Polyglossia: Modern multilingual typesetting with \texttt{XeLaTeX} and \texttt{LuaLaTeX}

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1 Introduction

Polyglossia is a package for facilitating multilingual typesetting with \TeX{} and Lua\LaTeX{}. Basically, it can be used as an alternative to babel for performing the following tasks automatically:

1. Loading the appropriate hyphenation patterns.
2. Setting the script and language tags of the current font (if possible and available), via the package fontspec.
3. Switching to a font assigned by the user to a particular script or language.
4. Adjusting some typographical conventions according to the current language (such as afterindent, frenchindent, spaces before or after punctuation marks, etc.).
5. Redefining all document strings (like "chapter", "figure", "bibliography").
6. Adapting the formatting of dates (for non-Gregorian calendars via external packages bundled with polyglossia: currently the Hebrew, Islamic and Farsi calendars are supported).
7. For languages that have their own numbering system, modifying the formatting of numbers appropriately (this also includes redefining the alphabetic sequence for non-Latin alphabets).\footnote{This is done by bundled sub-packages such as arabicnumbers.}
8. Ensuring proper directionality if the document contains languages that are written from right to left (via the package bidi, available separately).

Several features of babel that do not make sense in the \TeX{} world (like font encodings, shorthands, etc.) are not supported. Generally speaking, polyglossia aims to remain as compatible as possible with the fundamental features of babel while being cleaner, light-weight, and modern. The package antomega has been very beneficial in our attempt to reach this objective.

Requirements  The current version of polyglossia makes use of some convenient macros defined in the etoolbox package by Philipp Lehmann and Joseph Wright. Being designed for \TeX{} and Lua\LaTeX{}, it obviously also relies on fontspec by Will Robertson. For languages written from right to left, it needs the package bidi (for \TeX{}) or luabidi (for Lua\LaTeX{}) by Vafa Khalighi (وفا خليجی) and the bidi-tex GitHub Organisation. Polyglossia also bundles three packages for calendaric computations (hebrewcal, hijrical, and farsical).

2 Setting up multilingual documents

2.1 Activating languages

The default language of a document is specified by means of the command \texttt{\setdefaultlanguage{⟨lang⟩}}
\setmainlanguage (or, equivalently, \setmainlanguage). Secondary languages are specified with \setotherlanguage\{options\}\{lang\}. All these commands allow you to set language-specific options.\textsuperscript{2} It is also possible to load a series of secondary languages at once (but without options) using \setotherlanguages\{lang1,lang2,lang3,\ldots\}. All language-specific options can be modified locally by means of the language-switching commands described in section 3.

Note In general, it is advisable to activate the languages after all packages have been loaded. This is particularly important if you use right-to-left scripts or languages with babel shorthands.

2.2 Supported languages

Table 1 lists all languages currently supported. Those in red have specific options and/or commands that are explained in section 6 below.

<table>
<thead>
<tr>
<th>Language</th>
<th>Language</th>
<th>Language</th>
<th>Language</th>
<th>Language</th>
</tr>
</thead>
<tbody>
<tr>
<td>afrikaans</td>
<td>danish</td>
<td>icelandic</td>
<td>nko</td>
<td>spanish</td>
</tr>
<tr>
<td>albanian</td>
<td>divehi</td>
<td>interlingua</td>
<td>norwegian</td>
<td>swedish</td>
</tr>
<tr>
<td>amharic</td>
<td>dutch</td>
<td>italian</td>
<td>occitan</td>
<td>syriac</td>
</tr>
<tr>
<td>arabic</td>
<td>english</td>
<td>japanese</td>
<td>persian</td>
<td>tamil</td>
</tr>
<tr>
<td>armenian</td>
<td>esperanto</td>
<td>kannada</td>
<td>piedmontese</td>
<td>telugu</td>
</tr>
<tr>
<td>asturian</td>
<td>estonian</td>
<td>khmer</td>
<td>polish</td>
<td>thai</td>
</tr>
<tr>
<td>basque</td>
<td>finnish</td>
<td>korean</td>
<td>portuguese</td>
<td>tibetan</td>
</tr>
<tr>
<td>belarussian</td>
<td>french</td>
<td>kurdish</td>
<td>punjabi</td>
<td>turkish</td>
</tr>
<tr>
<td>bengali</td>
<td>friulian</td>
<td>lao</td>
<td>romanian</td>
<td>turkmen</td>
</tr>
<tr>
<td>bosnian</td>
<td>gaelic</td>
<td>latin</td>
<td>romansh</td>
<td>ukrainian</td>
</tr>
<tr>
<td>breton</td>
<td>galician</td>
<td>latvian</td>
<td>russian</td>
<td>urdu</td>
</tr>
<tr>
<td>bulgarian</td>
<td>georgian</td>
<td>lithuanian</td>
<td>sami</td>
<td>uyghur</td>
</tr>
<tr>
<td>catalan</td>
<td>german</td>
<td>macedonian</td>
<td>sanskrit</td>
<td>vietnamese</td>
</tr>
<tr>
<td>chinese</td>
<td>greek</td>
<td>malay</td>
<td>serbian</td>
<td>welsh</td>
</tr>
<tr>
<td>coptic</td>
<td>hebrew</td>
<td>malayalam</td>
<td>slovak</td>
<td></td>
</tr>
<tr>
<td>croatian</td>
<td>hindi</td>
<td>marathi</td>
<td>slovenian</td>
<td></td>
</tr>
<tr>
<td>czech</td>
<td>hungarian</td>
<td>mongolian</td>
<td>sorbian</td>
<td></td>
</tr>
</tbody>
</table>

Version Notes The support for Amharic ← should be considered an experimental attempt to port the package ethiop; feedback is welcome. Version 1.1.1 ← added support for Asturian, Lithuanian, and Urdu. Version 1.2 ← introduced

\textsuperscript{2}Section 6 documents these options for the respective languages.
Armenian, Occitan, Bengali, Lao, Malayalam, Marathi, Tamil, Telugu, and Turkmen. Version 1.43 brought basic support for Japanese (this is considered experimental, feedback is appreciated). In version 1.45, support for Kurdish and Mongolian as well as some new variants (Canadian French and English) have been added. Furthermore, for consistency reasons, some language have been renamed (farsi→persian, friulan→friulian, magyar→hungarian, portuges→portuguese, samin→sami) or merged (bahasai/bahasam→malay, brazil/portuges→portuguese, lsorbian/usorbian→sorbian, irish/scottish→gaelic, norsk/nynorsk→norwegian). The old names are still supported for backwards compatibility reasons. Version 1.46 introduces support for Afrikaans, Belarusian, Bosnian and Georgian. Version 1.52 introduces support for Uyghur.

2.3 Relation to and use of Babel language names

If you are familiar with the babel package, you will note that polyglossia’s language naming slightly differs. Whereas babel has a unique name for each language variety (e.g., american and british), polyglossia differentiates language varieties via language options (e.g., english, variant=american).

Furthermore, babel sometimes uses abbreviated language names (e.g., bahasam for Bahasa Malayu) as well as endonyms, i.e., language names coming from the designated languages (such as bahasa, canadien or magyar). As opposed to this, polyglossia always uses spelled-out (lower-cased) English language names. Please refer to table 2 for the differing language names in both packages.

For convenience reasons, polyglossia also supports the use of babel names (for the few justified exceptions, please refer to the notes in table 2). The babel names listed in table 2 can be used instead of the corresponding polyglossia name/options in \setdefaultlanguage and \setotherlanguage as well as in the polyglossia and babel language switching commands/environments documented in section 3.1 and 3.2 (e.g., \textaustrian is synonymous to \textgerman[variant=austrian,spelling=old]). However, unless you have special reasons, we strongly encourage you to use the polyglossia names.

2.4 Using IETF language tags

Polyglossia also supports the use of language tags that conform to the IETF BCP-47 Best Current Practice. Thus, you can use tags such as en-68 (for British English) or de-AT-1901 (for Austrian German, old spelling) in \setdefaultlanguage and \setotherlanguage as well as in the language switching command \textlang{⟨tag⟩}, the environment \begin{lang}{⟨tag⟩}…

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3See acknowledgements at the end for due credit to the various contributors.

