

Babel Support for German

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Abstract

This manual documents babel language support for German as provided by the babel-german package. The package supports all major (standard) varieties of German (i. e., Austrian, Swiss, and German Standard German) in contemporary as well as in pre-1996 (i. e., 1901) spelling.

1 Aims and Scope

The babel-german package documented in this manual provides the babel package with all language-specific strings, settings and commands needed for writing German texts (or German passages in texts). Furthermore, the package assures that the appropriate hyphenation patterns are used for these texts or text passages (see sec. 5 for details).

Since German is a pluricentric language with differing standard varieties (in Austria, Switzerland, and Germany), babel-german supports three varieties of Standard German.¹ Furthermore, since the spelling and hyphenation rules of German (in all these standard varieties) have been reformed in 1996 (and in subsequent years), the package provides support for two spelling and hyphenation variants of each standard variety, viz. the deprecated 1901 spelling and the current ('reformed') 1996 spelling.

The following section provides some information on the history of the package, and in particular on a major interface change as of version 2.99. If you have been a user of babel-german before that version, you are advised to read this. If you are new or started using babel-german later than that, and just interested how to use the package, you can jump directly to section 3.

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¹Austria, Switzerland, and Germany are so-called *full centers* of Standard German, as they developed each their specific codex. German is also an official language in Liechtenstein and Luxembourg, in parts of Italy (South Tyrol/Alte Adige), and a legally acknowledged minority language in other regions in the world. However, these *half* and *quarter centers* do not have their own codizes; South Tyrol/Alte Adige employs Austrian standard, Liechtenstein Swiss standard, Luxembourg and Belgium orient towards German standard (cf. [1] for linguistic details).

2 Caveats on Language Naming

2.1 Language Names in babel-german: A Tangled Affair

The origins of this package reach well beyond the mentioned spelling reform.² This has led to a rather unfortunate situation. When the spelling reform happened, the terms *german* and *austrian*³ have already been used in babel for a couple of years, but of course they adhered to the rules of pre-1996 spelling/hyphenation. Since these rules (both spelling and hyphenation) changed quite significantly with the reform, post-1996 German orthography could not be supported with the existing language support files. Adapting those to the reformed orthography was not an option, as this would have dropped support for the previous norms (and hence existing or future documents that employ pre-1996 orthography). It would also not have been socially acceptable since the spelling reform hit quite heavy resistance in the general public (cf. [7]), and many (L^AT_EX users certainly included) assumed, and hoped, the new rules would be withdrawn again rather sooner than later anyway.

Against the backdrop of this, post-1996 support had not been integrated into the existing language support files for German and Austrian German, but provided separately in additional ones (technically in completely separated, though collectively distributed packages) – incidentally almost three years after the reformed orthography has come into effect (albeit with a transition period of eight years). These additional support files were named *naustrian* and *ngerman* in order to distinguish them from the received ones (with the *n* obviously expanding to ‘new’, referring to the then common label, *neue Rechtschreibung* ‘new orthography’). When support for the Swiss standard variety was added in 2013, the ‘new orthography’ was not so new anymore and widely accepted. Nonetheless, the naming convention was not touched and adopted for the new varieties, *swissgerman* (pre-1996) and *nswissgerman* (post-1996).

Fast forward even more, thirty years after the reformed rules have been implemented, the 1996 orthography and the heated debate it caused have long settled, the (no longer really) ‘new’ orthography is the common one in all German-writing countries. Pre-1996 orthography is only employed by a minority of writers as the main norm, but of course it is still needed for texts that have been written before the reform, or – more commonly – as a secondary variety if you quote from such older texts.

So, to be sure, in our days, most people expect to get current (that is, post-1996) standards when selecting *german* in babel. Some arguably are not even aware that there have been older orthographic standards. Yet with babel, one still needed to select *ngerman*, *naustrian*, or *nswissgerman* to get contemporary orthographic conventions and hyphenation rules in the year 2025! The terms you would intuitively use, on the other hand, loaded patterns and captions that are not what many users would expect, namely those adhering to pre-1996 norms.

²Support for pre-1996 German started as a re-implementation of the package *german.sty* (v. 2.5b), originally developed by Hubert Partl (cf. [8]) and later maintained by Bernd Raichle (cf. [9]). Support for current varieties of German (post-1996 orthography) emerged as a re-implementation of Walter Schmidt’s (1998, cf. [11]) companion package to *german.sty*, *ngerman.sty*. The initial re-implementations for babel were done by Johannes Braams, the original author and then maintainer of babel, in 1990 (for pre-1996 conventions) and 1999 (for post-1996 conventions). In 2013, Jürgen Spitzmüller took over maintainership for the then orphaned language support files that have been outsourced from babel itself to the independent package, *babel-german*.

³*Austrian* is a rather clumsy and irritating shorthand for *Austrian [Standard] German*, which does not only imply that there is a completely separate ‘Austrian’ language, but also that in Austria, (Austrian Standard) German is the only official language (whereas, according to the Austrian constitution, there are seven more, the so-called ‘acknowledged minority languages’ [Burgenland] Croatian, Czech, Hungarian, Slovak, Slovenian, Romanes, and Austrian Sign Language).

Why hasn't this been changed once the 1996 orthography has settled? The main reason is *backwards compatibility*. A simple semantic switch (with `german` then suddenly meaning post-1996 orthography) would break with a central promise of \LaTeX : \LaTeX does not change the output of existing documents behind the back of their authors!

While this is a very good principle, sometimes breaking it might be warranted, since keeping things as they are causes more harm than it prevents from. And this has arguably become the case with the language names of `babel-german`: More and more people reported that they are irritated by the fact that `german` does not mean what they expect (namely, German according to current standards). It has been assumed that many even erroneously loaded pre-1996 patterns without noticing (and getting wrong hyphenations). Given all that, we have been urged to do the compatibility-breaking change, and at some point, we have finally been convinced to do it – but only since we found some strategies to do it in a way that will affect as less users as possible (although it will still definitely affect some). The next section will elaborate on the changes and strategies.

2.2 The New Language Naming Convention

New feature
in v. 2.99!

With v. 2.99 of this package, a new and more appropriate naming scheme is introduced. As of v. 3.0, we will also change the (default) semantics of `german`. All of these are major changes which might break backwards compatibility (but only the change of `german` will do it in a way that affects *existing* documents as opposed to new documents sent to users of older versions of `babel-german`). The changes address several problems:

1. Ultimately, the confusion of `german` activating pre-1996 orthography shall be resolved. From v. 3.0 on, `german` will load contemporary (post-1996) patterns for German Standard German⁴, except for documents where we assume it really means pre-1996 orthography, that is, documents also loading `ngerman`, `naustrian`, or `nswissgerman`.

This will also have an effect on the internal language names, which are still defined in the file `language.dat` in the received way (meaning `\l@german` continues to denote pre-1996 patterns, `\l@ngerman` post-1996 patterns by default). If the semantics of `german` is changed, `\l@german` also has to be redefined. Hence, a new name for pre-1996 German is introduced, `\l@tgerman`, which will have a stable meaning independent of the naming convention, `\l@ngerman` continues to denote post-1996 patterns, `\l@german` might denote one or the other, depending on the option discussed next.

2. To adjust this for specific documents, we introduce an option where you can select whether `german` should still always load pre-1996 patterns (this will remain to be the default before v. 3.0), always post-1996 patterns notwithstanding parallel usages of `ngerman`, `naustrian`, or `nswissgerman`, or guess depending on whether these `n`-options are used or not (the default as of v. 3.0). See section 4 for details.
3. While we are at it, we introduce more appropriate terms (language options) for the selection of language varieties and deprecate some of the problematic ones together with the `n`-forms (but of course, those received options will continue to work, although they might encourage you to switch in a warning once the new scheme has settled).

⁴This follows the received convention to imply *German* Standard German for `german`, but see section 4 why this is not so straightforward.

4. These new language options also use the newer and better ‘experimental’ hyphenation patterns by default, whereas the received options continue to use the less accurate legacy patterns by default (see sec. 5). The option `german` uses the newer patterns whenever it is configured to refer to post-1996 orthography, legacy patterns otherwise.

Having unpacked all this rather intricate background, we now turn to the actual usage of the package.

3 Enabling German Support

In order to use the language support provided by `babel-german`, you need to load the `babel` package (via `\usepackage{babel}`) and pass one of the following language options either directly to `babel` (via `\usepackage[<options>]{babel}`) or to `\documentclass` (the latter has the advantage that also other packages are informed of the option⁵). If you use multiple languages/varieties (including different regional or orthographic varieties of German), the one passed last is treated by `babel` as the main language of the document.

The behavior of some language varieties can be adjusted by language variety options. All of these can be set via the macro `\germansetup`, which takes a comma-separated list of options as its mandatory argument and is to be used in the document preamble after `babel` has been loaded. Some options alternatively might be passed as a `babel` modifier, which might give a more granular setting, since `\germansetup` applies to all varieties that support a specific option, `babel` modifiers only to the variety that is being modified.⁶

The available language and language variety options are introduced in what follows.

New feature
in v. 2.99!

3.1 Austrian Standard German

Austrian Standard German refers to the norms current in Austria and South Tyrol/Alte Adige. The available choices are:

New feature
in v. 2.99!

- `german-at` or `german-austria` if you want contemporary (post-1996) patterns
- `german-at-1901` or `german-austria-1901` if you want pre-reform (pre-1996) patterns

New feature
in v. 2.14!

Contemporary (post-1996) Austrian Standard German provides an additional feature that is enabled via the language variety option (`\germansetup` or `babel` modifier) `capsz` and disabled via `\germansetup option capsz=false` or `babel` modifier `nocapsz`:

- `capsz`: `\MakeUppercase{ß}`, `\MakeUppercase{"s}` and the "S shorthand expand to the capital eszett letter rather than `<SS>` (see sec. 7.1 for details).
- `nocapsz` (= default): `\MakeUppercase{ß}`, `\MakeUppercase{"s}` and the "S expand to `<SS>`. Within `\germansetup`, use `capsz=false` instead.

The received options `austrian` and `naustrian` still work (the latter also with the `capsz` option), but you are discouraged to use them unless you share your document with co-authors who have an older version of `babel-german` installed, or if you use a package that

⁵Side note to package authors; `babel-german` inserts the respective legacy options to the class options list if new options are used. So the new options should also work with most packages that only rely on the received ones.

⁶If languages are loaded via `babel` option, modifiers are appended to the language name with a dot, e.g. `german-at.capsz`; if languages are loaded via `\documentclass` options, use additionally `babel` options of the form `modifiers.german-at=capsz`.

does not (yet) understand the new options. Also note that these options use the legacy hyphenation patterns by default, whereas the recommended options use the newer and better ‘experimental’ patterns (see sec. 5).

3.2 German Standard German

German Standard German refers to the norms current in Germany, Luxembourg, and Belgium. The available choices are:

New feature
in v. 2.99!

- `german-de` or `german-germany` if you want contemporary (post-1996) patterns
- `german-de-1901` or `german-germany-1901` if you want pre-reform (pre-1996) patterns

New feature
in v. 2.14!

Like Austrian Standard German, contemporary (post-1996) German Standard German optionally supports the capital eszett letter. The feature is enabled via the language variety option (`\germansetup` or babel modifier) `capsz` and disabled via babel modifier `nocapsz` or `\germansetup` option `capsz=false`:

- `capsz`: `\MakeUppercase{ß}`, `\MakeUppercase{"s}` and the "S shorthand expand to the capital eszett letter rather than `<SS>` (see sec. 7.1 for details).
- `nocapsz` (= default): `\MakeUppercase{ß}`, `\MakeUppercase{"s}` and the "S expand to `<SS>`. Within `\germansetup`, use `capsz=false` instead.

The received options `german` and `ngerman` still work (the latter also with the `capsz` option), but you are discouraged to use them unless you share your document with co-authors who have an older version of `babel-german` installed, or if you use a package that does not (yet) understand the new options.

While `german` seems the obvious choice to typeset German, it is in many ways ambiguous due to its terminological tradition in `babel` (as well as in other packages such as `german.sty`) and due to the fact that there are multiple parallel standards (see sec.4). So it is always advisable to use a more precise option such as `german-de`.

