Babel support for the German language (pre-1996 orthography)

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Abstract

This manual documents babel language support for German (pre-1996 orthography), including support for the Austrian and Swiss (standard) varieties of German. The manual is part of the babel-german bundle.

1 Aim and usage

The babel 'language definition file' germanb.ldf documented in this manual provides the babel package with all language specific strings, settings and commands needed for writing German texts, including texts in the Austrian and Swiss (standard) varieties of German, in *traditional* (1901–1996) spelling.¹ As for support for contemporary ('reformed', i. e., post-1996) German orthography, please refer to the complementary manual for the ngermanb.ldf language definition file. The 'language definition file' also assures that the correct hyphenation patterns for the respective language or variety are used (see sec. 3 for details).

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

- \usepackage[german]{babel}
- \usepackage[austrian]{babel}
- \usepackage[swissgerman]{babel}
- \usepackage[swissgerman.toss]{babel}²

New feature in v. 2.10!

Using multiple varieties in parallel is possible; consult the babel manual [2] for details.

^{*}Current maintainer. Please report issues via https://github.com/jspitz/babel-german.

¹The file germanb.ldf started as a re-implementation of the package german.sty (v. 2.5b), which was originally developed by Hubert Partl (cf. [5]) and later maintained by Bernd Raichle (cf. [6]). Johannes Braams did the initial re-implementation.

²See sec. 4 on the toss modifier.

2 Shorthands

For all three varieties of German, the character " is made active in order to provide some shorthand macros. Some of these shorthands address a peculiarity of pre-1996 German spelling: consonantial character combinations that change in the context of hyphenations. Other shorthands are provided for frequently used special characters as well as for better control of hyphenation, line breaks and ligatures.

Table 1 provides an overview of the shorthands that are provided by babel-german for german, austrian and swissgerman.

Table 1: Shorthands provided by germanb.ldf

- "a Umlaut $\langle \ddot{a} \rangle$ (shorthand for \"a). Similar shorthands are available for all other lower-and uppercase vowels (umlauts: "a, "o, "u, "A, "0, "U; tremata: "e, "i, "E, "I).
- "s German $\langle \beta \rangle$ (shorthand for \ss{}); but cf. sec. 4.
- "z German $\langle \beta \rangle$ (shorthand for \ss{}). The difference to "s is the uppercase version; but cf. sec. 4.
- "ck $\langle ck \rangle$, hyphenated as $\langle k-k \rangle$.
- "ff $\langle ff \rangle$, hyphenated as $\langle ff-f \rangle$; this is also implemented for $\langle l \rangle$, $\langle m \rangle$, $\langle n \rangle$, $\langle p \rangle$, $\langle r \rangle$ and $\langle t \rangle$. Please refer to sec. 4 for why this does not include $\langle s \rangle$.
- "S \uppercase{"s}, typeset as $\langle SS \rangle$ ($\langle B \rangle$ must be written as $\langle SS \rangle$ [or $\langle SZ \rangle$, see below] in uppercase writing).
- "Z \uppercase{"z}, typeset as $\langle SZ \rangle$ ($\langle f \rangle$ must be written as $\langle SZ \rangle$ [or $\langle SS \rangle$, see above] in uppercase writing).
- "| 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 \-).
- "= 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 such as IT"=Dienstleisterinnen.
- "~ An explicit hyphen without a breakpoint. Useful for cases where the hyphen should stick at the following syllable, e. g., bergauf und "~ab .
- "" A breakpoint that does not output a hyphen if the line break is performed (consider parenthetical extensions as in (pseudo"~)""wissenschaftlich).

New feature in v. 2.9!

- "/ A slash that allows for a linebreak. As opposed to \slash{}, hyphenation at the breakpoints preset in the hyphenation patterns is still allowed.
- "' German left double quotes $\langle ", \rangle$.
- "' German right double quotes (").
- "< French/Swiss left double quotes $\langle \alpha \rangle$.
- "> French/Swiss right double quotes (»).