Table 2. Babel-polyglossia language name matching

<table>
<thead>
<tr>
<th>Babel name</th>
<th>Polyglossia name</th>
<th>Polyglossia options</th>
</tr>
</thead>
<tbody>
<tr>
<td>acadian french</td>
<td>variant=acadian</td>
<td></td>
</tr>
<tr>
<td>american english</td>
<td>variant=american</td>
<td>[default]</td>
</tr>
<tr>
<td>australian english</td>
<td>variant=australian</td>
<td></td>
</tr>
<tr>
<td>australian german</td>
<td>variant=austrian</td>
<td>spelling=old</td>
</tr>
<tr>
<td>bahasa malay</td>
<td>variant=indonesian</td>
<td>[default]</td>
</tr>
<tr>
<td>bahasam malay</td>
<td>variant=malaysian</td>
<td></td>
</tr>
<tr>
<td>brazil portuguese</td>
<td>variant=brazilian</td>
<td></td>
</tr>
<tr>
<td>british english</td>
<td>variant=british</td>
<td></td>
</tr>
<tr>
<td>canadian english</td>
<td>variant=canadian</td>
<td></td>
</tr>
<tr>
<td>canadien french</td>
<td>variant=canadian</td>
<td></td>
</tr>
<tr>
<td>classiclatin latin</td>
<td>variant=classic</td>
<td></td>
</tr>
<tr>
<td>farsi persian</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ecclesiasticlatin latin</td>
<td>variant=ecclesiastic</td>
<td></td>
</tr>
<tr>
<td>friulan friulian</td>
<td></td>
<td></td>
</tr>
<tr>
<td>germana german</td>
<td>spelling=old</td>
<td></td>
</tr>
<tr>
<td>irish gaelic</td>
<td>variant=irish [default]</td>
<td></td>
</tr>
<tr>
<td>kurmanji kurdish</td>
<td>variant=kurmanji</td>
<td></td>
</tr>
<tr>
<td>lowersorbian sorbian</td>
<td>variant=lower</td>
<td></td>
</tr>
<tr>
<td>magyar hungarian</td>
<td></td>
<td></td>
</tr>
<tr>
<td>medievallatin latin</td>
<td>variant=medieval</td>
<td></td>
</tr>
<tr>
<td>naustrian german</td>
<td>variant=austrian</td>
<td></td>
</tr>
<tr>
<td>newzealand english</td>
<td>variant=newzealand</td>
<td></td>
</tr>
<tr>
<td>ngerman german</td>
<td>variant=german [default]</td>
<td></td>
</tr>
<tr>
<td>norsk norwegian</td>
<td>variant=bokmal</td>
<td></td>
</tr>
<tr>
<td>nswissgerman german</td>
<td>variant=swiss</td>
<td></td>
</tr>
<tr>
<td>nynorsk norwegian</td>
<td>variant=nynorsk [default]</td>
<td></td>
</tr>
<tr>
<td>polutonikogreek greek</td>
<td>variant=polytonic</td>
<td></td>
</tr>
<tr>
<td>portuges portuguese</td>
<td>variant=portuguese [default]</td>
<td></td>
</tr>
<tr>
<td>samin sami</td>
<td></td>
<td></td>
</tr>
<tr>
<td>scottish gaelic</td>
<td>variant=scottish</td>
<td></td>
</tr>
<tr>
<td>serbianc serbian</td>
<td>script=Cyrillic</td>
<td></td>
</tr>
<tr>
<td>slovene slovenian</td>
<td></td>
<td></td>
</tr>
<tr>
<td>spanishmx spanish</td>
<td>variant=mexican</td>
<td></td>
</tr>
<tr>
<td>swissgerman german</td>
<td>variant=swiss, spelling=old</td>
<td></td>
</tr>
<tr>
<td>uppersorbian sorbian</td>
<td>variant=upper [default]</td>
<td></td>
</tr>
</tbody>
</table>

*Due to the name conflict only available in polyglossia as germanb (which is a babel synonym).
\end{lang} and the babel language switching commands/environments documented in section 3.2. Table 3 lists the currently supported tags.

<table>
<thead>
<tr>
<th>BCP-47 tag</th>
<th>Polyglossia name</th>
<th>Polyglossia options</th>
</tr>
</thead>
<tbody>
<tr>
<td>aeb</td>
<td>arabic</td>
<td>locale=tunisia</td>
</tr>
<tr>
<td>af</td>
<td>afrikaans</td>
<td></td>
</tr>
<tr>
<td>afb</td>
<td>arabic</td>
<td>locale=default</td>
</tr>
<tr>
<td>am</td>
<td>amharic</td>
<td></td>
</tr>
<tr>
<td>apd</td>
<td>arabic</td>
<td>locale=default</td>
</tr>
<tr>
<td>ar</td>
<td>arabic</td>
<td></td>
</tr>
<tr>
<td>ar-IQ</td>
<td>arabic</td>
<td>locale=mashriq</td>
</tr>
<tr>
<td>ar-JO</td>
<td>arabic</td>
<td>locale=mashriq</td>
</tr>
<tr>
<td>ar-LB</td>
<td>arabic</td>
<td>locale=mashriq</td>
</tr>
<tr>
<td>ar-MR</td>
<td>arabic</td>
<td>locale=mauritania</td>
</tr>
<tr>
<td>ar-PS</td>
<td>arabic</td>
<td>locale=mashriq</td>
</tr>
<tr>
<td>ar-SY</td>
<td>arabic</td>
<td>locale=mashriq</td>
</tr>
<tr>
<td>ar-YE</td>
<td>arabic</td>
<td>locale=default</td>
</tr>
<tr>
<td>arq</td>
<td>arabic</td>
<td>locale=algeria</td>
</tr>
<tr>
<td>ary</td>
<td>arabic</td>
<td>locale=morocco</td>
</tr>
<tr>
<td>arz</td>
<td>arabic</td>
<td>locale=default</td>
</tr>
<tr>
<td>ast</td>
<td>asturian</td>
<td></td>
</tr>
<tr>
<td>ayl</td>
<td>arabic</td>
<td>locale=libya</td>
</tr>
<tr>
<td>be</td>
<td>belarusian</td>
<td></td>
</tr>
<tr>
<td>be-tarask</td>
<td>belarusian</td>
<td>spelling=classic</td>
</tr>
<tr>
<td>bg</td>
<td>bulgarian</td>
<td></td>
</tr>
<tr>
<td>bn</td>
<td>bengali</td>
<td></td>
</tr>
<tr>
<td>bo</td>
<td>tibetan</td>
<td></td>
</tr>
<tr>
<td>br</td>
<td>breton</td>
<td></td>
</tr>
<tr>
<td>bs</td>
<td>bosnian</td>
<td></td>
</tr>
<tr>
<td>ca</td>
<td>catalan</td>
<td></td>
</tr>
<tr>
<td>ckb</td>
<td>kurdish</td>
<td>variant=sorani [default]</td>
</tr>
<tr>
<td>ckb-Arab</td>
<td>kurdish</td>
<td>variant=sorani, script=Arabic [default]</td>
</tr>
<tr>
<td>ckb-Latin</td>
<td>kurdish</td>
<td>variant=sorani, script=Latin</td>
</tr>
<tr>
<td>cop</td>
<td>coptic</td>
<td></td>
</tr>
<tr>
<td>cy</td>
<td>welsh</td>
<td></td>
</tr>
<tr>
<td>cz</td>
<td>czech</td>
<td></td>
</tr>
<tr>
<td>da</td>
<td>danish</td>
<td></td>
</tr>
<tr>
<td>de</td>
<td>german</td>
<td></td>
</tr>
<tr>
<td>de-AT</td>
<td>german</td>
<td>variant=austrian, spelling=new</td>
</tr>
<tr>
<td>de-AT-1901</td>
<td>german</td>
<td>variant=austrian, spelling=old</td>
</tr>
<tr>
<td>de-AT-1996</td>
<td>german</td>
<td>variant=austrian, spelling=new</td>
</tr>
<tr>
<td>de-CH</td>
<td>german</td>
<td>variant=swiss, spelling=new</td>
</tr>
<tr>
<td>de-CH-1901</td>
<td>german</td>
<td>variant=swiss, spelling=old</td>
</tr>
<tr>
<td>de-CH-1996</td>
<td>german</td>
<td>variant=swiss, spelling=new</td>
</tr>
</tbody>
</table>

Table 3. BCP47-polyglossia language name matching
Table 3. BCP47-polyglossia language name matching (continued)

<table>
<thead>
<tr>
<th>BCP-47 tag</th>
<th>Polyglossia name</th>
<th>Polyglossia options</th>
</tr>
</thead>
<tbody>
<tr>
<td>de-DE</td>
<td>german</td>
<td>variant=german, spelling=new</td>
</tr>
<tr>
<td>de-DE-1901</td>
<td>german</td>
<td>variant=german, spelling=old</td>
</tr>
<tr>
<td>de-DE-1996</td>
<td>german</td>
<td>variant=german, spelling=new [default]</td>
</tr>
<tr>
<td>de-Latf</td>
<td>german</td>
<td>script=blackletter</td>
</tr>
<tr>
<td>de-Latf-AT</td>
<td>german</td>
<td>variant=austrian, spelling=new, script=blackletter</td>
</tr>
<tr>
<td>de-Latf-AT-1901</td>
<td>german</td>
<td>variant=austrian, spelling=old, script=blackletter</td>
</tr>
<tr>
<td>de-Latf-AT-1996</td>
<td>german</td>
<td>variant=austrian, spelling=new, script=blackletter</td>
</tr>
<tr>
<td>de-Latf-CH</td>
<td>german</td>
<td>variant=swiss, spelling=new, script=blackletter</td>
</tr>
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<td>de-Latf-CH-1901</td>
<td>german</td>
<td>variant=swiss, spelling=old, script=blackletter</td>
</tr>
<tr>
<td>de-Latf-CH-1996</td>
<td>german</td>
<td>variant=swiss, spelling=new, script=blackletter</td>
</tr>
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<td>de-Latf-DE</td>
<td>german</td>
<td>variant=german, spelling=new, script=blackletter</td>
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<tr>
<td>de-Latf-DE-1901</td>
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<tr>
<td>de-Latf-DE-1996</td>
<td>german</td>
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<td>dv</td>
<td>divehi</td>
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</tr>
<tr>
<td>el</td>
<td>greek</td>
<td></td>
</tr>
<tr>
<td>el-monoton</td>
<td>greek</td>
<td>variant=monotonic [default]</td>
</tr>
<tr>
<td>el-polyton</td>
<td>greek</td>
<td>variant=polytononic</td>
</tr>
<tr>
<td>en</td>
<td>english</td>
<td>variant=australian</td>
</tr>
<tr>
<td>en-AU</td>
<td>english</td>
<td>variant=canadian</td>
</tr>
<tr>
<td>en-GB</td>
<td>english</td>
<td>variant=british</td>
</tr>
<tr>
<td>en-NZ</td>
<td>english</td>
<td>variant=newzealand</td>
</tr>
<tr>
<td>en-US</td>
<td>english</td>
<td>variant=us [default]</td>
</tr>
<tr>
<td>eo</td>
<td>esperanto</td>
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</tr>
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<td>spanish</td>
<td></td>
</tr>
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<td>spanish</td>
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<td>es-MX</td>
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<td>variant=mexican</td>
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<td></td>
</tr>
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</tr>
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<td>fr-CA-u-sd-canb</td>
<td>french</td>
<td>variant=acadian</td>
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</table>
Table 3. BCP47-polyglossia language name matching (continued)

