# Babel support for the German language (new orthography)

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#### Abstract

This manual documents the babel language definition file ngermanb.ldf for German (new orthography). The file is part of the babel-german bundle.

## 1 Aim and usage

The file ngermanb.ldf provides the babel package with all language definition macros (language specific strings and settings) for the German language, including the Austrian and Swiss varieties of German. Furthermore, it assures that the correct hyphenation patterns for the respective language or variety are used.¹ The file adheres to the reformed (1996 ff.) orthography. For traditional (1901–1996) German orthography support, please refer to the complementary germanb.ldf file.

In order to use the language definitions provided here, you need to use the babel package and pass the respective language name as an option, either of

- \usepackage[ngerman]{babel}
- \usepackage[naustrian]{babel}
- \usepackage[nswissgerman]{babel}

Please consult the babel manual [2] for details.

## 2 Shorthands

For all three varieties of German, the character " is made active in order to provide some shorthand macros for frequently used special characters as well for better control of hyphenation, line breaks and ligatures. Table 1 provides an overview of the shorthands that are provided by ngermanb.ldf.

 $<sup>*</sup>Current\ maintainer.\ Please\ report\ issues\ via\ \verb|https://github.com/jspitz/babel-german|.$ 

<sup>&</sup>lt;sup>1</sup>The file ngermanb.ldf started as a re-implementation of the package ngerman.sty by Bernd Raichle (cf. [4]), which itself builds on german.sty, originally developed by Hubert Partl (cf. [3]) and later maintained by Bernd Raichle as well. The re-implementation was done by Johannes Braams.

- Umlaut  $\langle \ddot{a} \rangle$  (shorthand for "a). Similar shorthands are available for all other lowerand uppercase vowels (umlauts: "a, "o, "u, "A, "0, "U; tremata: "e, "i, "E, "I).
- German  $\langle \mathfrak{G} \rangle$  (shorthand for \ss{}).
- German  $\langle \mathcal{B} \rangle$  (shorthand for \ss{}). The difference to "s is the uppercase version. " z
- "S \uppercase{"s}, typeset as  $\langle SS \rangle (\langle B \rangle)$  must be written as  $\langle SS \rangle$  in uppercase writing).
- \uppercase{"z}, typeset as  $\langle SZ \rangle$ . In traditional spelling,  $\langle \beta \rangle$  could also be written as "Z  $\langle SZ \rangle$  instead of  $\langle SS \rangle$  in uppercase writing. Note that, with reformed orthography, the  $\langle SZ \rangle$  variant has been deprecated in favour of  $\langle SS \rangle$  only.
- Disable ligature at this position (e.g., at morpheme boundaries, as in Auf" | lage).
- An additional breakpoint that does still allow for hyphenation at the breakpoints preset in the hyphenation patterns (as opposed to \-).
- A breakpoint that does not output a hyphen if the line break is performed (useful for compound words with hyphen, e.g., (Un-)""Sinn).
- An explicit hyphen without a breakpoint. Useful for cases where the hyphen should stick at the following word, e.g., bergauf und "~ab.
- An explicit hyphen with a breakpoint, allowing for hyphenation at the other points preset in the hyphenation patterns (as opposed to plain -); useful for long compounds.
- A slash that allows for a linebreak. As opposed to \slash{}, hyphenation at the in v. 2.9! breakpoints preset in the hyphenation patterns is still allowed.
  - German left double quotes  $\langle , \rangle$ .
    - German right double quotes  $\langle$  " $\rangle$ .
    - French/Swiss left double quotes  $\langle w \rangle$ . "<
    - French/Swiss right double quotes  $\langle * \rangle$ . ">

Table 2 lists some babel macros for quotation marks that might be used as an alternative to the quotation mark shorthands provided by ngermanb.ldf.

Table 2: Alternative commands for quotation marks (provided by babel)

\glqq	German left double quotes $\langle , \rangle$ .
\grqq	German right double quotes $\langle \text{``} \rangle$ .
\glq	German left single quotes $\langle , \rangle$ .
\grq	German right single quotes $\langle  \rangle$ .
\flqq	French/Swiss left double quotes $\langle « \rangle$ .
\frqq	French/Swiss right double quotes (»).
\flq	French/Swiss left single quotes $\langle \cdot \rangle$ .
\frq	French/Swiss right single quotes $\langle \cdot \rangle$ .
\dq	The straight quotation mark character $\langle " \rangle$ .