Table 2 lists some babel macros for quotation marks that might be used as an alternative to the quotation mark shorthands listed above.

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

```
German left double quotes \langle , \rangle.
\glqq
\grqq
           German right double quotes \langle " \rangle.
\glq
           German left single quotes \langle , \rangle.
           German right single quotes (')
\ara
           French/Swiss left double quotes («).
\flqq
           French/Swiss right double quotes (»).
\fraa
           French/Swiss left single quotes \langle \cdot \rangle.
\fla
           French/Swiss right single quotes \langle \cdot \rangle.
\frq
           The straight quotation mark character \langle " \rangle.
\da
```

3 Hyphenation patterns

The question which hyphenation patterns are used by Babel in case of the varieties of German needs some elaboration. There is a set of established hyphenation patterns for pre- and post-1996 German orthography that has been available with TeX distributions for a long time (currently, these are shipped in form of the dehypht and dehyphn files). These patterns, though, have many flaws (they produce wrong hyphenations, and not much is known about their construction). Therefore, a group of people developed completely new patterns that do much better, the so-called 'experimental' new hyphenation patterns of German, distributed in the dehyph-exptl package [3]. As opposed to the old patterns, the new ones undergo constant improvement. The price for this, however, is that hyphenation and thus the typeset document is subject to change with, and only due to, pattern updates.

Modern engines (i. e., xetex and luatex) have already embraced those new patterns, i. e., they are activated on these engines by default. The classic TeX engines (tex/pdftex), however, haven't: they continue to use the old patterns. The reason for this is one of TeX's quality standards: refrain, if ever possible, from changing the output of user's documents in the wake of software updates. An exception is (pre-1996) Swiss Standard German: here, the classic engines use the 'experimental' patterns by default (since there were no patterns available previously anyway).

So you need to explicitly activate the new patterns for a given document (except for swissgerman) with the classic engines, should you want to use them instead of the old ones. With Babel, this can be done quite easily by means of the hyphsubst [4] package:

```
\usepackage[german=german-x-latest]{hyphsubst}
\usepackage[german]{babel}
```

Since austrian uses the same patterns as german, the given hyphsubst option activates the new patterns for this variety as well; but note that hyphsubst must be loaded before babel (please refer to [3] and [4] for details).

If you only want to use experimental patterns for one variety, you can do like so:

```
\usepackage{hyphsubst}
\usepackage[german,austrian]{babel}
\HyphSubstLet{austrian}{german-x-latest}
```

4 Variety-specific options

New feature in v. 2.10! In Swiss (and Liechtensteinian) German writing, the use of $\langle \mathfrak{B} \rangle$ is rather uncommon. Swiss writers would normally use $\langle ss \rangle$ where German or Austrian writers use the $\langle \mathfrak{B} \rangle$ character (e. g., $Bu\beta e$ vs. Busse). When texts (or names) from other German speaking areas are quoted, however, the spelling and hence the $\langle \mathfrak{B} \rangle$ is often maintained (particularly in scholarly writing where the spelling of quoted text is not supposed to be touched).

We assume that Swiss writers will normally input $\langle ss \rangle$ directly when they mean $\langle ss \rangle$, and we assume furthermore that the $\langle \beta \rangle$ -related shorthands "s and "z are useful also for Swiss writers when they actually need $\langle \beta \rangle$, the more so since the $\langle \beta \rangle$ is not as directly accessible on Swiss keyboards as it is on German and Austrian ones. On the other hand, there might be occasions where writers want to transfer a text from German or Austrian Standard into Swiss Standard German and adapt the spelling on the fly, i. e., transform all $\langle \beta \rangle$ into $\langle ss \rangle$.

