

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

Johannes Braams Bernd Raichle Walter Schmidt
Jürgen Spitzmüller*

v2.10 (2018/03/29)

Abstract

This manual documents babel language support for German (pre-1996 orthography), including support for the Austrian and Swiss 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 varieties of German, in *traditional (1901–1996) spelling*. For contemporary (‘reformed’ i. e., post-1996) German orthography support, please refer to the complementary `ngermanb` manual.¹ 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 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>.

¹ 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. [5]) and later maintained by Bernd Raichle (cf. [6]). Johannes Braams did the initial re-implementation.

² See 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 traditional German spelling: consonantal 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 ⟨ä⟩ (shorthand for \a). Similar shorthands are available for all other lower- and uppercase vowels (umlauts: "a, "o, "u, "A, "O, "U; tremata: "e, "i, "E, "I).
	"s	German ⟨ß⟩ (shorthand for \ss{}); but cf. sec. 4.
	"z	German ⟨ß⟩ (shorthand for \ss{}). The difference to "s is the uppercase version; but cf. sec. 4.
	"ck	⟨ck⟩, hyphenated as ⟨k-k⟩.
	"ff	⟨ff⟩, hyphenated as ⟨ff-f⟩; this is also implemented for ⟨l⟩, ⟨m⟩, ⟨n⟩, ⟨p⟩, ⟨r⟩ and ⟨t⟩. Please refer to sec. 4 for why this does not include ⟨s⟩.
	"S	\uppercase{"s}, typeset as ⟨SS⟩ (⟨ß⟩ must be written as ⟨SS⟩ [or ⟨SZ⟩, see below] in uppercase writing).
	"Z	\uppercase{"z}, typeset as ⟨SZ⟩ (⟨ß⟩ must be written as ⟨SZ⟩ [or ⟨SS⟩, 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 ⟨„⟩.
	"’	German right double quotes ⟨”⟩.
	"<	French/Swiss left double quotes ⟨«⟩.
	">	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)

<code>\glqq</code>	German left double quotes <code>«</code> .
<code>\grqq</code>	German right double quotes <code>»</code> .
<code>\glq</code>	German left single quotes <code>‚</code> .
<code>\grq</code>	German right single quotes <code>‘</code> .
<code>\flqq</code>	French/Swiss left double quotes <code>«</code> .
<code>\frqq</code>	French/Swiss right double quotes <code>»</code> .
<code>\flq</code>	French/Swiss left single quotes <code>‚</code> .
<code>\frq</code>	French/Swiss right single quotes <code>‘</code> .
<code>\dq</code>	The straight quotation mark character <code>"</code> .

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 traditional and reformed 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 material output of documents is subject to change with 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`/`pdf``tex`), 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 German: here, the classic engines use the ‘experimental’ patterns by default (since there were no patterns available previously anyway).

This all means that you need to explicitly activate the new patterns for a given document with the classic engines and in case of `german` and `austrian`, should you want to use it instead of the old ones. With Babel, this can be done quite easily by means of the `hyphsubst` [4] package, like this (please refer to [3] and [4] for details):

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

For `austrian`, the code needs to be adapted accordingly.

4 Variety-specific options

New feature
in v. 2.10!

In Swiss (and Liechtensteinian) German writing, the use of ⟨ß⟩ is rather uncommon. Swiss writers would normally use ⟨ss⟩ where German or Austrian writers use the ⟨ß⟩ character (e. g., *Buße* vs. *Busse*). When texts (or names) from other German speaking areas are quoted, however, the spelling 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 ⟨ss⟩ directly when they mean ⟨ss⟩, and we assume furthermore that the ⟨ß⟩-related shorthands "s and "z are useful also for Swiss writers when they actually need ⟨ß⟩, the more so since the ⟨ß⟩ 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 ⟨ß⟩ into ⟨ss⟩.