## **3 Implementation**

## 3.1 General settings

If ngermanb.ldf is read via the deprecated babel option ngermanb, we make it behave as if ngerman was specified.

```
1 \def\bbl@tempa{ngermanb}
2 \ifx\CurrentOption\bbl@tempa
3 \def\CurrentOption{ngerman}
4 \fi
```

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

```
5 \LdfInit\CurrentOption{captions\CurrentOption}
```

If ngermanb.ldf is read as an option, i.e., by the \usepackage command, ngerman could be an 'unknown' language, so we have to make it known. We check for the existence of \l@ngerman and issue a warning if it is unknown.

```
6 \ifx\l@ngerman\@undefined
7 \@nopatterns{German (new orthography)}
8 \adddialect\l@ngerman0
9 \fi
```

We set naustrian and nswissgerman as dialects of ngerman, since they use the same hyphenation patterns than ngerman. If no ngerman patterns are found, we issue a warning.

```
10 \def\bbl@tempa{naustrian}
11 \ifx\CurrentOption\bbl@tempa
12 \ifx\l@ngerman\@undefined
      \@nopatterns{German (new orthography), needed by Austrian (new orthography)}
      \adddialect\l@naustrian0
14
   \else
15
16
      \adddialect\l@naustrian\l@ngerman
17 \fi
18\fi
19 \def\bbl@tempa{nswissgerman}
20 \ifx\CurrentOption\bbl@tempa
   \ifx\l@ngerman\@undefined
      \@nopatterns{German (new orthography), needed by Swiss German (new orthography)}
      \adddialect\l@nswissgerman0
23
   \else
24
     \adddialect\l@nswissgerman\l@ngerman
25
27\fi
```

## 3.2 Language-specific strings (captions)

The next step consists of defining macros that provide language specific strings and settings.

\@captionsngerman

The macro \@captionsngerman defines all strings used in the four standard document classes provided with LTFX for German. This is an internal macro that is inherited and modified by the following macros for the respective language varieties.

```
28 \@namedef{@captionsngerman}{%
   \def\prefacename{Vorwort}%
   \def\refname{Literatur}%
30
   \def\abstractname{Zusammenfassung}%
31
   \def\bibname{Literaturverzeichnis}%
32
33 \def\chaptername{Kapitel}%
_{34} \def\appendixname{Anhang}%
                                             % oder nur: Inhalt
35 \def\contentsname{Inhaltsverzeichnis}%
36 \def\listfigurename{Abbildungsverzeichnis}%
37 \def\listtablename{Tabellenverzeichnis}%
   \def\indexname{Index}%
38
   \def\figurename{Abbildung}%
39
   \def\tablename{Tabelle}%
                                             % oder: Tafel
   \def\partname{Teil}%
41
    \def\enclname{Anlage(n)}%
42
    \def\ccname{Verteiler}%
                                             % oder: Kopien an
43
    \def\headtoname{An}%
44
    \def\pagename{Seite}%
45
    \def\seename{siehe}%
    \def\alsoname{siehe auch}%
    \def\proofname{Beweis}%
   \def\glossaryname{Glossar}%
49
```

\captionsngerman The macro \captionsngerman is identical to \@captionsngerman, but only defined if ngerman is requested.

```
51 \def\bbl@tempa{ngerman}
52 \footnote{1}{ifx\CurrentOption\bl@tempa}
53 \@namedef{captionsngerman}{%
54
      \@nameuse{@captionsngerman}%
55 }
56\fi
```

\captionsnaustrian The macro \captionsnaustrian builds on \@captionsngerman, but redefines some strings following Austrian conventions (for the respective variants, cf. [1]). It is only defined if naustrian is requested.

```
57 \def\bbl@tempa{naustrian}
58 \ifx\CurrentOption\bbl@tempa
59 \@namedef{captionsnaustrian}{%
60
      \@nameuse{@captionsngerman}%
      \def\enclname{Beilage(n)}%
61
62 }
63\fi
```