For this special case, we provide an option to make the $\langle B \rangle$ -related shorthands "s and "z expand to the respective digraphs³, $\langle ss \rangle$ and $\langle sz \rangle$, rather than to $\langle B \rangle$. This is not the default behavior with swissgerman since, as mentioned, there are situations when the $\langle B \rangle$ is (and has to be) used in Swiss writing, and normally, no shorthand is needed to input (or output) two simple $\langle s \rangle$ characters. You can opt-in (and out) digraphical expansion of "s and "z on a global and local level:

- To globally switch on the digraphical expansion, use the Babel modifier toss (read: 'to $\langle ss \rangle$ ') with swissgerman. I. e., pass swissgerman. toss (rather than swissgerman) as babel option.
- To switch on the digraphical expansion only locally, you can use the boolean switch \tosstrue. Likewise, \tossfalse switches off (both locally and globally set) digraphical expansion.

Both these changes result in the following deviant behavior of two shorthands:

- "s Expands to digraph (ss)
- "z Expands to digraph \(sz \)

One further note related to the use of $\langle ss \rangle$ in Swiss Standard German. As opposed to other consonantial letters, the $\langle s \rangle$ is excluded from the three consonant rule (*Dreikonsonantenregel*) of traditional German spelling which prescribes that one of three identical consonants has to be omitted if a vowel follows the three consonants (i. e., *Schiffahrt*, not *Schifffahrt*), except if the word is hyphenated (*Schiff-fahrt*); the shorthands "ff etc. account for that. This does not apply to $\langle s \rangle$! In that case, always all three consonants are spelled out (e. g., *Kongresssaal*, not *Kongressaal*). This is why we don't provide a shorthand for the $\langle sss \rangle$ case.

³In graphematics, the term *digraph* denotes two characters that make a functional pair (which means, depending on the theoretical assumptions: they represent a single sound or they are semantically distinctive).

5 Implementation

5.1 General settings

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

```
1\def\tmpa{germanb}
2\let\SaveCurrentOption\CurrentOption
3\ifx\CurrentOption\tmpa
4 \def\CurrentOption{german}
5\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.

```
6 \LdfInit\CurrentOption{captions\CurrentOption}
```

We define some helper macros that help us to identify later on which variety of German we are currently dealing with.

```
7 \def\bbl@opt@german{german}
8 \def\bbl@opt@germanb{germanb}
9 \def\bbl@opt@austrian{austrian}
10 \def\bbl@opt@swissgerman{swissgerman}
```

Some more work to make germanb behave like german.

```
11 \ifx\SaveCurrentOption\bbl@opt@germanb
   \ifx\l@german\@undefined
      \@nopatterns{German (trad. orthography)}
13
      \adddialect\l@german0
14
15
   \let\l@germanb\l@german
16
   \AtBeginDocument{%
17
18
      \let\captionsgermanb\captionsgerman
      \let\dategermanb\dategerman
      \let\extrasgermanb\extrasgerman
      \let\noextrasgermanb\noextrasgerman
21
22 }
```

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 and issue a warning if it is unknown.

```
24\ifx\l@german\@undefined
25 \@nopatterns{German (trad. orthography)}
26 \adddialect\l@german0
27\fi
```

We set austrian as a dialect of german, since the Austrian variety uses the same hyphenation patterns as Germany's Standard German. If no German patterns are found, we issue a warning.

```
28\ifx\CurrentOption\bbl@opt@austrian
29 \ifx\l@german\@undefined
```

```
30 \@nopatterns{German (trad. orthography), needed by Austrian (trad. orthography)}
31 \adddialect\l@austrian0
32 \else
33 \adddialect\l@austrian\l@german
34 \fi
35\fi
```

For the Swiss variety, we attempt to load the specific swissgerman hyphenation patterns and fall back to german if those are not available. If no patterns are found, we issue a warning.