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

- To globally switch on the digraphical expansion, use the Babel modifier `toss` (read: 'to ⟨ss⟩') with `nswissgerman`. I. e., pass `nswissgerman.toss` (rather than `nswissgerman`) 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.

This results 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 ⟨ss⟩ in Swiss German: as opposed to other consonantal letters, the ⟨s⟩ 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 *Schiffahrt*), except if the word is hyphenated (*Schiff-fahrt*); the shorthands "ff etc. account for that). This does not apply to ⟨s⟩! In that case, always all three consonants are spelled out (e. g., *Kongressaal*, not *Kongressaal*). This is why we don't provide a shorthand for the ⟨sss⟩ case.

5 Implementation

5.1 General settings

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

```
1 \def\bbl@opt@german{german}
2 \def\bbl@opt@germanb{germanb}
3 \def\bbl@opt@austrian{austrian}
4 \def\bbl@opt@swissgerman{swissgerman}
```

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

```
5 \ifx\CurrentOption\bbl@opt@germanb
6   \def\CurrentOption{german}
7   \ifx\l@german\@undefined
8     \@nopatterns{German (trad. orthography)}
9     \adddialect\l@german0
10  \fi
11  \let\l@germanb\l@german
12  \AtBeginDocument{%
13    \let\captionsgermanb\captionsgerman
14    \let\dategermanb\dategerman
15    \let\extrasgermanb\extrasgerman
16    \let\noextrasgermanb\noextrasgerman
17  }
18 \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.

```
19 \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` and issue a warning if it is unknown.

```
20 \ifx\l@german\@undefined
21   \@nopatterns{German (trad. orthography)}
22   \adddialect\l@german0
23 \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.

```
24 \ifx\CurrentOption\bbl@opt@austrian
25   \ifx\l@german\@undefined
26     \@nopatterns{German (trad. orthography), needed by Austrian (trad. orthography)}
27     \adddialect\l@austrian0
28   \else
29     \adddialect\l@austrian\l@german
30   \fi
31 \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.

```

32 \ifx\CurrentOption\bbl@opt@swissgerman
33   \ifx\l@swissgerman\@undefined
34     \ifx\l@german\@undefined
35       \@nopatterns{Swiss German (trad. orthography) and German (trad. orthography)}
36       \adddialect\l@swissgerman0
37     \else
38       \@nopatterns{Swiss German (trad. orthography)}
39       \adddialect\l@swissgerman\l@german
40     \fi
41   \fi
42 \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 \TeX for German. This is an internal macro that is inherited and modified by the following macros for the respective language varieties.

```

43 \@namedef{@captionsgerman}{%
44   \def\prefacename{Vorwort}%
45   \def\refname{Literatur}%
46   \def\abstractname{Zusammenfassung}%
47   \def\bibname{Literaturverzeichnis}%
48   \def\chaptername{Kapitel}%
49   \def\appendixname{Anhang}%
50   \def\contentsname{Inhaltsverzeichnis}%
51   \def\listfigurename{Abbildungsverzeichnis}%
52   \def\listtablename{Tabellenverzeichnis}%
53   \def\indexname{Index}%
54   \def\figurename{Abbildung}%
55   \def\tablename{Tabelle}%
56   \def\partname{Teil}%
57   \def\enclname{Anlage(n)}%
58   \def\ccname{Verteiler}%
59   \def\headtoname{An}%
60   \def\pagename{Seite}%
61   \def\seename{siehe}%
62   \def\alsoname{siehe auch}%
63   \def\proofname{Beweis}%
64   \def\glossaryname{Glossar}%
65 }

```

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

```

66 \ifx\CurrentOption\bbl@opt@german
67   \@namedef{captionsgerman}{%
68     \@nameuse{@captionsgerman}%
69   }
70 \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.

```

71 \ifx\CurrentOption\bbl@opt@austrian
72   \@namedef{captionsaustrian}{%
73     \@nameuse{@captionsgerman}%
74     \def\enclname{Beilage(n)}%
75   }
76 \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.