\captionsnswissgerman The macro \captionsnswissgerman builds on \@captionsngerman, but redefines some

strings following Swiss conventions (for the respective variants, cf. [1]). It is only defined if nswissgerman is requested.

```
64 \def\bbl@tempa{nswissgerman}
65 \ifx\CurrentOption\bbl@tempa
  \@namedef{captionsnswissgerman}{%
      \@nameuse{@captionsngerman}%
      \def\enclname{Beilage(n)}%
69 }
70∖fi
```

#### **Date localizations** 3.3

\month@ngerman

The macro \month@ngerman defines German month names for all varieties.

```
71 \def\month@ngerman{\ifcase\month\or
72 Januar\or Februar\or M\"arz\or April\or Mai\or Juni\or
73 Juli\or August\or September\or Oktober\or November\or Dezember\fi}
```

\datengerman The macro \datengerman redefines the command \today to produce German dates.

```
74 \def\bbl@tempa{ngerman}
75 \ifx\CurrentOption\bbl@tempa
\space\number\year}}
77
78\fi
```

\datenswissgerman

The macro \datenswissgerman does the same for Swiss German dates. The result is identical to German.

```
79 \def\bbl@tempa{nswissgerman}
8o \ifx\CurrentOption\bbl@tempa
82
     \space\number\year}}
8<sub>3</sub>\fi
```

\datenaustrian

The macro \datenaustrian redefines the command \today to produce Austrian versions of the German dates. Here, the naming of January ("Jänner") differs from the other German varieties.

```
84 \def\bbl@tempa{naustrian}
85\ifx\CurrentOption\bbl@tempa
   \def\datenaustrian{\def\today{\number\day.~\ifnum1=\month
      J\"anner\else \month@ngerman\fi \space\number\year}}
88\fi
```

#### 3.4 Extras

\extrasnaustrian \extrasnswissgerman \noextrasnaustrian \noextrasnswissgerman \noextrasngerman

The macros \extrasngerman, \extrasnaustrian and \extrasnswissgerman, respectively, will perform all the extra definitions needed for the German language or the respective \extrasngerman variety. The macro \noextrasngerman is used to cancel the actions of \extrasngerman. \noextrasnaustrian and \noextrasnswissgerman behave analoguously.

First, the character " is declared active for all German varieties. This is done once, later on its definition may vary.

```
89 \initiate@active@char{"}
```

Depending on the option with which the language definition file has been loaded, the macro \extrasngerman, \extrasnaustrian or \extrasnswissgerman is defined. Each of those is identical: they load the shorthands defined below and activate the "character.

```
90 \@namedef{extras\CurrentOption}{%
91 \languageshorthands{ngerman}}
92 \expandafter\addto\csname extras\CurrentOption\endcsname{%
93 \bbl@activate{"}}
```

Next, again depending on the option with which the language definition file has been loaded, the macro \noextrasngerman, \noextrasnaustrian or \noextrasnswissgerman is defined. These deactivate the "character and thus turn the shorthands off again outside of the respective variety.

```
_{94} \ensuremath{\mbox{94}} \ensuremath{\mbox{01}} \ensuremath{\mbox{02}} \ensuremath{\mbox{03}} \ensuremath{\mbox{04}} \ensuremath{\m
```

In order for TEX to be able to hyphenate German words which contain 'ß' (in the 0T1 position ^^Y) we have to give the character a nonzero \lccode (see Appendix H, the TEXbook).

```
96\expandafter\addto\csname extras\CurrentOption\endcsname{%
97 \babel@savevariable{\lccode25}%
98 \lccode25=25}
```

The umlaut accent macro \" is changed to lower the umlaut dots. The redefinition is done with the help of \umlautlow.

```
99\expandafter\addto\csname extras\CurrentOption\endcsname{%
100 \babel@save\"\umlautlow}
101\expandafter\addto\csname noextras\CurrentOption\endcsname{%
102 \umlauthigh}
```

The current version of the 'new' German hyphenation patterns (dehyphn.tex) is to be used with \lefthyphenmin and \righthyphenmin set to 2.

```
{\tt 103 \backslash providehyphenmins\{\backslash CurrentOption\}\{\backslash tw@\backslash tw@\}}
```

For German texts we need to assure that \frenchspacing is turned on.

```
104\expandafter\addto\csname extras\CurrentOption\endcsname{%
105 \bbl@frenchspacing}
106\expandafter\addto\csname noextras\CurrentOption\endcsname{%
107 \bbl@nonfrenchspacing}
```

## 3.5 Active characters, macros & shorthands

The following code is necessary because we need an extra active character. This character is then used as indicated in table 1.