<table>
<thead>
<tr>
<th>BCP-47 tag</th>
<th>Polyglossia name</th>
<th>Polyglossia options</th>
</tr>
</thead>
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<tr>
<td>fr-CH</td>
<td>french</td>
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</tr>
<tr>
<td>fr-FR</td>
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<tr>
<td>ga</td>
<td>gaelic</td>
<td>variant=irish [default]</td>
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<td>gd</td>
<td>gaelic</td>
<td>variant=scottish</td>
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<tr>
<td>gl</td>
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<td>hindi</td>
<td></td>
</tr>
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<td>hr</td>
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</tr>
<tr>
<td>kmr-Latn</td>
<td>kurdish</td>
<td>variant=kurmanji, script=Latin</td>
</tr>
<tr>
<td>kn</td>
<td>kannada</td>
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<tr>
<td>la</td>
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<tr>
<td>la-x-classic</td>
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</tr>
<tr>
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<td>latin</td>
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</tr>
<tr>
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<td>variant=medieval</td>
</tr>
<tr>
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<td>norwegian</td>
<td>variant=nynorsk [default]</td>
</tr>
<tr>
<td>oc</td>
<td>occitan</td>
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<td>BCP-47 tag</td>
<td>Polyglossia name</td>
<td>Polyglossia options</td>
</tr>
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<td>-----------------</td>
<td>---------------------</td>
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<td>punjabi</td>
<td>numerals=gurmukhi</td>
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<td>variant=traditional</td>
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<tr>
<td>zh-TW</td>
<td>chinese</td>
<td></td>
</tr>
<tr>
<td>zsm</td>
<td>malay</td>
<td>variant=malaysian</td>
</tr>
</tbody>
</table>
2.5 Global options

Polyglossia can be loaded with the following global package options:

- **babelshorthands ← = *true or false**
  Globally activates babel shorthands whenever available. Such shorthands are implemented currently for Afrikaans, Belarusian, Catalan, Croatian, Czech, Dutch, Finnish, Georgian, German, Italian, Latin, Mongolian, Russian, Slovak, and Ukrainian. Please refer to the respective language descriptions (sec. 6) for details.

- **localmarks = *true or false**
  Redefines the internal \texttt{\LaTeX} macros \texttt{\markboth and \markright} to the effect that the header text is explicitly set in the currently active language (i.e., wrapped into \texttt{\foreignlanguage{⟨lang⟩}{⟨…⟩}}).
  In earlier versions of polyglossia, ← this option was enabled by default, but we now realize that it causes more problems than it helps (since it breaks if a package or class redefines \markboth or \markright), so it is now disabled by default. For backwards compatibility, the option nolocalmarks which used to switch off the previous default, and now equals the default, is still available.

- **luatexrenderer ← = ⟨renderer⟩ (default value: Harfbuzz)**
  Determines which font renderer is used with Lua\TeX output. The correct font renderer is essential particularly for non-Latin scripts. By default, polyglossia uses the Harfbuzz renderer that has been introduced to Lua\TeX in 2019 (\TeXLive 2020), as this gives the best results generally. If you want to use a different renderer, you can specify this here (or individually for specific fonts via the optional argument of the font selection commands). Please refer to the fontspec manual for supported values and for details on how to change the renderer for individual fonts.
  \texttt{luatexrenderer=none} disables polyglossia’s automatic renderer setting.

- **verbose = *true or false**
  Determines whether info messages and (some of the) warnings issued by \LaTeX, fontspec and polyglossia are output.

3 Language-switching commands

3.1 Recommended commands

For each activated language the command \texttt{\text⟨lang⟩{⟨options⟩}{⟨…⟩}} (as well as the synonymous \texttt{\textlang⟨lang⟩⟨options⟩}{⟨…⟩} ←) becomes available for short insertions of text in that language.

For example \texttt{\textrussian{\today}} and \texttt{\textlang{russian}{\today}} yield 1 октября 2023 г. The commands switch to the correct hyphenation patterns,
they activate some extra features for the selected language (such as extra spacing
before punctuation in French), and they translate the date when using \today.
They do not, however, translate so-called caption strings, i.e., “chapter”, “figure”
etc., to the local language (these remain in the currently active ‘outer’ language).

The environment \langle lang \rangle, which is also available for any activated language
(as well as the equivalent \begin{lang}\langle options \rangle\{\langle lang \rangle\} ... \end{lang} \langle lang \rangle),
is meant for longer passages of text. It behaves slightly different than the
\textlangle lang \rangle and \textlang commands: It does everything the latter do, but
additionally, the caption strings are translated as well, and the language is also
passed to auxiliary files, the table of contents and the lists of figures/tables. Like
the commands, the environment provides the possibility of setting language op-
tions locally. For instance the following allows us to quote the beginning of
Homer’s \textit{Iliad}:

\begin{quote}
\begin{greek}[variant=ancient]

μῆνιν ἄειδε θεά Πηληϊάδεω Αχιλής οὐλομένην, ἢ μυρί' Ἀχαιοῖς ἱλγε' ἔθηκε, πολλάς δ' ἱφθίμους ψυχὰς Ἀτρεί̈δης τε ἄναξ ἀνδρῶν καὶ δίος Ἀχιλλεύς.

\end{greek}
\end{quote}

Note that for Arabic one cannot use the environment \texttt{arabic}, as \texttt{arabic} is
defined internally by \texttt{LATEX}. In this case we need to use the environment \texttt{Arabic}
instead.

\subsection{Babel commands}

Some macros defined in babel’s \texttt{hyphen.cfg} (and thus usually compiled into the
\texttt{XeLATEX} and \texttt{LuaLaTEX} format) are redefined, but keep a similar behaviour.

\begin{itemize}
\item \selectlanguage[\langle options \rangle]{\langle lang \rangle}
\item \foreignlanguage[\langle options \rangle]{\langle lang \rangle}{\langle \ldots \rangle}
\item \begin{otherlanguage}[\langle options \rangle]{\langle lang \rangle}
\item \end{otherlanguage}
\item \begin{otherlanguage*}[\langle options \rangle]{\langle lang \rangle}
\item \end{otherlanguage*}
\end{itemize}
The \begin{hyphenrules} environment only switches the hyphenation patterns to the one associated with the language \langle lang \rangle (or the language variety as specified via \langle options \rangle). It does no further language-specific change.

Since the X\LaTeX{} and Lua\LaTeX{} format incorporate babel’s hyphen.cfg, the low-level commands for hyphenation and language switching defined there are in principal also accessible. Note, however, that the availability of such low-level commands is not guaranteed, as hyphen.cfg, which is out of polyglossia’s control, is (or at least has been) subject to regular change.

### 3.3 Other commands

The following commands are probably of lesser interest to the end user, but ought to be mentioned here.

- \selectbackgroundlanguage{\langle lang \rangle}: this selects the global font setup and the numbering definitions for the default language.
- \resetdefaultlanguage[\langle options \rangle]{\langle lang \rangle} (experimental): Switches the default language to another one in the middle of a document: \textit{this may have adverse effects}!
- \normalfontlatin: in an environment where \normalfont has been re-defined to a non-latin script, this will reset to the font defined with \setmainfont etc. In a similar vein, it is possible to use \rmfamilylatin, \sffamilylatin, and \ttfamilylatin.
- \latinalph: Representation of counter as a lower-case letter: 1 = a, 2 = b, etc.
- \latinAlph: Representation of counter as a upper-case letter: 1 = A, 2 = B, etc.

### 3.4 Setting up alias commands

By means of the macro \setlanguagealias{\langle language \rangle}{\langle alias \rangle}

\begin{verbatim}
\setlanguagealias[\langle options \rangle]{\langle language \rangle}{\langle alias \rangle}
\end{verbatim}

you can define alias commands for specific language (variants). E.g.,

\begin{verbatim}
\setlanguagealias[variant=austrian]{german}{AT}
\end{verbatim}

will define a command \textAT as well as an environment \{AT\} which will link towards the command \textgerman[variant=austrian] and the environment
The aliases can also be used in the language switching commands described in section 3.1 and 3.2. Note, though, that the usual restrictions for command names apply, so something such as de-AT or de_AT will not work since - and _ are not allowed in command names (the same holds true for any non-ASCII character and for digits).

For the latter case, and for the case where an alias would clash with an existing command (e.g., \fi) or a \text{} command (e.g., \textit), a starred version \setlanguagealias* is provided which does neither define a \text{.alias} command nor an alias environment, but which will set up the alias for everything else, including \textlang{alias} and \begin{lang}{alias}.

Polyglossia comes with some aliases predefined, namely aliases for babel language names (see sec. 2.3) and for IETF BCP-47 language tags (the latter via \setlanguagealias*; see sec. 2.4).

4 Font setup

With polyglossia it is possible to associate a specific font with any script or language that occurs in the document. That font should always be defined as \langle script \rangle font or \langle language \rangle font. For instance, if the default font defined by \setmainfont does not support Greek, then one can define the font used to display Greek with:

\newfontfamily\greekfont[Script=Greek]{font}.

Note that polyglossia will use the font defined as is, so assure to do all necessary settings (please refer to the fontspec documentation for details). For instance, if \arabicfont is explicitly defined, then the option Script=Arabic should be included in that definition.

If a specific sans serif or monospace ('teletype') font is needed for a particular script or language, it can be defined by means of ← \langle script \rangle fonts or \langle language \rangle fontsf and \langle script \rangle fonttt or \langle language \rangle fontttt, respectively.

Whenever a new language is activated, polyglossia will first check whether a font has been defined for that language or – for languages in non-Latin scripts – for the script it uses. If it is not defined, it will use the currently active font and – in the case of OpenType fonts – will attempt to turn on the appropriate OpenType tags for the script and language used, in case these are available in the font, by means of fontspec’s \addfontfeature. If the current font does not appear to support the script of that language, an error message is displayed.

