# Babel support for the German language (traditional orthography)

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#### Abstract

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

## 1 Aim and usage

The file germanb.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.<sup>1</sup> The file adheres to the traditional (1901–1996) orthography. For reformed (post-1996) German orthography support, please refer to the complementary ngermanb.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[german]{babel}
- \usepackage[austrian]{babel}
- \usepackage[swissgerman]{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. One purpose of these shorthands is to get control over a peculiarity of traditional German spelling: some consonantial character combinations change in the

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<sup>&</sup>lt;sup>1</sup>The file germanb.ldf started as a re-implementation of the package german.sty (v. 2.5b), which was originally developed by Hubert Partl (cf. [3]) and later maintained by Bernd Raichle (cf. [4]). The re-implementation was done by Johannes Braams.

context of hyphenations. Furthermore, the shorthands provide access to some frequently used special characters as well as some further possibilities to control hyphenation, to break lines and to deal with ligatures. Table 1 provides an overview of the shorthands that are provided by germanb.ldf.

- "a umlaut ä (shorthand for \"a). Similar shorthands are available for all other lower- and uppercase vowels (umlauts: "a, "o, "u, "A, "0, "U, as well as tremata: "e, "i, "E, "I).
- "s German  $\beta$  (shorthand for  $ss{}$ ).
- "z German ß (shorthand for \ss{}).
- "ck for ck to be hyphenated as k-k.
- "ff for ff to be hyphenated as ff-f, this is also implemented for l, m, n, p, r and t.
- "S SS (\uppercase{"s}, since \( \mathbb{S} \) must be written as SS or SZ, see below in uppercase writing).
- "Z SZ (\uppercase{"z}, since ß must be written as SZ or SS, see above in uppercase writing).
- "| disable ligature at this position (e.g. 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 sign if the line break is performed (useful for compound words with hyphen, e.g. (Un-)""Sinn).
- "~ a compound word mark without a breakpoint. Useful for cases such as bergauf und "~ab.
- "= a compound word mark with a breakpoint, allowing for hyphenation at the other points preset in the hyphenation patterns (as opposed to plain -).
- "' German left double quotes (i. e. ").
- "' German right double quotes (i. e. ").
- "< French/Swiss left double quotes (i. e. «).
- "> French/Swiss right double quotes (i. e. »).

Table 1: Shorthands provided by germanb.ldf

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

# **3 Implementation**

### 3.1 General settings

If germanb.ldf is read via the babel option germanb, we make it behave as if german was specified.

```
German left double quotes (i. e. ").
\glqq
        German right double quotes (i. e. ").
\grqq
         German left single quotes (i. e. ,).
\glq
         German right single quotes (i. e. ').
\grq
        French/Swiss left double quotes (i. e. «).
\flqq
        French/Swiss right double quotes (i. e. »).
\frqq
\flq
         French/Swiss left single quotes (i. e. <).
\frq
         French/Swiss right single quotes (i. e. >).
         the original quotation mark character (i. e. ").
\dq
```

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

```
1 \def\bbl@tempa{germanb}
2\ifx\CurrentOption\bbl@tempa
3 \def\CurrentOption{german}
   \ifx\l@german\@undefined
      \@nopatterns{German}
      \adddialect\l@german0
  \fi
8 \let\l@germanb\l@german
   \AtBeginDocument{%
      \verb|\label{captionsgermanb|} captionsgerman|
11
      \let\dategermanb\dategerman
      \let\extrasgermanb\extrasgerman
      \let\noextrasgermanb\noextrasgerman
13
14 }
15\fi
```

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

```
16 \LdfInit\CurrentOption{captions\CurrentOption}
```

If germanb.ldf is read as an option, i.e. via \usepackage command, german could be an 'unknown' language, so we have to make it known. We check for the existence of \l@german to see whether we have to do something here.

```
17 \ifx\l@german\@undefined
18 \@nopatterns{German}
19 \adddialect\l@german0
20 \fi
```

