1 The Norwegian language

The file norsk.dtx¹ defines all the language definition macros for the Norwegian language as well as for an alternative variant 'nynorsk' of this language.

For this language the character " is made active. In table 1 an overview is given of its purpose.

- "ff for ff to be hyphenated as ff-f, this is also implemented for b, d, f, g, l, m, n, p, r, s, and t. (o"ppussing)
- "ee Hyphenate "ee as \'e-e. (komit"een)
- "- an explicit hyphen sign, allowing hyphenation in the composing words. Use this for compound words when the hyphenation patterns fail to hyphenate properly. (alpin"-anlegg)
- "| Like "-, but inserts 0.03em space. Use it if the compound point is spanned by a ligature. (hoff"|intriger)
- "" Like "-, but producing no hyphen sign. (i""g\aa{}r)
- " Like -, but allows no hyphenation at all. (E"cup)
- "= Like -, but allowing hyphenation in the composing words. (marksistisk"=leninistisk)
- "
 for French left double quotes (similar to <<).
- "> for French right double quotes (similar to >>).

Table 1: The extra definitions made by norsk.sty

Rune Kleveland distributes a Norwegian dictionary for ispell (570000 words). It can be found at http://www.uio.no/~runekl/dictionary.html.

This dictionary supports the spellings spi"sslede for 'spisslede' (hyphenated spiss-slede) and other such words, and also suggest the spelling spi"sslede for 'spisslede' and 'spissslede'.

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\CurrentOption{captions\CurrentOption}

When this file is read as an option, i.e. by the \usepackage command, norsk will be an 'unknown' language in which case we have to make it known. So we check for the existence of \lambda@norsk to see whether we have to do something here.

- 3 \ifx\l@norsk\@undefined
- 4 \@nopatterns{Norsk}
- 5 \adddialect\l@norsk0\fi

¹The file described in this section has version number v2.0i and was last revised on 2012/08/06. Contributions were made by Haavard Helstrup (HAAVARD@CERNVM) and Alv K-jetil Holme (HOLMEA@CERNVM); the 'nynorsk' variant has been supplied by Per Steinar Iversen iversen@vxcern.cern.ch) and Terje Engeset Petterst (TERJEEP@VSFYS1.FI.UIB.NO); the shorthand definitions were provided by Rune Kleveland (runekl@math.uio.no).

\norskhyphenmins

Some sets of Norwegian hyphenation patterns can be used with \lefthyphenmin set to 1 and \righthyphenmin set to 2, but the most common set nohyph.tex can't. So we use \lefthyphenmin=2 by default.

6 \providehyphenmins{\CurrentOption}{\tw@\tw@}

Now we have to decide which version of the captions should be made available. This can be done by checking the contents of \CurrentOption.

- 7 \def\bbl@tempa{norsk}
- 8 \ifx\CurrentOption\bbl@tempa

The next step consists of defining commands to switch to (and from) the Norwegian language.

\captionsnorsk

The macro $\colon \colon \col$

```
\def\captionsnorsk{%
      \def\prefacename{Forord}%
10
      \def\refname{Referanser}%
11
12
      \def\abstractname{Sammendrag}%
      \def\bibname{Bibliografi}%
                                       or Litteraturoversikt
13
                                       or Litteratur or Referanser
14
      \def\chaptername{Kapittel}%
15
16
      \def\appendixname{Tillegg}%
                                       or Appendiks
17
      \def\contentsname{Innhold}%
      \def\listfigurename{Figurer}%
18
                                       or Figurliste
      \def\listtablename{Tabeller}%
                                      or Tabelliste
19
      \def\indexname{Register}%
20
      \def\figurename{Figur}%
21
      \def\tablename{Tabell}%
22
      \def\partname{Del}%
23
      \def\enclname{Vedlegg}%
25
      \def\ccname{Kopi sendt}%
26
      \def\headtoname{Til}% in letter
27
      \def\pagename{Side}%
      \def\seename{Se}%
28
      \def\alsoname{Se ogs\aa{}}%
29
30
      \def\proofname{Bevis}%
31
      \def\glossaryname{Ordliste}%
32
33 \setminus else
```

For the 'nynorsk' version of these definitions we just add a "dialect".

\adddialect\l@nynorsk\l@norsk

\captionsnynorsk

The macro \captionsnynorsk defines all strings used in the four standard document classes provided with IATEX, but using a different spelling than in the command \captionsnorsk.

- 35 \def\captionsnynorsk{%
- 36 \def\prefacename{Forord}%

```
37
      \def\refname{Referansar}%
      \def\abstractname{Samandrag}%
38
      \def\bibname{Litteratur}%
                                     or Litteraturoversyn
39
40
       %
                                      or Referansar
      \def\chaptername{Kapittel}%
41
      \def\appendixname{Tillegg}%
42
                                     or Appendiks
      \def\contentsname{Innhald}%
43
      \def\listfigurename{Figurar}% or Figurliste
44
      \def\listtablename{Tabellar}% or Tabelliste
45
      \def\indexname{Register}%
46
47
      \def\figurename{Figur}%
      \def\tablename{Tabell}%
48
      \def\partname{Del}%
49
      \def\enclname{Vedlegg}%
50
      \def\ccname{Kopi til}%
51
      \def\headtoname{Til}% in letter
52
      \def\pagename{Side}%
53
      \def\seename{Sj\aa{}}%
54
      \def\alsoname{Sj\aa{} \'{o}g}%
55
56
      \def\proofname{Bevis}%
57
      \def\glossaryname{Ordliste}%
58
      }
59 \fi
```

\datenorsk

The macro $\del{datenorsk}$ redefines the command \today to produce Norwegian dates.

```
60 \@namedef{date\CurrentOption}{%
```

- $61 \ \def \dey{\number\day.~\if case\month\or}$
- $_{62}$ januar\or februar\or mars\or april\or mai\or juni\or
- 63 juli\or august\or september\or oktober\or november\or
- 64 desember\fi
- 65 \space\number\year}}

\extrasnorsk

The macro \extrasnorsk will perform all the extra definitions needed for the Norwegian language. The macro \noextrasnorsk is used to cancel the actions of \extrasnorsk.