5 Adapting hyphenation
5.1 Hyphenation exceptions

\TeX\ provides the command \texttt{\hyphenation{(exceptions)}} to globally define hyphenation exceptions which override the hyphenation patterns for specified words. The command takes as argument a space-separated list of words where hyphenation points are marked by a dash (if no dash is used, the respective word is not hyphenated at all):

\begin{verbatim}
\hyphenation{\%
polyglossia \LaTeX}
\end{verbatim}

These exceptions, however, apply to all languages. In addition to this, \texttt{polyglossia} provides the command \texttt{\pghyphenation[⟨options⟩]{⟨lang⟩}{⟨exceptions⟩}} which can be used to define exceptions that only apply to a specific language or language variant, respectively.

5.2 Hyphenation thresholds

\texttt{Polyglossia} sets reasonable defaults for the hyphenation thresholds of each language, i.e., the number of characters that must at least be there at the beginning or end of a word before it is hyphenated (\texttt{\lefthyphenmin} and \texttt{\righthyphenmin} in \TeX). For instance, with English, this threshold is 2 at the beginning (‘left’) and 3 at the end (‘right’), so a word will not be hyphenated within the first two characters at the beginning and the last three characters at the end.

To change this value, \texttt{polyglossia} provides the command \texttt{\setlanghyphenmins[⟨options⟩]{⟨lang⟩}{⟨l⟩}{⟨r⟩}} where \texttt{⟨lang⟩} is to be replaced with the respective language name or alias, \texttt{⟨options⟩} can be used to delimit the modification to a particular variety (e.g., via variant or spelling), \texttt{⟨l⟩} with the left threshold value (e.g., 3), and \texttt{⟨r⟩} with the right one (e.g., \texttt{\setlanghyphenmins[spelling=old]{german}{4}{4}}). This setting can be changed repeatedly in the preamble and the document body. It applies to all subsequent text in the respective language (variety), but only after the next language switch.

5.3 Hyphenation disabling

In some very specific contexts (such as music score creation), \TeX\ hyphenation is something to avoid completely as it may cause troubles. \texttt{Polyglossia} provides two functions: \texttt{\disablehyphenation} and \texttt{\enablehyphenation}. Note that if you select a new language while hyphenation is disabled, it will remain disabled. If you re-enable it, the hyphenation patterns of the currently selected language will be activated.
6 Language-specific options and commands

This section gives a list of all languages for which options and end-user commands are defined. Note the following conventions:

- The preset value of each option (i.e., the setting that applies by default, if the option is not explicitly set) is given in italics.
- If an option key may be used without a value, the value that applies for value-less keys is marked by a preceding asterisk.

For instance, babelshorthands = *true or false means that babelshorthands is false by default in the respective language, and that passing babelshorthands (without value) is equivalent to passing babelshorthands=true.

6.1 afrikaans

Options:

- babelshorthands ← = *true or false

  If this is turned on, the following shorthands defined for fine-tuning hyphenation and micro-typography of Afrikaans words are activated:

  "-  adds a hyphenation point that does still allow for hyphenation at the points preset in the hyphenation patterns (as opposed to \- in default \TeX).

  "~  for a hyphen sign without a breakpoint. Useful for cases where the hyphen should stick at the following syllable.

  "|  disables a ligature at this position.

  "|  allows for a line break at this position (without hyphenation sign).

  "/  a slash that allows for a subsequent line break. As opposed to \slash, hyphenation at the breakpoints preset in the hyphenation patterns is still allowed.

6.2 arabic

Options:

- calendar = gregorian or islamic (= hijri)
- hijricorrection = (integer) (default value: 0)

  If calendar=hijri or calendar=islamic is selected, \today will output the date according to the lunar Islamic (Hijra) calendar. This option allows to shift the day of the output with respect to the current date. Both positive and negative integer values are allowed (negative decrease the day value). This corresponds to the optional argument of the \Hijritoday command which can be used to output Hijri dates irrespective of the calendar option (see sec. 10.2).
• **locale** = *default*, mashriq, libya, algeria, tunisia, morocco, mauritania
  This setting influences the spelling of the month names for the Gregorian calendar, as well as the form of the numerals (unless overridden by the following option). Recommended settings are *default* for Egypt, Sudan, Yemen and the Gulf states, and *mashriq* for Iraq, Syria, Jordan, Lebanon and Palestine.

• **numerals** = *mashriq* (= eastern ←) or *maghrib* (= western ←)
  Use Eastern Arabic (a.k.a. Indic-Arabic) numerals (*mashriq* or eastern) or Western numerals (*maghrib* or western). The latter is the default when locale=*algeria*, *tunisia*, or *morocco*, the former is the default with all other Arabic locales.

• **sectionsep** ← *(code)* (default value: .)
  This option allows to customize the separator between chapters, sections, and subsections (a dot by default), e.g., `sectionsep=-`. This might be useful particularly with **numerals=mashriq** or eastern, as the dot looks too similar to the zero in many fonts.

• **abjadalph** ← *true* or *false*
  Set this to true if you want the alphabetic counters to be output using `\abjadalph` rather than `\abjad`. Note that this limits the counter scope to 28 (see `\abjadalph` below).

• **abjadnimnotail** ← *true* or *false*
  Set this to true if you want the `abjad` form of the number three to be ج – as in the manuscript tradition – instead of the modern usage چ.

**Commands:**

• `\abjad` outputs Arabic `abjad` numbers according to the Mashriq varieties. Example: `\abjad(1863)` yields غضسج.

• `\abjadmaghribi` outputs Arabic `abjad` numbers according to the Maghrib varieties. Example: `\abjadmaghribi(1863)` yields شظصج.

• `\abjadalph` ← steps through the Arabic alphabet, thus it can only be used up to 28. Example: `\textarabic{\abjadalph(18)}` yields ص.

• `\aemph` to emphasize text with `\overline`. Example: `\textarabic{\aemph{اب}}` yields اَب. This command is also available for Farsi, Urdu, etc.

### 6.3 armenian

**Options:**

• **variant** ← *eastern* or *western*

• **numerals** ← *armenian* or *arabic*

• **capitalyiwn** ← *true* or *false*
  If this is set to true, `\MakeUppercase` will upcase the ligature of letters ech and yiwn to capital ech and yiwn. This conforms to the output outside Ar-
menian language selection. By default (and with this option set to false), \MakeUpperCase upcases the ech and yiwn ligature to capital ech and vew, adhering to Armenian reformed spelling regulations. Note that this feature requires \LaTeX kernel 2023/06 at least.

6.4 belarusian ←

Options:

- **babelshorthands** = *true or false*
  
  If this is turned on, the following shorthands are activated:

  - " - adds a hyphenation point that does still allow for hyphenation at the points preset in the hyphenation patterns (as opposed to \-).
  - "= adds an explicit hyphen with a breakpoint, allowing for hyphenation at the other points preset in the hyphenation patterns (as opposed to plain \-).
  - "~ for a hyphen sign without a breakpoint. Useful for cases where the hyphen should stick at the following syllable.
  - " | disables a ligature at this position.
  - " " allows for a line break at this position (without hyphenation sign).
  - ", thinspace for initials with a breakpoint in following surname.
  - "' for German left double quotes (looks like „).
  - "’ for German right double quotes (looks like ”).
  - ": for French left double quotes (looks like «).
  - ":> for French right double quotes (looks like »).

  There are also three shorthands for the Cyrillic dash (тире), which is shorter than the emdash but longer than the endash (namely 0.8 em). Note that, since it is not covered by unicode, this character is faked by telescoping two endashes:

  - "--- Cyrillic dash for the use in normal text. This requires preceding space in input (trailing space is optional) and prints with a non-breakable thin space before and after the dash.
  - "--- Cyrillic dash for the use in compound names (surnames). As opposed to "--- this removes any space before and after the dash.
  - "--- Cyrillic dash for denoting direct speech. This adds a larger space after the dash. Space before the dash is output as is.

- **numerals** = arabic, cyrillic-alph or cyrillic-trad

  Uses either Arabic numerals or Cyrillic alphanumerical numbering. The two Cyrillic variants differ as follows:
• cyrillic-alph steps through the Cyrillic alphabet. Thus it can only be used up to 30.
• cyrillic-trad (= cyrillic) uses a traditional Cyrillic alphanumerical system.\textsuperscript{5} It supports numbers up to 999 999.
• spelling = modern or classic (= tarask)
With spelling=classic, captions and dates adhere to the Taraškievica (or Belarusian classical) orthography rather than the standard orthography.

Commands:
\texttt{\textbackslash Asbuk}

• \texttt{\Asbuk}: produces uppercased Cyrillic alphanumerals, for environments such as enumerate. It steps through the Cyrillic alphabet and thus it can only be used up to 30. The command takes a counter as argument, e.g., \texttt{\textbelarusian{\Asbuk{page}}} produces P.

\texttt{\textbackslash asbuk}

• \texttt{\asbuk}: same as \texttt{\Asbuk} but in lowercase.

\texttt{\textbackslash AsbukTrad}

• \texttt{\AsbukTrad}: same as \texttt{\Asbuk} but using the traditional Cyrillic alphanumerical numbering which supports numbers up to 999 999.\texttt{\textbelarusian{\AsbukTrad{page}}} produces K.

\texttt{\textbackslash asbukTrad}

• \texttt{\asbukTrad}: same as \texttt{\AsbukTrad} but in lowercase.

6.5 bengali \v1.2.0

Options:
• numerals = western, bengali, or devanagari
• changecounternumbering = *true or false
  Use specified numerals for headings and page numbers.

6.6 catalan \v1.1.1

Options:
• babelshorthands \v1.1.1 \leftarrow = *true or false
  Activates the shorthands "l and "L to type geminated l or L.

Commands:
\texttt{\textbackslash l.L}

• \l. l and \l. L \leftarrow can be used to type a geminated l, as in colaborar, similar to babel (the glyph U+00B7 MIDDLE DOT is used as a geminating sign).

6.7 chinese \v1.59

Options:
• variant = simplified (= cn), or traditional (= tw)

\textsuperscript{5}See https://en.wikipedia.org/wiki/Cyrillic_numerals.
numerals = arabic or chinese

Uses either Arabic numerals or Chinese ideographic numbering.

Commands:

\chinesenumeral   \chinesenumeral (see section 8.3).