Also, unless `glottonyms=contemporary` or `glottonyms=auto` is set (see section 4), `german` will still load pre-reform (pre-1996) and legacy hyphenation patterns (this will change as of `babel-german v. 3.0`), `ngerman` also uses the legacy hyphenation patterns by default. The options recommended above, by contrast, use the newer and better ‘experimental’ patterns (see sec. 5).

3.3 Swiss Standard German

Swiss Standard German refers to the norms current in Switzerland and Liechtenstein. The available choices are:

New feature
in v. 2.99!

- `german-ch` or `german-switzerland` if you want contemporary (post-1996) patterns
- `german-ch-1901` or `german-switzerland-1901` if you want pre-reform (pre-1996) patterns

New feature
in v. 2.10!

Swiss Standard German (both pre-and post-1996) provides an additional feature that is enabled via the language variety option (`\germansetup` or babel modifier) `toss`:

- `toss`: the shorthands "s and "z will expand to `<ss>` rather than `<ß>` (see sec. 7.2 for details).

The received options `swissgerman` and `nswissgerman` still work (also with the `toss` option), but you are discouraged to use them unless you share your document with co-authors who have an older version of `babel-german` installed, or if you use a package that does not (yet) understand the new options. Also note that `nswissgerman` uses the legacy hyphenation patterns by default, whereas the recommended options use the newer and better ‘experimental’ patterns (see sec. 5).

4 Configuring the Meaning of `german`

New feature
in v. 2.99!

In section 2, we have elaborated on the intricate situation with how pre- and post-1996 spelling variants have been traditionally named in `babel-german`. Meanwhile, `babel-german` has introduced more appropriate names, but still the situation with the ambiguity of `german` is challenging.⁷

Since German is a pluricentric language (cf. [3]), a label such as `german` is of course inherently ambiguous (does it mean Austrian, German, or Swiss Standard German? The answer arguably depends on where you are located⁸). Hence, it is better to use less ambiguous terms such as `german-de` or `german-germany`.

Having said this, we understand that an option `german` which produces sensible results is expected in the context of `babel` and its (often rather awkward) language option terminology. And in this context, the traditional meaning of `german` (referring to the pre-1996 German Standard German) obviously causes irritation. Whichever national variety of German `babel` users might expect when using `german`, they most probably would expect *contemporary* standards – at least if they are not already familiar with the received `babel-german` terminology.

In order to mitigate this for users who employ the `german` option rather than the more precise alternatives, and considering both novice and experienced users of `babel-german`, an option `glottonyms` is provided (*glottonym* means ‘language name’). It has to be set via `\germansetup` and offers the following choices:

- `glottonyms=legacy`: `german` always enables pre-1996 spelling, as it has been traditionally the case in `babel-german`. It also uses the legacy hyphenation patterns. Use this if you need to maintain 100 % backwards compatibility. This is also the current default.
- `glottonyms=contemporary`: `german` always enables post-1996 spelling, which breaks with traditional package conventions and might break documents that use those. It also uses the ‘experimental’ hyphenation patterns by default. Use with care!
- `glottonyms=auto`: `german` *as a rule* enables post-1996 spelling (and newer hyphenation patterns). However, as soon as `ngerman`, `naustrian` or `nswissgerman` are also used in the same document, we assume that `german` is supposed to refer to the pre-1996 variant instead and hence make `german` enable pre-1996 German Standard

⁷Arguable, this also applies to `austrian` and `swissgerman`, but these names are discouraged anyway and will not change semantics.

⁸On a more global scale, it arguably also depends on politics and historical hegemonies. Which variety of a generic language name assumes as default is neither depending on the ‘origin’ of the language or whether the language name is associated with the name of a country (cf. `english` which assumes American, not British Standard English, as default), nor the number of speakers (cf. `spanish` which assumes Standard Spanish in Spain, not in Mexico, as default, or `portuges` [sic!] which assumes Standard Portuguese in Portugal, not in Brazil). Yet it is also not by coincidence. The selection of a default (and this also accounts for norm authorities such as the ISO or the IETF) is mainly, and inherently, political, ideological, and power-driven, notwithstanding the involved actors often stating that it is not.

German (and legacy patterns). This should handle gracefully most contemporary uses of `german`, although it will break documents using only `german` with the traditional meaning (for which you should use `glottonyms=legacy`). This choice will be the new default as of `babel-german v. 3.0`.

Note, however, that the semantics is only changed here for `babel-german` itself. If you use a third-party package which relies on the legacy semantics, you need to stick with this and report to the maintainer of that package.

5 Hyphenation Patterns

For German, different hyphenation patterns are available. Which of these a given document employs does not only depend on the varieties it uses, but also on the \TeX engine and on the language options you employ. For most varieties and options, there are multiple options to select from. This is elaborated in what follows.

Hyphenation patterns for pre- and post-1996 German orthography have been available with \TeX distributions for a long time (currently, these are shipped in form of the `dehyph` [= traditional] and `dehyphn` [= new] files). These established patterns, however, have many flaws: they are hard to maintain and improve since the sources are not available and not much is known about their construction, since they do not work well with loans, some compounds, and technical terms and often do not hyphenate where they could, and – most gravely – since they might produce wrong hyphenations (e.g., *Mordopfer* instead of *Mord-opfer*). The patterns for post-1996 orthography are even worse: they have only been *manually* adapted to the new rules and intended to be just some intermediate solution right from the start (cf. [11]).

Therefore, a group of experienced germanophone \LaTeX users (including the author of the legacy `dehyphn` patterns) took on the challenge and developed completely new patterns that do much better, the so-called ‘experimental’ new hyphenation patterns of German, distributed in the `dehyph-exptl` package [6]. As opposed to the established patterns, the new ones undergo constant improvement. The price for this is that hyphenation and thus the typeset document is subject to change with, and only due to, pattern updates. However, the new patterns are around and used since 2008, they have largely stabilized and are really no longer ‘experimental’.

Modern engines (i. e., `xetex` and `luatex`) who require utf8-encoded patterns have already embraced those new patterns long ago, i. e., they are activated on these engines by default (cf. [10]). The classic \TeX engines (`tex/pdf` \TeX) have been more reluctant and continue to use the old patterns by default. The reason for this are the \TeX quality standards already mentioned in sec. 2.1: refrain, if ever possible, from changing the output of user’s documents in the wake of software updates. However, even there, there was an exception: with pre-1996 Swiss Standard German, the classic engines use the ‘experimental’ patterns by default since when Swiss German was introduced, the ‘experimental’ patterns have already been available.

In `babel-german`, we take the introduction of the new language options in v. 2.99 as an opportunity to default to the latest ‘experimental’ patterns with these options. For `german`, with `glottonyms=legacy` or `glottonyms=auto` and the use of an `n`-option (i. e., if it refers to pre-1996 orthography), the established (legacy) patterns will continue to be used. With the newer meaning (`glottonyms=contemporary` or `glottonyms=auto` without the use of an `n`-option), `babel-german` also defaults to the latest ‘experimental’ patterns. The other legacy options (`austrian`, `naustrian`, `ngerman`, and `nswissgerman`) will continue

to default to the established (legacy) patterns. This way, we assure existing documents will not change their hyphenation behind your back.

In all these cases (except for pre-1996 Swiss Standard German where no ‘legacy’ patterns exist), however, you can opt-in to a different setting. If you want to use the experimental patterns also with the legacy language options, use

```
\germansetup{hyphenrules=latest}
```

in the document preamble after `babel` has been loaded. This will activate the experimental hyphenation patterns in their most recent version for all used varieties of German. Reversely,

```
\germansetup{hyphenrules=legacy}
```

will switch to the established patterns for all used varieties of German.

The `dehyph-exptl` package also allows to load patterns of a given (fixed) date instead of the latest ones, e.g. `2024-02-28`. Therewith, you can prevent future changes in hyphenation due to package updates. The feature is also supported by `babel-german`: Simply pass the date to `hyphenrules` (e.g., `hyphenrules=2024-02-28`). Of course, you need to assure patterns of this date exist in your tree. Cf. [6] for details, also for ways to set specific patterns to specific varieties of German only.

6 Shorthands and Convenience Macros

For all varieties of German, the character " is made active in order to provide some shorthand macros.

Some of these shorthands address peculiarities of pre-1996 German spelling with which you do not need to bother if you adhere to contemporary orthography:

1. the so-called *Dreikonsonanten-Regel* (‘three consonant rule’) which required specific handling of specific compounds in hyphenation⁹, and
2. the hyphenation of the digraph¹⁰ ⟨ck⟩ as ⟨k-k⟩ (e.g., *Bäcker*, *Bäk-ker*), which has been dropped with the reform in favor of shifting the whole digraph to the next line (*Bä-cker*).

Other shorthands are provided for frequently used special characters as well as for better control of hyphenation, line breaks, and ligatures, and are useful for all varieties of German.

Table 1 provides an overview of the shorthands that are provided by `babel-german` for all its variants. Table 2 lists some `babel` macros for quotation marks that might be used as an alternative to the quotation mark shorthands listed above.

⁹ The three consonant rule (cf. [4, R 204]) prescribed that one of three identical consonants had to be omitted if a vowel followed the three consonants (i.e., you wrote *Schiffahrt*, not *Schiffahrt*, *schnellebig*, not *schnellebig*, *wettturnen*, not *wettturnen*). If the word was hyphenated at this position, however, the third consonant needed to reappear (*Schiff-fahrt*, *schnell-lebig*, *wett-turnen*); the shorthands "f, "l, "t etc. account for that. With the 1996 reform, the rule has been taken out of force (cf. [5, R 136]). Now, all consonants are always written (some lexicalized exceptions are *dennoch* and *Mittag*, but these get no additional consonant on hyphenation either: *den-noch*, *Mit-tag*). Note also that ⟨s⟩ (as in *Kongressaal*, if ⟨ss⟩ is used as an alternative to ⟨ß⟩ or in Swiss writing) has always been excluded from this rule (cf. [4, R 204]), which is why no shorthand for that case is needed.

¹⁰ In 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).

Table 1: Shorthands provided by babel-german

"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. 7.2 for specifics with Swiss Standard German.
"z	German ⟨ß⟩ (shorthand for \ss). The difference to "s is the uppercase version; again, cf. sec. 7.2 for specifics with Swiss Standard German.
"ck	⟨ck⟩, hyphenated as ⟨k-k⟩ in pre-1996 variants. Behaves like ordinary <i>ck</i> in post-1996.
"ff	⟨ff⟩, hyphenated as ⟨ff-f⟩ in pre-1996 variants; outputs ⟨fff⟩ in post-1996 variants; this is also implemented for ⟨l⟩, ⟨m⟩, ⟨n⟩, ⟨p⟩, ⟨r⟩ and ⟨t⟩. Please refer to footnote 9 for why this does not include ⟨s⟩.
"S	\uppercase{"s}, typeset as ⟨SS⟩ – ⟨ß⟩ is traditionally written as ⟨SS⟩ (or, in 1901 spelling, also optionally ⟨SZ⟩, see below) in uppercase writing; cf. sec. 7.1 if you prefer a capital eszett.
"Z	\uppercase{"z}, typeset as ⟨SZ⟩. In 1901 spelling, ⟨ß⟩ could also be written as ⟨SZ⟩ instead of ⟨SS⟩ in uppercase writing. Note that, with reformed orthography, the ⟨SZ⟩ variant has been deprecated in favour of ⟨SS⟩ only.
"	Disable ligature at this position (e. g., at morpheme boundaries, as in Auf" l age).
"-	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.
New feature in v. 2.14!	"* An asterisk which assures the word can still be hyphenated at its defined breakpoints. Useful if you want to employ gender-sensitive writing ('gender star'). Similar shorthands are available for the alternative gender-sensitive spellings, " : and "...
New feature in v. 2.14!	"x Inserts a gender mark which assures the word can still be hyphenated at its defined breakpoints. This is predefined to * but can be globally redefined by redefining the macro \def\mkgender{*}.
"‘	German left double quotes ⟨„⟩.
"’	German right double quotes ⟨”⟩.
"<	French/Swiss left double quotes ⟨«⟩.
">	French/Swiss right double quotes ⟨»⟩.

7 Variety-Specific Options

7.1 Capital Eszett Letter

New feature
in v. 2.14!

In 2008, a capital variant of the letter ⟨ß⟩ has been included to the Unicode standard (U+1E9E), and in 2017, the capital eszett letter has been acknowledged in German orthography as a valid alternative to ⟨SS⟩ in uppercase writing of ⟨ß⟩. The letter differs from its miniscule counterpart in that it is usually wider to match the form of uppercase letters.