We set austrian as a dialect of german, since the Austrian variety uses the same hyphenation patterns as Germany's Standard German.

```
21 \addialect\l@austrian\l@german
```

For the Swiss variety, we attempt to load the specific swissgerman hyphenation patterns and fall back to german if those are not available.

```
22 \def\bbl@tempa{swissgerman}
23 \ifx\CurrentOption\bbl@tempa
```

```
\ifx\l@swissgerman\@undefined
      \ifx\l@german\@undefined
25
        \@nopatterns{swissgerman and german}
26
        \adddialect\l@swissgerman0
27
28
        \@nopatterns{swissgerman}
29
        \verb|\adddialect|| @swissgerman|| l@german||
30
      \fi
31
   \fi
32
33\fi
```

## Language-specific strings (captions)

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

\captionsgerman

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

```
34 \@namedef{captionsgerman}{%
35 \def\prefacename{Vorwort}%
   \def\refname{Literatur}%
   \def\abstractname{Zusammenfassung}%
37
    \def\bibname{Literaturverzeichnis}%
    \def\chaptername{Kapitel}%
39
    \def\appendixname{Anhang}%
                                              % oder nur: Inhalt
    \def\contentsname{Inhaltsverzeichnis}%
    \def\listfigurename{Abbildungsverzeichnis}%
    \def\listtablename{Tabellenverzeichnis}%
    \def\indexname{Index}%
    \def\figurename{Abbildung}%
    \def\tablename{Tabelle}%
                                              % oder: Tafel
46
    \def\partname{Teil}%
47
    \def\enclname{Anlage(n)}%
48
   \def\ccname{Verteiler}%
                                              % oder: Kopien an
49
   \def\headtoname{An}%
51 \def\pagename{Seite}%
52 \def\seename{siehe}%
_{53} \def\alsoname{siehe auch}%
_{54} \def\proofname{Beweis}%
55 \def\glossaryname{Glossar}%
56
```

\captionsaustrian The macro \captionsaustrian builds on \captionsgerman, but redefines some strings following Austrian conventions (for the respective variants, cf. [1]).

```
57 \@namedef{captionsaustrian}{%
   \@nameuse{captionsgerman}
   \def\enclname{Beilage(n)}%
59
  }
```

\captionsswissgerman

The macro \captionsswissqerman builds on \captionsqerman, but redefines some strings following Swiss conventions (for the respective variants, cf. [1]).

```
61 \@namedef{captionsswissgerman}{%
   \@nameuse{captionsgerman}
   \def\enclname{Beilage(n)}%
```

#### Date localizations 3.3

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

```
65 \def\month @german{\if case \month \or
66 Januar\or Februar\or M\"arz\or April\or Mai\or Juni\or
67 Juli\or August\or September\or Oktober\or November\or Dezember\fi}
68 \def\dategerman{\def\today{\number\day.~\month@german
      \space\number\year}}
```

\dateswissgerman

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

```
\space\number\year}}
```

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

```
72 \def\dateaustrian{\def\today{\number\day.~\ifnum1=\month
73 J\"anner\else \month@german\fi \space\number\year}}
```

## 3.4 Extras

\extrasgerman \extrasaustrian \extrasswissgerman \noextrasgerman \noextrasaustrian

The macros \extrasgerman, \extrasaustrian and \extrasswissgerman, respectively, will perform all the extra definitions needed for the German language or the respective variety. The macro \noextrasgerman is used to cancel the actions of \extrasgerman.  $\verb|\noextrasaustrian| and \verb|\noextrasswissgerman| behave analoguously.$ 

For all German varieties, the character " is made active. This is done once, later on \noextrasswissgerman its definition may vary.

```
74 \initiate@active@char{"}
75 \@namedef{extras\CurrentOption}{%
76 \languageshorthands{german}}
77 \expandafter\addto\csname extras\CurrentOption\endcsname{%
78 \bbl@activate{"}}
```