```
36 \ifx\CurrentOption\bbl@opt@swissgerman
    \ifx\l@swissgerman\@undefined
37
      \ifx\l@german\@undefined
38
        \@nopatterns{Swiss Standard German (trad. orthography) and German (trad. orthography)}
39
40
        \adddialect\l@swissgerman0
41
        \@nopatterns{Swiss Standard German (trad. orthography)}
42
        \adddialect\l@swissgerman\l@german
43
44
   \fi
45
46\fi
```

5.2 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 Lagranger for German. This is an internal macro that is inherited and modified by the following macros for the respective language varieties.

```
47 \@namedef{@captionsgerman}{%
48 \def\prefacename{Vorwort}%
    \def\refname{Literatur}%
49
    \def\abstractname{Zusammenfassung}%
50
   \def\bibname{Literaturverzeichnis}%
51
52 \def\chaptername{Kapitel}%
_{53} \def\appendixname{Anhang}%
   \def\contentsname{Inhaltsverzeichnis}%
  \def\listfigurename{Abbildungsverzeichnis}%
55
   \def\listtablename{Tabellenverzeichnis}%
56
   \def\indexname{Index}%
57
   \def\figurename{Abbildung}%
58
   \def\tablename{Tabelle}%
59
    \def\partname{Teil}%
    \def\enclname{Anlage(n)}%
    \def\ccname{Verteiler}%
    \def\headtoname{An}%
63
    \def\pagename{Seite}%
   \def\seename{siehe}%
```

```
66 \def\alsoname{siehe auch}%
67 \def\proofname{Beweis}%
68 \def\glossaryname{Glossar}%
69 }
```

\captionsgerman

The macro \captionsgerman is identical to \@captionsgerman, but only defined if german is requested.

```
70 \ifx\CurrentOption\bbl@opt@german
71 \@namedef{captionsgerman}{%
72 \@nameuse{@captionsgerman}%
73 }
74 \fi
```

\captionsaustrian

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

```
75 \ifx\CurrentOption\bbl@opt@austrian
76 \@namedef{captionsaustrian}{%
77 \@nameuse{@captionsgerman}%
78 \def\enclname{Beilage(n)}%
79 }
80 \fi
```

\captionsswissgerman

The macro \captionsswissgerman builds on \@captionsgerman, but redefines some strings following Swiss conventions (for the respective variants, cf. [1]). It is only defined if swissgerman is requested.

```
81\ifx\CurrentOption\bbl@opt@swissgerman
82 \@namedef{captionsswissgerman}{%
83 \@nameuse{@captionsgerman}%
84 \def\enclname{Beilage(n)}%
85 }
86\fi
```

5.3 Date localizations

\month@german

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

```
87 \def\month@german{\ifcase\month\or
88    Januar\or Februar\or M\"arz\or April\or Mai\or Juni\or
89    Juli\or August\or September\or Oktober\or November\or Dezember\fi}
```

\dategerman

The macro \dategerman redefines the command \today to produce German dates. It is only defined if german is requested.

```
90 \ifx\CurrentOption\bbl@opt@german
91 \def\dategerman{\def\today{\number\day.~\month@german
92 \space\number\year}}
93 \fi
```

\dateswissgerman

The macro \dateswissgerman does the same for Swiss Standard German dates. It is only defined if swissgerman is requested. The result is identical to German.

```
94\ifx\CurrentOption\bbl@opt@swissgerman
95 \def\dateswissgerman{\def\today{\number\day.~\month@german
       \space\number\year}}
96
97\fi
```

\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. The macro is only defined if austrian is requested.

```
98 \ifx\CurrentOption\bbl@opt@austrian
   \def\dateaustrian{\def\today{\number\day.~\ifnum1=\month
      J\"anner\else \month@german\fi \space\number\year}}
101\fi
```

5.4 Extras

\extrasgerman \extrasaustrian \extrasswissgerman \noextrasaustrian \noextrasswissgerman \noextrasgerman 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. \noextrasaustrian and \noextrasswissgerman behave analoguously.

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

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

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

```
103 \@namedef{extras\CurrentOption}{%
104 \languageshorthands{german}}
105\expandafter\addto\csname extras\CurrentOption\endcsname{%
   \bbl@activate{"}}
```

toss For Swiss Standard German, we allow optionally to expand the (β)-related shorthands \tosstrue the Swiss way, i. e. as \langle ss\rangle (globally, if the modifier toss is used or locally if \tosstrue.).