If you want to use this letter, you can do so by using the variety option `capsz`, which is supported for the contemporary (post-1996) Austrian (cf. sec. 3.1) and German (cf.

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

<code>\glqq</code>	German left double quotes $\langle \text{„} \rangle$.
<code>\grqq</code>	German right double quotes $\langle \text{“} \rangle$.
<code>\glq</code>	German left single quotes $\langle \text{‚} \rangle$.
<code>\grq</code>	German right single quotes $\langle \text{‘} \rangle$.
<code>\flqq</code>	French/Swiss left double quotes $\langle \text{«} \rangle$.
<code>\frqq</code>	French/Swiss right double quotes $\langle \text{»} \rangle$.
<code>\flq</code>	French/Swiss left single quotes $\langle \text{‹} \rangle$.
<code>\frq</code>	French/Swiss right single quotes $\langle \text{›} \rangle$.
<code>\dq</code>	The straight quotation mark character $\langle \text{"} \rangle$.

sec. 3.2) varieties. If you pass the option to `germansetup`, i. e.,

```
\germansetup{capsz}
```

it will apply to both those varieties. If you want a more granular setting, use a babel modifier instead (see sec. 3). As the eszett letter is not common in Swiss German writing in general, the option is not supported there. Similarly, the pre-1996 varieties do not support the letter either.

The option causes both `\MakeUppercase` and the "S shorthand (but not "Z) to use the capital eszett letter. Note that this requires a font which actually contains the glyph (otherwise, you still get (SS)) and \LaTeX kernel 2023/06 at least.

New feature
in v. 2.15!

Note that you can also set the casing via `\babelprovide[casing=eszett]{<lang>}`. This is adhered to. If you want to disable such a global setting, you can do so by means of the `\germansetup` option `capsz=false` or babel modifier `nocapsz`.

7.2 Handling of "s and "z in Swiss German

New feature
in v. 2.10!

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

For this special case, we provide an option to make the $\langle \text{ß} \rangle$ -related shorthands "s and "z expand to the respective digraphs¹¹ $\langle \text{ss} \rangle$ and $\langle \text{sz} \rangle$ rather than to $\langle \text{ß} \rangle$. This is not the default behavior with `german-ch` and `german-ch-1901` since, as mentioned, there are situations when the $\langle \text{ß} \rangle$ is (and has to be) used in Swiss writing, and normally, no shorthand is needed to input (or output) two simple $\langle \text{s} \rangle$ characters. You can opt-in (and out) digraphical expansion of "s and "z on a global and local level:

¹¹See footnote 10 for what this means.

- To globally switch on the digraphical expansion, use the `\germansetup` option or the babel modifier `toss` (read: ‘to $\langle ss \rangle$ ’) with `german-ch`, `german-ch-1901` or its aliases (see sec. 3). The former will apply to all Swiss German varieties, the latter only to the language option that is being modified.
- 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.

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

```
"s  expands to digraph  $\langle ss \rangle$ 
"z  expands to digraph  $\langle sz \rangle$ 
```

One further note related to the use of $\langle s \rangle$ in pre-1996 Swiss Standard German. As opposed to other consonantal letters, the $\langle s \rangle$ is excluded from the three consonant rule (*Dreikonsonantenregel*) of traditional (i. e., 1901) German spelling (cf. footnote 9). This is why we don’t provide a shorthand for the $\langle sss \rangle$ case.

8 Captions, Extras, and Dates

The caption strings (such as “figure”) are defined in the macros `\caption<language>`, where `<language>` resolves to the current language option. With the new names, however, captions macros of traditional names are still defined and inherited. So redefining `\captionngerman` and `\captionsgerman-de` will have the same effect with the option `german-de`. Vice versa, however, redefining `\captionsgerman-de` will *not* have any effect if the alias `german-germany` is used. The same applies to `\extr<language>` and `\noextr<language>` which hold extra language settings.

Packages that want to change captions of all German varieties at once might append code to the internal macros `\@captionsgerman` (that is inherited by all varieties) or `\@captionsgerman@at` and `\@captionsgerman@ch` (for the Austrian and Swiss varieties, respectively). For extras and noextras, append to the internal macros `\@extrasgerman` and `\@noextrasgerman` that are inherited by all varieties.

For date redefinitions, packages should redefine the internal macros `\date@german@at`, `\date@german@ch`, and `\date@german@de` that hold the definitions for the respective regions and are being inherited in the respective varieties.

9 Implementation

9.1 General Settings

The file `babel-german.def` holds the common code for all varieties of German. In this file, which is inputted by all `*.ldf` files of `babel-german`, the main work is done.

We define some helper macros that help us to identify later on whether we use an option that conforms with the internal language naming.

```
1 \def\bbl@opt@german{german}
2 \def\bbl@opt@swissgerman{swissgerman}
3 \def\bbl@opt@ngerman{ngerman}
```

Also, we define helpers to identify the region

```
4 \def\bbl@german@region@at{AT}
5 \def\bbl@german@region@ch{CH}
```

```

6 \def\bbl@german@region@de{DE}
... and legacy hyphenation patterns:
7 \def\bbl@german@legacy@patterns{legacy}

```

\ifbbl@german@newterms We provide (key-val) variety options. To this end, we first define some booleans and
 \ifbbl@german@maybe@newterms macros to store the settings.

```

\tosstrue 8 \newif\ifbbl@german@newterms
\tossfalse 9 \bbl@german@newtermsfalse
\capsztrue 10 \newif\ifbbl@german@maybe@newterms
\capszfalse 11 \bbl@german@maybe@newtermsfalse
\@bbl@german@at@capsztrue 12 \newif\iftoss
\@bbl@german@at@capszfalse 13 \tossfalse
\@bbl@german@ge@capsztrue 14 \newif\ifcapsz
\@bbl@german@ge@capszfalse 15 \capszfalse
\bbl@german@patterns@oldterms 16 \newif\if@bbl@german@at@capsz
\bbl@german@patterns@newterms 17 \@bbl@german@at@capszfalse
18 \newif\if@bbl@german@ge@capsz
19 \@bbl@german@ge@capszfalse
20 \providecommand*\bbl@german@patterns@oldterms{legacy}
21 \providecommand*\bbl@german@patterns@newterms{latest}

```

Now, the actual option definitions that set the booleans and macros:

```

22 \ExplSyntaxOn
23 \DeclareKeys[bblgerman]
24 {
25   % glottonyms=<legacy|contemporary|auto>
26   glottonyms.choice:,
27   % a. legacy
28   glottonyms / legacy.code:n =
29     { \bbl@german@newtermsfalse
30       \bbl@german@maybe@newtermsfalse },
31   % b. contemporary
32   glottonyms / contemporary.code:n =
33     { \bbl@german@newtermstrue
34       \bbl@german@maybe@newtermsfalse },
35   % c. auto
36   glottonyms / auto.code:n =
37     { \bbl@german@newtermsfalse
38       \bbl@german@maybe@newtermstrue },
39   glottonyms.default:n = { auto },
40   % toss={true|false}
41   toss.legacy_if_set:n = toss,
42   % capsz={true|false}
43   capsz.code:n =
44     {
45       \str_if_eq:nnTF { #1 } { true }
46       {
47         \capsztrue
48         \@bbl@german@at@capsztrue
49         \@bbl@german@ge@capsztrue
50       }{
51         \capszfalse
52         \@bbl@german@at@capszfalse

```

```

53         \@bbl@german@ge@capszfalse
54     }
55 },
56 capsz.default:n = { true },
57 % hyphenrules={version}
58 hyphenrules.code:n =
59 {
60     \def\bbl@german@patterns@oldterms{#1}
61     \def\bbl@german@patterns@newterms{#1}
62     \def\bbl@german@xptl@patterns{}
63 },
64 }
65 \ExplSyntaxOff

```

`\germansetup` Provide a command to set macros. Assure it can only be used in preamble.

```

66 \providecommand*{\germansetup}[1]{%
67   \SetKeys[bbl@german]{#1}%
68 }
69 \@onlypreamble\germansetup

```

We check for the existence of the required hyphenation patterns, issue a warning (and fall back to the null language) if it is unknown. If required we set `\l@<langoption>` as a ‘dialect’ of the hyphenation language.

`\l@tgerman` Since `\l@german` is ambiguous depending on the setting of `glottonyms`, we define `\l@tgerman` which always represents 1901 patterns:

```

70 \ifx\l@tgerman\@undefined
71   \ifx\l@german\@undefined\else
72     \let\l@tgerman\l@german
73   \fi
74 \fi

```

Now, as this has been set, handle the `glottonyms` option if we are within `german`:

```

75 \ifx\CurrentOption\bbl@opt@german
76   \AddToHook{begindocument/before}{%

```

First, if we have `glottonyms=auto`, check whether we have an `n`-variety that forces legacy semantics:

```

77   \ifbbl@german@maybe@newterms
78     \@ifundefined{bbl@german@force@legacy}{%
79       \bbl@german@newtermstrue
80       \PackageInfo{babel-german}{Using legacy glottonyms\MessageBreak
81         ‘german’ denotes pre-1996 spelling.}%
82     }{%
83       \PackageInfo{babel-german}{Using contemporary glottonyms\MessageBreak
84         ‘german’ denotes post-1996 spelling.}%
85     }%
86   \fi

```

We know now if `german` means 1901 or 1996, so set the hyphenation patterns if needed. Here, we also consider the `hyphenrules` option for `german`. The following is either `glottonyms=contemporary` or `glottonyms=auto` without `n`-variety:

```

87   \ifbbl@german@newterms

```

If we do not find legacy ngerman patterns, warn and fall back to null language:

```
88     \ifx\l@ngerman\undefined
89         \nopatterns{German (current orthography),
90             falling back to 1901 orthography!}%
91     \else
```

If hyphenrules have not been set, use ngerman:

```
92     \ifx\bbl@german@patterns@newterms\bbl@german@legacy@patterns
93         \adddialect\l@german\l@ngerman
```

otherwise, use what is requested:

```
94     \else
95         \expandafter\adddialect\csname l@german\expandafter
96             \endcsname\csname l@ngerman-x-\bbl@german@patterns@newterms\endcsname
97     \fi
```

and record that we use german in the modern sense:

```
98     \addto\extrasgerman{\bbl@german@tradspellingfalse}%
99     \fi
100    \else
```

The following is either glottonyms=legacy or glottonyms=auto with n-variety. Here, we only set patterns if requested via hyphenrules:

```
101     \ifx\bbl@german@patterns@oldterms\bbl@german@legacy@patterns\else
102         \expandafter\adddialect\csname l@german\expandafter
103             \endcsname\csname l@german-x-\bbl@german@patterns@oldterms\endcsname
104     \fi
105     \fi
106 }
107 \fi
```

For the following, we need to temporarily give the hyphen ‘letter’ catcode as our options might consist of hyphens:

```
108 \edef\bbl@german@save@hyphen@catcode{\the\catcode'\-}
109 \catcode'\- =11
```

We begin with region DE, first 1901 spelling:

```
110 \ifx\bbl@german@region\bbl@german@region@de
111     \ifbbl@german@tradspelling
112         \ifx\l@tgerman\undefined
113             \nopatterns{German (1901 orthography)}
114             \adddialect\l@german0
115             \adddialect\l@tgerman0
116         \fi
117     \ifx\CurrentOption\bbl@opt@german\else
118         \expandafter\adddialect\csname l@\CurrentOption\endcsname\l@tgerman
119     \fi
```

Then DE-1996:

```
120 \else% 1996 spelling
121     \ifx\l@ngerman\undefined
122         \nopatterns{German (current orthography)}
123         \adddialect\l@ngerman0
124     \fi
125     \ifx\CurrentOption\bbl@opt@ngerman\else
126         \expandafter\adddialect\csname l@\CurrentOption\endcsname\l@ngerman
```

```

127 \fi
128 \fi
129 \fi

```

For AT-1901, we set <langopt> as a dialect of german, since the Austrian variety uses the same hyphenation patterns as Germany's Standard German (both in pre- and post-1996 spelling).