Turn the shorthands off again outside of German.

```
_{79}\ensuremath{\mbox{\sc NurrentOption}\mbox{\sc Name}}\ensuremath{\mbox{\sc NurrentOption}\mbox{\sc Name}}\ensuremath{\mbox{\sc NurrentOption}\mbox{\sc Name}}\ensuremath{\mbox{\sc NurrentOption}\mbox{\sc NurrentDption}\mbox{\sc NurrentDption
                                                                                           \bbl@deactivate{"}}
```

In order for TFX to be able to hyphenate German words which contain 'B' (in the OT1 position ^^Y) we have to give the character a nonzero \lccode (see Appendix H, the TrXbook).

```
81\expandafter\addto\csname extras\CurrentOption\endcsname{%
82 \babel@savevariable{\lccode25}%
83 \lccode25=25}
```

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

```
84\expandafter\addto\csname extras\CurrentOption\endcsname{%
85 \babel@save\"\umlautlow}
86\expandafter\addto\csname noextras\CurrentOption\endcsname{%
87 \umlauthigh}
```

The German hyphenation patterns can be used with \lefthyphenmin and \righthyphenmin set to 2.

```
88 \providehyphenmins{\CurrentOption}{\tw@\tw@}
```

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

```
89 \expandafter\addto\csname extras\CurrentOption\endcsname{%
90 \bbl@frenchspacing}
91 \expandafter\addto\csname noextras\CurrentOption\endcsname{%
92 \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 ".

```
93 begingroup \catcode'\"12
94 \def\x{\endgroup
95 \def\@SS{\mathchar"7019 }
96 \def\dq{"}}
97 \x
```

Now we can define the doublequote shorthands: the umlauts,

```
98 \declare@shorthand{german}{"a}{\textormath{\"{a}\allowhyphens}{\ddot a}}
99 \declare@shorthand{german}{"o}{\textormath{\"{o}\allowhyphens}{\ddot o}}
100 \declare@shorthand{german}{"u}{\textormath{\"{u}\allowhyphens}{\ddot u}}
101 \declare@shorthand{german}{"A}{\textormath{\"{A}\allowhyphens}{\ddot A}}
102 \declare@shorthand{german}{"O}{\textormath{\"{O}\allowhyphens}{\ddot O}}
103 \declare@shorthand{german}{"U}{\textormath{\"{U}\allowhyphens}{\ddot U}}
104 \declare@shorthand{german}{"E}{\textormath{\"{e}}{\ddot e}}
105 \declare@shorthand{german}{"E}{\textormath{\"{E}}{\ddot E}}
106 \declare@shorthand{german}{"i}{\textormath{\"{i}}}%
107 \quad \ddot\imath}}
108 \declare@shorthand{german}{"I}{\textormath{\"{I}}{\ddot I}}
```