6.8 croatian

Options:

babelshorthands ← = *true or false

If this is turned on, the following shorthands for fine-tuning hyphenation and micro-typography of Croatian words are activated.

| for a ligature at this position.

= for an explicit hyphen with a breakpoint, allowing for hyphenation at the other points preset in the hyphenation patterns (as opposed to plain -).

~ for a hyphen sign without a breakpoint. Useful for cases where the hyphen should stick at the following syllable.

- adds a hyphenation point that does still allow for hyphenation at the points preset in the hyphenation patterns (as opposed to \-).

" " allows for a line break at this position (without hyphenation sign).

/ a slash that allows for a subsequent line break. As opposed to \slash, hyphenation at the breakpoints preset in the hyphenation patterns is still allowed.

Furthermore, the following shorthands generate easy access to Croatian digraphs:

"dz Generates the digraph dž if the font provides it. If not, the two consecutive glyphs are output mimicking the digraph. Also available for "dz (Dž) and "DZ (DŽ).

"lj Generates the digraph lj if the font provides it. If not, the two consecutive glyphs are output mimicking the digraph. Also available for "Lj (Lj) and "LJ (LJ).

"nj Generates the digraph nj if the font provides it. If not, the two consecutive glyphs are output mimicking the digraph. Also available for "Nj (Nj) and "NJ (NJ).

Finally, there are also four shorthands for quotation marks:

" for Croatian left double quotes ("),

"" for Croatian right double quotes (").
"> for Croatian left guillemets (»).
"< for Croatian right guillemets («).

- **disabledigraphs** \textsuperscript{*} \leftarrow \text{*true or false}

  If this is true, all Croatian digraphs (such as \textit{dž}) will be replaced by the two consecutive letters, which is the most common way of typesetting them in Croatian. This can be useful if the Unicode digraphs in your font are broken (if the font does not have them, they are automatically mimicked by the two consecutive glyphs).

- **localalph** \leftarrow \text{*true or false}

  If true, alphanumeric counters will use a locally established version which excludes the characters (q), (w), (x) and (y) from alphabetic counting. Obviously this limits the counting range to 22.

- **splithyphens** \leftarrow \text{*true or false}

  According to Croatian typesetting conventions, if a word with a hard hyphen (such as \textit{hrvatsko-engleski}) is hyphenated at this hyphen, a second hyphenation character is to be inserted at the beginning of the line that follows the hyphenation (\textit{hrvatsko-/-engleski}). By default, this is done automatically (if you are using Lua\TeX, the \texttt{luavlna} package is loaded to achieve this). Set this option to \texttt{false} to disable the feature.

### 6.9 czech

**Options:**

- **babelshorthands** \leftarrow \text{*true or false}

  If this is turned on, the following shorthands for Czech are activated:

  " for an explicit hyphen sign which is repeated at the beginning of the next line when hyphenated, as common in Czech typesetting (only needed with \texttt{splithyphens=false}).

  "' for Czech left double quotes („).

  "' for Czech right double quotes (“).

  "> for Czech left double guillemets (»).

  "< for Czech right double guillemets («).

- **splithyphens** \leftarrow \text{*true or false}

  According to Czech typesetting conventions, if a word with a hard hyphen (such as \textit{je-li}) is hyphenated at this hyphen, a second hyphenation character is to be inserted at the beginning of the line that follows the hyphenation (\textit{je-/-li}). By default, this is done automatically \leftarrow (if you are using

\begin{footnotesize}
\footnotesize
\begin{itemize}
\item[^{6}] Up to version 1.53, the option was called \texttt{disableligatures}. The old option is kept for backwards compatibility, but the use is discouraged.
\end{itemize}
\end{footnotesize}
Lua\TeX, the luavlna package is loaded to achieve this). Set this option to false to disable the feature.

\textbf{vlna} ← *true or false

According to Czech typesetting conventions, single-letter words (non-syllable prepositions) must not occur at line ends. Polyglossia takes care of this automatically by default ← (if you are using Lua\TeX, the luavlna package is loaded to achieve this). Set this option to false to disable the feature.

6.10 dutch

Options:

\textbf{tremahyphenation} ← *true or false

Following Dutch orthography, words with tremata (such as geëxecuteerd) lose the trema on hyphenation before the trematized letter (ge-executeerd). This is achieved by polyglossia by making those letters active. If you set this option to false, this mechanism is deactivated (and the hyphenation wrong, but you can still use the babelshorthands mentioned below).

\textbf{babelshorthands} ← *true or false

If this is turned on, the following shorthands defined for fine-tuning hyphenation and micro-typography of Dutch words are activated:

"a ← an (ä) (a with trema) which is hyphenated as (-a) as required by the Dutch standards. Also implemented for the other vowels (e, i, o, u), both lower and uppercase.

"y ← the ij ligature.

"Y ← the IJ ligature.

"- adds a hyphenation point that does still allow for hyphenation at the points preset in the hyphenation patterns (as opposed to \- in default \TeX).

"~ for a hyphen sign without a breakpoint. Useful for cases where the hyphen should stick at the following syllable.

" | disables a ligature at this position.

" " allows for a line break at this position (without hyphenation sign).

"/ a slash that allows for a subsequent line break. As opposed to \texttt{\slash}, hyphenation at the breakpoints preset in the hyphenation patterns is still allowed.

\texttt{-} In addition, the macro \texttt{-} is redefined to allow hyphens in the rest of the word (equivalent to ".-.").
6.11  english

Options:

- **variant** = american (= us), usmax (same as american but with additional hyphenation patterns), british (= uk), australian, canadian ←, or newzealand
- **ordinalmonthday** = *true or false
  The default value is true for variant=british.

6.12  esperanto

Commands:

- \hodiau and \hodiaun are special forms of \today. The former produces the date in Esperanto preceded by the article (la), which is the most common date format. The latter produces the same date format in accusative case.

6.13  finnish

Options:

- **babelshorthands** ← = *true or false
  If this is turned on, the following shorthands for fine-tuning hyphenation and micro-typography of Finnish words are activated:

  "-   adds a hyphenation point that does still allow for hyphenation at the points preset in the hyphenation patterns (as opposed to \-).
  "~   for a hyphen sign without a breakpoint. Useful for cases where the hyphen should stick at the following syllable.
  "|   disables a ligature at this position.
  "=" allows for a line break at this position (without hyphenation sign).
  "/   a slash that allows for a subsequent line break. As opposed to \slash, hyphenation at the breakpoints preset in the hyphenation patterns is still allowed.

- **schoolhyphens** ← = *true or false
  If this is set to true, alternative (experimental) hyphenation patterns are used rather than the default Finnish patterns. These (so-called ‘School’) patterns allow hyphenation at all valid points, including hyphenation points that are considered sub-optimal from an ortho-typographic point of view (e.g., hyphenation between two vowels). The default patterns try to prevent such hyphenation, with the drawback that simple words are sometimes not being hyphenated at points where this would be valid. See https://github.com/hyphenation/basic-finnish for details.
6.14 french

Options:

- **variant** = french, canadian, acadian ← or swiss ←
  
  Currently, the only difference between the four variants is that swiss uses thincolonspace=true by default since this conforms to the Swiss conventions.

- **autospacing** = *true or false
  
  One of the most distinct features of French typography is the addition of extra spacing around punctuation and quotation marks (guillemets). By default, polyglossia adds these spaces automatically, so you don’t need to enter them. This options allows you to switch this feature off globally.

- **thincolonspace** ← = *true or false
  
  With variant=swiss, the default value is true. If false, a full (non-breaking) interword space is inserted before a colon. If true, a thinner space – as before ; , !, and ? – is used. Note that this option must be set after the variant option.

- **autospacenguillemets**\(^1\) = *true or false
  
  If you only want to disable the automatic addition of spacing after opening and before closing guillemets (and not at punctuation), set this to false. Note that the more general option autospacing overrides this.

- **autospacetypewriter**\(^2\) ← = *true or false
  
  By default, automatic spacing is disabled in typewriter font. If this is enabled, spacing in typewriter context is the same as with roman and sans serif font, depending on the autospacing and autospacenguillemets settings (note that this was the default up to v. 1.44).

- **frenchfootnote** = *true or false
  
  If true, footnotes start with a non-superscripted number followed by a dot, as common in French typography. Note that this might interfere with the specific footnote handling of classes or packages. Also note that this option is only functional (by design) if French is the main language.

- **frenchitemlabels** ← = *true or false
  
  If true, itemize item labels use em-dashes throughout, as common in French typography. Note that this option is only functional (by design) if French is the main language. Also, it might interfere with list packages such as enumitem.

- **frenchpart** ← = *true or false
  
  By default, polyglossia modifies part headings to match French conventions (Première partie rather than Partie I). Next to the standard classes,

---

\(^1\)Up to version 1.44, the option was called automaticspacesaroundguillemets. For backwards compatibility reasons, the more verbose old option is still supported.

\(^2\)Babel’s syntax OriginalTypewriter is also supported.
specifics of KOMA-script, memoir and the titlesec package are taken into account. With other classes or packages, redefinition might fail if these have particular part settings. In such case, or if you don’t want the re-definition, you can switch off the feature by passing `false` to this option.

- **itemlabels** ← (code) (default value: `\textendash`)
  If `frenchitemlabels` is true, you can customize here the used item label of all levels.

- **itemlabeli** ← (code) (default value: `\textendash`)
  If `frenchitemlabels` is true, you can customize here the used item label of the first level.

- **itemlabelii** ← (code) (default value: `\textendash`)
  If `frenchitemlabels` is true, you can customize here the used item label of the second level.

- **itemlabeliii** ← (code) (default value: `\textendash`)
  If `frenchitemlabels` is true, you can customize here the used item label of the third level.

- **itemlabeliv** ← (code) (default value: `\textendash`)
  If `frenchitemlabels` is true, you can customize here the used item label of the fourth level.