If no German patterns are found, we issue a warning and fall back to null language.

```

130 \ifx\bbl@german@region\bbl@german@region@at
131 \ifbbl@german@tradspelling
132 \ifx\l@tgerman\@undefined
133 \nopatterns{German (1901 orthography), needed by Austrian (1901 orthography)}
134 \expandafter\adddialect\csname l@\CurrentOption\endcsname@
135 \else
136 \expandafter\adddialect\csname l@\CurrentOption\endcsname\l@tgerman
137 \fi

```

Same for AT-1996, but as a dialect of ngerman:

```

138 \else% 1996 spelling
139 \ifx\l@ngerman\@undefined
140 \nopatterns{German (current orthography), needed by Austrian (current orthography)}
141 \expandafter\adddialect\csname l@\CurrentOption\endcsname@
142 \else
143 \expandafter\adddialect\csname l@\CurrentOption\endcsname\l@ngerman
144 \fi
145 \fi
146 \fi

```

For the pre-1996 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 and go for null language.

```

147 \ifx\bbl@german@region\bbl@german@region@ch
148 \ifbbl@german@tradspelling
149 \ifx\l@swissgerman\@undefined
150 \ifx\l@tgerman\@undefined
151 \nopatterns{Swiss Standard German (1901 orthography) and German (1901 orthography)}
152 \expandafter\adddialect\csname l@\CurrentOption\endcsname@
153 \else
154 \nopatterns{Swiss Standard German (1901 orthography),
155 falling back to German (1901 orthography)}
156 \expandafter\adddialect\csname l@\CurrentOption\endcsname\l@tgerman
157 \fi
158 \else
159 \ifx\CurrentOption\bbl@opt@swissgerman\else
160 \expandafter\adddialect\csname l@\CurrentOption\endcsname\l@swissgerman
161 \fi
162 \fi

```

Post-1996 Swiss German uses ngerman hyphenation patterns, so try those:

```

163 \else% 1996 spelling
164 \ifx\l@ngerman\@undefined
165 \nopatterns{German (current orthography),
166 needed by Swiss Standard German (current orthography)}
167 \expandafter\adddialect\csname l@\CurrentOption\endcsname@

```

```

168 \else
169 \expandafter\adddialect\csname l@CurrentOption\endcsname\l@ngerman
170 \fi
171 \fi
172 \fi

```

Reset hyphen catcode:

```
173 \catcode'\-=\bbl@german@save@hyphen@catcode
```

With the option `hyphenrules`, we load experimental hyphenation patterns (package `dehyph-exptl`). The following passes the respective code for a given variety to a hook that is being executed at document begin (when we know the setting of `hyphenrules`). We do not handle german here, as this is already done in the code that also considers `glottonyms`. Also, 1901 Swiss German already uses `exptl` patterns, so we ignore this:

```
174 \ActivateGenericHook{babel/german/patterns}
```

First 1901 variants:

```

175 \ifbbl@german@tradspelling
176 \ifx\bbl@german@region\bbl@german@region@ch\else
177 \def\tmpa{austrian}
178 \ifx\CurrentOption\tmpa
179 \AddToHook{babel/german/patterns}{%
180 \ifx\bbl@german@patterns@oldterms\bbl@german@legacy@patterns\else
181 \expandafter\adddialect\csname l@austrian\expandafter
182 \endcsname\csname l@german-x-\bbl@german@patterns@oldterms\endcsname\fi}
183 \fi
184 \def\tmpa{german-at-1901}
185 \ifx\CurrentOption\tmpa
186 \AddToHook{babel/german/patterns}{%
187 \ifx\bbl@german@patterns@newterms\bbl@german@legacy@patterns\else
188 \expandafter\adddialect\csname l@german-at-1901\expandafter
189 \endcsname\csname l@german-x-\bbl@german@patterns@newterms\endcsname\fi}
190 \fi
191 \def\tmpa{german-austria-1901}
192 \ifx\CurrentOption\tmpa
193 \AddToHook{babel/german/patterns}{%
194 \ifx\bbl@german@patterns@newterms\bbl@german@legacy@patterns\else
195 \expandafter\adddialect\csname l@german-austria-1901\expandafter
196 \endcsname\csname l@german-x-\bbl@german@patterns@newterms\endcsname\fi}
197 \fi
198 \def\tmpa{german-de-1901}
199 \ifx\CurrentOption\tmpa
200 \AddToHook{babel/german/patterns}{%
201 \ifx\bbl@german@patterns@newterms\bbl@german@legacy@patterns\else
202 \expandafter\adddialect\csname l@german-de-1901\expandafter
203 \endcsname\csname l@german-x-\bbl@german@patterns@newterms\endcsname\fi}
204 \fi
205 \def\tmpa{german-germany-1901}
206 \ifx\CurrentOption\tmpa
207 \AddToHook{babel/german/patterns}{%
208 \ifx\bbl@german@patterns@newterms\bbl@german@legacy@patterns\else
209 \expandafter\adddialect\csname l@german-germany-1901\expandafter
210 \endcsname\csname l@german-x-\bbl@german@patterns@newterms\endcsname\fi}
211 \fi
212 \fi

```



```

213 \else
    Then 1996 variants:
214 \ifx\CurrentOption\bbl@opt@ngerman
215 \AddToHook{babel/german/patterns}{%
216 \ifx\bbl@german@patterns@oldterms\bbl@german@legacy@patterns\else
217 \expandafter\adddialect\csname l@ngerman\expandafter
218 \endcsname\csname l@ngerman-x-\bbl@german@patterns@oldterms\endcsname\fi}
219 \fi
220 \def\tmpa{german-at}
221 \ifx\CurrentOption\tmpa
222 \AddToHook{babel/german/patterns}{%
223 \ifx\bbl@german@patterns@newterms\bbl@german@legacy@patterns\else
224 \expandafter\adddialect\csname l@german-at\expandafter
225 \endcsname\csname l@ngerman-x-\bbl@german@patterns@newterms\endcsname\fi}
226 \fi
227 \def\tmpa{naustrian}
228 \ifx\CurrentOption\tmpa
229 \AddToHook{babel/german/patterns}{%
230 \ifx\bbl@german@patterns@oldterms\bbl@german@legacy@patterns\else
231 \expandafter\adddialect\csname l@naustrian\expandafter
232 \endcsname\csname l@ngerman-x-\bbl@german@patterns@oldterms\endcsname\fi}
233 \fi
234 \def\tmpa{german-austria}
235 \ifx\CurrentOption\tmpa
236 \AddToHook{babel/german/patterns}{%
237 \ifx\bbl@german@patterns@newterms\bbl@german@legacy@patterns\else
238 \expandafter\adddialect\csname l@german-austria\expandafter
239 \endcsname\csname l@ngerman-x-\bbl@german@patterns@newterms\endcsname\fi}
240 \fi
241 \def\tmpa{german-ch}
242 \ifx\CurrentOption\tmpa
243 \AddToHook{babel/german/patterns}{%
244 \ifx\bbl@german@patterns@newterms\bbl@german@legacy@patterns\else
245 \expandafter\adddialect\csname l@german-ch\expandafter
246 \endcsname\csname l@ngerman-x-\bbl@german@patterns@newterms\endcsname\fi}
247 \fi
248 \def\tmpa{german-switzerland}
249 \ifx\CurrentOption\tmpa
250 \AddToHook{babel/german/patterns}{%
251 \ifx\bbl@german@patterns@newterms\bbl@german@legacy@patterns\else
252 \expandafter\adddialect\csname l@german-switzerland\expandafter
253 \endcsname\csname l@ngerman-x-\bbl@german@patterns@newterms\endcsname\fi}
254 \fi
255 \def\tmpa{german-de}
256 \ifx\CurrentOption\tmpa
257 \AddToHook{babel/german/patterns}{%
258 \ifx\bbl@german@patterns@newterms\bbl@german@legacy@patterns\else
259 \expandafter\adddialect\csname l@german-de\expandafter
260 \endcsname\csname l@ngerman-x-\bbl@german@patterns@newterms\endcsname\fi}
261 \fi
262 \def\tmpa{german-germany}
263 \ifx\CurrentOption\tmpa
264 \AddToHook{babel/german/patterns}{%
265 \ifx\bbl@german@patterns@newterms\bbl@german@legacy@patterns\else

```

```

266         \expandafter\adddialect\csname l@german-germany\expandafter
267         \endcsname\csname l@ngerman-x-\bbl@german@patterns@newterms\endcsname\fi}
268     \fi
269     \def\tmpa{nswissgerman}
270     \ifx\CurrentOption\tmpa
271         \AddToHook{babel/german/patterns}{%
272         \ifx\bbl@german@patterns@oldterms\bbl@german@legacy@patterns\else
273         \expandafter\adddialect\csname l@nswissgerman\expandafter
274         \endcsname\csname l@ngerman-x-\bbl@german@patterns@oldterms\endcsname\fi}
275     \fi
276 \fi

Execute the hook (once) before document begin if hyphenrules are requested:
277 \AddToHook{begindocument/before}{%
278     \ifdefined\bbl@german@xptl@patterns
279         \UseOneTimeHook{babel/german/patterns}%
280     \fi
281 }

```

9.2 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 \LaTeX for German. This is an internal macro that is inherited and modified by the following macros for the respective language varieties.

```

282 \@namedef{@captionsgerman}{%
283     \def\prefacename{Vorwort}%
284     \def\refname{Literatur}%
285     \def\abstractname{Zusammenfassung}%
286     \def\bibName{Literaturverzeichnis}%
287     \def\chaptername{Kapitel}%
288     \def\appendixname{Anhang}%
289     \def\contentsname{Inhaltsverzeichnis}%
290     \def\listfigurename{Abbildungsverzeichnis}%
291     \def\listtablename{Tabellenverzeichnis}%
292     \def\indexname{Index}%
293     \def\figurename{Abbildung}%
294     \def\tablename{Tabelle}%
295     \def\partname{Teil}%
296     \def\enclname{Anlage(n)}%
297     \def\ccname{Verteiler}%
298     \def\headtoname{An}%
299     \def\pagename{Seite}%
300     \def\seename{siehe}%
301     \def\alsoname{siehe auch}%
302     \def\proofname{Beweis}%
303     \def\glossaryname{Glossar}%
304 }

```

`\@captionsgerman@at` The macro `\@captionsgerman@at` is another internal macro that redefines the variants common in AT.

```

305 \@namedef{@captionsgerman@at}{%

```

```

306 \@nameuse{@captionsgerman}%
307 \def\enclname{Beilage(n)}%
308 }

```

`\@captionsgerman@ch` The macro `\@captionsgerman@ch` is yet another internal macro that redefines the variants common in CH (currently identical to AT).

```

309 \@namedef{@captionsgerman@ch}{%
310 \@nameuse{@captionsgerman}%
311 \def\enclname{Beilage(n)}%
312 }

```

`\captionsgerman` The macro `\captionsgerman` is identical to `\@captionsgerman`, but only defined if `german`, `german-de-1901` or `german-germany-1901` are requested.

```

313 \ifx\CurrentOption\bbl@opt@german
314 \namedef{captionsgerman}{%
315 \@nameuse{@captionsgerman}%
316 }

```

`\captionsgerman-de-1901` For `german-de-1901` and `german-germany-1901`, we define both `\captionsgerman` and `\captionsgerman-germany-1901` `\captionsgerman-de-1901` or `\captionsgerman-germany-1901`, respectively, which import the former.

```

317 \else
318 \ifx\bbl@german@region\bbl@german@region@de
319 \ifbbl@german@tradspelling
320 \namedef{captionsgerman}{%
321 \@nameuse{@captionsgerman}%
322 }
323 \namedef{captions\CurrentOption}{%
324 \@nameuse{captionsgerman}%
325 }
326 \fi
327 \fi
328 \fi

```

`\captionsngerman` The macro `\captionsngerman` is identical to `\@captionsgerman`, but only defined if `ngerman`, `german-de` or `german-germany` is requested.

```

329 \ifx\CurrentOption\bbl@opt@ngerman
330 \namedef{captionsngerman}{%
331 \@nameuse{@captionsgerman}%
332 }

```

`\captionsgerman-de` For `german-de` and `german-germany`, we define both `\captionsngerman` and `\captionsgerman-de` or `\captionsgerman-germany`, respectively, which import the former.

```

333 \else
334 \ifx\bbl@german@region\bbl@german@region@de
335 \ifbbl@german@tradspelling\else
336 \namedef{captionsngerman}{%
337 \@nameuse{@captionsgerman}%
338 }
339 \namedef{captions\CurrentOption}{%
340 \@nameuse{captionsngerman}%
341 }
342 \fi