```
108 \newif\ifbbl@toss\bbl@tossfalse
109 \ifx\bbl@mod@swissgerman\@undefined\else
    \@expandtwoargs\in@{,toss,}{,\bbl@mod@swissgerman,}
    \ifin@
111
      \tosstrue
112
113
    \addto\extrasswissgerman{%
       \iftoss\bbl@tosstrue\else\bbl@tossfalse\fi}
115
116\fi
```

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

```
117 \expandafter\addto\csname noextras\CurrentOption\endcsname{%
118 \bbl@deactivate{"}}
119 \ifx\CurrentOption\bbl@opt@swissgerman
120 \addto\noextrasswissgerman{\bbl@tossfalse}
121 \fi
```

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

```
122 \expandafter\addto\csname extras\CurrentOption\endcsname{%
123 \babel@savevariable{\lccode25}%
124 \lccode25=25}
```

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

```
125\expandafter\addto\csname extras\CurrentOption\endcsname{%
126 \babel@save\"\umlautlow}
127\expandafter\addto\csname noextras\CurrentOption\endcsname{%
128 \umlauthigh}
```

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

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

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

```
130 \expandafter\addto\csname extras\CurrentOption\endcsname{%
131 \bbl@frenchspacing}
132 \expandafter\addto\csname noextras\CurrentOption\endcsname{%
133 \bbl@nonfrenchspacing}
```

5.5 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 ".

Furthermore, we define some helper macros for contextual $\langle \beta \rangle$ handling.

```
134\begingroup \catcode'\"12
135\def\x{\endgroup
136 \def\dq{"}
137 \def\@SS{\mathchar"7019 }
```

```
\def\bbl@ss{\ifbbl@toss ss\else\textormath{\ss}{\@SS{}}\fi}
\def\bbl@ss{SS}
\def\bbl@ss{\ifbbl@toss sz\else\textormath{\ss}{\@SS{}}\fi}
\def\bbl@sz{\ifbbl@toss sz\else\textormath{\ss}{\@SS{}}\fi}
\def\bbl@sz{SZ}
\def\bbl@sz{SZ}
\def\bbl@sz{SZ}
\def\bbl@sz \def\bbl@sz{SZ}
\def\bbl@sz \def\bbl@sz{SZ}
\def\bbl@sz \def\bbl@sz{SZ}
\def\bbl@sz \def\bbl@sz{SZ}
\def\bbl@sz \def\bbl@sz{SZ}
\def\bbl@sz \def\b
```

```
Now we can define the doublequote shorthands: the umlauts,
{\tt 146 \backslash declare@shorthand \{german\} \{"o\} \{\backslash textormath \{\backslash "\{o\} \backslash bbl@allowhyphens\} \{\backslash ddot o\} \}}
_{147}\declare@shorthand\{german}{"u}{\text{v}\bl@allowhyphens}{\ddot u}}
148 \leq 148 \ \declare@shorthand{german}{\"A}{\textormath{\"{A}\bbl@allowhyphens}{\ddot A}}
149 \end{german} {"0} \end{declare@shorthand german} {"0} \end{declare@shorthand german} {\end{declare@shorthand german} {\e
tremata,
151 \ensuremath{\{\ensuremath{\{\ensuremath{\{\ensuremath{\{\ensuremath{\{\ensuremath{\{\ensuremath{\{\ensuremath{\{\ensuremath{\}}}\}}}}}} 
{\tt 152 \backslash declare@shorthand\{german\}\{"E}\{\backslash textormath\{\backslash "\{E\}\}\{\backslash ddot\ E\}\}}
\label{lem:index} $$153 \declare@shorthand{german}{"i}{\text{\textormath}}^{"i}}$
                                                                                          {\ddot\imath}}
\label{lem:initial} $$155 \leq sector (I) $$ \end{$\mathbb{I}} {\textormath} \Tip (I) $$
German ß,
156 \declare@shorthand{german}{"s}{\bbl@ss}
157 \declare@shorthand{german}{"S}{\bbl@SS}
_{158} \declare@shorthand{german}{"z}{\bbl@sz}
{\tt 159 \backslash declare@shorthand\{german\}\{"Z\}\{\backslash bbl@SZ\}}
German and French/Swiss quotation marks,
160 \declare@shorthand{german}{"'}{\glqq}
_{161} \declare@shorthand{german}{"'}{\qrqq}
162 \declare@shorthand{german}{"<}{\flqq}</pre>
163 \declare@shorthand{german}{">}{\frqq}
discretionary commands
```