```
\label{log_log_log_log} $$109 \end{german} {"s}{\text{\cormath}(ss}_{\cormath{ss}}} $$
                                 110 \declare@shorthand{german}{"S}{\SS}
                                 {\tt 112 \backslash declare@shorthand\{german\}\{"Z\}\{SZ\}}
                                 German and French/Swiss quotation marks,
                                 113 \declare@shorthand{german}{"'}{\glqq}
                                 {\tt 114 \backslash declare@shorthand\{german\}\{"'\}\{\backslash grqq\}}
                                 115 \declare@shorthand{german}{"<}{\flqq}</pre>
                                 116 \declare@shorthand{german}{">}{\frqq}
                                 discretionary commands
                                 117 \declare@shorthand{german}{"c}{\textormath{\bbl@disc ck}{c}}
                                 118 \declare@shorthand{german}{"C}{\textormath{\bbl@disc CK}{C}}
                                 119 \declare@shorthand{german}{"F}{\textormath{\bbl@disc F{FF}}{F}}
                                 \label{localized} \begin{tabular}{ll} $$120 \end{tabular} $$120 
                                 {\tt 121 \setminus declare@shorthand\{german\}\{"L\}\{\setminus textormath\{\setminus bbl@disc\ L\{LL\}\}\{L\}\}}
                                 {\tt 122 \setminus declare@shorthand\{german\}\{"m\}\{\setminus textormath\{\setminus bbl@disc\ m\{mm\}\}\{m\}\}\}}
                                 \label{lem:lem:lem:math} $$123 \declare@shorthand{german}{"M}_{\text{\constraints}} $$
                                 {\tt 125 \backslash declare@shorthand\{german\}\{"N}\{\backslash textormath\{\backslash bbl@disc\ N\{NN\}\}\{N\}\}\}}
                                 127 \declare@shorthand{german}{"P}{\textormath{\bbl@disc P{PP}}{P}}
                                 128 \declare@shorthand{german}{"r}{\textormath{\bbl@disc r{rr}}{r}}
                                 129 \declare@shorthand{german}{"R}{\textormath{\bbl@disc R{RR}}{R}}
                                 130 \declare@shorthand{german}{"t}{\textormath{\bbl@disc t{tt}}}{t}}
                                 131 \declare@shorthand{german}{"T}{\textormath{\bbl@disc T{TT}}}{T}}
                                 (we need to treat "f a bit differently in order to preserve the ff-ligature)
                                 {\tt 132 \backslash declare@shorthand\{german\}\{"f}\{\backslash textormath\{\backslash bbl@discff\}\{f\}\}}
                                 _{133} \def\bl@discff{\epsilon}\M
                                 134 \afterassignment\bbl@insertff \let\bbl@nextff= }
                                 _{135} \def\bl@insertff{%}
                                             \if f\bbl@nextff
                                                        \verb|\expandafter@firstoftwo| else | expandafter | @secondoftwo| fi | expandafter | @secondoftwo| fi | expandafter 
                                 {\tt 138} \quad \{\texttt{\cretionary}\{ff-\}\{f\}\{ff\}\texttt{\colored} \} \\
                                 _{139} \le \blue{139} = \blue{139}