**Commands:**

- **\NoAutoSpacing** ← disables automatic spacing around punctuation and quotation marks in all following text. The command can also be used locally if braces are used for grouping: `{\NoAutoSpacing foo:bar}

- **\AutoSpacing** ← enables automatic spacing around punctuation and quotation marks in all following text. The command can also be used locally if braces are used for grouping: `{\AutoSpacing regarde!}

6.15 gaelic ←

**Options:**
- **variant** = `irish` or `scottish`

6.16 georgian ←

**Options:**
- **babelshorthands** = `true` or `false`
  If this is turned on, the following shorthands are activated:
  
  `\-` adds a hyphenation point that does still allow for hyphenation at the points preset in the hyphenation patterns (as opposed to `\-`).

  `\=` adds an explicit hyphen with a breakpoint, allowing for hyphenation at the other points preset in the hyphenation patterns (as opposed to
plain -).
"~- for a hyphen sign without a breakpoint. Useful for cases where the hyphen should stick at the following syllable.
"| disables a ligature at this position.
"=" allows for a line break at this position (without hyphenation sign).
"." thinspace for initials with a breakpoint in following surname.
"'" for German-style left double quotes (looks like „).
"'" for German-style right double quotes (looks like „).
"<' for French-style left double quotes (looks like «).
">" for French-style right double quotes (looks like »).

There are also three shorthands for the Cyrillic dash (тире), which is shorter than the emdash but longer than the endash (namely 0.8 em). Note that, since it is not covered by unicode, this character is faked by telescoping two endashes:
"--- Cyrillic dash for the use in normal text. This requires preceding space in input (trailing space is optional) and prints with a non-breakable thin space before and after the dash.
"--- Cyrillic dash for the use in compound names (surnames). As opposed to "--- this removes any space before and after the dash.
"--* Cyrillic dash for denoting direct speech. This adds a larger space after the dash. Space before the dash is output as is.

- **numerals = arabic or georgian**
  Uses either Arabic numerals or Georgian alphanumerical numbering.
- **oldmonthnames = *true or false**
  Uses traditional Georgian month names.

### 6.17 german

**Options:**

- **variant = german, austrian, or swiss**
  Setting variant=austrian or variant=swiss uses some lexical variants. With spelling=old, variant=swiss furthermore loads specific hyphenation patterns.
- **spelling = new (= 1996) or old (= 1901)**
  Indicates whether hyphenation patterns for traditional (1901) or reformed (1996) orthography should be used. The latter is the default.
- **capitaleszett = *true or false**
  If this is set to true, \MakeUppercase will upcase the eszett character ⟨ß⟩ to the capital counterpart ⟨ẞ⟩ that has been introduced to Unicode in 2008
and standardized in German regulations in 2017, rather than ⟨SS⟩. Note
that this feature requires \TeX kernel 2023/06 at least and a font that con-
tains the respective glyph.

- \texttt{script} ← = \texttt{latin} or \texttt{blackletter} ← (= \texttt{fraktur})
  Setting \texttt{script=blackletter} adapts the captions for typesetting German
  in blackletter type, using the ‘long s’ ⟨ſ⟩ where appropriate.

- \texttt{babelshorthands} ← = *true or \texttt{false}
  If this is turned on, all shorthands defined in \texttt{babel} for fine-tuning hyphen-
  ation and micro-typography of German words are activated.

  "ck" for \texttt{ck} to be hyphenated as k-k (1901 spelling).

  "ff" for \texttt{ff} to be hyphenated as \texttt{ff-f} (1901 spelling); this is also available
  for the letters l, m, n, p, r and t.

  "|" disables a ligature at this position (e.g., \texttt{Auf|lage}).

  ":" for an explicit hyphen with a breakpoint, allowing for hyphenation
  at the other points preset in the hyphenation patterns (as opposed to
  plain -).

  "~-" for a hyphen sign without a breakpoint. Useful for cases where the
  hyphen should stick at the following syllable, e.g., \texttt{bergauf und ~ab}.

  "~" adds a hyphenation point that does still allow for hyphenation at the
  points preset in the hyphenation patterns (as opposed to \texttt{\-}).

  ":=" allows for a line break at this position (without hyphenation sign); e.g.,
  \texttt{(pseudo~\-)*wissenschaftlich}.

  ":/" a slash that allows for a subsequent line break. As opposed to \texttt{\slash},
  hyphenation at the breakpoints preset in the hyphenation patterns is
  still allowed.

There are also four shorthands for quotation signs:

  "=" for German-style left double quotes („)

  ":" for German-style right double quotes (“)

  ":<" for French-style left double quotes («)

  ":>" for French-style right double quotes (»).

6.18 \texttt{greek}

Options:

- \texttt{variant} = \texttt{monotonic} (= \texttt{mono}), \texttt{polytonic} (= \texttt{poly}), or \texttt{ancient}

- \texttt{numerals} = \texttt{greek} or \texttt{arabic}

- \texttt{capitaliota} ← = *true or \texttt{false}
  If this is set to true, \texttt{\MakeUppercase} will upcase the \texttt{ypogegrammeni} (sub-
  script muted iota) to capital iota. By default (and with this option set to

28
false). \MakeUppercase retains the subscript versions. Note that this feature requires \TeX kernel 2023/06 at least.

Commands:
\Greeknumeral, \Greeknumber, \Greeknumeral (= \Greeknumber) and \greeknumeral (= \greeknumber) (see section 8.3).
\atticnumeral (= \atticnum) (activated with the option attic=true), displays numbers using the acrophonic numbering system (defined in the Unicode range \text{U+10140–U+10174}).

6.19 hebrew

Options:
- \texttt{numerals} = hebrew or arabic
- \texttt{calendar} = hebrew or gregorian
- \texttt{marcheshvan} = *true or false
  If true, the second month of the civil year will be output as מ الصحية (Marcheshvan) rather than חeshvan (Heshvan), which is the default.
- \texttt{fullyear} ← *true or false
  causes years from the current millennium to be printed with the thousands digit (he-tav-shin-samekh-gimel). Without this option, thousands are not printed for the current millennium.
- \texttt{transliteration} ← academy or alt
  With value academy, transliteration follows the recommendations of the Hebrew Language Academy. The default (alt) uses the received settings of babel (hebcal) and polyglossia (hebrewcal).

Commands:
\hebrewnumeral, \hebrewnumeral (= \hebrewalph) (see section 8.3).
\hebrewalph
\aemph (see section 6.2).

6.20 hindi ←

Options:
- \texttt{numerals} = western or devanagari

6.21 hungarian

Options:
- \texttt{swapstrings} ← *all, captions, headings, headers, hheaders, or none

\footnote{See the documentation of the xgreek package for more details.}
In Hungarian, some caption strings need to be in a different order than in other languages (e.g., 1. fejezet instead of Chapter 1). By default, \polyglossia tries hard to provide the correct order for different classes and packages (standard classes, KOMA-script, memoir, and titlesec package should work, as well as fancyhdr and caption). However, since the definition of these strings is not standardized, the redefinitions might not work and even interfere badly if you use specific classes or packages that redefine the respective strings themselves. In this case, you can disable some or all changes. The possibilities are:

- **all**: Redefine figure and table captions, part and chapter headings, and running headers (= default setting)
- **captions**: Redefine figure and table captions only
- **headings**: Redefine part and chapter headings only
- **headers**: Redefine running headers only
- **hheaders**: Redefine part and chapter headings as well as running headers
- **none**: Do not redefine anything

**forceheadingpunctuation \= \*true or false**

Section numbers always have a trailing punctuation in Hungarian (as in 1.1. as opposed to 1.1). For compatibility reasons, the default option is false, thus \polyglossia does not touch heading punctuation, so this will be whatever the class or a package determines. Set this option to true, and \polyglossia appends a period after the section counters, and adjusts the header punctuation (as in 1. fejezet. as opposed to 1. fejezet).

**Commands:**

- \ontoday (= \ondatehungarian): special form of \today which produces a slightly different date format as used in prepositional phrases (such as `on February 10th`) in Hungarian.

**6.22 \texttt{italian}**

**Options:**

- **babelshorthands \= \*true or false**
  
  Activates the " character as a switch to perform etymological hyphenation when followed by a letter. Furthermore, the following shorthands are activated:
  
  "  double raised open quotes (the Italian keyboard misses the backtick).
  
  "<  open guillemet (looks like «).
  
  ">  closing guillemet (looks like »).
a slash that allows for a subsequent line break. As opposed to \slash, hyphenation at the breakpoints preset in the hyphenation patterns is still allowed.

\- adds a hyphenation point that does still allow for hyphenation at the points preset in the hyphenation patterns (as opposed to \-).

6.23 korean ←

Options:
- **variant** = plain, classic, or modern
  These variants control spacing before/after CJK punctuations.
  - plain: Do nothing
  - classic: Suitable for text with no interword spaces. This option forces CJK punctuations to half-width, and inserts half-width glue around them.
  - modern: Suitable for text with interword spaces. This option forces CJK punctuations to half-width, and inserts small (half of interword space) glue around them.
- **captions** = hangul or hanja
- **swapstrings** ← = *all, headers, headings, or none

With this option, Korean-style part and chapter headings, and running headers are available. It is similar to Hungarian (see 6.21) except that figure and table captions are not touched.
  - all: Redefine part and chapter headings, and running headers (= default setting)
  - headings: Redefine part and chapter headings only
  - headers: Redefine running headers only
  - none: Do not redefine anything

6.24 kurdish ←

Options:
- **variant** = kurmanji or sorani
- **script** = arabic or latin
  Defaults are arabic for Sorani and latin for Kurmanji.
- **numerals** = western or eastern
  Defaults are western for Latin and eastern for Arabic script, depending on the selection above.
- **sectionsep** ← = (code) (default value: .)

This option allows to customize the separator between chapters, sections, and subsections (a dot by default), e.g., sectionsep=\-. This might be useful
particularly with \texttt{numerals=eastern}, as the dot looks too similar to the zero in many fonts.