```
 164 \ declare@shorthand\{german\} \{"c} \{ \text{\bl@disc} \ ck \} \{ c \} \} \\ 165 \ declare@shorthand\{german\} \{"c} \{ \text{\bl@disc} \ CK \} \{ c \} \} \} \\ 166 \ declare@shorthand\{german\} \{"f\} \{ \text{\bl@disc} \ f \} \} \} \} \\ 167 \ declare@shorthand\{german\} \{"l\} \{ \text{\bl@disc} \ l \{ ll \} \} \{ l \} \} \} \\ 168 \ declare@shorthand\{german\} \{"l\} \{ \text{\bl@disc} \ l \{ ll \} \} \{ l \} \} \} \\ 169 \ declare@shorthand\{german\} \{"m\} \{ \text{\bl@disc} \ m \{ mm \} \} \} \} \} \\ 170 \ declare@shorthand\{german\} \{"m\} \{ \text{\bl@disc} \ m \{ mm \} \} \} \} \\ 171 \ declare@shorthand\{german\} \{"m\} \{ \text{\bl@disc} \ m \{ nn \} \} \} \} \\ 172 \ declare@shorthand\{german\} \{"m\} \{ \text{\bl@disc} \ p \{ pp \} \} \} \} \\ 173 \ declare@shorthand\{german\} \{"p\} \{ \text{\ctstormath} \{ bbl@disc} \ p \{ pp \} \} \} \} \\ 174 \ declare@shorthand\{german\} \{"p\} \{ \text{\ctstormath} \{ bbl@disc} \ p \{ pp \} \} \} \} \\ 175 \ declare@shorthand\{german\} \{"r\} \{ \text{\ctstormath} \{ bbl@disc} \ r \{rr \} \} \} \}
```