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

```
\dq We save the original double quotation mark character in \dq to keep it available, the
                                       math accent \" can now be typed as ".
                                       108 \begingroup \catcode'\"12
                                       109 \def\x{\endgroup
                                       110 \def\@SS{\mathchar"7019 }
                                      111 \def\dq{"}}
                                      112 \X
                                                      Now we can define the doublequote shorthands: the umlauts,
                                       113 \end{mgerman} {\allowhyphens} {\dot a}
                                       \label{lowhyphens} $$ 114 \end{ngerman} {"o}_{\text{textormath}}^{0} \allowhyphens}_{\dot o}_{\dot o}_{\
                                       115 \declare@shorthand{ngerman}{"u}{\textormath{\"{u}\allowhyphens}{\ddot u}}
                                       116 \declare@shorthand{nqerman}{"A}{\text{A}}\declare@shorthand{nqerman}{"A}}
                                       117 \cdot declare@shorthand{ngerman}{"0}{\text{vextormath}}{"0}{\text{o}}}
                                       118 \declare@shorthand{ngerman}{"U}{\text{vrbarmath}}{"U}\allowhyphens}{\ddot U}}
                                       119 \declare@shorthand{ngerman}{"e}{\textormath{\"{e}}}{\dot e}}
                                       \label{lem:condition} $$120 \declare@shorthand\{ngerman\}{"E}{\text{\constraint}}{\constraint}{\constraint}{\constraint}{\constraint}{\constraint}{\constraint}{\constraint}{\constraint}{\constraint}{\constraint}{\constraint}{\constraint}{\constraint}{\constraint}{\constraint}{\constraint}{\constraint}{\constraint}{\constraint}{\constraint}{\constraint}{\constraint}{\constraint}{\constraint}{\constraint}{\constraint}{\constraint}{\constraint}{\constraint}{\constraint}{\constraint}{\constraint}{\constraint}{\constraint}{\constraint}{\constraint}{\constraint}{\constraint}{\constraint}{\constraint}{\constraint}{\constraint}{\constraint}{\constraint}{\constraint}{\constraint}{\constraint}{\constraint}{\constraint}{\constraint}{\constraint}{\constraint}{\constraint}{\constraint}{\constraint}{\constraint}{\constraint}{\constraint}{\constraint}{\constraint}{\constraint}{\constraint}{\constraint}{\constraint}{\constraint}{\constraint}{\constraint}{\constraint}{\constraint}{\constraint}{\constraint}{\constraint}{\constraint}{\constraint}{\constraint}{\constraint}{\constraint}{\constraint}{\constraint}{\constraint}{\constraint}{\constraint}{\constraint}{\constraint}{\constraint}{\constraint}{\constraint}{\constraint}{\constraint}{\constraint}{\constraint}{\constraint}{\constraint}{\constraint}{\constraint}{\constraint}{\constraint}{\constraint}{\constraint}{\constraint}{\constraint}{\constraint}{\constraint}{\constraint}{\constraint}{\constraint}{\constraint}{\constraint}{\constraint}{\constraint}{\constraint}{\constraint}{\constraint}{\constraint}{\constraint}{\constraint}{\constraint}{\constraint}{\constraint}{\constraint}{\constraint}{\constraint}{\constraint}{\constraint}{\constraint}{\constraint}{\constraint}{\constraint}{\constraint}{\constraint}{\constraint}{\constraint}{\constraint}{\constraint}{\constraint}{\constraint}{\constraint}{\constraint}{\constraint}{\constraint}{\constraint}{\constraint}{\constraint}{\constraint}{\constraint}{\constraint}{\constraint}{\constraint}{\constraint}{\constraint}{\constraint}{\cons
                                       {\ddot\imath}}
                                       \label{lem:index} $$123 \declare@shorthand{ngerman}{"I}{\text{textormath}}{\label{I}}$$
                                       German ß,
                                       124 \declare@shorthand{ngerman}{"s}{\textormath{\ss}{\@SS{}}}
                                       125 \declare@shorthand{ngerman}{"S}{\SS}
                                       127 \declare@shorthand{ngerman}{"Z}{SZ}
                                       German and French/Swiss quotation marks,
                                       128 \declare@shorthand{ngerman}{"'}{\glqq}
                                       {\tt 129 \backslash declare@shorthand\{ngerman\}\{"'\}\{\backslash grqq\}}
                                       130 \declare@shorthand{ngerman}{"<}{\flqq}
                                       131 \declare@shorthand{ngerman}{">}{\frqq}
                                       and some additional commands (hyphenation, line breaking and ligature control):
                                       132 \declare@shorthand{ngerman}{"-}{\nobreak\-\bbl@allowhyphens}
                                       _{133} \declare@shorthand{ngerman}{"|}{\%}
                                                         \textormath{\penalty\@M\discretionary{-}{}{\kern.03em}%
                                       134
                                                                                                             \allowhyphens}{}}
                                       {\tt 136 \backslash declare@shorthand \{ngerman\} \{""\} \{\backslash hskip \backslash z@skip\}}
                                       \label{lem:condition} $$137 \leq e^{\sinh(ngerman)}{"\sim}_{\hat{\}}^{\hat{\}}^{\hat{\}}^{\hat{\}}^{\hat{\}}^{\hat{\}}^{\hat{\}}^{\hat{\}}^{\hat{\}}^{\hat{\}}^{\hat{\}}^{\hat{\}}^{\hat{\}}^{\hat{\}}^{\hat{\}}^{\hat{\}}^{\hat{\}}^{\hat{\}}^{\hat{\}}^{\hat{\}}^{\hat{\}}^{\hat{\}}^{\hat{\}}^{\hat{\}}^{\hat{\}}^{\hat{\}}^{\hat{\}}^{\hat{\}}^{\hat{\}}^{\hat{\}}^{\hat{\}}^{\hat{\}}^{\hat{\}}^{\hat{\}}^{\hat{\}}^{\hat{\}}^{\hat{\}}^{\hat{\}}^{\hat{\}}^{\hat{\}}^{\hat{\}}^{\hat{\}}^{\hat{\}}^{\hat{\}}^{\hat{\}}^{\hat{\}}^{\hat{\}}^{\hat{\}}^{\hat{\}}^{\hat{\}}^