# LATEX style file for the *Suśrutasaṃhitā* Incremental Translation

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## 1 LaTeX style file for the Incremental Translation of SS

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

We put it at this position before loading the index/glossaries package, to avoid clashes.

```
1 \usepackage[
2    final=true, % so it doesn't get turned off by "draft"
3    linkcolor = indigo(dye),
4    anchorcolor = indigo(dye),
5    citecolor = indigo(dye),
6    filecolor = indigo(dye),
7    urlcolor = indigo(dye),
8    menucolor = indigo(dye),
9    % pagecolor = indigo(dye),
10    ]{hyperref}
```

## 2 Load other 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.

```
11 \usepackage{%
12     xelatex-generic-biblatex-indexing,
13     booktabs, % better-looking tables
14 }
```

\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.

```
15%\definecolor{darkbrown}{rgb}{0.4, 0.26, 0.13}
16\definecolor{indigo(dye)}{rgb}{0.0, 0.25, 0.42}
```

## 3 Running headers and page numbering

```
fancyhdr (env.) Use the fancyhdr package to set up the running headers.
               17 \usepackage{fancyhdr}
               18 \pagestyle{fancy}
               19 % manual p.18
               20 \fancyhf{}%
               21 \renewcommand{\chaptermark}[1]{\markboth{#1}{}}
               22\renewcommand{\sectionmark}[1]{\markright{#1}}
               23 %
               24 \fancyhead [LE] {\thepage}
               25\fancyhead[RE]{\nouppercase{\emph{\leftmark}}}
               26 \fancyhead [LO] {\nouppercase{\emph{\rightmark}}}
               27 \fancyhead [RO] {\thepage}
   \secounter We don't want huge CHAPTER 1 headings
               28\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.
               29 \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.
               30 \usepackage[final] {pdfpages}
               31\usepackage[nointegrals]{wasysym}%for the blob symbols in the table
```

## 5 More formatting macros

```
\hangfootnotes Nice formatting for footnotes. Defined in my xelatex-generic style file.

32 \hangfootnotes

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

```
33\widowpenalty 1500 % default 150
34\clubpenalty 1000 % default 150
35\brokenpenalty 2000 % default 100
```

```
raftwatermark (env.) Options for adding a watermark to the whole document; currently
                   switched off.
                    36% \usepackage[
                    37 % text={Draft of \today\ for private study only},
                    38% color={[gray]{0.95}},
                    39 % scale=.27] {draftwatermark}
      itemsep (env.) Use the itemsep package to improve the spacing of lists.
                    40\setlist[enumerate]{noitemsep} % enumitem global setting for \items
                    41\setlist[itemize] {noitemsep}
        qtree (env.) Use the qtree package to draw tree-diagrams (see the snakes diagrams in
                   kalpasthāna 4).
                    42 \usepackage{qtree}
     quoting (env.) Use the quoting package for more flexible quote environments
                    43 \usepackage{quoting}
                   We can now say \begin[<options>]{quoting} ... \end{quoting} and
                   use the <options> for better control.
                        Fonts and languages
                   6
                   These are all macros from the Polyglossia package (which uses Fontspec).
       \fontfamily Set up a Devanagari font.
                    44\renewfontfamily\devanagarifont
                          [Script=Devanagari,
                    45
                          FakeStretch=1.05,
                    46
                          Mapping=RomDev, %prefer slightly to iast
                    47
                    49 % {Murty Sanskrit}
                    50 % {Sahadeva}
                    51 % {Tiro Devanagari Sanskrit} % pretty good, with excellent roman
                          {Sanskrit 2003} % hard to beat, but poor roman
                   Set up Tamil.
                    53 \newfontfamily\tamilfont
```

54 {Maduram}
55 %{Noto Serif Tamil}

56 \setotherlanguage{tamil}

## 7 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.

```
57 \DeclareFieldFormat{url}{%
58 \ifhyperref
59 % {\textsc{url: }\href{#1}{URL}}
60 {\href{#1}{\textsc{url}}}
61 {\textsc{url: }\nolinkurl{#1}}} %DW bug here
Now a macro to make the ARK links do the right thing.
62 \DeclareFieldFormat{eprint:ark}{%
63 % \textsc{ark:}\space
64 \ifhyperref
65 {\href{https://n2t.net/#1}{\nolinkurl{#1}}}
66 {\nolinkurl{#1}}}
```

## 8 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:

```
67% \newenvironment{translation}
68% {\begin{itemize}[noitemsep,
69% left=0pt .. \parindent]}
70% {\end{itemize}}
```

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

```
71\newlist{translation}{enumerate}{2}
72\setlist[translation]{%
73     label=\textbullet,
74     noitemsep,
75     left=Opt .. \parindent}
```

#### 9 Home-made commands for general convenience and consistency

#### 9.1 Referring to standard editions

\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:

```
76 \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:

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

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

```
78 \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 79 \newcommand{\As}[2]{#1a \citep[#2]{atha-1980}}
```

 $\Dalhana$  #1 = canonical

#2 = page of Aṭhāvale's edition

```
80 \newcommand{\Ah}[2]{#1 \citep[#2]{kunt-1939}} % references to the
81 %\emph{Hrdaya},
```

#1 = canonical

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

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

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

#### 9.2 Names of works

```
\AH Some simple shortcuts for the names of texts.
\AS 84\renewcommand{\SS}{\emph{Suśrutasaṃhitā}}
\SS 85\newcommand{\AS}{\emph{Aṣṭāṅgasaṅgraha}}
\AHS 86\newcommand{\AHS}{\emph{Aṣṭāṅgahṛdayasaṃhitā}}
87\renewcommand{\AH}{\emph{Aṣṭāṅgahṛdayasaṃhitā}}
```

#### 9.3 Citing Sanskrit words in the text

\se The main commands \saneng and \sanengdev are defined elsewhere. \sed In xelatex-generic.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)" 
88 \let\se\saneng % just make typing a bit quicker 
89 \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.