```

77 \ifx\CurrentOption\bbl@opt@swissgerman
78   \@namedef{captionsswissgerman}{%
79     \@nameuse{@captionsgerman}%
80     \def\enclname{Beilage(n)}%
81   }
82 \fi

```

5.3 Date localizations

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

```

83 \def\month@german{\ifcase\month\or
84   Januar\or Februar\or M\arz\or April\or Mai\or Juni\or
85   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.

```

86 \ifx\CurrentOption\bbl@opt@german
87   \def\dategerman{\def\today{\number\day.\~\month@german
88     \space\number\year}}
89 \fi

```

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

```

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

```

94 \ifx\CurrentOption\bbl@opt@austrian
95   \def\dateaustrian{\def\today{\number\day.\~\ifnum1=\month
96     J\"anner\else \month@german\fi \space\number\year}}
97 \fi

```

5.4 Extras

`\extrasgerman` 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` `\noextrasaustrian` and `\noextrasswissgerman` behave analogously.

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

```

98 \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.

```

99 \@namedef{extras\CurrentOption}{%
100   \languageshorthands{german}}
101 \expandafter\addto\csname extras\CurrentOption\endcsname{%
102   \bbl@activate{"}}

```

`toss` For Swiss German, we allow optionally to expand the ⟨ß⟩-related shorthands the Swiss way, i. e. as ⟨ss⟩ (globally, if the modifier `toss` is used or locally if `\tosstrue`).

```

\tosstrue
\tossfalse
103 \newif\iftoss\tossfalse
104 \newif\ifbbl@toss\bbl@tossfalse
105 \ifx\bbl@mod@swissgerman\undefined\else
106   \@expandtwoargs\in{,toss,}{,\bbl@mod@swissgerman,}
107   \ifin@
108     \tosstrue
109   \fi
110   \addto\extrasswissgerman{%
111     \iftoss\bbl@tosstrue\else\bbl@tossfalse\fi}
112 \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.

```

113 \expandafter\addto\csname noextras\CurrentOption\endcsname{%
114   \bbl@deactivate{"}}
115 \ifx\CurrentOption\bbl@opt@swissgerman
116   \addto\noextrasswissgerman{\bbl@tossfalse}
117 \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 \TeX book).

```
118 \expandafter\addto\csname extras\CurrentOption\endcsname{%
119   \babel@savevariable{\lccode25}%
120   \lccode25=25}
```

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

```
121 \expandafter\addto\csname extras\CurrentOption\endcsname{%
122   \babel@save{"\umlautlow}
```

```
123 \expandafter\addto\csname noextras\CurrentOption\endcsname{%
124   \umlauthigh}
```

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

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

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

```
126 \expandafter\addto\csname extras\CurrentOption\endcsname{%
127   \bbl@frenchspacing}
128 \expandafter\addto\csname noextras\CurrentOption\endcsname{%
129   \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 $\langle \rangle$ handling.

```
130 \begingroup \catcode'\ "12
131 \def\x{\endgroup
132   \def\dq{"}
133   \def\@SS{\mathchar"7019 }
134   \def\bbl@ss{\ifbbl@toss ss\else\textormath{\ss}{\@SS}}\fi}
135   \def\bbl@SS{SS}
136   \def\bbl@sz{\ifbbl@toss sz\else\textormath{\ss}{\@SS}}\fi}
137   \def\bbl@SZ{SZ}
138 }
139 \x
```

Now we can define the doublequote shorthands: the umlauts,

```
140 \declare@shorthand{german}{a}{\textormath{"a}\allowhyphens}{\ddot a}}
141 \declare@shorthand{german}{o}{\textormath{"o}\allowhyphens}{\ddot o}}
```

