

# 1 The Piedmontese language

The file `piedmontese.dtx`<sup>1</sup> defines all the language definition macros for the Piedmontese language<sup>2</sup>.

The macro `\LdfInit` takes care of preventing that this file is loaded more than once, checking the category code of the `@` sign, etc. `\CurrentOption` is actually the name of language that was specified as an option in the call to `babel`.

```
1 \LdfInit{\CurrentOption}{captions\CurrentOption}
```

When this file is read as an option to the `\usepackage` command that loads `babel`, `piedmontese` could be an ‘unknown’ language, or better, a language whose patterns have not been loaded into the format file; in this case we have to make it known. So we check for the existence of `\l@piedmontese` to see whether we have to do something here. If the Piedmontese patterns have not (yet) been loaded in the format file, we prefer to declare `piedmontese` a dialect of `italian` rather than a dialect of `english`, although we resort to the latter language if also the Italian patterns have not been loaded into the format file: this unfortunately happens when a basic `TEX` system installation is being used.

```
2 \LdfInit\CurrentOption{captions\CurrentOption}
3 \ifx\l@piedmontese\undefined
4   \nopatterns{piedmontese}
5   \ifx\l@italian\undefined
6     \nopatterns{italian}
7     \addialect\l@piedmontese\l@english
8   \else
9     \addialect\l@piedmontese\l@italian
10  \fi
11 \fi
```

`\captionspiedmontese` The macro `\captionspiedmontese` defines all strings used in the four standard documentclasses provided with `LATEX`.

```
12 \@namedef{captions\CurrentOption}{%
13   \def\prefacename{Prefassion}%
14   \def\refname{Riferiment}%
15   \def\abstractname{Somari}%
16   \def\bibname{Bibliograf\‘ia}%
17   \def\chaptername{Cap\‘itol}%
18   \def\appendixname{Gionta}%
19   \def\contentsname{T\‘aula}%
20   \def\listfigurename{Lista dle figure}%
21   \def\listtablename{Lista dle tabele}%
22   \def\indexname{T\‘aula anal\‘itica}%
23   \def\figurename{Figura}%
24   \def\tablename{Tabela}%
25   \def\partname{Part}%
```

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<sup>1</sup>The file described in this section has version number v.1.0 and was last revised on 2013/02/12.

<sup>2</sup>Language ISO 639 coded with letter identification `pms`. This file was created by Claudio Beccari; see the source file for more information.

```

26 \def\enclname{Gionta/e}%
27 \def\ccname{Con c\`opia a}%
28 \def\headtoname{P\`er}%
29 \def\pagename{P\`agina}%
30 \def\seename{v\`ed}%
31 \def\alsoname{v\`ed anche}%
32 \def\proofname{Dimostrassion}%
33 \def\glossaryname{Glossari}%
34 }

```

`\datepiedmontese` The macro `\datepiedmontese` redefines the command `\today` to produce Piedmontese dates. The proposition corresponding to ‘of’ has three spellings in Piedmontese, one general (öd), one to be used in front of words starting with a group of consonants (dö), and a third one, that derives from the latter by vocalic elision (d’) to be used in front of words starting with a vowel.

```

35 \@namedef{date\CurrentOption}{%
36 \def\today{\number\day\space \space\ifcase\month\or
37 \`ed gen\`e\or \`ed fevr\`e\or \`ed mars\or d’avril\or
38 \`ed maj\or \`ed giugn\or \`ed luj\or d’agost\or
39 d\`e st\`ember\or d’ot\`ober\or \`ed nov\`ember\or
40 d\`e dz\`ember\fi\space dal\space\number\year}}

```

`\piedmontesehyphenmins` This macro is used to store the correct values of the hyphenation parameters `\lefthyphenmin` and `\righthyphenmin`.

```

41 \providehyphenmins{\CurrentOption}{\tw@\tw@}

```

`\extraspiedmontese` The next step consists of defining commands to switch to (and from) the Piedmontese language.  
`\noextraspiedmontese`