{\hat{\}}^{\hat{\}}^{\hat{\}}^{\hat{\}}^{\hat{\}}^{\hat{\}}^{\hat{\}}^{\hat{\}}^{\hat{\}}^{\hat{\}}^{\hat{\}}^{\hat{\}}^{\hat{\}}^{\hat{\}}^{\hat{\}}^{\hat{\}}^{\hat{\}}^{\hat{\}}^{\hat{\}}^{\hat{\}}^{\hat{\}}^{\hat{\}}^{\hat{\}}^{\hat{\}}^{\hat{\}}^{\hat{\}}^{\hat{\}}^{\hat{\}}^{\hat{\}}^{\hat{\}}^{\hat{\}}^{\hat{\}}^{\hat{\}}^{\hat{\}}^{\hat{\}}^{\hat{\}}^{\hat{\}}^{\hat{\}}^{\hat{\}}^{\hat{\}}^{\hat{\}}^{\hat{\}}^{\hat{\}}^{\hat{\}}^{\hat{\}}^{\hat{\}}^{\hat{\}}^{\hat{\}}^{\hat{\}}^{\hat{\}}^{\hat{\}}^{\hat{\}}^{\hat{\}}^{\hat{\}}^{\hat{\}}^{\hat{\}}^{\hat{\}}^{\hat{\}}^{\hat{\}}^{\hat{\}}^{\hat{\}}^{\hat{\}}^{\hat{\}}^{\hat{\}}^{\hat{\}}^{\hat{\}}^{\hat{\}}^{\hat{\}}^{\hat{\}}^{\hat{\}}^{\hat{\}}^{\hat{\}}^{\hat{\}}^{\hat{\}}^{\hat{\}}^{\hat{\}}^{\hat{\}}^{\hat{\}}^{\hat{\}}^{\hat{\}}^{\hat{\}}^{\hat{\}}^{\hat{\}}^{\hat{\}}^{\hat{\}}^{\hat{\}}^{\hat{\}}^{\hat{\}}^{\hat{\}}^{\hat{\}}^{\hat{\}}^{\hat{\}}^{\hat{\}}^{\hat{\}}^{\hat{\}}^{\hat{\}}^{\hat{\}}^{\hat{\}}^{\hat{\}}^{\hat{\}}^{\hat{\}}^{\hat{\}}^{\hat{\}}^{\hat{\}}^{\hat{\}}^{\hat{\}}^{\hat{\}}^{\hat{\}}^{\hat{\}}^{\hat{\}}^{\hat{\}}^{\hat{\}}^{\hat{\}}^{\hat{\}}^{\hat{\}}^{\hat{\}}^{\hat{\}}^{\hat{\}}^{\hat{\}}^{\hat{\}}^{\hat{\}}^{\hat{\}}^{\hat{\}}^{\hat{\}}^{\hat{\}}^{\hat{\}}^{\hat{\}}^{\hat{\}}^{\hat{\}}^{\hat{\}}^{\hat{\}}^{\hat{\}}^{\hat{\}}^{\hat{\}}^{\hat{\}}^{\hat{\}}^{\hat{\}}^{\hat{\}}^{\hat{\}}^{\hat{\}}^{\hat{\}}^{\hat{\}}^{\hat{\}}^{\hat{\}}^{\hat{\}}^{\hat{\}}^{\hat{\}}^{\hat{\}}^{\hat{\}}^{\hat{\}}^{\hat{\}}^{\hat{\}}^{\hat{\}}^{\hat{\}}^{\hat{\}}^{\hat{\}}^{\hat{\}}^{\hat{\}}^{\hat{\}}^{\hat{\}}^{\hat{\}}^{\hat{\}}^{\hat{\}}^{\hat{\}}^{\hat{\}}^{\hat{\}}^{\hat{\}}^{\hat{\}}^{\hat{\}}^{\hat{\}}^{\hat{\}}^{\hat{\}}^{\hat{\}}^{\hat{\}}^{\hat{\}}^{\hat{\}}^{\hat{\}}^{\hat{\}}^{\hat{\}}^{\hat{\}}^{\hat{\}}^{\hat{\}}^{\hat{\}}^{\hat{\}}^{\hat{\}}^{\hat{\}}^{\hat{\}}^{\hat{\}}^{\hat{\}}^{\hat{\}}^{\hat{\}}^{\hat{\}}^{\hat{\}}^{\hat{\}}^{\hat{\}}^{\hat{\}}^{\hat{\}}^{\hat{\}}^{\hat{\}}^{\hat{\}}^{\hat{\}}^{\hat{\}}^{\hat{\}}^{\hat{\}}^{\hat{\}}^{\hat{\}}^{\hat{\}}^{\hat{\}}^{\hat{\}}^{\hat{\}}^{\hat{\}}^{\hat{\}}^{\hat{\}}^{\hat{\}}^{\hat{\}}^{\hat{\}}^{\hat{\}}^{\hat{\}}^{\hat{\}}^{\hat{\}}^{\hat{\}}^{\hat{\}}^{\hat{\}}^{\hat{\}}^{\hat{\}}^{\hat{\}}^{\hat{\}}^{\hat{\}}^{\hat{\}}^{\hat{\}}^{\hat{\}}^{\hat{\}}^{\hat{\}}^{\hat{\}}^{\hat{\}}^
                                       {\tt 138 \backslash declare@shorthand \{ngerman\} \{"=\} \{\backslash penalty \backslash @M-\hskip \backslash z@skip\}}
                                       {\scriptstyle 139\ \backslash eclare@shorthand\{ngerman\}\{"/\}\{\backslash textormath}
                                       {\tt 140} \qquad {\tt \bbl@allowhyphens\discretionary{/}{}{/}\bbl@allowhyphens}{}}
   \mdqon All that's left to do now is to define a couple of commands for reasons of compatibility
\mdqoff with german.sty.
```

