# LATEX style file for the *Suśrutasaṃhitā* Incremental Translation

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## 1 Load various local standard macro packages

packages (env.) Load my standard XelaTeX macros. They are maintained and published here: https://github.com/wujastyk/xelatex They do things like set up Polyglossia, choose fonts and languages, load biblaTeX and point to my bibliography, etc.

```
1\usepackage{%
2    xelatex-generic,
3    xelatex-biblatex,
4    xelatex-indexing,
5    booktabs, % better-looking tables
6}
```

hyperref (*env.*) Here we load hyperref and set the colours we want for hyperlinking.

We put it at this position *after* loading the index/glossaries package, xelatex-indexing, to avoid clashes. See the documentation to indextools on this topic of priority.

```
7\usepackage[
8    final=true, % so it doesn't get turned off by "draft"
9    linkcolor = indigo(dye),
10    anchorcolor = indigo(dye),
11    citecolor = indigo(dye),
12    filecolor = indigo(dye),
13    urlcolor = indigo(dye),
14    menucolor = indigo(dye),
15    % pagecolor = indigo(dye),
16]{hyperref}
```

\definecolor And define our desired colours for hyperref above, with the help of http: //latexcolor.com/.

This needs to be stated here, not earlier, because \definecolour is depends on the xcolor package loaded in the main incremental\_SS\_Translation.tex file.

```
17%\definecolor{darkbrown}{rgb}{0.4, 0.26, 0.13}
18\definecolor{indigo(dye)}{rgb}{0.0, 0.25, 0.42}
```

## 2 Running headers and page numbering

```
fancyhdr (env.) Use the fancyhdr package to set up the running headers.
               19 \usepackage{fancyhdr}
               20 \pagestyle{fancy}
               21 % manual p.18
               22 \fancyhf{}%
               23 \renewcommand{\chaptermark}[1]{\markboth{#1}{}}
               24\renewcommand{\sectionmark}[1]{\markright{#1}}
               25 %
               26 \fancyhead [LE] {\thepage}
               27 \fancyhead [RE] {\nouppercase{\emph{\leftmark}}}
               28 \fancyhead [LO] {\nouppercase {\emph{\rightmark}}}
               29 \fancyhead [RO] {\thepage}
   \secounter We don't want huge CHAPTER 1 headings
               30 \setcounter{secnumdepth}{-2}
   plain (env.) We don't want page numbers on a \part page. Redefine pagestyle plain as
   empty (env.) empty. This code is taken from Stack Exchange.
               31 \let\ps@plain\ps@empty
                   Some more packages
```

```
pdfpages (env.) pdfpages helps us to include pdfs in our document; wasysym loads a wide wasysym (env.) range of special symbols that can be useful.

32 \usepackage[final] {pdfpages}
```

33 \usepackage[nointegrals] { wasysym} % for the blob symbols in the table

## 4 More formatting macros

```
penalties (env.) Make nicer pages.
```

```
35\widowpenalty 1500 % default 150
36\clubpenalty 1000 % default 150
37\brokenpenalty 2000 % default 100
```

raftwatermark (env.) Options for adding a watermark to the whole document; currently switched off.

```
38% \usepackage[
39% text={Draft of \today\ for private study only},
40% color={[gray]{0.95}},
41% scale=.27]{draftwatermark}
```

itemsep (*env.*) Use the itemsep package to improve the spacing of lists.

```
42\setlist[enumerate]{noitemsep} % enumitem global setting for \items 43\setlist[itemize]{noitemsep}
```

qtree (env.) Use the qtree package to draw tree-diagrams (see the snakes diagrams in kalpasthāna 4).

```
44 \usepackage{qtree}
```

quoting (*env.*) Use the quoting package for more flexible quote environments:

```
45 \usepackage[vskip=0pt]{quoting}
```

We can now say \begin[<options>]{quoting} ... \end{quoting} and use the <options> for better control. The default here is set to have no space above or below the quotation.

## 5 Fonts and languages

These are all macros from the Polyglossia package (which uses Fontspec).

\fontfamily Set up a Devanagari font.

#### Set up Tamil.

```
57 \newfontfamily\tamilfont
58      {Maduram}
59 %{Noto Serif Tamil}
60 \setotherlanguage{tamil}
```

## 6 Bibliography magic

DeclareFieldFormat Here are some hacks for BibLATEX that make the hyperlinks for URLs and DOIs pretty in the bibliography.