Norwegian typesetting requires \frencspacing to be in effect.

- 66 \@namedef{extras\CurrentOption}{\bbl@frenchspacing}
- 67 \@namedef{noextras\CurrentOption}{\bbl@nonfrenchspacing}

For Norsk the " character is made active. This is done once, later on its definition may vary.

- 68 \initiate@active@char{"}
- 69 \expandafter\addto\csname extras\CurrentOption\endcsname{%
- 70 \languageshorthands{norsk}}
- 71 \expandafter\addto\csname extras\CurrentOption\endcsname{%
- 72 \bbl@activate{"}}

Don't forget to turn the shorthands off again.

```
73 \exp 3 \exp 3  \condition\csname noextras\CurrentOption\endcsname{% 74 \ \bdotsname{"}}
```

The code above is necessary because we need to define a number of shorthand commands. These sharthand commands are then used as indicated in table 1.

To be able to define the function of ", we first define a couple of 'support' macros.

\dq We save the original double quote character in \dq to keep it available, the math accent \" can now be typed as ".

```
75 \begingroup \catcode'\"12
76 \def\x{\endgroup
77 \def\@SS{\mathchar"7019 }
78 \def\dq{"}}
79 \x
```

Now we can define the discretionary shorthand commands. The number of words where such hyphenation is required is for each character

```
b d f g k l n p r s t
4 4 15 3 43 30 8 12 1 33 35
```

taken from a list of 83000 ispell-roots.

```
80 \declare@shorthand{norsk}{"b}{\textormath{\bbl@disc b{bb}}{b}}
81 \declare@shorthand{norsk}{"B}{\textormath{\bbl@disc B{BB}}{B}}
82 \declare@shorthand{norsk}{"d}{\textormath{\bbl@disc d{dd}}{d}}
83 \declare@shorthand{norsk}{"D}{\textormath{\bbl@disc D{DD}}{D}}
84 \declare@shorthand{norsk}{"e}{\textormath{\bbl@disc e{\'e}}{}}
85 \declare@shorthand{norsk}{"E}{\textormath{\bbl@disc E{\'E}}{}}
86 \declare@shorthand{norsk}{"F}{\textormath{\bbl@disc F{FF}}{F}}
87 \declare@shorthand{norsk}{"g}{\textormath{\bbl@disc g{gg}}{g}}
88 \declare@shorthand{norsk}{"G}{\textormath{\bbl@disc G{GG}}{G}}
89 \declare@shorthand{norsk}{"k}{\textormath{\bbl@disc k{kk}}{k}}
90 \declare@shorthand{norsk}{"K}{\textormath{\bbl@disc K{KK}}{K}}
91 \declare@shorthand{norsk}{"l}{\textormath{\bbl@disc 1{11}}{1}}
92 \declare@shorthand{norsk}{"L}{\textormath{\bbl@disc L{LL}}{L}}
93 \declare@shorthand{norsk}{"n}{\textormath{\bbl@disc n{nn}}{n}}
94 \ensuremath{\hllower10} (NN)}{N} \
95 \declare@shorthand{norsk}{"p}{\textormath{\bbl@disc p{pp}}{p}}
96 \declare@shorthand{norsk}{"P}{\textormath{\bbl@disc P{PP}}{P}}
97 \declare@shorthand{norsk}{"r}{\textormath{\bbl@disc r{rr}}{r}}
98 \declare@shorthand{norsk}{"R}{\textormath{\bbl@disc R{RR}}{R}}
99 \declare@shorthand{norsk}{"s}{\textormath{\bbl@disc s{ss}}{s}}
100 \declare@shorthand{norsk}{"S}{\textormath{\bbl@disc S{SS}}{S}}
101 \declare@shorthand{norsk}{"t}{\textormath{\bbl@disc t{tt}}{t}}
102 \declare@shorthand{norsk}{"T}{\textormath{\bbl@disc T{TT}}{T}}
```

```
103 \end{norsk} {\tt "f} {\tt textormath{\bbl@discff}{f}} \\
```

 $^{104 \}end{area} $104 \end{area} \end{area} \label{locality} \end{area}$

We now define the French double quotes and some commands concerning hyphenation:

```
111 \declare@shorthand{norsk}{"<}{flqq}
112 \declare@shorthand{norsk}{">}{\frqq}
113 \declare@shorthand{norsk}{"-}{\penalty\@M\-\bbl@allowhyphens}
114 \declare@shorthand{norsk}{"|}{%
115 \textormath{\penalty\@M\discretionary{-}{}{\kern.03em}%
116 \allowhyphens}{}}
117 \declare@shorthand{norsk}{""}{\hskip\z@skip}
118 \declare@shorthand{norsk}{""}{\textormath{\leavevmode\hbox{-}}{-}}}
119 \declare@shorthand{norsk}{""=}{\penalty\@M-\hskip\z@skip}
```

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.

```
120 \ldf@finish\CurrentOption 121 \langle /code \rangle
```