolor!20}
```

2.23 PDF metadata

Commented out because it interferes with other stuff.

```
%    \pdfstringdef{\@temppdftitle}{\@HSSAarticletitle}
%    \pdfstringdef{\@temppdfauthor}{\@HSSAauthorname}
%    \pdfinfo{%
%        % copying out title because of macro expansion problems
%              /Title (\@temppdftitle)
%              /Author (\@temppdfauthor)
%        /Keywords (DOI: https://doi.org/\@DOI)
%    }
%}
```

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

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

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

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

2.25 Simple indented, environment for Sanskrit verses

`sloka` (*env.*)

```
%\newenvironment{sloka}
% {\list{}{\rightmargin\leftmargin}%
%    \item\relax}
%{\endlist}
%
\newenvironment{sloka} % tweaked from verse
{\let\\\@centercr
    \parindent 1em
    \leavevmode \hskip-.03em
    %    \rightmargin \leftmargin
    %    \advance \leftmargin 10em
    %   \advance\leftskip 2em
    %    \advance\rightskip 2em
    %\narrower
}
{\relax }
```

2.26 Diatop

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

```
    \def\diatop[#1|#2]{\leavevmode{\setbox1=\hbox{{#1{}}}\setbox2=\hbox{{#2{}}}%
        \dimen0=\ifdim\wd1>\wd2\wd1\else\wd2\fi%
        \dimen1=\ht2\advance\dimen1by-1ex%
        \setbox1=\hbox to1\dimen0{\hss#1\hss}%
        \rlap{\raise1\dimen1\box1}%
        \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"?

```
    \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:

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

\newenvironment{miniedition}
    {\begin{quote}
            \addtolength{\textwidth}{-2\rightmargin} % width of the quote environment
            \begin{minipage}{\textwidth}
                \let\footnoterule\relax  % if you want a rule, comment out this line.
                \hangfootnotes
               % \let\footnote\originalfootnote
            }
            {\end{minipage}
        \end{quote}
    }
```

Resetting `\footnote` to `\originalfootnote` is no longer needed. Standard non-reledmac LaTeX 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.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

`hssa-reledmac` (*env.*) We load `reledmac.sty` with some parameters set in the file `hssa-reledmac.sty`. This redefines `\footnote` to produce double-column notes. Also, it makes the macros of `reledmac` available for making critical editions.

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

For some documents without the need for critical edition features, it may be enough to use `dblfnote.sty` instead.

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

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

3.2.2 TEX Gyre Pagella, the default roman font for HSSA

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

3.2.3 Sanskrit input in Devanagari script

```
\newfontfamily\sanskritfont[Script=Devanagari,
```

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

```
  %Mapping=RomDev,
  FakeStretch=1.08, % improves Sanskrit 2003
  AutoFakeBold=1.5,
  ]
{Sanskrit 2003}
 %  {Murty Sanskrit}
\let\dn\sanskritfont %for legacy Velthuis-encoded documents
```

3.2.4 Sanskrit input in IAST script, output in Devanagari

```
% Sanskrit input in IAST
\newfontfamily\devanagarifont[Script=Devanagari,
Mapping=RomDev,
FakeStretch=1.08, % improves Sanskrit 2003
 AutoFakeBold=2.5,
]
%  {Murty Sanskrit}
{Sanskrit 2003}
\newcommand{\dev}[1]{{\devanagarifont#1}}
%\newcommand{\dev}[1]{\textdevanagari{#1}}
\newcommand{\largesloka}[1]{{\raggedright \devanagarifont\large #1\par}}
```

3.2.5 Chinese

```
\newfontfamily\cjk[Script=CJK,Mapping=tex-text,Scale=MatchLowercase]
%{IPAexMincho} % missing
%{TakaoPGothic}
{Yu Mincho}
%
```

3.2.6 Greek font

```
% Greek
\newfontfamily\greekfont{Gentium Plus}[Script=Greek,
    Mapping=tex-text,
    Scale=MatchUppercase]
%
%{Old Standard}
%{GFS Porson}
%{GFS Didot}
%{Galatia SIL}
%{Linux Libertine O}
```

See Stackexchange about Greek fonts.

3.3 Local generic author-facing macros

```
\bce
 \ce
\BCE
 \CE
```

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

3.4 Math mode with Unicode fonts

```
\usepackage{unicode-math} % must load after amsmath; see manual ch. 3
%\setmathfont{texgyrepagella-math.otf} % doesn't have old style numerals.
\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.

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

`\footnote` `\footnote` is not going to be the standard LaTeX 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.

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

Stackexchange help. Commented out, but useful in some tight situations:

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

5 `hssa-biblatex.sty`: BibLaTeX settings for HSSA

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

5.1 Manuscript-oriented BibLaTeX 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.

```
% \usepackage[%
% tools={manuscripts},
% bibstyle={authoryear},
% ]{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 BibLaTeX through the `oxref` and `oxyear` packages. See also section 5.3 below.

```
\usepackage[%
backend=biber,
%bibstyle=multiple-dm, % for biblatex-manuscripts-philology
% oxref:
style=oxyear,
dashed=true,
usetranslator=true,% see oxref documentation para 2.1.10
%ibidtracker=constrict,
%ibidpage=false,
%pagetracker=page,
%idemtracker=constrict,
sorting=ynt,
```

(on `ynt`, see Cikitsā blog post.)

```
sortcites=true,
backref=false,
date=comp,
datecirca=true,
dateuncertain=true,
bibencoding=auto,
hyperref=auto,
isbn=true,
doi=true,
```

```
language=auto,
natbib=true,
texencoding=auto,
url=true,
urldate=short,
useprefix=true,
%refsection=section,
giveninits=false,
maxbibnames=10]{biblatex}
```