```

```
343 \fi
344 \fi
```

`\captionsaustrian` The Austrian `\caption*s` build on `\@captionsgerman`, but redefine some strings following
`\captionснаustrian` Austrian conventions (for the respective variants, cf. [1]). They are only defined if an
`\captionsgerman-at-1901` Austrian variety is requested.

```
\captionsgerman-at
\captionsgerman-austria-1901
\captionsgerman-austria
345 \ifx\bbl@german@region\bbl@german@region@at
346 \ifbbl@german@tradspeiling
347 \def\bbl@tmpa{austrian}
348 \ifx\CurrentOption\bbl@tmpa
349 \@namedef{captions\CurrentOption}{%
350 \@nameuse{@captionsgerman@at}%
351 }
352 \else
353 \@namedef{captionsaustrian}{%
354 \@nameuse{@captionsgerman@at}%
355 }
356 \@namedef{captions\CurrentOption}{%
357 \@nameuse{captionsaustrian}%
358 }
359 \fi
360 \else
361 \def\bbl@tmpa{naustrian}
362 \ifx\CurrentOption\bbl@tmpa
363 \@namedef{captions\CurrentOption}{%
364 \@nameuse{@captionsgerman@at}%
365 }
366 \else
367 \@namedef{captionsnaustrian}{%
368 \@nameuse{@captionsgerman@at}%
369 }
370 \@namedef{captions\CurrentOption}{%
371 \@nameuse{captionsnaustrian}%
372 }
373 \fi
374 \fi
375 \fi
```

`\captionsswissgerman` The Swiss `\caption*s` build on `\@captionsgerman`, but redefine some strings following
`\captionsnswissgerman` Swiss conventions (for the respective variants, cf. [1]). They are only defined if a Swiss
`\captionsgerman-ch-1901` German variety is requested.

```
\captionsgerman-ch
\captionsgerman-switzerland-1901
\captionsgerman-switzerland
376 \ifx\bbl@german@region\bbl@german@region@ch
377 \ifbbl@german@tradspeiling
378 \ifx\CurrentOption\bbl@opt@swissgeman
379 \@namedef{captions\CurrentOption}{%
380 \@nameuse{@captionsgerman@ch}%
381 }
382 \else
383 \@namedef{captionsswissgeman}{%
384 \@nameuse{@captionsgerman@ch}%
385 }
386 \@namedef{captions\CurrentOption}{%
387 \@nameuse{captionsswissgeman}%
388 }
```

```

389   \fi
390   \else
391     \def\bbl@tmpa{nswissgeman}
392     \ifx\CurrentOption\bbl@tmpa
393       \@namedef{captions\CurrentOption}{%
394         \@nameuse{@captionsgerman@ch}%
395       }
396     \else
397       \@namedef{captionsnswissgeman}{%
398         \@nameuse{@captionsgerman@ch}%
399       }
400     \@namedef{captions\CurrentOption}{%
401       \@nameuse{captionsnswissgeman}%
402     }
403   \fi
404 \fi
405 \fi

```

9.3 Date Localizations

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

```

406 \def\month@german{\ifcase\month\or
407   Januar\or Februar\or M"arz\or April\or Mai\or Juni\or
408   Juli\or August\or September\or Oktober\or November\or Dezember\fi}

```

`\date@german@at` We define some internal macros with common settings for each region. From these, only
`\date@german@ch` Austrian differs in the naming of January (*Jänner*):

```

\date@german@de 409 \@namedef{date@german@at}{\def\today{\number\day.~\ifnum1=\month
410   J"anner\else \month@german\fi \space\number\year}}
411 \@namedef{date@german@ch}{\def\today{\number\day.~\month@german
412   \space\number\year}}
413 \@namedef{date@german@de}{\def\today{\number\day.~\month@german
414   \space\number\year}}

```

`\dateaustrian` The Austrian `\date*` macros redefine the command `\today` to produce Austrian versions
`\datenaustrian` of the German dates (with the specific naming of January which differs from the other
`\dategerman-at-1901` German varieties). The macro is only defined if an Austrian variety is requested.

```

\dategerman-at 415 \ifx\bbl@german@region\bbl@german@region@at
\dategerman-austria-1901 416   \@namedef{date\CurrentOption}{\@nameuse{date@german@at}}
\dategerman-austria 417 \else

```

`\dateswissgerman` The other `\date*` macros redefine the command `\today` to produce the respective dates
`\datenswissgerman` for Swiss and German Standard German. They are all identical, both for all Swiss vari-
`\dategerman-ch-1901` eties:

```

\dategerman-ch 418   \ifx\bbl@german@region\bbl@german@region@ch
\dategerman-switzerland-1901 419     \@namedef{date\CurrentOption}{\@nameuse{date@german@ch}}
\dategerman-switzerland 420   \else

```

`\dategerman` as well as for all German varieties:

```

\datengerman 421     \@namedef{date\CurrentOption}{\@nameuse{date@german@de}}
\dategerman-de-1901 422   \fi
\dategerman-de 423 \fi
\dategerman-germany-1901
\dategerman-germany

```

9.4 Extras

The `\extras*` macros will perform all the extra definitions needed for the respective variety. The `\noextras*` macros are used to cancel the actions of `\extras*`.

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

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

`\@extrasgerman` The macro `\@extrasgerman` holds all the default extras setting. This is an internal macro that is inherited and modified by the following macros for the respective language varieties.

```
425 \@namedef{@extrasgerman}{%
```

First, we load the shorthands defined below and activate the " character

```
426 \languageshorthands{german}%
```

```
427 \bbl@activate{"}%
```

In order for \TeX to be able to hyphenate German words which contain ‘ß’ (in the OT1 position $\wedge\Upsilon$), we furthermore have to give the character a nonzero `\lccode` (see Appendix H, the \TeX book).

```
428 \babel@savevariable{\lccode25}%
```

```
429 \lccode25=25%
```

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

```
430 \babel@save\ "\umlautlow
```

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

```
431 \bbl@frenchspacing
```

```
432 }
```

Depending on the option with which the language definition file has been loaded, a respective `\extras*` macro is defined. Each of those is identical: it simply inherits `\@extrasgerman`. However, the traditional names (`german`, `ngerman`, `austrian`, `naustrian`, `swissgerman`, and `nswissgerman`) are used as an intermediate layer, so redefining those will also redefine the newer aliases.

`\extrasgerman` First, the legacy extras macro for pre-1996 German German:

```
433 \ifx\CurrentOption\bbl@opt@german
```

```
434 \@namedef{extrasgerman}{%
```

```
435 \@nameuse{@extrasgerman}%
```

```
436 }
```

```
437 \else
```

`\extrasngerman` Then, the legacy extras macro for post-1996 German German:

```
438 \ifx\CurrentOption\bbl@opt@ngerman
```

```
439 \@namedef{extrasngerman}{%
```

```
440 \@nameuse{@extrasgerman}%
```

```
441 }
```

```
442 \else
```

`\extrasgerman-de-1901` Now newer alias names for pre-1996 German German:

```
\extrasgerman-germany-1901 443 \ifx\bbl@german@region\bbl@german@region@de
```

```
444 \ifbbl@german@tradspeiling
```

```

445     \@namedef{extrasgerman}{%
446         \@nameuse{@extrasgerman}%
447     }
448     \@namedef{extras\CurrentOption}{%
449         \@nameuse{extrasgerman}%
450     }
451     \else

```

`\extrasgerman-de` and post-1996 German German:

```

\extrasgerman-germany 452     \@namedef{extrasngerman}{%
453         \@nameuse{@extrasgerman}%
454     }
455     \@namedef{extras\CurrentOption}{%
456         \@nameuse{extrasngerman}%
457     }
458     \fi
459     \fi
460     \fi
461     \fi

```

`\extrasaustrian` Same for Autrian: first, the legacy extras macro for pre-1996 Austrian German:

```

462 \def\bbl@tmpa{austrian}
463 \def\bbl@tmpb{naustrian}
464 \ifx\CurrentOption\bbl@tmpa
465     \@namedef{extrasaustrian}{%
466         \@nameuse{@extrasgerman}%
467     }
468 \else

```

`\extrasnaustrian` Then, the legacy extras macro for post-1996 Austrian German:

```

469 \ifx\CurrentOption\bbl@tmpb
470     \@namedef{extrasnaustrian}{%
471         \@nameuse{@extrasgerman}%
472     }
473 \else

```

`\extrasgerman-at-1901` Now newer alias names for pre-1996 Austrian German:

```

\extrasgerman-austria-1901 474 % \begin{macro}{\extrasgerman-at-1901}
475     \ifx\bbl@german@region\bbl@german@region@at
476         \ifbbl@german@tradspelling
477             \@namedef{extrasaustrian}{%
478                 \@nameuse{@extrasgerman}%
479             }
480             \@namedef{extras\CurrentOption}{%
481                 \@nameuse{extrasaustrian}%
482             }
483         \else

```

`\extrasgerman-at` Then, the newer extras macro for post-1996 Austrian German:

```

\extrasgerman-austria 484     \@namedef{extrasnaustrian}{%
485         \@nameuse{@extrasgerman}%
486     }
487     \@namedef{extras\CurrentOption}{%

```

```

488         \@nameuse{extrasnaustrian}%
489     }
490     \fi
491 \fi
492 \fi
493 \fi

```

`\extrasswissgerman` Finally, same for Swiss German; first, the legacy extras macros for pre-1996 Swiss German:

```

494 \ifx\CurrentOption\bbl@opt@swissgerman
495     \@namedef{extrasswissgerman}{%
496         \@nameuse{@extrasgerman}%
497     }
498 \else

```

`\extrasnwissgerman` Then, the legacy extras macro for post-1996 Swiss German:

```

499 \def\bbl@tmpa{nswissgerman}
500 \ifx\CurrentOption\bbl@tmpa
501     \@namedef{extrasnwissgerman}{%
502         \@nameuse{@extrasgerman}%
503     }
504 \else

```

`\extrasgerman-ch-1901` Now newer alias names for pre-1996 Swiss German:

```

\extrasgerman-switzerland-1901 505     \ifx\bbl@german@region\bbl@german@region@ch
506         \ifbbl@german@tradspelling
507             \@namedef{extrasswissgerman}{%
508                 \@nameuse{@extrasgerman}%
509             }
510             \@namedef{extras\CurrentOption}{%
511                 \@nameuse{extrasswissgerman}%
512             }
513         \else

```

`\extrasgerman-ch` Then, the newer extras macro for post-1996 Swiss German:

```

\extrasgerman-switzerland 514         \@namedef{extrasnwissgerman}{%
515             \@nameuse{@extrasgerman}%
516         }
517         \@namedef{extras\CurrentOption}{%
518             \@nameuse{extrasnwissgerman}%
519         }
520     \fi
521 \fi
522 \fi
523 \fi

```

Register spelling state:

```

524 \ifbbl@german@tradspelling
525     \expandafter\addto\csname extras\CurrentOption\endcsname{%
526         \bbl@german@tradspellingtrue}
527 \else
528     \expandafter\addto\csname extras\CurrentOption\endcsname{%
529         \bbl@german@tradspellingfalse}
530 \fi

```


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

```
531 \newif\ifbbl@toss\bbl@tossfalse
532 \def\bbl@tmpa{german-ch-1901}
```

First, query the modifiers for 1901 Swiss German:

```
533 \ifx\CurrentOption\bbl@tmpa
534   \expandafter\let\expandafter\bbl@mod@swissgerman\csname bbl@mod@\bbl@tmpa\endcsname
535 \fi
536 \def\bbl@tmpa{german-switzerland-1901}
537 \ifx\CurrentOption\bbl@tmpa
538   \expandafter\let\expandafter\bbl@mod@swissgerman\csname bbl@mod@\bbl@tmpa\endcsname
539 \fi
540 \ifx\bbl@mod@swissgerman\undefined\else
541   \@expandtwoargs\in@{,toss,}{,\bbl@mod@swissgerman,}
542   \ifin@
543     \tosstrue
544   \fi
545 \fi
```

`\ntosstrue` Now to 1996 Swiss German. For backwards compatibility reasons, we also still provide `\ntossfalse` `\ntosstrue` which had been promoted in earlier versions of `babel-german`.

```
546 \newif\ifntoss\ntossfalse
547 \newif\ifbbl@ntoss\bbl@ntossfalse
548 \def\bbl@tmpa{german-ch}
```

