1 The Estonian language

The file estonian.dtx¹ defines the language definition macro's for the Estonian language.

This file was written as part of the TWGML project, and borrows heavily from the babel German and Spanish language files germanb.ldf and spanish.ldf.

Estonian has the same umlauts as German (ä, ö, ü), but in addition to this, we have also õ, and two recent characters š and ž, so we need at least two active characters. We shall use " and ~ to type Estonian accents on ASCII keyboards (in the 7-bit character world). Their use is given in table 1. These active accent

```
\o, (and uppercase);
    \"a, (and uppercase);
    \"o, (and uppercase);
"u
    \"u, (and uppercase);
     \v s, (and uppercase);
    \v z, (and uppercase);
     disable ligature at this position;
    like \-, but allowing hyphenation in the rest of the
11 (
     for Estonian low left double quotes (same as Ger-
     man);
     for Estonian right double quotes;
"<
     for French left double quotes (also rather popular)
     for French right double quotes.
```

Table 1: The extra definitions made by estonian.ldf

characters behave according to their original definitions if not followed by one of the characters indicated in that table; the original quote character can be typed using the macro \dq.

We support also the T1 output encoding (and Cork-encoded text input). You can choose the T1 encoding by the command \usepackage[T1]{fontenc}. This package must be loaded before babel. As the standard Estonian hyphenation file eehyph.tex is in the Cork encoding, choosing this encoding will give you better hyphenation.

As mentioned in the Spanish style file, it may happen that some packages fail (usually in a \message). In this case you should change the order of the \usepackage declarations or the order of the style options in \documentclass.

 $^{^{1}}$ The file described in this section has version number v1.0k and was last revised on 2009/03/08. The original author is Enn Saar, (saar@aai.ee).

1.1 Implementation

The macro \LdfInit takes care of preventing that this file is loaded more than once, checking the category code of the @ sign, etc.

- 1 (*code
- 2 \LdfInit{estonian}\captionsestonian

If Estonian is not included in the format file (does not have hyphenation patterns), we shall use English hyphenation.

- 3 \ifx\l@estonian\@undefined
- 4 \@nopatterns{Estonian}
- 5 \adddialect\l@estonian0
- 6 \fi

Now come the commands to switch to (and from) Estonian.

\captionsestonian

The macro \captionsestonian defines all strings used in the four standard document classes provided with LATEX.

- 7 \addto\captionsestonian{%
- 8 \def\prefacename{Sissejuhatus}%
- 9 \def\refname{Viited}%
- 10 \def\bibname{Kirjandus}%
- 11 \def\appendixname{Lisa}%
- 12 \def\contentsname{Sisukord}%
- 13 \def\listfigurename{Joonised}%
- 14 \def\listtablename{Tabelid}%
- 15 \def\indexname{Indeks}%
- 16 \def\figurename{Joonis}%
- 17 \def\tablename{Tabel}%
- 18 \def\partname{0sa}%
- 19 \def\enclname{Lisa(d)}%
- 20 \def\ccname{Koopia(d)}%
- 21 \def\headtoname{}%
- 22 \def\pagename{Lk.}%
- 23 \def\seename{vt.}% 24 \def\alsoname{vt. ka}%
- 25 }

These captions contain accented characters.

- 26 \begingroup \catcode'\"\active
- 27 \def\x{\endgroup
- 28 \addto\captionsestonian{%
- 29 \def\abstractname{Kokkuv~ote}%
- $30 \quad \texttt{\def\chaptername{Peat"ukk}\%}$
- 31 \def\proofname{T~oestus}%
- 32 \def\glossaryname{S~onastik}%
- 33 }}\x

\dateestonian

The macro \datestonian redefines the command \today to produce Estonian dates.

```
34 \begingroup \catcode'\"\active
                   35 \def\x{\endgroup
                        \def\month@estonian{\ifcase\month\or
                   37
                          jaanuar\or veebruar\or m"arts\or aprill\or mai\or juuni\or
                          juuli\or august\or september\or oktoober\or november\or
                   38
                          detsember\fi}}
                   39
                   40 \x
                   41 \def\dateestonian{%
                       \def\today{\number\day.\space\month@estonian
                   42
                          \space\number\year.\space a.}}
                      Some useful macros, copied from the spanish package (and renamed esc... to
                   et@...).
                   44 \def\et@sdef#1{\babel@save#1\def#1}
                   46 \@ifundefined{documentclass}
                   47 {\let\ifet@latex\iffalse}
                      {\let\ifet@latex\iftrue}
                   The macro \extrasestonian will perform all the extra definitions needed for
  \extrasestonian
\noextrasestonian
                               The macro \noextrasestonian is used to cancel the actions of
                    \extrasestonian. For Estonian, " is made active and has to be treated as 'special'
                   (~ is active already).
                   49 \initiate@active@char{"}
                   50 \initiate@active@char{~}
                   51 \addto\extrasestonian{\languageshorthands{estonian}}
                   52 \addto\extrasestonian{\bbl@activate{"}\bbl@activate{"}}
                       Estonian does not use extra spaces after sentences.
```

\estonianhyphenmins

For Estonian, \lefthyphenmin and \righthyphenmin are both 2.

55 \providehyphenmins{\CurrentOption}{\tw@\tw@}

53 \addto\extrasestonian{\bbl@frenchspacing}
54 \addto\noextrasestonian{\bbl@nonfrenchspacing}

The standard TEX accents are too high for Estonian typography, we have to lower them (following the babel German style). For umlauts, we can use \umbbabel.ldf.