```
176 \declare@shorthand{german}{"R}{\textormath{\bbl@disc R{RR}}{R}}
         177 \declare@shorthand{german}{"t}{\textormath{\bbl@disc t{tt}}}{t}}
         {\tt 178 \setminus declare@shorthand\{german\}{"T}\{\setminus textormath\{\setminus bbl@disc\ T\{TT\}\}\{T\}\}}
         (we need to treat "f a bit differently in order to preserve the ff-ligature)
         179 \declare@shorthand{german}{"f}{%
              \texorpdfstring{\textormath{\bbl@discff}{f}}% TeX string
         180
                              {f}% PDF string
         181
         182 }
         183 \def\bbl@discff{\penalty\@M
              \afterassignment\bbl@insertff \let\bbl@nextff= }
         185 \def\bbl@insertff{%
              \if f\bbl@nextff
                \expandafter\@firstoftwo\else\expandafter\@secondoftwo\fi
         187
              {\c}^{ff}\bbl@allowhyphens}{f\bbl@nextff}
         189 \let\bbl@nextff=f
         and some additional commands (hyphenation, line breaking and ligature control):
         {\tt 190 \backslash declare@shorthand\{german\}\{"-\}\{\backslash nobreak\backslash -\backslash bbl@allowhyphens\}\}}
         191 \declare@shorthand{german}{"|}{%
              192
                              {}% PDF string
         193
         194 }
         195 \declare@shorthand{german}{""}{\hskip\z@skip}
         196 \ensuremath{\mbox{declare@shorthand{german}{"\sim}}{\%}
              \texorpdfstring{\textormath{\leavevmode\hbox{-}}{-}}\% tex string
                              {-}% PDF string
         198
         199 }
         200 \declare@shorthand{german}{"=}{\epsilon \delayed.}
         {\tt 201 \backslash declare@shorthand\{german\}\{"/\}\{\backslash textormath}
              \mdqon All that's left to do now is to define a couple of commands for reasons of compatibility
\mdqoff with german.sty.
    \ck _{203} \def\mdqon{\shorthandon{"}}
         204 \ensuremath{\mbox{def}\mbox{mdqoff}\\mbox{\mbox{\mbox{\mbox{}}}}}
         {\tt 205 \backslash def\backslash ck\{\backslash bbl@allowhyphens\backslash discretionary\{k-\}\{k\}\{ck\}\backslash bbl@allowhyphens\}\}}
             The macro \ldf@finish takes care of looking for a configuration file, setting the main
```

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.

206 \ldf@finish\CurrentOption

5.6 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.⁴ These files themselves only load germanb.ldf, which does the real work:

⁴For 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

Change History

Version 1.0a	\noextrasgerman: Try to restore
General: Incorporated Nico's	everything to its former state 8
comments	General: Removed global assignments,
Version 1.ob	brought uptodate with german.tex
General: fixed typo in definition for	v2.3d
austrian language found by	Version 2.2a
Werenfried Spit nspit@fys.ruu.nl . 1	General: Renamed babel.sty in
Version 1.oc	babel.com
General: Fixed some typos	Version 2.2d
Version 1.1	General: Removed use of
\noextrasgerman: Added \dieresis 8	
General: When using PostScript fonts	Version 2.3
with the Adobe fontencoding, the	General: Rewritten parts of the code to
dieresis-accent is located	use the new features of babel
elsewhere, modified germanb 1	
Version 1.1a	Version 2.3e
General: Modified the documentation	\@captionsgerman: Added
somewhat	
Version 2.0	\alsoname
General: Modified for babel 3.0	\month@german: Added \month@german . ;
Now use \adddialect for austrian . 5	
Now use \adddialect if language	rewrote all quote macros to use it
undefined 5	•
Version 2.0a	patterns loaded
General: Removed some problems in	Brought up-to-date with german.tex
change log	
Version 2.ob	Version 2.3h
\extrasgerman: added some comment	General: moved definition of
chars to prevent white space 8	\allowhyphens,\set@low@box and
\noextrasgerman: added some	\save@sf@q to babel.com
comment chars to prevent white	Version 2.4
space	\@captionsgerman:\headpagename
Version 2.1	should be \pagename
General: Removed bug found by van	Version 2.5
der Meer	General: Update or \LaTeX 2 ε
Version 2.2	Version 2.5c
\@captionsgerman: \pagename should	General: Now use \@nopatterns to
be \headpagename6	produce the warning
Removed \global definitions 6	
\extrasgerman: Save all redefined	moved the identification after the
macros 8	loading of babel.def