Again, query the modifiers for 1996 Swiss German:

```
549 \ifx\CurrentOption\bbl@tmpa
550   \expandafter\let\expandafter\bbl@mod@nswissgerman\csname bbl@mod@\bbl@tmpa\endcsname
551 \fi
552 \def\bbl@tmpa{german-switzerland}
553 \ifx\CurrentOption\bbl@tmpa
554   \expandafter\let\expandafter\bbl@mod@nswissgerman\csname bbl@mod@\bbl@tmpa\endcsname
555 \fi
556 \ifx\bbl@mod@nswissgerman\undefined\else
557   \@expandtwoargs\in@{,toss,}{,\bbl@mod@nswissgerman,}
558   \ifin@
559     \tosstrue
560   \fi
561 \fi
```

Now set `extras<lang>` for Swiss German (1901 and 1996) to consider `toss` setting. Also set `toss` at document begin if one of these is main language. This all needs to be done at document begin when we have the options set:

```
562 \AtBeginDocument{%
563   \edef\tmpa{\localeinfo*{language.tag.bcp47}}%
564   \edef\mpb{de}%
565   \ifx\tmpa\mpb
566     \edef\tmpa{\localeinfo*{region.tag.bcp47}}%
567     \ifx\tmpa\bbl@german@region@ch
568       \ifntoss
569         \bbl@tosstrue
570       \else
```

```

571         \iftoss
572             \bbl@tosstrue
573         \else
574             \bbl@tosfalse
575         \fi
576     \fi
577 \fi
578 \fi
579 \ifdefined\extrasswissgerman
580     \addto\extrasswissgerman{%
581         \iftoss\bbl@tosstrue\else\bbl@tosfalse\fi}%
582 \fi
583 \ifdefined\extrasnswissgerman
584     \addto\extrasnswissgerman{%
585         \iftoss
586             \bbl@tosstrue
587         \else
588             \iftoss
589                 \bbl@tosstrue
590             \else
591                 \bbl@tosfalse
592             \fi
593         \fi
594     }%
595 \fi
596 }

```

`capsz` For German and Austrian Standard German, we allow optionally to uppercase ⟨ß⟩ with the capital eszett letter rather as ⟨SS⟩ if the font provides the glyph (if the modifier or variety option `capsz` is used).

```

597 \newif\ifnocapsz\nocapszfalse
598 \newif\ifbbl@capsz\bbl@capszfalse

```

Save current casing, since it needs to be reset afterwards (this is important particularly if casing had been altered externally, e.g. via `\babelprovide`).

```

599 \ifdefined\casing@german
600     \let\save@casing@german\casing@german
601 \else
602     \xdef\save@casing@german{de}
603 \fi
604 \ifdefined\casing@ngerman
605     \let\save@casing@ngerman\casing@ngerman
606 \else
607     \xdef\save@casing@ngerman{de}
608 \fi
609 \ifdefined\casing@naustrian
610     \let\save@casing@naustrian\casing@naustrian
611 \else
612     \xdef\save@casing@naustrian{de}
613 \fi

```

Now query the modifiers for 1996 German:

```

614 \def\bbl@tmpa{german-de}
615 \ifx\CurrentOption\bbl@tmpa
616     \expandafter\let\expandafter\bbl@mod@ngerman\csname bbl@mod@\bbl@tmpa\endcsname

```

```

617 \fi
618 \def\bbl@tmpa{german-germany}
619 \ifx\CurrentOption\bbl@tmpa
620 \expandafter\let\expandafter\bbl@mod@ngerman\csname bbl@mod@\bbl@tmpa\endcsname
621 \fi
622 \ifx\bbl@mod@ngerman\@undefined\else
623 \@expandtwoargs\in@{, capsz, }{\bbl@mod@ngerman,}
624 \ifin@
625 \capsztrue
626 \fi
627 \@expandtwoargs\in@{, nocapsz, }{\bbl@mod@ngerman,}
628 \ifin@
629 \nocapsztrue
630 \fi
631 \fi

```

and 1996 Austrian:

```

632 \newif\if@bbl@german@austrian
633 \@bbl@german@austrianfalse
634 \def\bbl@tmpa{german-at}
635 \ifx\CurrentOption\bbl@tmpa
636 \@bbl@german@austriantrue
637 \expandafter\let\expandafter\bbl@mod@austrian\csname bbl@mod@\bbl@tmpa\endcsname
638 \fi
639 \def\bbl@tmpa{german-austria}
640 \ifx\CurrentOption\bbl@tmpa
641 \@bbl@german@austriantrue
642 \expandafter\let\expandafter\bbl@mod@austrian\csname bbl@mod@\bbl@tmpa\endcsname
643 \fi
644 \ifx\bbl@mod@austrian\@undefined\else
645 \@expandtwoargs\in@{, capsz, }{\bbl@mod@austrian,}
646 \ifin@
647 \@bbl@german@at@capsztrue
648 \fi
649 \@expandtwoargs\in@{, nocapsz, }{\bbl@mod@austrian,}
650 \ifin@
651 \nocapsztrue
652 \fi
653 \fi

```

We also do it for german for the case of it meaning 1996:

```

654 \ifx\bbl@mod@german\@undefined\else
655 \@expandtwoargs\in@{, capsz, }{\bbl@mod@german,}
656 \ifin@
657 \@bbl@german@ge@capsztrue
658 \fi
659 \@expandtwoargs\in@{, nocapsz, }{\bbl@mod@german,}
660 \ifin@
661 \nocapsztrue
662 \fi
663 \fi

```

Now set extras<lang> for 1996 Austrian and German to consider caps setting. Also set caps at document begin if one of these is main language:

```

664 \AtBeginDocument{%

```

```

665 \iflanguage{ngerman}{%
666   \edef\tmpa{\localeinfo*{region.tag.bcp47}}%
667   \ifx\tmpa\bbbl@german@region@ch\else
668     \ifcapsz\bbbl@capsztrue\bbbl@csarg\xdef{casing@\languagename}{de-x-eszett}\fi
669   \fi
670 }{%
671   \ifbbbl@german@newterms
672     \edef\tmpa{\localename}%
673     \ifx\tmpa\bbbl@opt@german
674       \ifcapsz\bbbl@capsztrue\bbbl@csarg\xdef{casing@\languagename}{de-x-eszett}\fi
675     \fi
676   \fi
677 }%
678 \ifdefined\extrasngerman
679   \addto\extrasngerman{%
680     \ifcapsz\bbbl@capsztrue\bbbl@csarg\xdef{casing@ngerman}{de-x-eszett}%
681     \else\ifnocapsz\bbbl@csarg\xdef{casing@ngerman}{de}\fi\bbbl@capszfalse\fi}%
682 \fi
683 \ifbbbl@german@newterms
684   \ifdefined\extrasgerman
685     \addto\extrasgerman{%
686       \if@bbbl@german@ge@capsz\bbbl@capsztrue\bbbl@csarg\xdef{casing@german}{de-x-eszett}%
687       \else\ifnocapsz\bbbl@csarg\xdef{casing@german}{de}\fi\bbbl@capszfalse\fi}%
688   \fi
689 \fi
690 }
691 \if@bbbl@german@naustrian
692   \AtBeginDocument{%
693     \addto\extrasnaustrian{%
694       \if@bbbl@german@at@capsz\bbbl@capsztrue\bbbl@csarg\xdef{casing@naustrian}{de-x-eszett}%
695       \else\ifnocapsz\bbbl@csarg\xdef{casing@naustrian}{de}\fi\bbbl@capszfalse\fi}%
696   }
697 \fi

```

`\@noextrasgerman` The macro `\@noextrasgerman` holds all the default `noextras` setting. This is an internal macro that is inherited and modified by the following macros for the respective language varieties.

```
698 \@namedef{@noextrasgerman}{%
```

First, we deactivate the " character and thus turn the shorthands off again outside of the respective variety:

```
699   \bbbl@deactivate{"}%
```

Also, undo redefinition of umlaut accent macro `\` to lower the umlaut dots,

```
700   \umlauthigh
```

and turn off `\frenchspacing`:

```
701   \bbbl@nonfrenchspacing
```

```
702 }
```

Depending on the option with which the language definition file has been loaded, a respective `\noextras*` macro is defined. Each of those is identical: it simply inherits `\@noextrasgerman`. However, the traditional names (`german`, `ngerman`, `austrian`, `naustrian`, `swissgerman`, and `nswissgerman`) are used as an intermediate layer, so redefining those will also redefine the newer aliases.

`\noextrasgerman` First, the legacy `noextr` macro for pre-1996 German German:

```
703 \ifx\CurrentOption\bbl@opt@german
704   \@namedef{noextrasgerman}{%
705     \@nameuse{@noextrasgerman}%
706   }
707 \else
```

`\noextrasngerman` Then, the legacy `noextr` macro for post-1996 German German:

```
708 \ifx\CurrentOption\bbl@opt@ngerman
709   \@namedef{noextrasngerman}{%
710     \@nameuse{@noextrasgerman}%
711   }
712 \else
```

`\noextrasgerman-de-1901` Now newer alias names for pre-1996 German German:

```
\noextrasgerman-germany-1901 713 \ifx\bbl@german@region\bbl@german@region@de
714   \ifbbl@german@tradspeiling
715     \@namedef{noextrasgerman}{%
716       \@nameuse{@noextrasgerman}%
717     }
718     \@namedef{noextras\CurrentOption}{%
719       \@nameuse{noextrasgerman}%
720     }
721   \else
```

`\noextrasgerman-de` and post-1996 German German:

```
\noextrasgerman-germany 722   \@namedef{noextrasngerman}{%
723     \@nameuse{@noextrasgerman}%
724   }
725   \@namedef{noextras\CurrentOption}{%
726     \@nameuse{noextrasngerman}%
727   }
728 \fi
729 \fi
730 \fi
731 \fi
```

Now deactivate casing if needed:

```
732 \ifdefined\noextrasgerman
733   \if@bbl@german@ge@capsz
734     \addto\noextrasgerman{%
735       \bbl@capszfalse\bbl@csarg\xdef{casing@german}{\save@casing@german}}
736   \fi
737 \fi
738 \ifdefined\noextrasngerman
739   \ifbbl@capsz
740     \addto\noextrasngerman{%
741       \bbl@capszfalse\bbl@csarg\xdef{casing@ngerman}{\save@casing@ngerman}}
742   \fi
743 \fi
```

`\noextrasaustrian` Same for Austrian: first, the legacy `noextr` macro for pre-1996 Austrian German:

```
744 \def\bbl@tmpa{austrian}
```

```

745 \def\bbl@tmpb{naustrian}
746 \ifx\CurrentOption\bbl@tmpa
747   \@namedef{noextrasaustrian}{%
748     \@nameuse{@noextrasgerman}%
749   }
750 \else

```

\noextrasaustrian Then, the legacy noextras macro for post-1996 Austrian German:

```

751 \ifx\CurrentOption\bbl@tmpb
752   \@namedef{noextrasaustrian}{%
753     \@nameuse{@noextrasgerman}%
754   }
755 \else

```

\noextrasgerman-at-1901 Now newer alias names for pre-1996 Austrian German:

```

\noextrasgerman-austria-1901 756 % \begin{macro}{\noextrasgerman-at-1901}
757   \ifx\bbl@german@region\bbl@german@region@at
758     \ifbbl@german@tradspelling
759       \@namedef{noextrasaustrian}{%
760         \@nameuse{@noextrasgerman}%
761       }
762       \@namedef{noextras\CurrentOption}{%
763         \@nameuse{noextrasaustrian}%
764       }
765     \else

```

\noextrasgerman-at Then, the newer noextras macro for post-1996 Austrian German:

```

\noextrasgerman-austria 766   \@namedef{noextrasaustrian}{%
767     \@nameuse{@noextrasgerman}%
768   }
769   \@namedef{noextras\CurrentOption}{%
770     \@nameuse{noextrasaustrian}%
771   }
772   \fi
773 \fi
774 \fi
775 \fi

```

Also de-activate casing if needed:

```

776 \if@bbl@german@naustrian
777 \if@bbl@german@at@capsz
778   \addto\noextrasaustrian{%
779     \bbl@capszfalse\bbl@csarg\xdef{casing@naustrian}{\save@casing@naustrian}}
780 \fi
781 \fi

```

\noextrasswissgerman Finally, same for Swiss German; first, the legacy noextras macros for pre-1996 Swiss German:

```

782 \ifx\CurrentOption\bbl@opt@swissgerman
783   \@namedef{noextrasswissgerman}{%
784     \@nameuse{@noextrasgerman}%
785   }
786 \else

```

`\noextrasnwissgerman` Then, the legacy `noextr` macro for post-1996 Swiss German:

```
787 \def\bbl@tmpa{nswissgerman}
788 \ifx\CurrentOption\bbl@tmpa
789   \@namedef{noextrasnwissgerman}{%
790     \@nameuse{@noextrasgerman}%
791   }
792 \else
```

`\noextrasgerman-ch-1901` Now newer alias names for pre-1996 Swiss German:

```
\noextrasgerman-switzerland-1901 793 \ifx\bbl@german@region\bbl@german@region@ch
794   \ifbbl@german@tradspelling
795     \@namedef{noextrasnwissgerman}{%
796       \@nameuse{@noextrasgerman}%
797     }
798     \@namedef{noextras\CurrentOption}{%
799       \@nameuse{noextrasnwissgerman}%
800     }
801   \else
```

`\noextrasgerman-ch` Then, the newer `noextr` macro for post-1996 Swiss German:

```
\noextrasgerman-switzerland 802 \@namedef{noextrasnwissgerman}{%
803   \@nameuse{@noextrasgerman}%
804 }
805 \@namedef{noextras\CurrentOption}{%
806   \@nameuse{noextrasnwissgerman}%
807 }
808 \fi
809 \fi
810 \fi
811 \fi
```

For the Swiss varieties, we need to deactivate `\toss`.

```
812 \ifx\bbl@german@region\bbl@german@region@ch
813   \expandafter\addto\csname noextras\CurrentOption\endcsname{%
814     \bbl@tossfalse}
815 \fi
```

The German hyphenation patterns can be used with `\leftthyphenmin` and `\rightthyphenmin` set to 2.