                                 and some additional commands (hyphenation and ligature control):
                                 {\tt 140 \backslash declare@shorthand\{german\}\{"-\}\{\backslash nobreak\backslash -\backslash bbl@allowhyphens\}}
                                 {\scriptstyle 141\ \backslash declare@shorthand\{german\}\{"\,|\,\}\{\%\}}
                                             \textormath{\penalty\@M\discretionary{-}{}{\kern.03em}%
                                                                                             \allowhyphens}{}}
                                 {}_{145}\declare@shorthand\{german\}{"\sim}{\text{\textormath}{\text{\leavevmode}}\declare@shorthand{german}}{}_{145}\declare@shorthand{german}{}_{145}\declare@shorthand{german}{}_{145}\declare@shorthand{german}{}_{145}\declare@shorthand{german}{}_{145}\declare@shorthand{german}{}_{145}\declare@shorthand{german}{}_{145}\declare@shorthand{german}{}_{145}\declare@shorthand{german}{}_{145}\declare@shorthand{german}{}_{145}\declare@shorthand{german}{}_{145}\declare@shorthand{german}{}_{145}\declare@shorthand{german}{}_{145}\declare@shorthand{german}{}_{145}\declare@shorthand{german}{}_{145}\declare@shorthand{german}{}_{145}\declare@shorthand{german}{}_{145}\declare@shorthand{german}{}_{145}\declare@shorthand{german}{}_{145}\declare@shorthand{german}{}_{145}\declare@shorthand{german}{}_{145}\declare@shorthand{german}{}_{145}\declare@shorthand{german}{}_{145}\declare@shorthand{german}{}_{145}\declare@shorthand{german}{}_{145}\declare@shorthand{german}{}_{145}\declare@shorthand{german}{}_{145}\declare@shorthand{german}{}_{145}\declare@shorthand{german}{}_{145}\declare@shorthand{german}{}_{145}\declare@shorthand{german}{}_{145}\declare@shorthand{german}{}_{145}\declare@shorthand{german}{}_{145}\declare@shorthand{german}{}_{145}\declare@shorthand{german}{}_{145}\declare@shorthand{german}{}_{145}\declare@shorthand{german}{}_{145}\declare@shorthand{german}{}_{145}\declare@shorthand{german}{}_{145}\declare@shorthand{german}{}_{145}\declare@shorthand{german}{}_{145}\declare@shorthand{german}{}_{145}\declare@shorthand{german}{}_{145}\declare@shorthand{german}{}_{145}\declare@shorthand{german}{}_{145}\declare@shorthand{german}{}_{145}\declare@shorthand{german}{}_{145}\declare@shorthand{german}{}_{145}\declare@shorthand{german}{}_{145}\declare@shorthand{german}{}_{145}\declare@shorthand{german}{}_{145}\declare@shorthand{german}{}_{145}\declare@shorthand{german}{}_{145}\declare@shorthand{german}{}_{145}\declare@shorthand{german}{}_{145}\declare@shorthand{german}{}_{145}\declare@shorthand{german}{}_{145}\declare@shorthand{german}{}_{145}\d
                                 {\tt 146 \backslash declare@shorthand\{german\}{"=}\{\backslash penalty\backslash @M-\backslash hskip\backslash z@skip\}}
   \mdqon All that's left to do now is to define a couple of commands for reasons of compatibility
                                with german.sty.
\mdqoff
                                 _{147}\def\mdqon{\shorthandon{"}}
```

German ß,