- \texttt{abjadimnotail} = \texttt{true} or \texttt{false}
  Set this to true if you want the \textit{abjad} form of the number three to be ج – as in the manuscript tradition – instead of the modern usage ج.

**Commands:**

\texttt{\ontoday}: special form of \texttt{\today} which produces a slightly different date format as used in prepositional phrases (as in ‘on February 10th’). Only available for Latin script.

\texttt{\abjad} (see section 8.3)

\texttt{\aemsp} (see section 6.2)

### 6.25 \texttt{lao}

**Options:**

- \texttt{numerals} = \texttt{lao} or \texttt{arabic}

### 6.26 \texttt{latin}

**Options:**

- \texttt{variant} = \texttt{classic}, \texttt{medieval}, \texttt{modern}, or \texttt{ecclesiastic} ←
  These variants refer to different spelling conventions. The \texttt{classic} and the \texttt{medieval} variant do not use the letters \texttt{U} and \texttt{v}, but only \texttt{V} and \texttt{u}. This concerns predefined terms like month names as well as the behaviour of the \texttt{\MakeUppercase} and the \texttt{\MakeLowercase} command. The \texttt{medieval} and the \texttt{ecclesiastic} variant use the ligatures æ and œ. See table 4 for examples.

  Furthermore, the \texttt{ecclesiastic} variant takes care for a punctuation spacing similar to French, but with smaller spaces, as provided for \LaTeX{} by the \texttt{ecclesiastic} package.

- \texttt{hyphenation} ← = \texttt{classic}, \texttt{modern}, or \texttt{liturgical}
  There are three different sets of hyphenation patterns for Latin. Separate documentation for them is available on the Internet. Each of the four variants mentioned above has its default set of hyphenation patterns as indicated by table 5. Use the \texttt{hyphenation} option if the default style does not fit your needs. Note that the liturgical hyphenation patterns are the default of none of the language variants. To use them, you have to say \texttt{hyphenation=liturgical} in any case.

- \texttt{ecclesiasticfootnotes} ← = \texttt{true} or \texttt{false}

\footnote{Refer to https://github.com/gregorio-project/hyphen-la/blob/master/doc/README.md#hyphenation-styles}
Table 4. Spelling differences between the Latin language variants.
The capitalization of month names and the use of i/j may be affected by
the capitalizemonth and the usej option.

<table>
<thead>
<tr>
<th>Language variant</th>
<th>classic</th>
<th>medieval</th>
<th>modern</th>
<th>ecclesiastic</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ianuarii</td>
<td>Ianuarii</td>
<td>Ianuarii</td>
<td>Ianuarii</td>
<td>Ianuarii</td>
</tr>
<tr>
<td>Nouembris</td>
<td>Nouembris</td>
<td>Novembris</td>
<td>Novembris</td>
<td>novembris</td>
</tr>
<tr>
<td>Praefatio</td>
<td>Praefatio</td>
<td>Praefatio</td>
<td>Praefatio</td>
<td>Praefatio</td>
</tr>
</tbody>
</table>
\MakeUppercase{Iulius} yields:
| IVLIVS | IVLIVS | IULIUS | IULIUS |

Table 5. Latin default hyphenation styles

<table>
<thead>
<tr>
<th>Language variant</th>
<th>Default hyphenation style</th>
</tr>
</thead>
<tbody>
<tr>
<td>classic</td>
<td>classic</td>
</tr>
<tr>
<td>medieval</td>
<td>modern</td>
</tr>
<tr>
<td>modern</td>
<td>modern</td>
</tr>
<tr>
<td>ecclesiastic</td>
<td>modern</td>
</tr>
</tbody>
</table>

Use footnotes as provided by the ecclesiastic package, which typesets footnotes with ordinary instead of superior numbers and without indentation. As many ecclesiastic documents and liturgical books use footnotes that are very similar to the ordinary \LaTeX ones, we do not use this footnote style as default even for the ecclesiastic variant.

Note that this option is only possible if Latin is the main language of your document.

- **usej** ← *true* or *false*
  Use J/j in predefined terms. The letter j is not of ancient origin. In early modern times, it was used to distinguish the consonantic i from the vocalic i. Nowadays, the use of j has disappeared from most Latin publications. So false is the default value for all four language variants. Use this option if you prefer Januarii and Maii to Ianuarii and Maii.

- **capitalizemonth** ← *true* or *false*
  Capitalize the month name when printing dates (using the \today command). Traditionally, month names are capitalized. However, in recent liturgical books they are lowercase. So true is the default value for the variants classic, medieval, and modern, whereas false is the default value for the ecclesiastic variant.

- **babelshorthands** = *true* or *false*
  Enable the following shorthands inherited from babel-latin and the ecle-
siastic package.

"< for « (left guillemet)

"> for » (right guillemet)

" If no other shorthand applies, " before any letter character defines an optional break point allowing further break points within the same word (as opposed to the \- command).

"| the same as ", but also possible before non-letter characters

' a for á (a with acute), also available for é, i, ó, ú, ý, ãé, and òè'

'A for Á (A with acute), also available for É, Í, Û, Ý, Æ, and ÛÈ'

The following shorthands are only available for the medieval and the ecclesiastic variant.

"ae for æ (ae ligature), also available for œ

"Ae for Æ (AE ligature), also available for Æ

"AE for Æ (AE ligature), also available for Æ

'ae for ǽ (ae ligature with acute), also available for œ́

'Ae for Ǽ (AE ligature with acute), also available for Ǽ

- prosodicshorthands ← = *true or false

Enable shorthands for prosodic marks (macrons and breves) very similar to those provided by babel-latin using the withprosodicmarks modifier. Note that the active = character used for macrons will cause problems with commands using key=value interfaces, such as the command \includegraphics[scale=2]{...}. Use \shorthandoff{=} before such commands (and \shorthandon{=} thereafter) within every environment with prosodic shorthands enabled.

The following shorthands are available.

=a for à (a with macron), also available for ê, i, ô, û, and ý

=A for Á (A with macron), also available for É, Í, Ó, Û, Ý, and Ý. Note that a macron above the letter V is only displayed if your font supports the Unicode character 0304 (combining macron).

=ae for åe (ae diphthong with macron, for the classic and the modern variant) or æ (ae ligature with macron, for the medieval and the ecclesiastic variant), respectively; also available for äu, eu, and œé/œ. Note that macrons above diphthongs are only displayed if your font supports the Unicode character 035E (combining double macron).

=Ae for Åe (Ae diphthong with macron, for the classic and the modern variant) or ÅE (AE ligature with macron, for the medieval and the
ecclesiastic variant), respectively; also available for Āū, Ėū, and ŌĒŒ̄.

=AE for ĀĒ (AE diphthong with macron, for the classic and the modern variant) or ĖĒ (AE ligature with macron, for the medieval and the ecclesiastic variant), respectively; also available for ĀU, ĖU, and ŌΕŒ̄.

^a for ā (a with breve), also available for ē, ĩ, ō, ŭ, and ų. Note that a breve above the letter y is only displayed if your font supports the Unicode character 0306 (combining breve).

^A Ā (A with breve), also available for Ė, Ī, Ō, Ū, V̆, and Y̆. Note that breves above the letters V and Y are only displayed if your font supports the Unicode character 0306 (combining breve).

6.27  malay

Options:

‣ variant ← = indonesian or malaysian

6.28  marathi

Options:

‣ numerals = devanagari or western

6.29  mongolian ←

Currently, only the Khalkha variety in Cyrillic script is supported.

Options:

‣ babelshorthands = *true or false

If this is turned on, the following shorthands are activated:

"- adds a hyphenation point that does still allow for hyphenation at the points preset in the hyphenation patterns (as opposed to \-).

"= adds an explicit hyphen with a breakpoint, allowing for hyphenation at the other points preset in the hyphenation patterns (as opposed to plain -).

"~ for a hyphen sign without a breakpoint. Useful for cases where the hyphen should stick at the following syllable.

" | disables a ligature at this position.

" " allows for a line break at this position (without hyphenation sign).

" , thinspace for initials with a breakpoint in following surname.
"‘" for German-style left double quotes (looks like „).
"’" for German-style right double quotes (looks like ”).
"<" for French-style left double quotes (looks like «).
">" for French-style right double quotes (looks like »).

There are also three shorthands for the Cyrillic dash (тире), which is shorter than the emdash but longer than the endash (namely 0.8 em). Note that, since it is not covered by unicode, this character is faked by telescoping two endashes:

"---" Cyrillic dash for the use in normal text. This requires preceding space in input (trailing space is optional) and prints with a non-breakable thin space before and after the dash.
"--" Cyrillic dash for the use in compound names (surnames). As opposed to "---" this removes any space before and after the dash.
"-" Cyrillic dash for denoting direct speech. This adds a larger space after the dash. Space before the dash is output as is.

- **numerals** = *arabic*, *cyrillic-alph* or *cyrillic-trad*
  Uses either Arabic numerals or Cyrillic alphanumerical numbering. The two Cyrillic variants differ as follows:
  - *cyrillic-alph* steps through the Cyrillic alphabet. Thus it can only be used up to 30.
  - *cyrillic-trad* (= *cyrillic*) uses a traditional Cyrillic alphanumeric system.\(^{11}\) It supports numbers up to 999 999.

**Commands:**

- **\Asbuk**
  - \Asbuk: produces uppercased Cyrillic alphanumerals, for environments such as enumerate. It steps through the Cyrillic alphabet and thus it can only be used up to 30. The command takes a counter as argument, e.g., `\textmongolian{\Asbuk{section}}` produces Ђ.
- **\asbuk**
  - \asbuk: same as \Asbuk but in lowercase.
- **\AsbukTrad**
  - \AsbukTrad: same as \Asbuk but using the traditional Cyrillic alphanumeric numbering which supports numbers up to 999 999.
  - `E.g., \textmongolian{\AsbukTrad{section}}` produces Ѕ.
- **\asbukTrad**
  - \asbukTrad: same as \AsbukTrad but in lowercase.