The macro `\extraspiedmontese` will perform all the extra definitions needed for the Piedmontese language. The macro `\noextraspiedmontese` is used to cancel the actions of `\extraspiedmontese`. In particular we set pretty high default values for widow and club lines and very high demerits to avoid that the last line starts with the second half of a hyphenated word. We also assign a non zero value `\lccode` to the apostrophe that in Piedmontese is being used for marking a vocalic elision and for apocope; by giving it a non zero value, the hyphenation algorithm treats the phrase formed by the article or articulated preposition and the following term as a single word and the patterns for Piedmontese take care of avoiding line breaks right after the apostrophe.

```

42 \expandafter\addto\csname extras\CurrentOption\endcsname{%
43 \babel@savevariable\clubpenalty
44 \babel@savevariable\widowpenalty
45 \babel@savevariable@cclubpenalty
46 \clubpenalty3000\widowpenalty3000@cclubpenalty\clubpenalty}%
47 \expandafter\addto\csname extras\CurrentOption\endcsname{%
48 \babel@savevariable\finalhyphendemerits
49 \finalhyphendemerits50000000}%
50 \expandafter\addto\csname extras\CurrentOption\endcsname{%
51 \lccode‘ ’=‘ ’}%

```

```

52 \expandafter\addto\csname noextras\CurrentOption\endcsname{%
53   \lccode' '=0}%

```

The double straight quote " is made active for the current language. Its purpose is primarily to produce a diacritic hyphen; meanwhile it is convenient to let it perform some other little tasks, such as to insert an etymologic line break, to simplify the `\slash` command, and to ease the introduction of the double raised open quotes, that are cumbersome to insert with the Italian keyboard.

The main activation of the " sign is done through the `babel` command `\declare@shorthand` that checks if the " has been used in math or in text mode; if in text mode, a service macro `\pms@next` is defined that upon execution lets a future token be aliased by the implicit token c.s. `\pms@temp`, while the actual work is demanded to `\pms@cwm`.

```

54 \initiate@active@char{"}%
55 \expandafter\addto\csname extras\CurrentOption\endcsname{%
56 \bbl@activate{"}\languageshorthands{piedmontese}}%
57 \declare@shorthand{piedmontese}{"}{%
58 \ifmmode
59   \def\pms@next{''}%
60 \else
61   \def\pms@next{\futurelet\pms@temp\pms@cwm}%
62 \fi
63 \pms@next
64 }%

```

After defining another service macro `\pms@@cwm` for introducing a discretionary break that may be inserted in the middle of a word, allowing another break point, but allowing hyphenation in both letter strings that sit at either side of this break point. The the `\pms@cwm` macro is defined to perform the necessary actions depending on the nature of the token memorized into the temporary c.s. `\pms@temp`. The `\@gobble` macro must be repeated at each test, otherwise it gobbles the `\fi` of the outer test. An `\expandafter` construct might reduce this repetition.

```

65 \DeclareRobustCommand*\pms@cwm{\let\pms@@next\relax
66 \ifcat\noexpand\pms@temp a%
67   \def\pms@@next{\pms@@cwm}%
68 \else
69   \ifx\pms@temp/%
70     \def\pms@@next{\bbl@allowhyphens/\bbl@allowhyphens\@gobble}%
71   \else
72     \ifx\pms@temp-%
73       \def\pms@@next{\bbl@allowhyphens-\bbl@allowhyphens\@gobble}%
74     \else
75       \ifx\pms@temp"%
76         \def\pms@@next{' '\expandafter\@gobble\string}%
77       \fi
78     \fi
79   \fi
80 \fi
81 \pms@@next}%

```

```
\noextraspiedmontese This done, we are ready to prepare the switch back to another language”  
82 \expandafter\addto\csname noextras\CurrentOption\endcsname{%  
83 \bbl@deactivate{"}}
```

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.

```
84 \ldf@finish\CurrentOption
```