```
\label{lem:prop:special} $$ 148 \left( \frac{\shorthandoff{"}}{149 \shorthandoff{k-}{k}{ck}\allowhyphens} \right) $$
```

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

150 \ldf@finish\CurrentOption

## 3.6 austrian.ldf, german.ldf and swissgerman.ldf

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

 $_{151}$ \input germanb.ldf\relax

# **Change History**

germanb-1.0a	change log 1
General: Incorporated Nico's	germanb-2.ob
comments 1 germanb-1.ob	\extrasgerman: added some comment chars to prevent white space 5
General: fixed typo in definition for austrian language found by Werenfried Spit nspit@fys.ruu.nl . 1	\noextrasgerman: added some comment chars to prevent white
germanb-1.oc	space 5
General: Fixed some typos 1	germanb-2.1
germanb-1.1	General: Removed bug found by van der Meer
\noextrasgerman: Added \dieresis 5	germanb-2.2
General: When using PostScript fonts with the Adobe fontencoding, the	\captionsgerman:\pagename should be \headpagename4
dieresis-accent is located elsewhere, modified germanb 1	Removed \global definitions 4
germanb-1.1a	\extrasgerman: Save all redefined
General: Modified the documentation somewhat	macros
germanb-2.0	everything to its former state 5
General: Modified for babel 3.0 1  Now use \adddialect for austrian . 3  Now use \adddialect if language	General: Removed global assignments, brought uptodate with german.tex v2.3d
undefined 3	germanb-2.2a
germanb-2.0a	General: Renamed babel.sty in
General: Removed some problems in	babel.com

<sup>&</sup>lt;sup>2</sup>For some austrian and german, this is not strictly necessary, since babel provides aliases for these languages (pointing to germanb). 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.

germanb-2.2d	Use $\dot instead of \ensuremath{\mbox{QMATHUMLAUT}}$ .	6
General: Removed use of	germanb-2.6b	
\@ifundefined3	\captionsgerman: Added \proofname	
germanb-2.3	for AMS-LATEX	4
General: Rewritten parts of the code to	germanb-2.6c	
use the new features of babel	\noextrasswissgerman: Use decimal	
version 3.1	number instead of hat-notation as	
germanb-2.3e	the hat may be activated	5
\captionsgerman: Added	General: added the \allowhyphens	6
\prefacename,\seename and	Moved \german@dq@disc to	
\alsoname 4	babel.def, calling it \bbl@disc	6
\dategerman: Added \month@german 5	germanb-2.6d	
General: Added \save@sf@q macro and	\captionsgerman: Construct control	
rewrote all quote macros to use it . 6	sequence on the fly	1
Added warning, if no german	\noextrasgerman: Construct control	+
patterns loaded 3	sequence \extrasgerman or	
Brought up-to-date with german.tex	\extrasaustrian on the fly	_
v2.3e (plus some bug fixes) [br] 1	General: Moved the definition of	Э
germanb-2.3h		
General: moved definition of	\atcatcode right to the beginning	
\allowhyphens,\set@low@box and	Now use \ldf@finish to wrap up 8	3
\save@sf@q to babel.com 6	Now use \LdfInit to perform initial	
germanb-2.4	checks	3
\captionsgerman: \headpagename	Replaced \undefined with	
should be \pagename 4	\@undefined and \empty with	
germanb-2.5	\@empty for consistency with Ł∏ŁX . :	1
General: Update or $\mathbb{E}_{\mathbb{E}} X  2\varepsilon  \ldots  1$	germanb-2.6f	
germanb-2.5c	\ck: Now use \shorthandon and	
General: Now use \@nopatterns to	\shorthandoff	7
produce the warning 3	\dateaustrian: use \def instead of	
Removed the use of \filedate and	\edef	5
moved the identification after the	Use \edef to define \today to save	
loading of babel.def	memory	5
germanb-2.6a	\dategerman: use \def instead of \edef	5
\noextrasswissgerman: All the code to	Use \edef to define \today to save	
handle the active double quote has	memory	5
been moved to babel.def 5	General: Copied the coding for "f	_
Removeed \3 as it is no longer in	from german.dtx version 2.5d	7
germanb.ldf6	use \SS instead of SS, removed	•
use \germanhyphenmins to store the	braces after \ss	7
correct values 6	germanb-2.6i	′
General: \umlautlow and \umlauthigh	\noextrasswissgerman: Deactivate	
moved to glyphs.dtx, as well as	shorthands outside of German	_
\newumlaut (now \lower@umlaut6		5
Moved all quotation characters to	germanb-2.6j	
glyphs.dtx	\captionsgerman: Added	
Moved the identification to the top	\glossaryname	4
of the file	\noextrasswissgerman: Now use	
Rewrote the code that handles the	\providehyphenmins to provide a	_
active double quote character 1	default value	6

germanb-2.6k	\noextrasswissgerman 5
\noextrasswissgerman: Turn	Deactivate shorthands also outside
frenchspacing on, as in german.sty 6	of austrian and swissgerman 5
germanb-2.6l	Do not use \@namedef when
General: Making germanb behave like	\noextras is already defined and
german needs some more work	should not be overwritten 6
besides defining \CurrentOption 2	General: Added support for variety
germanb-2.6m	swissgerman 1
General: Corrected a typo 2	Generate portmanteau files
germanb-2.7	austrian.ldf,german.ldf and
\captionsgerman: Changed \enclname	swissgerman.ldf 8
in austrian to $Beilage(n)$ 4	Revised austrian support 1
Split \captionsgerman from	Revised documentation: Turn the
\captionsaustrian and	babel manual chapter into a
\captionsswissgerman 4	self-enclosed manual 1
\dateswissgerman: Added	germanb-2.7b
\dateswissgerman5	General: Do not warn about missing
\noextrasswissgerman: Added	swissgerman patterns if
\extrasswissgerman and	swissgerman is not loaded 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://mirrors.ctan.org/macros/latex/required/babel/base/babel.pdf.
- [3] Partl, Hubert: German TeX, TUGboat 9 (1988) #1, p. 70-72.
- [4] Raichle, Bernd: Kurzbeschreibung german.sty und ngerman.sty (Version 2.5). http://mirrors.ctan.org/language/german/gerdoc.pdf.