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

9.5 Active Characters, Macros, and 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.

```
817 \begingroup \catcode'\ "12
818 \def\x{\endgroup
```

```

819 \def\dq{"}
820 \def@SS{\mathchar"7019 }
821 \def\bbl@ss{\ifbbl@toss ss\else\textormath{\ss}{\@SS}}\fi}
822 \def\bbl@SS{\ifbbl@capsz\MakeUppercase{\ss}\else SS\fi}
823 \def\bbl@sz{\ifbbl@toss sz\else\textormath{\ss}{\@SS}}\fi}
824 \def\bbl@SZ{SZ}
825 }
826 \x

```

Since we need to add special cases for hyperref which needs hyperref's `\texorpdfstring`, we provide a dummy command for the case that hyperref is not loaded.

```
827 \providecommand\texorpdfstring[2]{#1}
```

`\bbl@german@allowhyphenationbefore` We also define two helper commands to allow hyphenation before and after a character as defined in shorthands. These are similar to babel's `\bbl@allowhyphens` but differentiate the position:

```

828 \def\bbl@german@allowhyphenationbefore{\ifvmode\else\nobreak\fi}
829 \def\bbl@german@allowhyphenationafter{\nobreak\hskip\z@skip}

```

Now we can define the doublequote shorthands: the umlauts,

```

830 \declare@shorthand{german}{"a}{\textormath{"a}{\ddot a}}
831 \declare@shorthand{german}{"o}{\textormath{"o}{\ddot o}}
832 \declare@shorthand{german}{"u}{\textormath{"u}{\ddot u}}
833 \declare@shorthand{german}{"A}{\textormath{"A}{\ddot A}}
834 \declare@shorthand{german}{"O}{\textormath{"O}{\ddot O}}
835 \declare@shorthand{german}{"U}{\textormath{"U}{\ddot U}}

```

tremata,

```

836 \declare@shorthand{german}{"e}{\textormath{"e}{\ddot e}}
837 \declare@shorthand{german}{"E}{\textormath{"E}{\ddot E}}
838 \declare@shorthand{german}{"i}{\textormath{"i}{\ddot i}}%
839 \ddot\imath}
840 \declare@shorthand{german}{"I}{\textormath{"I}{\ddot I}}

```

German $\langle\beta\rangle$,

```

841 \declare@shorthand{german}{"s}{\bbl@ss}
842 \declare@shorthand{german}{"S}{\bbl@SS}
843 \declare@shorthand{german}{"z}{\bbl@sz}
844 \declare@shorthand{german}{"Z}{\bbl@SZ}

```

German and French/Swiss quotation marks,

```

845 \declare@shorthand{german}{" '}{\glqq}
846 \declare@shorthand{german}{" '}{\grqq}
847 \declare@shorthand{german}{"<}{\flqq}
848 \declare@shorthand{german}{">}{\frqq}

```

and discretionary commands. Here we discriminate contemporary (post-1996) German from pre-1996 German (due to the hyphenation specifics).

```

849 \def\bbl@german@disc#1#2{%
850 \ifbbl@german@tradspelling

```

For pre-1996 spelling, we apply ck->k-k hyphenation for "ck and "CK, or the three-consonant rule (e.g., ll -> ll-l) for the other relevant shorthands:

```

851 {\bbl@german@allowhyphenationbefore\discretionary{#2-}{\#1}%
852 \bbl@german@allowhyphenationafter}%
853 \else

```


For post-1996 spelling, we simply output ⟨c⟩ or ⟨C⟩ for "c and "C, or all two consonants passed in the second argument for the other relevant shorthands:

```

854 \def\bbl@tmpa{c}\def\bbl@tmpb{C}%
855 \if#1\bbl@tmpa
856   #1%
857 \else
858   \if#1\bbl@tmpb
859     #1%
860   \else
861     #2%
862   \fi
863 \fi
864 \fi
865 }

```

And here are the actual shorthands for these 1901 specifics:

```

866 \declare@shorthand{german}{"c"}{\textormath{\bbl@german@disc ck}{c}}
867 \declare@shorthand{german}{"C"}{\textormath{\bbl@german@disc CK}{C}}
868 \declare@shorthand{german}{"f"}{\textormath{\bbl@german@disc f{ff}}{f}}
869 \declare@shorthand{german}{"F"}{\textormath{\bbl@german@disc F{FF}}{F}}
870 \declare@shorthand{german}{"l"}{\textormath{\bbl@german@disc l{ll}}{l}}
871 \declare@shorthand{german}{"L"}{\textormath{\bbl@german@disc L{LL}}{L}}
872 \declare@shorthand{german}{"m"}{\textormath{\bbl@german@disc m{mm}}{m}}
873 \declare@shorthand{german}{"M"}{\textormath{\bbl@german@disc M{MM}}{M}}
874 \declare@shorthand{german}{"n"}{\textormath{\bbl@german@disc n{nn}}{n}}
875 \declare@shorthand{german}{"N"}{\textormath{\bbl@german@disc N{NN}}{N}}
876 \declare@shorthand{german}{"p"}{\textormath{\bbl@german@disc p{pp}}{p}}
877 \declare@shorthand{german}{"P"}{\textormath{\bbl@german@disc P{PP}}{P}}
878 \declare@shorthand{german}{"r"}{\textormath{\bbl@german@disc r{rr}}{r}}
879 \declare@shorthand{german}{"R"}{\textormath{\bbl@german@disc R{RR}}{R}}
880 \declare@shorthand{german}{"t"}{\textormath{\bbl@german@disc t{tt}}{t}}
881 \declare@shorthand{german}{"T"}{\textormath{\bbl@german@disc T{TT}}{T}}

```

Furthermore, and for contemporary orthography as well, we define some additional useful shorthands (hyphenation, line breaking and ligature control):

```

882 \declare@shorthand{german}{"-"}{%
883   \bbl@german@allowhyphenationbefore-\bbl@german@allowhyphenationafter
884 }
885 \declare@shorthand{german}{"|"}{%
886   \texorpdfstring{%
887     \textormath{% text
888       \bbl@german@allowhyphenationbefore\discretionary{-}{\kern.03em}%
889       \bbl@german@allowhyphenationafter
890     }}% math
891   }{% PDF string
892 }
893 \declare@shorthand{german}{"'"}{%
894   \bbl@german@allowhyphenationbefore\discretionary{}{}{%
895     \bbl@german@allowhyphenationafter
896 }
897 \declare@shorthand{german}{"~"}{%
898   \texorpdfstring{%
899     \textormath{% text
900       \bbl@german@allowhyphenationbefore\mbox{-}%
901       \bbl@german@allowhyphenationafter

```

```

902   }{-}% math
903   }{-}% PDF string
904 }
905 \declare@shorthand{german}{"}{%
906   \bbl@german@allowhyphenationbefore-\bbl@german@allowhyphenationafter
907 }
908 \declare@shorthand{german}{"/}{%
909   \bbl@german@allowhyphenationbefore/\discretionary{}{}{}%
910   \bbl@german@allowhyphenationafter
911 }

```

`\mkgender` and some shorthands to support gender-sensitive spelling:

```

\mkgender 912 \def\mkgender{*}
          913 \AtBeginDocument{%
          914   \ifx\mkgender\undefined\else
          915     \let\mkgender\mkgender
          916     \fi
          917 }
          918 \declare@shorthand{german}{":}{%
          919   \bbl@german@allowhyphenationbefore:\bbl@german@allowhyphenationafter
          920 }
          921 \declare@shorthand{german}{"*}{%
          922   \bbl@german@allowhyphenationbefore*\bbl@german@allowhyphenationafter
          923 }
          924 \declare@shorthand{german}{"_}{%
          925   \bbl@german@allowhyphenationbefore_\bbl@german@allowhyphenationafter
          926 }
          927 \declare@shorthand{german}{"x}{%
          928   \bbl@german@allowhyphenationbefore\mkgender\bbl@german@allowhyphenationafter
          929 }

```

9.6 Compatibility of External Packages

`\mdqon` We define a couple of commands for reasons of compatibility with `german.sty` and `\mdqoff` `ngerman.sty`.

```

\ck 930 \def\mdqon{\shorthandon{}}
     931 \def\mdqoff{\shorthandoff{}}
     932 \ifbbl@german@tradspelling
     933   \def\ck{\bbl@german@allowhyphenationbefore\discretionary{k-}{k}{ck}%
     934     \bbl@german@allowhyphenationafter}
     935 \else
     936   \def\ck{ck}
     937 \fi

```

`\bbl@mk@class@alias` For external packages that rely on legacy option names, we provide a method to transmit those (in addition to newer ones) in the global options list.

```

938 \def\bbl@mk@class@alias#1{%
939   \def\bbl@class@alias{#1}%
940   \def\bbl@tmp@classoptionslist{%
941     \bbl@foreach\@raw@classoptionslist{%
942       \def\bbl@tmpa{#1}%
943       \ifx\CurrentOption\bbl@tmpa
944         \edef\bbl@tmp@classoptionslist{%

```

```

945     \bbl@tmp@classoptionslist\zap@space\bbl@class@alias,#1 \@empty,}%
946 \else
947   \edef\bbl@tmp@classoptionslist{%
948     \bbl@tmp@classoptionslist\zap@space#1 \@empty,}%
949 \fi
950 }%
951 \let\@raw@classoptionslist\bbl@tmp@classoptionslist
952 \def\bbl@tmp@classoptionslist{}%
953 \bbl@foreach\@classoptionslist{%
954   \def\bbl@tmpa{#1}%
955   \ifx\CurrentOption\bbl@tmpa
956     \edef\bbl@tmp@classoptionslist{%
957       \bbl@tmp@classoptionslist\zap@space\bbl@class@alias,#1 \@empty,}%
958   \else
959     \edef\bbl@tmp@classoptionslist{%
960       \bbl@tmp@classoptionslist\zap@space#1 \@empty,}%
961   \fi
962 }%
963 \let\@classoptionslist\bbl@tmp@classoptionslist

```

For biblatex, we also adopt `\bbl@main@language` locally:

```

964 \AddToHook{package/biblatex/after}{%
965   \let\bbl@german@mkautolangbabel\blx@mkautolangbabel
966   \def\blx@mkautolangbabel{%
967     \let\bbl@main@language\bbl@class@alias
968     \bbl@german@mkautolangbabel
969   }%
970 }%
971 }

```

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.

```

972 \ldf@finish\CurrentOption

```

9.7 Portmanteau *.ldf Files

Babel expects a `<lang>.ldf` file for each `<lang>`. So we create portmanteau ldf files for

- `german.ldf`
- `german-de.ldf`
- `german-germany.ldf`
- `german-de-1901.ldf`
- `german-germany-1901.ldf`
- `german-at.ldf`
- `german-austria.ldf`
- `german-at-1901.ldf`
- `german-austria-1901.ldf`
- `german-ch.ldf`
- `german-switzerland.ldf`

- `german-ch-1901.ldf`
- `german-switzerland-1901.ldf`

and the deprecated

- `austrian`
- `ngerman`
- `swissgerman`
- `nswissgerman`

All these files themselves load `babel-german.def`, which does the real work, with the appropriate option.