5.3 Settings for oxyear

```
\ExecuteBibliographyOptions[% for biblatex-oxyear
book,
mvbook,
mvcollection,
inbook,
incollection,
inreference,
collection,
reference,
mvreference]{useeditor=true,usetranslator=true}
\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 BibLaTeX manual, put the comma *inside* the quotation marks of the title.

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

5.5 Bibliography sorting

\printbibliography

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

```
\renewrobustcmd*{\printbibliography}{%
    \newrefcontext[sorting=nyt] % added this line
    \begingroup
    \delimcontext{bib}%
    \edef\on@line{\on@line}%
    \@ifnextchar[%]
```

```
    {\blx@printbibliography}
    {\blx@printbibliography[]}
}
```

5.6 Positioning of the notes

To make bibtex notes print last, like addendums from Stackexchange.

```
\DeclareSourcemap{
    \maps[datatype=bibtex]{
        \map{
            \step[fieldsource=note, final]
            \step[fieldset=addendum, origfieldval, final]
            \step[fieldset=note, null]
        }
    }
}
```

5.7 csquotes

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

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

5.8 Tweak the citation style

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

```
\DefineBibliographyStrings{english}{%
    page             = {},
    pages            = {},
    volume = {vol},
    volumes = {vols},
}
```

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:

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

5.10 URL formatting in the bibliography

5.10.1 Buddhist Digital Resource Center

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

5.10.2 ARK

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

5.10.3 Archive.org

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

5.10.4 Academia.edu

```
\DeclareFieldFormat{eprint:academia}{%
Academia.edu\addcolon\space
\ifhyperref
{\href{http://www.academia.edu/#1}{\nolinkurl{#1}}}
{\nolinkurl{#1}}}
\DeclareFieldAlias{eprint:academia.edu}{eprint:academia}
```

5.10.5 JSTOR

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

5.10.6 Jainelibrary

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

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

5.10.7 DOI

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

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

```
\DeclareFieldFormat{postnote}{#1}
\renewcommand{\postnotedelim}{:\,}
\renewcommand{\nameyeardelim}{ }
```

5.12 ”Forthcoming” hacks

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

```
\DeclareLabeldate{%
    \field{date}
   \field{year}
   \field{pubstate}
   \field{eventdate}
   \field{origdate}
   \field{urldate}
   \literal{nodate}
}
```

5.13 Tighten up URL date

```
\DeclareFieldFormat{urldate}{%
    (on
    \thefield{urlday}\addspace%
    \mkbibmonth{\thefield{urlmonth}}\addspace%
    \thefield{urlyear})\isdot}
```

5.14 Hyperlink magic

Some magic from “moewe” at Stackexchange that makes hyperlinks work from citations to a list of abbreviations.

```
\DeclareFieldFormat{shorthandwidth}{%
    \bibhypertarget{shorthand:\thefield{entrykey}}
    {#1}}

\DeclareFieldFormat{bibhyperref}{%
```

```
    \iffieldundef{shorthand}
    {\bibhyperref{#1}}
    {\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

```
\renewcommand{\blx@ox@compyear}[2]{%
    \def\num@one{#1}%
    \def\num@two{#2}%
    \StrLen{\num@one}[\num@one@len]%
    \StrLen{\num@two}[\num@two@len]%
    \ifboolexpr{
        test {\ifnumequal{\num@one@len}{\num@two@len}}
        and
        test {\ifnumless{\num@one}{\num@two}}
    }{%
        \StrCompare{\num@one}{\num@two}[\Result]%
        \ifnum\num@two@len>3%
        \IfStrEq{\Result}{2}{\def\Result{1}}{}%
        \fi
        %%% Extend the legal date compression behaviour to all entries
        \IfStrEq{\Result}{4}{\def\Result{3}}{}%
        %%% End of changes
        \StrGobbleLeft{0\num@two}{\Result}%
    }{\num@two}}
```

TeX stops reading here.

6 hssa-indexing.sty: indexing for HSSA

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

Formerly used xindy; now updated to use xindex

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

```
%\usepackage[imakeidx] {xindex}  % deprecated by indextools
\usepackage[xindex]{indextools}
% \PassOptionsToPackage{nonewpage}{imakeidx}
%
\indexsetup{level=\section*,
    noclearpage,
    firstpagestyle=fancy
}
%
\makeindex[name=lexical,
title=Lexical Index,
columns=3,
options=  --config iast --no_casesensitive --noheadings, % nocasesensitive,
%noheadings
]
%
\makeindex[name=manuscripts,
title=Index of Manuscripts,
options=  --config iast --no_casesensitive --noheadings,
columns=1]
%
```

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

```
\newcommand{\saneng}[2]
% #1 = Sanskrit
% #2 = English
{#2 (\sansk{#1})%
     \index[lexical]{#2!#1@\emph{#1}}%
    \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.

```
\providecommand{\ssaneng}[2]% silent index entry
% #1 = Sanskrit
% #2 = English
{\index[lexical]{#2!#1@\emph{#1}}%
    \index[lexical]{#1@\emph{#1}!#2}}
```

Tidy up the index spacing:

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

6.2 Commands for citing and indexing manuscripts

\MS To cite manuscripts in canonical form, use the following structure
\MScite \MScite{<City> <Library> <Shelf number>}.
E.g.,

\MS{London Wellcome β 33}

(\MS is shorthand for \MScite.) This prints "MS London Wellcome β 33" in the text and also sends entries to your index of manuscripts, that will be printed at the end of your article with \printindex[manuscripts].

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

\MSnocite And a silent version. This sends an entry to the index but prints nothing in
\MSsilent the main text (works like \nocite):

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

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.

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