First, option to just print hyperlinked "URL" in the bibliography, not the long, ugly URL.

```
61 \DeclareFieldFormat{url}{%
      \ifhyperref
      % {\textsc{url: }\href{#1}{URL}}
63
      {\href{#1}{\textsc{url}}}
64
      {\textsc{url: }\nolinkurl{#1}}} %DW bug here
Now a macro to make the ARK links do the right thing.
66 \DeclareFieldFormat{eprint:ark}{%
           \textsc{ark:}\space
67
      \ifhyperref
68
      {\href{https://n2t.net/#1}{\nolinkurl{#1}}}
69
      {\nolinkurl{#1}}}
```

## 7 Layout of the translation texts

translation (env.) Make a new environment for the translation with tweaked spacing. The old-fashioned LaTeX way, but this is legacy code that we're not actually using:

```
71% \newenvironment{translation}
72% {\begin{itemize}[noitemsep,
73% left=0pt .. \parindent]}
74% {\end{itemize}}
```

This is what we are actually doing. Make a new environment for the translation with tweaked spacing, the enumitem way:

```
75 \newlist{translation}{enumerate}{2}
```

```
76\setlist[translation]{%
```

- 77 label=\textbullet,
- 78 noitemsep,
- 79 left=Opt .. \parindent}

#### Home-made commands for general conve-8 nience and consistency

#### Referring to standard editions 8.1

\Su This creates references to the *Suśrutasamhitā* vulgate text, like this:

```
\Su{2.5}{564} generates "2.5 (Su 1938: 564)"
```

#1 = the canonical reference (sthāna, adhyāya, verse)

#2 = page number in Acārya's third edition

Later, when we've got our own numbers for our Nepalese edition, we may decide to add them as a third argument.

Here's the definition:

```
80 \newcommand{\Su}[2]{#1 \parencite[#2]{vulgate}}
```

\SuComma And here's a variant that does the same thing but without parentheses. For example:

```
\SuComma{2.5}{564} generates "2.5, Su 1938: 564"
```

Here's the code:

```
81 \newcommand{\SuComma}[2]{#1, \cite[#2]{vulgate}}
```

\Ca The same idea, for the *Carakasamhitā* vulgate:

```
82 \newcommand{\Ca}[2]{#1 \parencite[#2]{cara-trikamji3}}
```

\As The same idea, for the *Astāngasangraha* vulgate by Athāvale and other stan-\Ah dard editions:

```
\Cakra 83\newcommand{\As}[2]{#1a \citep[#2]{atha-1980}}
```

 $\Dalhana$  #1 = canonical

#2 = page of Athāvale's edition

 $84 \neq 193$ } % references to the 85 %\emph{Hrdaya},

#1 = canonical

#2 = page of Kunte and Navare's 6th edition

86\newcommand{\Cakra}[2]{Cakrapānidatta on #1 \citep[#2]{acar-1939}} %

```
references to the 1939 ed, Bhānumatī
#1 = canonical
#2 = page of edition
87 \newcommand{\Dalhana}[2]{\Dalhana on #1 \citep[#2]{vulgate}}
references to the 1938² ed,
#1 = canonical
#2 = page of edition
```

#### 8.2 Names of works

```
\AH Some simple shortcuts for the names of texts.
\AS 88 \renewcommand{\SS}{\emph{Suśrutasaṃhitā}}
\SS 89 \newcommand{\AS}{\emph{Aṣṭāṅgasaṅgraha}}
\AHS 90 \newcommand{\AHS}{\emph{Aṣṭāṅgahṛdayasaṃhitā}}
91 \renewcommand{\AH}{\emph{Aṣṭāṅgahṛdayasaṃhitā}}
```

#### 8.3 Citing Sanskrit words in the text

\se The main commands \saneng and \sanengdev are defined elsewhere. In \sed xelatex-generic-xindex.sty, I believe. What we're doing here is just making some convenient shortcuts, \se ("Sanskrit-English") and \sed "Sanskrit-English-Use Devanagari". These commands print the English word followed by the Sanskrit in parentheses.

They are used like this:

```
\se{vāta}{wind} generates "wind (vāta)"
\sed{vāta}{wind} generates "wind (वात)"

92 \let\se\saneng % just make typing a bit quicker
93 \let\sed\sanengdev % puts the Skt. in the text into Devanagari.
```

Incidentally, they also send the words to the index at the back of the book. This is set up in the file xelatex-indexes.sty.

#### 8.4 Grammatical root

```
\root Just makes "\root bhū" do what you would expect.
94\def\root{\ifmmode\surd\else$\surd$\fi }
```

#### 8.5 Marginal notes

\q This short command stands for "query" and puts a comment or query into a yellow box in the margin of the text. It's not defined here, but in xelatexgeneric.sty. But just for information, here is how it is set up, using the todonotes package.

```
95% \usepackage[colorinlistoftodos,
96%% disable,
97% textsize=tiny,
98% shadow,
99% backgroundcolor=yellow]{todonotes}
100%
101%\def\q#1{{}\todo{#1}{}}
```

We put \newpage \listoftodos just before \end{document} to get a helpful index of these queries.