- 56 \addto\extrasestonian{\umlautlow}
- $57 \add to \no extrases to nian {\umlauthigh}$

Redefine tilde (as in spanish.ldf). In case of LaTeX, we redefine the internal macro for the OT1 encoding because in case of T1, the display and hyphenation of words containing \~o works better without redefining it (e. g. words containing \et@gentilde are not hyphenated unless \allowhyphens is used; when copied from Acrobat Reader, pasting an õ generated using \et@gentilde{o} gives ~o rather than õ; when the times package is used with T1 encoding, \et@gentilde places the tilde through the letter o). In plain TeX there is no encoding infrastructure, so we just redefine \~.

```
58 \ifet@latex
                 \addto\extrasestonian{%
                   \expandafter\et@sdef\csname OT1\string\~\endcsname{\et@gentilde}}
             61 \else
                 \addto\extrasestonian{\et@sdef\~{\et@gentilde}}
             63 \fi
\et@gentilde
             64 \def\et@gentilde#1{%
                   \if#1s\v{#1}\else\if#1S\v{#1}\else%
                   \if#1z\v{#1}\else\if#1Z\v{#1}\else%
             67
                   \et@newtilde{#1}%
                   \fi\fi\fi\fi\}
\et@newtilde
             For a detailed explanation of the following code see the definition of \lower@umlaut
             in babel.dtx.
             69 \def\et@newtilde#1{%
                 \leavevmode\bgroup\U@D 1ex%
             70
                   71
                     \ifdim 1ex<\dimen@ \fontdimen5\font\dimen@ \fi}%
             72
                   \accent126\fontdimen5\font\U@D #1%
             73
                 \egroup}
                We save the double quote character in \dq, and tilde in \til.
             75 \begingroup \catcode'\"12
             76 \edef\x{\endgroup
                 \def\noexpand\dq{"}
                 \def\noexpand\til{~}}
             79 \x
                If the encoding is T1, we have to tell TEX about our redefined accents.
             80 \ifx\f@encoding\bbl@t@one
                 \DeclareTextComposite{^*}{T1}{s}{178}
             81
                 82
                 \DeclareTextComposite{^*}{T1}{z}{186}
             83
                 \DeclareTextComposite{\~}{T1}{Z}{154}
             84
                 \DeclareTextComposite{\"}{T1}{'}{17}
             86
                 \DeclareTextComposite{\"}{T1}{'}{18}
             87
                 \DeclareTextComposite{\"}{T1}{<}{19}
                 \DeclareTextComposite{\"}{T1}{>}{20}
                If the encoding differs from T1, we expand the accents, enabling hyphenation
             beyond the accent. In this case TFX will not find all possible breaks, and we have
             to warn people.
```

```
Now we define the shorthands: umlauts,
    92 \declare@shorthand{estonian}{"a}{\textormath{\"{a}\allowhyphens}{\ddot a}}
    93 \declare@shorthand{estonian}{"A}{\textormath{\"{A}\allowhyphens}{\ddot A}}
    94 \declare@shorthand{estonian}{"o}{\textormath{\"{o}}\allowhyphens}{\ddot o}}
    95 \end{estimate} \end{estimates} \end{estim
    96 \end{estimate} \fill $$96 \end{estimate} \fill $$ u}{\end{estimate} \fill $$1 \end{estimate} \fill $$1 \end{estimate} $$1 \end{estimate} \fill $$1 \end{estimate} \fill $$1 \end{estimate} $$1 \end{estimate} \fill $$1 
    97 \declare@shorthand{estonian}{"U}{\textormath{\"{U}}\allowhyphens}{\ddot U}}
    German and French quotes,
    98 \declare@shorthand{estonian}{"'}{%
                         \textormath{\quotedblbase}{\mbox{\quotedblbase}}}
100 \declare@shorthand{estonian}{"'}{%
                         \textormath{\textquotedblleft}{\mbox{\textquotedblleft}}}
102 \declare@shorthand{estonian}{"<}{%
                         \textormath{\guillemotleft}{\mbox{\guillemotleft}}}
104 \declare@shorthand{estonian}{">}{%
                         \textormath{\guillemotright}{\mbox{\guillemotright}}}
    tildes and carons
106 \end{converse} {\tt 106 \end{converse} {\tt 106 \end{converse}} {\tt
107 \declare@shorthand{estonian}{^0}{\textormath{\^{0}}\allowhyphens}{\tilde 0}}
108 \declare@shorthand{estonian} {^s}{\text{textormath}(vs}\allowhyphens}{\check s}{
109 \ensuremath{\v{S}}\allowhyphens}{\check S}
110 \declare@shorthand{estonian}{~z}{\textormath{\v{z}\allowhyphens}{\check z}}
111 \declare@shorthand{estonian}{^Z}{\textormath{\v{Z}\allowhyphens}{\check Z}}
    and some additional commands:
```

The macro \ldf@finish takes care of looking for a configuration file, setting the main language to be switched on at \begin{document} and resetting the category code of @ to its original value.

112 $\declare@shorthand{estonian}{"-}{\nobreak}-\bbl@allowhyphens}$

\textormath{\nobreak\discretionary{-}{}{\kern.03em}%

\allowhyphens}{}}

```
118 \ldf@finish{estonian} 119 \langle /code \rangle
```

115

113 \declare@shorthand{estonian}{"|}{%

% in the proof of the content of th