definition files have been separated from the core, we provide the whole range of ldf files for the sake of completeness.

Version 2.6a	Use \edef to define \today to save
\noextrasgerman: All the code to	memory
handle the active double quote has	General: Copied the coding for "f
been moved to babel.def 9	from german.dtx version 2.5d 11
Removeed \3 as it is no longer in	use \SS instead of SS, removed
germanb.ldf9	braces after \ss 10
use \germanhyphenmins to store the	Version 2.6i
correct values 9	\noextrasgerman: Deactivate
General: \umlautlow and \umlauthigh	shorthands outside of German
moved to glyphs.dtx, as well as	Version 2.6j
\newumlaut $(now \setminus lower@umlaut 9)$	\@captionsgerman: Added
Moved all quotation characters to	\glossaryname
glyphs.dtx9	\noextrasgerman: Now use
Moved the identification to the top	\providehyphenmins to provide a
of the file 1	default value
Rewrote the code that handles the	Version 2.6k
active double quote character 1	
Use \ddot instead of \@MATHUMLAUT 10	\noextrasgerman: Turn frenchspacing
Version 2.6b	on, as in german.sty
\@captionsgerman: Added \proofname	Version 2.6l
for AMS-LETEX 6	General: Making germanb behave like
Version 2.6c	german needs some more work
\noextrasgerman: Use decimal number	besides defining \CurrentOption
instead of hat-notation as the hat	Version 2.6m
may be activated 9	General: Corrected a typo
General: added the \allowhyphens 10	Version 2.7
Moved \german@dq@disc to	\@captionsgerman: Changed \enclname
babel.def, calling it \bbl@disc 10	in austrian to $Beilage(n)$
Version 2.6d	Split \captionsgerman from
\@captionsgerman: Construct control	\captionsaustrian and
sequence on the fly 6	\captionsswissgerman 6
\noextrasgerman: Construct control	\dateswissgerman: Added
sequence \extrasgerman or	\dateswissgerman
\extrasaustrian on the fly 8	\extrasswissgerman: Added
General: Moved the definition of	\extrasswissgerman {
\atcatcode right to the beginning 1	\noextrasgerman: Deactivate
Now use \ldf@finish to wrap up . 11	shorthands also outside of
Now use \LdfInit to perform initial checks 5	austrian and swissgerman
Replaced \undefined with	Do not use \@namedef when
\@undefined and \empty with	\noextras is already defined and
\@empty for consistency with ETeX . 1	should not be overwritten
Version 2.6f	\noextrasswissgerman: Added
\ck: Now use \shorthandon and	\noextrasswissgerman {
\shorthandoff11	General: Added support for variety
\dateaustrian: use \def instead of	swissgerman
\edef8	Generate portmanteau files
Use \edef to define \today to save	austrian.ldf, german.ldf and
memory 8	swissgerman.ldf 13
\dategerman: use \def instead of \edef 7	Revised austrian support
(tte itee australi bapport.

Revised documentation: Turn the	Version 2.9
babel manual chapter into a	General: Add "/ shortcut for breakable
self-enclosed manual 1	(
Version 2.7b	Do not attempt to load \l@austrian,
General: Do not warn about missing	which does not exist 5
swissgerman patterns if	Version 2.10
swissgerman is not loaded 6 Version 2.8	\noextrasgerman: Implement boolean switch \tosstrue/\tossfalse to
\@captionsgerman: Define	customize $\langle \beta \rangle$ -related shorthands
trans-variational base captions	in Swiss Standard German context. 8
which are loaded and modified by	Implement modifier toss to
the varieties 6	customize $\langle \beta \rangle$ -related shorthands
\captionsaustrian: Only define	in Swiss Standard German context. 8
\captionsaustrian if austrian is	General: Add helper macros to
requested 7	identify the current option 5
\captionsgerman: Only define	Improvements to the manual 1
\captionsgerman if german is	17
requested	General: Fix old hyphenation
\captionsswissgerman: Only define	regression introduced with babel
\captionsswissgerman if	- () :1 f
swissgerman is requested 7	shorthands (change of meaning of
\dateaustrian: Only define	\allowhyphens vs.
\dateaustrian if austrian is	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\
requested 8	Version 2.12
\dategerman: Only define \dategerman	
if german is requested	in hyperref pdf strings 10
\dateswissgerman: Only define	Version 2.13
\dateswissgerman if swissgerman is requested 8	-
General: Only add Austrian dialect if	General: Move option helper macros after \LdfInit to fix plain tex
austrian is loaded 5	
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