```

142 \declare@shorthand{german}{\u}{\textormath{\{u\allowhyphens}{\ddot u}}
143 \declare@shorthand{german}{\A}{\textormath{\{A\allowhyphens}{\ddot A}}
144 \declare@shorthand{german}{\O}{\textormath{\{O\allowhyphens}{\ddot O}}
145 \declare@shorthand{german}{\U}{\textormath{\{U\allowhyphens}{\ddot U}}

```

tremata,

```

146 \declare@shorthand{german}{\e}{\textormath{\{e\}{\ddot e}}
147 \declare@shorthand{german}{\E}{\textormath{\{E\}{\ddot E}}
148 \declare@shorthand{german}{\i}{\textormath{\{i\}%
      {\ddot\imath}}}
149
150 \declare@shorthand{german}{\I}{\textormath{\{I\}{\ddot I}}

```

German ß,

```

151 \declare@shorthand{german}{\s}{\bbl@ss}
152 \declare@shorthand{german}{\S}{\bbl@SS}
153 \declare@shorthand{german}{\z}{\bbl@sz}
154 \declare@shorthand{german}{\Z}{\bbl@SZ}

```

German and French/Swiss quotation marks,

```

155 \declare@shorthand{german}{\'}{\glqq}
156 \declare@shorthand{german}{\''}{\grqq}
157 \declare@shorthand{german}{\<}{\flqq}
158 \declare@shorthand{german}{\>}{\frqq}

```

discretionary commands

```

159 \declare@shorthand{german}{\c}{\textormath{\bbl@disc ck}{c}}
160 \declare@shorthand{german}{\C}{\textormath{\bbl@disc CK}{C}}
161 \declare@shorthand{german}{\F}{\textormath{\bbl@disc F{FF}}{F}}
162 \declare@shorthand{german}{\l}{\textormath{\bbl@disc l{ll}}{l}}
163 \declare@shorthand{german}{\L}{\textormath{\bbl@disc L{LL}}{L}}
164 \declare@shorthand{german}{\m}{\textormath{\bbl@disc m{mm}}{m}}
165 \declare@shorthand{german}{\M}{\textormath{\bbl@disc M{MM}}{M}}
166 \declare@shorthand{german}{\n}{\textormath{\bbl@disc n{nn}}{n}}
167 \declare@shorthand{german}{\N}{\textormath{\bbl@disc N{NN}}{N}}
168 \declare@shorthand{german}{\p}{\textormath{\bbl@disc p{pp}}{p}}
169 \declare@shorthand{german}{\P}{\textormath{\bbl@disc P{PP}}{P}}
170 \declare@shorthand{german}{\r}{\textormath{\bbl@disc r{rr}}{r}}
171 \declare@shorthand{german}{\R}{\textormath{\bbl@disc R{RR}}{R}}
172 \declare@shorthand{german}{\t}{\textormath{\bbl@disc t{tt}}{t}}
173 \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)

```

174 \declare@shorthand{german}{\f}{\textormath{\bbl@discff}{f}}
175 \def\bbl@discff{\penalty\@M
176   \afterassignment\bbl@insertff \let\bbl@nextff= }
177 \def\bbl@insertff{%
178   \if f\bbl@nextff
179     \expandafter\@firstoftwo\else\expandafter\@secondoftwo\fi
180     {\relax\discretionary{ff-}{f}{ff}\allowhyphens}{f\bbl@nextff}}
181 \let\bbl@nextff=f

```

and some additional commands (hyphenation, line breaking and ligature control):

```

182 \declare@shorthand{german}{"-}{\nobreak\-\bbl@allowhyphens}
183 \declare@shorthand{german}{"}{|}{%
184   \textormath{\penalty\@M\discretionary{-}{-}{\kern.03em}%
185     \allowhyphens}{-}}
186 \declare@shorthand{german}{""}{\hskip\z@skip}
187 \declare@shorthand{german}{~}{\textormath{\leavevmode\hbox{-}{-}{-}}
188 \declare@shorthand{german}{"}{~}{\penalty\@M-\hskip\z@skip}
189 \declare@shorthand{german}{"/}{\textormath
190   {\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.