### 8.6 Marking differences

\diff Mark differences in the Nepalese text by turning them red.

```
102 \newcommand{\diff}[1]{\textcolor{red}{#1}}
```

This is probably just for the draft text, to make interesting differences obvious so we can write about them later.

#### 8.7 Auto-translation and Index of Materia Medica

\gls This is not defined here, but in xelatex-glossaries.sty. It is used like this:

```
\gls{\satavari} generates "wild asparagus"
```

The command looks up the Sanskrit item in our plants.bib database and replaces it with the English term. It also makes an entry for the *Index of Materia Medica*.

## 9 Legacy commands

## 9.1 For the old, four-argument plant command

manyfoot Calling the manyfoot package to use in the definition of \plant. It puts \plant notes about plants in a second layer of footnotes. This is a legacy command

we don't use any more. It's here for historical reasons and in case there are any left over by mistake.

```
103 \usepackage[ruled] {manyfoot}
104 \DeclareNewFootnote{A} [roman]
```

#### 9.2 Some undefined environments

```
prose (env.) These environments can be used, but they are currently defined to do noth-
verse (env.) ing. We might want to do something in future.
avanti phrase (env.) 105 \newenvironment{prose}{\relax }{\relax }

106 \renewenvironment{verse}{\relax }{\relax }

107 \newenvironment{bhavanti}{\relax }{\relax }
```

## 9.3 Load the xcolor package here, just before the document begins

xcolor

108 \usepackage{xcolor} % why here? Move it to the sty file?

## 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	draftwatermark	G
\□	(env.) <u>38</u>	\gls <u>103</u>
A	E	Н
\AH	\else 94	\hangfootnotes $34$
\Ah	\emph 27,	\href 63, 64, 69
\AHS <u>88</u>	28, 85, 88, 89, 90, 91	hyperref (env.) $\dots$ 7
\AS <u>88</u>	empty (env.) <u>31</u>	I
\As <u>83</u>	\end 74	\ifhyperref 62,68
	environments:	\ifmmode 94
В	bhavanti phrase $105$	\items 42
\begin 72	draftwatermark . $38$	itemsep (env.) <u>42</u>
bhavanti phrase	empty $\dots$ $\underline{31}$	_
(env.) <u>105</u>	fancyhdr $\underline{19}$	L
\brokenpenalty 37	hyperref $\dots$ 7	\leftmark 27
С	itemsep $\underline{42}$	\let 31, 92, 93
\Ca 82	packages $\underline{1}$	M
\Cakra 83	pdfpages <u>32</u>	\manyfoot <u>103</u>
\chaptermark ${23}$	penalties $\dots$ 35	\markboth 23
\cite 81	plain $\dots $ $31$	\markright 24
\citep 83,84,86,87	prose <u>105</u>	N
\clubpenalty 36	qtree $\underline{44}$	\newcommand
	quoting $\underline{45}$	80, 81, 82, 83, 84,
D	translation $71$	86, 87, 89, 90, 102
\Dalhana <u>83</u>	verse <u>105</u>	\newenvironment
\DeclareFieldFormat	$wasysym \dots 32$	71, 105, 107
	F	\newfontfamily 57
\DeclareNewFootnote	_	\newlist 75
	fancyhdr (env.) <u>19</u>	\nolinkurl . 65,69,70
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\definecolor $\underline{17}$	\fancyhf 22	n
\devanagarifont 46	\fi 94	P
\diff <u>102</u>	\fontfamily \dots \frac{46}{2}	packages (env.) $\underline{1}$

\pagestyle 20	\renewfontfamily . $46$	\textbullet 77
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pdfpages (env.) <u>32</u>	S	\thepage 26, 29
penalties (env.) $\underline{35}$	\saneng 92	\today 39
$plain (env.) \dots \underline{31}$	\sanengdev 93	\todo 101
\plant <u>103</u>	\se <u>92</u>	translation (env.) . $71$
prose (env.) <u>105</u>	\secounter <u>30</u>	U
\ps@empty 31	\sectionmark 24	\usepackage 1,
\ps@plain 31	\sed <u>92</u>	7, 19, 32, 33, 38,
0	\setcounter 30	44, 45, 95, 103, 108
Q \	\setlist 42,43,76	,,,,
\q <u>95</u>	\setotherlanguage 60	$\mathbf{V}$
qtree (env.)	\space 67	verse (env.) <u>105</u>
quoting (env.) $\dots$ $\underline{45}$	\SS	
R	\Su	W
<del></del>	\SuComma <u>81</u>	wasysym (env.) $\dots$ 32
\relax 105, 106, 107	\surd 94	\widowpenalty 35
\renewcommand		
23, 24, 88, 91		X
\renewenvironment 106	\tamilfont 57	\xcolor <u>108</u>