141 \def\mdqon{\shorthandon{"}}
142 \def\mdqoff{\shorthandoff{"}}

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

143 \ldf@finish\CurrentOption

### 3.6 naustrian.ldf, ngerman.ldf and nswissgerman.ldf

Babel expects a  $\langle lang \rangle$ .ldf file for each  $\langle lang \rangle$ . So we create portmanteau ldf files for naustrian, ngerman and nswissgerman.<sup>2</sup> These files themselves only load ngermanb.ldf, which does the real work:

144 \input ngermanb.ldf\relax

## **Change History**

Version 2.6f	\datenswissgerman: Added
General: Renamed from germanb.ldf;	\datenswissgerman 5
language names changed from	\extrasnswissgerman: Added
german and austrian to ngerman	\extrasnswissgerman 5
and naustrian 1	\noextrasngerman: Deactivate
Version 2.6j	shorthands also outside of
\noextrasngerman: Deactivate	naustrian and nswissgerman 6
shorthands outside of German 6	Do not use \@namedef when
Version 2.6k	\noextras is already defined and
\@captionsngerman: Added	should not be overwritten 6
\qlossaryname4	\noextrasnswissgerman: Added
\noextrasngerman: Now use	\noextrasnswissgerman 5
\providehyphenmins to provide a	General: Added support for variety
default value	nswissgerman1
Version 2.6m	Generate portmanteau files
	<code>naustrian.ldf</code> , <code>ngerman.ldf</code> and
\noextrasngerman: Turn frenchspacing	nswissgerman.ldf8
on, as in german.sty 6	Revised naustrian support 1
Version 2.6n	Revised documentation: Turn the
\@captionsngerman: Corrected typo	babel manual chapter into a
$\colon \colon $	self-enclosed manual 1
Version 2.7	Version 2.8
\@captionsngerman: Changed	\@captionsngerman: Define
\enclname in naustrian to	trans-variational base captions
Beilage(n) 4	which are loaded and modified by
Split \captionsngerman from	the varieties 4
\captionsnaustrian and	\captionsnaustrian: Only define
\captionsnswissgerman 4	\captionsnaustrian if naustrian

<sup>&</sup>lt;sup>2</sup>For some naustrian and ngerman, this is not strictly necessary, since babel provides aliases for these languages (pointing to ngermanb). However, since babel does not officially support these aliases anymore after the language definition files have been separated from the core, we provide the whole range of ldf files for the sake of completeness.

is requested. $\dots \dots \dots$	requested	5
\captionsngerman: Only define	\datenswissgerman: Only define	
\captionsngerman if ngerman is	\datenswissgerman if	
requested 4	nswissgerman is requested	5
\captionsnswissgerman: Only define	General: Only add dialects if the	
\captionsnswissgerman if	respective variety is loaded 3	3
nswissgerman is requested 5	Version 2.9	
\datenaustrian: Only define	General: Add "/ shortcut for breakable	
\datenaustrian if naustrian is	slash (taken from dutch.ldf) 7	7
requested 5	Do not attempt to load	
\datengerman: Only define	\l@naustrian or \l@nswissgerman,	
\datengerman if ngerman is	which do not exist	3

# References

- [1] Ammon, Ulrich et al.: Variantenwörterbuch des Deutschen. Die Standardsprache in Österreich, der Schweiz und Deutschland sowie in Liechtenstein, Luxemburg, Ostbelgien und Südtirol. Berlin, New York: De Gruyter.
- [2] Braams, Johannes and Bezos, Javier: Babel. http://www.ctan.org/pkg/babel.
- [3] Partl, Hubert: German T<sub>E</sub>X, TUGboat 9/1 (1988), p. 70–72.
- [4] Raichle, Bernd: German. http://www.ctan.org/pkg/german.