```

\ck 191 \def\mdqon{\shorthandon{}}
192 \def\mdqoff{\shorthandoff{}}
193 \def\ck{\allowhyphens\discretionary{k-}{k}{ck}\allowhyphens}

```

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.

```

194 \ldf@finish\CurrentOption

```

5.6 austrian.ldf, german.ldf and swissgerman.ldf

Babel expects a *<lang>.ldf* file for each *<lang>*. So we create portmanteau ldf files for austrian, german and swissgerman.³ These files themselves only load germanb.ldf, which does the real work:

```

195 \input germanb.ldf\relax

```

Change History

Version 1.0a		with the Adobe fontencoding, the
General: Incorporated Nico's		dieresis-accent is located
comments	1	elsewhere, modified germanb 1
Version 1.0b		Version 1.1a
General: fixed typo in definition for		General: Modified the documentation
austrian language found by		somewhat 1
Werenfried Spit nspit@fys.ruu.nl	1	Version 2.0
Version 1.0c		General: Modified for babel 3.0 1
General: Fixed some typos	1	Now use \adddialect for austrian 5
Version 1.1		Now use \adddialect if language
\noextrasgerman: Added \dieresis	8	undefined 5
General: When using PostScript fonts		

³ For 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.

Version 2.0a		Version 2.4	
General: Removed some problems in		\@captionsgerman: \headpagename	
change log	1	should be \pagename	6
Version 2.0b		Version 2.5	
\extrasgerman: added some comment		General: Update or \LaTeX 2 ϵ	1
chars to prevent white space	8	Version 2.5c	
\noextrasgerman: added some		General: Now use \@nopatterns to	
comment chars to prevent white		produce the warning	5
space	8	Removed the use of \filedate and	
Version 2.1		moved the identification after the	
General: Removed bug found by van		loading of babel.def	1
der Meer	1	Version 2.6a	
Version 2.2		\noextrasgerman: All the code to	
\@captionsgerman: \pagename should		handle the active double quote has	
be \headpagename	6	been moved to babel.def	9
Removed \global definitions	6	Removed \3 as it is no longer in	
\extrasgerman: Save all redefined		germanb.ldf	9
macros	8	use \germanhyphenmins to store the	
\noextrasgerman: Try to restore		correct values	9
everything to its former state	8	General: \umlautlow and \umlauthigh	
General: Removed global assignments,		moved to glyphs.dtx, as well as	
brought uptodate with german.tex		\newumlaut (now \lowerumlaut	9
v2.3d	1	Moved all quotation characters to	
Version 2.2a		glyphs.dtx	9
General: Renamed babel.sty in		Moved the identification to the top	
babel.com	1	of the file	1
Version 2.2d		Rewrote the code that handles the	
General: Removed use of		active double quote character	1
\@ifundefined	5	Use \ddot instead of \@MATHUMLAUT	9
Version 2.3		Version 2.6b	
General: Rewritten parts of the code to		\@captionsgerman: Added \proofname	
use the new features of babel		for AMS- \LaTeX	6
version 3.1	1	Version 2.6c	
Version 2.3e		\noextrasgerman: Use decimal number	
\@captionsgerman: Added		instead of hat-notation as the hat	
\prefacename, \seename and		may be activated	9
\alsoname	6	General: added the \allowhyphens	9
\month@german: Added \month@german	7	Moved \german@dq@disc to	
General: Added \save@sf@q macro and		babel.def, calling it \bbl@disc	9
rewrote all quote macros to use it	9	Version 2.6d	
Added warning, if no german		\@captionsgerman: Construct control	
patterns loaded	5	sequence on the fly	6
Brought up-to-date with german.tex		\noextrasgerman: Construct control	
v2.3e (plus some bug fixes) [br]	1	sequence \extrasgerman or	
Version 2.3h		\extrasaustrian on the fly	8