With `ngerman`, `naustrian`, and `nswissgerman`, we force `german` to 1901 with `glottonyms=auto`. This is simply determined by the existence of the following macro:

```
973 \def\bbl@german@force@legacy{}
```

With the newer options, we load `exptl` hyphenation patterns by default. This is determined by the existence of the following macro:

```
974 \def\bbl@german@exptl@patterns{}
```

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

```
975 \LdfInit\CurrentOption{captions\CurrentOption}
```

Track whether we have 1901 spelling:

```
976 \newif\ifbbl@german@tradspelling
```

Set spelling and region params. First `german`, `germanb`, `german-de-1901` or `german-germany-1901`:

```
977 \bbl@german@tradspellingtrue
```

```
978 \def\bbl@german@region{DE}
```

Now, `ngerman`, `ngermanb`, `german-de` or `german-germany`:

```
979 \bbl@german@tradspellingfalse
```

```
980 \def\bbl@german@region{DE}
```

Now, `austrian`, `german-at-1901` or `german-austria-1901`:

```
981 \bbl@german@tradspellingtrue
```

```
982 \def\bbl@german@region{AT}
```

Now, `naustrian`, `german-at` or `german-austria`:

```
983 \bbl@german@tradspellingfalse
```

```
984 \def\bbl@german@region{AT}
```

Now, `swissgerman`, `german-ch-1901` or `german-switzerland-1901`:

```
985 \bbl@german@tradspellingtrue
```

```
986 \def\bbl@german@region{CH}
```

And finally, `nswissgerman`, `german-ch` or `german-switzerland`:

```
987 \bbl@german@tradspellingfalse
```

```
988 \def\bbl@german@region{CH}
```

Now load the common file;

```
989 \input babel-german.def\relax
```

Finally, set legacy class options if needed:
`german-at-1901` and `german-austria-1901`,

```
990 \bbl@mk@class@alias{austrian}
```

german-at and german-austria,
 991 \bbl@mk@class@alias{naustrian}
 german-ch-1901 and german-switzerland-1901,
 992 \bbl@mk@class@alias{swissgerman}
 german-ch and german-switzerland,
 993 \bbl@mk@class@alias{nswissgerman}
 german-de-1901 and german-germany-1901,
 994 \bbl@mk@class@alias{german}
 as well as german-de and german-germany
 995 \bbl@mk@class@alias{ngerman}
 That's it! Fertig.

Change History

Version 1.0a	v2.3d	1
General: Incorporated Nico's	Save all redefined macros	22
comments	Try to restore everything to its	
Version 1.0b	former state	22
General: fixed typo in definition for	\@captionsgerman: \pagename should	
austrian language found by	be \headpagename	18
Werenfried Spit nspit@fys.ruu.nl . . .	Removed \global definitions	18
Version 1.0c	Version 2.2a	
General: Fixed some typos	General: Renamed babel.sty in	
Version 1.1	babel.com	1
General: Added \dieresis	Version 2.2d	
When using PostScript fonts with	General: Removed use of	
the Adobe fontencoding, the	\@ifundefined	13
dieresis-accent is located	Version 2.3	
elsewhere, modified germanb	General: Rewritten parts of the code to	
Version 1.1a	use the new features of babel	
General: Modified the documentation	version 3.1	1
somewhat	Version 2.3e	
Version 2.0	General: Added \save@sf@q macro and	
General: Modified for babel 3.0	rewrote all quote macros to use it	31
Now use \adddialect for austrian	Added warning, if no german	
Now use \adddialect if language	patterns loaded	13
undefined	Brought up-to-date with german.tex	
Version 2.0a	v2.3e (plus some bug fixes) [br] . . .	1
General: Removed some problems in	\@captionsgerman: Added	
change log	\prefacename, \seename and	
Version 2.0b	\alsoname	18
General: added some comment chars	\month@german: Added \month@german	21
to prevent white space	Version 2.3h	
Version 2.1	General: moved definition of	
General: Removed bug found by van	\allowhyphens, \set@low@box and	
der Meer	\save@sf@q to babel.com	31
Version 2.2	Version 2.4	
General: Removed global assignments,	\@captionsgerman: \headpagename	
brought uptodate with german.tex	should be \pagename	18

Version 2.5		use <code>\def</code> instead of <code>\edef</code>	21
General: Update or \LaTeX 2 ϵ	1	Use <code>\edef</code> to define <code>\today</code> to save	
Version 2.5c		memory	21
General: Now use <code>\nopatterns</code> to		use <code>\SS</code> instead of <code>SS</code> , removed	
produce the warning	13	braces after <code>\ss</code>	32
Removed the use of <code>\filedate</code> and		<code>\ck</code> : Now use <code>\shorthandon</code> and	
moved the identification after the		<code>\shorthandoff</code>	34
loading of <code>babel.def</code>	1	Version 2.6i	
Version 2.6a		<code>\@noextrasgerman</code> : Deactivate	
General: Moved all quotation		shorthands outside of German.	28
characters to <code>glyphs.dtx</code>	31	Version 2.6j	
Moved the identification to the top		General: Now use <code>\providehyphenmins</code>	
of the file	1	to provide a default value	31
Rewrote the code that handles the		<code>\@captionsgerman</code> : Added	
active double quote character	1	<code>\glossaryname</code>	18
Use <code>\ddot</code> instead of <code>\@MATHUMLAUT</code>	32	Version 2.6k	
Use <code>\germanhyphenmins</code> to store the		<code>\@extrasgerman</code> : Turn frenchspacing	
correct values	31	on, as in <code>german.sty</code>	22
<code>\@extrasgerman</code> : <code>\umlautlow</code> and		Version 2.7	
<code>\umlauthigh</code> moved to <code>glyphs.dtx</code> ,		General: Added <code>\extrasswissgerman</code>	22
as well as <code>\newumlaut</code> (now		Added support for variety	
<code>\lower@umlaut</code>	22	<code>swissgerman</code>	1
Removed <code>\3</code> as it is no longer in		Generate portmanteau files	
<code>germanb.ldf</code>	22	<code>austrian.ldf</code> , <code>german.ldf</code> and	
<code>\@noextrasgerman</code> : All the code to		<code>swissgerman.ldf</code>	35
handle the active double quote has		Revised austrian support.	1
been moved to <code>babel.def</code>	28	Revised documentation: Turn the	
Version 2.6b		<code>babel</code> manual chapter into a	
<code>\@captionsgerman</code> : Added <code>\proofname</code>		self-enclosed manual.	1
for AMS- \LaTeX	18	<code>\@captionsgerman</code> : Changed <code>\enclname</code>	
Version 2.6c		in austrian to <i>Beilage(n)</i>	18
General: added the <code>\allowhyphens</code>	32	Split <code>\captionsgerman</code> from	
Moved <code>\german@dq@disc</code> to		<code>\captionsaustrian</code> and	
<code>babel.def</code> , calling it <code>\bbl@disc</code>	32	<code>\captionsswissgerman</code>	18
<code>\@extrasgerman</code> : Use decimal number		<code>\@noextrasgerman</code> : Deactivate	
instead of hat-notation as the hat		shorthands also outside of	
may be activated	22	austrian and <code>swissgerman</code>	28
Version 2.6d		Do not use <code>\@namedef</code> when	
General: Construct control sequence		<code>\noextras</code> is already defined and	
<code>\extrasgerman</code> or <code>\extrasaustrian</code>		should not be overwritten.	28
on the fly	22	<code>\noextrasswissgerman</code> : Added	
Moved the definition of <code>\atcatcode</code>		<code>\noextrasswissgerman</code> and	
right to the beginning.	1	<code>\noextrasnswissgerman</code>	30
Now use <code>\ldf@finish</code> to wrap up	35	Version 2.7b	
Now use <code>\LdfInit</code> to perform initial		General: Do not warn about missing	
checks	36	<code>swissgerman</code> patterns if	
Replaced <code>\undefined</code> with		<code>swissgerman</code> is not loaded	15
<code>\undefined</code> and <code>\empty</code> with		Version 2.8	
<code>\@empty</code> for consistency with \LaTeX	1	General: Only add Austrian dialect if	
<code>\@captionsgerman</code> : Construct control		austrian is loaded	15
sequence on the fly	18	Only define <code>\dateaustrian</code> if	
Version 2.6f		austrian is requested.	21
General: Copied the coding for "f		Only define <code>\dategerman</code> if <code>german</code>	
from <code>german.dtx</code> version 2.5d	33	is requested.	21

<ul style="list-style-type: none"> \@captionsgerman: Define trans-variational base captions which are loaded and modified by the varieties 18 \captionsgerman: Only define \captionsgerman if german is requested. 19 \captionsgerman-austria: Only define \captionsaustrian if austrian is requested. 20 \captionsgerman-switzerland: Only define \captionsswissgerman if swissgerman is requested. 20 \captionsgerman: Only define \captionsgerman if ngerman is requested. 19 	<ul style="list-style-type: none"> \mkngender: Add "*", ":", "_", and "x shorthands to support gender-sensitive writing 34
<ul style="list-style-type: none"> Version 2.9 <ul style="list-style-type: none"> General: Add "/" shortcut for breakable slash (taken from dutch. ldf) 33 Do not attempt to load \l@austrian, which does not exist 15 	<ul style="list-style-type: none"> Version 2.15 <ul style="list-style-type: none"> capsz: Implement modifier nocapsz to deactivate global capital eszett casing in Austrian and German varieties. Global settings are now adhered to if no modifier is used. . . 26
<ul style="list-style-type: none"> Version 2.10 <ul style="list-style-type: none"> General: Add helper macros to identify the current option. 11 Implement boolean switch \tosstrue/\tossfalse to customize ⟨ß⟩-related shorthands in Swiss Standard German context. 25 Implement modifier toss to customize ⟨ß⟩-related shorthands in Swiss Standard German context. 25 Improvements to the manual 1 	<ul style="list-style-type: none"> Version 2.99 <ul style="list-style-type: none"> General: Allow to load experimental hyphenation patterns via macro \germansetup 16 Charge \exhyphenpenalty when needed with shorthands 33 Check for vmode before all relevant shorthands 32 Complete rewrite to support new aliases 13 Document new language naming and glottonyms option 1 Generate portmanteau files <ul style="list-style-type: none"> german-de. ldf, german-germany. ldf, german-de-1901. ldf, german-germany-1901. ldf, german-at. ldf, german-austria. ldf, german-at-1901. ldf, german-austria-1901. ldf, german-ch. ldf, german-switzerland. ldf, german-ch-1901. ldf, and german-switzerland-1901. ldf. . . 35 Let "/" output a slash in math mode as well 33 Merge manuals for pre- and post-1996 variants 1 Remove special coding for "f which is broken and not needed (ff ligatures are preserved with the standard \bbl@german@disc routine). 33 capsz: Fix setting of capsz and toss for main language. 26 \bbl@german@allowhyphenationafter: <ul style="list-style-type: none"> Add macro 32 \bbl@german@allowhyphenationbefore: <ul style="list-style-type: none"> Add macro 32 \germansetup: Add macro 13
<ul style="list-style-type: none"> Version 2.11 <ul style="list-style-type: none"> General: Fix old hyphenation regression introduced with babel 3.7 (2002) in a number of shorthands (change of meaning of \allowhyphens vs. \bbl@allowhyphens) 33 	
<ul style="list-style-type: none"> Version 2.12 <ul style="list-style-type: none"> General: Properly handle shorthands in hyperref pdf strings 32 	
<ul style="list-style-type: none"> Version 2.13 <ul style="list-style-type: none"> General: Move option helper macros after \LdfInit to fix plain tex usage. 11 	
<ul style="list-style-type: none"> Version 2.14 <ul style="list-style-type: none"> capsz: Implement modifier capsz to use capital eszett letter in Austrian and German varieties if possible. . . 26 	

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