#### 9.4 Grammatical root

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

#### 9.5 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.

```
91% \usepackage[colorinlistoftodos,
92%% disable,
93% textsize=tiny,
94% shadow,
95% backgroundcolor=yellow] {todonotes}
96%
97%\def\q#1{{}\todo{#1}{}}
```

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

#### 9.6 Marking differences

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

```
98 \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.

#### 9.7 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*.

## 10 Legacy commands

### 10.1 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.

```
99 \usepackage[ruled] {manyfoot}
100 \DeclareNewFootnote{A} [roman]
```

#### 10.2 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.) 101 \newenvironment{prose}{\relax }{\relax }

102 \renewenvironment{verse}{\relax }{\relax }

103 \newenvironment{bhavanti}{\relax }{\relax }
```

## 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.

<b>Symbols</b>	draftwatermark	G
\□	(env.) <u>36</u>	\gls <u>99</u>
A	E	Н
\AH	\else 90	\hangfootnotes 32
\Ah	\emph 25,	\href 59, 60, 65
\AHS <u>84</u>	26, 81, 84, 85, 86, 87	hyperref (env.) $\underline{1}$
\AS	empty (env.) <u>29</u>	I
\As <u>79</u>	\end 70	\ifhyperref 58,64
_	environments:	\ifmmode 90
В	bhavanti phrase $101$	\items 40
\begin 68	draftwatermark . $36$	itemsep (env.) <u>40</u>
bhavanti phrase	empty <u>29</u>	- ,
(env.) <u>101</u>	fancyhdr $17$	L
\brokenpenalty 35	hyperref $\dots$ 1	\leftmark 25
C	itemsep $\underline{40}$	\let 29, 88, 89
\Ca 78	packages <u>11</u>	$\mathbf{M}$
\Cakra 79	pdfpages <u>30</u>	\manyfoot 99
\chaptermark 21	penalties $\dots$ 33	$\mbox{\mbox{markboth}}$ $\mbox{\mbox{\mbox{\mbox{21}}}}$
\cite 77	plain <u>29</u>	\markright 22
\citep 79, 80, 82, 83	prose <u>101</u>	NI
\clubpenalty 34	qtree $\underline{42}$	N
1 0	quoting $\dots $ $\underline{43}$	\newcommand
D	translation $\underline{67}$	. 76, 77, 78, 79, 80, 82, 83, 85, 86, 98
\Dalhana <u>79</u>	verse <u>101</u>	\newenvironment
$\DeclareFieldFormat$	wasysym $\dots $ $30$	67, 101, 103
<u>57</u>		\newfontfamily 53
\DeclareNewFootnote	F	\newlist 71
100	fancyhdr (env.) $\underline{17}$	\nolinkurl . 61,65,66
\def 90,97	\fancyhead $24, 25, 26, 27$	\nouppercase 25, 26
\definecolor $\underline{15}$	\fancyhf 20	11
\devanagarifont 44	\fi 90	P
\diff <u>98</u>	\fontfamily $44$	packages (env.) $\underline{11}$

\pagestyle 18	\renewenvironment 102	T
\parencite 76,78	$\ensuremath{\mbox{\sc heavisite}}$ \renewfontfamily . 44	\tamilfont 53
\parindent 69,75	\rightmark 26	\textbullet 73
pdfpages (env.) $30$	\root <u>90</u>	\textcolor 98
penalties (env.) $33$		\textsc 59, 60, 61, 63
plain (env.) <u>29</u>	S	\thepage 24, 27
\plant 99	\saneng 88	\today 37
prose (env.) <u>101</u>	\sanengdev 89	\todo 97
\ps@empty 29	\se <u>88</u>	translation (env.) . $\underline{67}$
\ps@plain 29	\secounter $\underline{28}$	<b>T</b> T
1 1	\sectionmark 22	U
Q	\sed <u>88</u>	\usepackage
\q <u>91</u>	\setcounter 28	1, 11, 17, 30,
qtree (env.) $\dots$ ${42}$	\setlist 40,41,72	31, 36, 42, 43, 91, 99
quoting (env.) $\dots$ $\frac{43}{43}$	\setotherlanguage 56	V
3 ()	\space 63	verse (env.) <u>101</u>
R	\SS	verse (citv.) <u>101</u>
\relax 101, 102, 103	\Su <u>76</u>	$\mathbf{W}$
\renewcommand	\SuComma <u>77</u>	wasysym (env.) <u>30</u>
21, 22, 84, 87	\surd 90	\widowpenalty 33