General: moved definition of		General: Moved the definition of	
\allowhyphens, \set@low@box and		\atcatcode right to the beginning.	1
\save@sf@q to babel.com	9	Now use \ldf@finish to wrap up	11
		Now use \LdfInit to perform initial	
		checks	5

Replaced \undefined with \@undefined and \empty with \@empty for consistency with L ^A T _E X	Do not use \@namedef when \noextras is already defined and should not be overwritten.
Version 2.6f	\noextrasswissgerman: Added
\ck: Now use \shorthandon and \shorthandoff	\noextrasswissgerman.
\dateaustrian: use \def instead of \edef	General: Added support for variety swissgerman.
Use \edef to define \today to save memory	Generate portmanteau files austrian.ldf, german.ldf and swissgerman.ldf.
\dategerman: use \def instead of \edef	Revised austrian support.
Use \edef to define \today to save memory	Revised documentation: Turn the babel manual chapter into a self-enclosed manual.
General: Copied the coding for "f from german.dtx version 2.5d	Version 2.7b
use \SS instead of SS, removed braces after \ss	General: Do not warn about missing swissgerman patterns if swissgerman is not loaded
Version 2.6i	Version 2.8
\noextrasgerman: Deactivate shorthands outside of German.	\@captionsgerman: Define trans-variational base captions which are loaded and modified by the varieties
Version 2.6j	\captionsaustrian: Only define \captionsaustrian if austrian is requested.
\@captionsgerman: Added \glossaryname	\captionsgerman: Only define \captionsgerman if german is requested.
\noextrasgerman: Now use \providehyphenmins to provide a default value	\captionsswissgerman: Only define \captionsswissgerman if swissgerman is requested.
Version 2.6k	\dateaustrian: Only define \dateaustrian if austrian is requested.
\noextrasgerman: Turn frenchspacing on, as in german.sty	\dategerman: Only define \dategerman if german is requested.
Version 2.6l	\dateswissgerman: Only define \dateswissgerman if swissgerman is requested.
General: Making germanb behave like german needs some more work besides defining \CurrentOption	General: Only add Austrian dialect if austrian is loaded
Version 2.6m	Version 2.9
General: Corrected a typo	General: Add "/" shortcut for breakable slash (taken from dutch.ldf)
Version 2.7	Do not attempt to load \l@austrian, which does not exist
\@captionsgerman: Changed \enclname in austrian to <i>Beilage(n)</i>	Version 2.10
Split \captionsgerman from \captionsaustrian and \captionsswissgerman.	\noextrasgerman: Implement boolean switch \tosstrue/\tossfalse to
\dateswissgerman: Added \dateswissgerman.	
\extrasswissgerman: Added \extrasswissgerman.	
\noextrasgerman: Deactivate shorthands also outside of austrian and swissgerman.	

customize ⟨ß⟩-related shorthands	in Swiss German context.	8
in Swiss German context.	8	
Implement modifier toss to	General: Add helper macros to	
customize ⟨ß⟩-related shorthands	identify the current option.	5
	Improvements to the manual	1

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] Deutschsprachige Trennmustermannschaft: *dehyph-exptl – Experimental hyphenation patterns for the German language*. <https://ctan.org/pkg/dehyph-exptl>.
- [4] Heiko Oberdiek: *hyphsubst – Substitute hyphenation patterns*. <https://ctan.org/pkg/hyphsubst>.
- [5] Partl, Hubert: *German T_EX, TUGboat* 9/1 (1988), p. 70–72.
- [6] Raichle, Bernd: *German*. <http://www.ctan.org/pkg/german>.
- [7] Manuel Pégourié-Gonnard et al.: *hyph-utf8 – Hyphenation patterns expressed in UTF-8*. <https://ctan.org/pkg/hyph-utf8>.