**6.30 norwegian**

**Options:**

- **variant** ← = *bokmal* or *nynorsk*

\(^{11}\) See https://en.wikipedia.org/wiki/Cyrillic_numerals.
6.31 persian

Options:

- **numerals** = western or eastern
- **sectionsep** ← = (code) (default value: .)

This option allows to customize the separator between chapters, sections, and subsections (a dot by default), e.g., `sectionsep=-`. This might be useful particularly with **numerals=eastern**, as the dot looks too similar to the zero in many fonts.

- **abjadjimnotail** ← = *true or false

Set this to true if you want the abjad form of the number three to be ج – as in the manuscript tradition – instead of the modern usage ٣.

Commands:

- \abjad (see section 8.3)
- \aemph (see section 6.2).

6.32 polish

Options:

- **babelshorthands** ← = *true or false

If this is turned on, the following shorthands for Polish are activated:

- `=` for an explicit hyphen sign which is repeated at the beginning of the next line when hyphenated, as common in Polish typesetting (also if `splithyphens=false`). Unlike plain -, this also allows for hyphenation at the other points preset in the hyphenation patterns.
- `|` disables a ligature at this position.
- `~` for a hyphen sign without a breakpoint. Useful for cases where the hyphen should stick at the following syllable.
- `\` adds a hyphenation point that does still allow for hyphenation at the points preset in the hyphenation patterns (as opposed to \-).
- `\` allows for a line break at this position (without hyphenation sign).
- `/` a slash that allows for a subsequent line break. As opposed to \slash, hyphenation at the breakpoints preset in the hyphenation patterns is still allowed.
- `\` for Polish left double quotes (looks like ,,).
- `\` for Polish right double quotes (looks like `)`.
- `<` for French left double guillemets (looks like « – used in Polish as second level quotes).
- `>` for French right double guillemets (looks like »).
According to Polish typesetting conventions, if a word with a hard hyphen (such as *czerwono-złote*) is hyphenated at this hyphen, a second hyphenation character is to be inserted at the beginning of the line that follows the hyphenation (*czerwono-/-złote*). By default, this is done automatically (if you are using LuaTeX, the *luavlna* package is loaded to achieve this). Set this option to *false* to disable the feature.

According to Polish typesetting conventions, single-letter words (non-syllable prepositions) must not occur at line ends. *Polyglossia* takes care of this automatically by default (if you are using LuaTeX, the *luavlna* package is loaded to achieve this). Set this option to *false* to disable the feature.

### 6.33 portuguese

#### Options:

- **variant** ← *brazilian or portuguese*
- **babelshorthands** ← *true or false*

If this is turned on, the following shorthands for fine-tuning hyphenation and micro-typography of Portuguese words are activated.

- "| disables a ligature at this position.
- "=" for an explicit hyphen sign which is repeated at the beginning of the next line when hyphenated, as common in Portuguese typesetting (also if *splithyphens=false*). Unlike plain ", this also allows for hyphenation at the other points preset in the hyphenation patterns.
- "~" for a hyphen sign without a breakpoint. Useful for cases where the hyphen should stick at the following syllable.
- ":" adds a hyphenation point that does still allow for hyphenation at the points preset in the hyphenation patterns (as opposed to \-).
- ":" allows for a line break at this position (without hyphenation sign).
- ":/" a slash that allows for a subsequent line break. As opposed to \slash, hyphenation at the breakpoints preset in the hyphenation patterns is still allowed.
- ":<" for French left guillemets («).
- ":>" for French right guillemets (»).

- **splithyphens** ← *true or false*

According to Portuguese typesetting conventions, if a word with a hard hyphen (such as *pára-brisas*) is hyphenated at this hyphen, a second hyphenation character is to be inserted at the beginning of the line that follows the hyphenation (*pára-/-brisas*). By default, this is done automatically (if
you are using LuaTeX, the luavlna package is loaded to achieve this). Set this option to false to disable the feature.

6.34 punjabi ←

Options:
- **numerals** = western or gurmukhi

6.35 russian

Options:
- **babelshorthands** = *true or false
  
  If this is turned on, the following shorthands are activated:
  
  "- adds a hyphenation point that does still allow for hyphenation at the points preset in the hyphenation patterns (as opposed to \-).
  
  "= adds an explicit hyphen with a breakpoint, allowing for hyphenation at the other points preset in the hyphenation patterns (as opposed to plain -).
  
  "~ adds an explicit hyphen without a breakpoint. Useful for cases where the hyphen should stick at the following syllable.
  
  "| disables a ligature at this position.
  
  "=" allows for a line break at this position (without hyphenation sign).

  There are also three shorthands for the Cyrillic dash (тире), which is shorter than the emdash but longer than the endash (namely 0.8 em). Note that, since it is not covered by unicode, this character is faked by telescoping two endashes:

  "--- Cyrillic dash for the use in normal text. This requires preceding space in input (trailing space is optional) and prints with a non-breakable thin space before and after the dash.
  
  "-- Cyrillic dash for the use in compound names (surnames). As opposed to "--- this removes any space before and after the dash.
  
  "*- Cyrillic dash for denoting direct speech. This adds a larger space after the dash. Space before the dash is output as is.

- **forceheadingpunctuation** ← = *true or false

  By default, chapter and section numbers always have a trailing punctuation in Russian (as in 1.1. as opposed to 1.1). If this option is set to false, polyglossia will not touch heading punctuation, so this will be whatever the class or a package determines.
By default, all paragraphs are indented in Russian, also those after a chapter or section heading. If this option is false, the latter paragraphs are not indented, as normal in \LaTeX.

By default, some specific math macros are defined for Russian (see below). In order to prevent command clashes (e.g., with the \chemformula package), you can switch these definitions off by passing false to this option.

This option is for captions and date only, not for hyphenation.

Uses either Arabic numerals or Cyrillic alphanumerical numbering. The two Cyrillic variants differ as follows:

- Cyrillic-alph steps through the Cyrillic alphabet. Thus it can only be used up to 30.
- Cyrillic-trad (= cyrillic) uses a traditional Cyrillic alphanumeric system. It supports numbers up to 999,999.

\textbf{Commands:}

- \texttt{\Asbuk}: produces uppercased Cyrillic alphanumerals, for environments such as \texttt{enumerate}. It steps through the Cyrillic alphabet and thus it can only be used up to 30. The command takes a counter as argument, \textit{e.g.,} \texttt{\textrussian{\Asbuk{section}}} produces Ђ.

- \texttt{\asbuk}: same as \texttt{\Asbuk} but in lowercase.

- \texttt{\AsbukTrad}: same as \texttt{\Asbuk} but using the traditional Cyrillic alphanumeric numbering which supports numbers up to 999,999.

  \textit{E.g.,} \texttt{\textrussian{\AsbukTrad{page}}} produces М.

- \texttt{\asbukTrad}: same as \texttt{\AsbukTrad} but in lowercase.

If the \texttt{mathfunctions} option is true, loading Russian defines a few macros than can be used independently of the current language. These are nine macros to be used in math mode to type the names of trigonometric functions common for Russian documents: \texttt{\sh}, \texttt{\ch}, \texttt{\tg}, \texttt{\ctg}, \texttt{\arctg}, \texttt{\arctctg}, \texttt{\th}, \texttt{\cth}, and \texttt{\cosec}. Cyrillic letters in math mode can be typed with the aid of text commands such as \texttt{\textbf}, \texttt{\textsf}, \texttt{\textit}, \texttt{\texttt}, etc. The macros \texttt{\Prob}, \texttt{\Variance}, \texttt{\NOD}, \texttt{\nod}, \texttt{\NOK}, \texttt{\nok}, \texttt{\Proj} print some rare Russian mathematical symbols.

Currently support for Sami is limited to Northern Sami.

\footnote{See \url{https://en.wikipedia.org/wiki/Cyrillic_numerals}.}
6.37 sanskrit

Options:

- **script** ← devanagari, gujarati, malayalam, bengali, kannada, telugu, latin
  The value is passed to \(\text{fontspec}\) should the respective {\texttt{\langle script\rangle font}} not be defined. This can be useful if you typeset Sanskrit texts in scripts other than Devanagari.

- **numerals** ← devanagari or western

6.38 serbian

Options:

- **variant** ← ekavian or ijekavian
  With ijekavian, the different spelling is reflected in some caption strings.

- **script** = cyrillic or latin

- **datei** ← *true or false
  If this is true, the sixth and seventh month of the year are written in the date with the trailing \(i\) or \(w\) \(i.e., j\text{unj}, j\text{uli} or j\text{y}u, j\text{y}u\) rather than \(j\text{un}, j\text{ul} or j\text{y}u, j\text{y}u\).

- **splithyphens** ← *true or false
  According to Serbian typesetting conventions, if a word with a hard hyphen (such as \text{калцијум-карбонат}) is hyphenated at this hyphen, a second hyphenation character is to be inserted at the beginning of the line that follows the hyphenation (\text{калцијум-/-карбонат}). By default, this is done automatically (if you are using \LaTeX, the luavlna package is loaded to achieve this). Set this option to false to disable the feature.

- **numerals** = arabic, cyrillic-alph or cyrillic-trad
  Uses either Arabic numerals or Cyrillic alphanumerical numbering. The two Cyrillic variants differ as follows:
  - **cyrillic-alph** steps through the Cyrillic alphabet. Thus it can only be used up to 30.
  - **cyrillic-trad** (= cyrillic) uses a traditional Cyrillic alphanumerical system.\(^{13}\) It supports numbers up to 999 999.

Commands:

- **\Asbuk**: produces uppercased Cyrillic alphanumerals, for environments such as *enumerate*. It steps through the Cyrillic alphabet and thus it can only be used up to 30. The command takes a counter as argument, *e.g.*, \text{\textserbian\{\Asbuk\{section\}\}} produces Ђ.

- **\asbuk**: same as \Asbuk but in lowercase.

\AsbukTrad: same as \Asbuk but using the traditional Cyrillic alphanumeric numbering which supports numbers up to 999 999. E.g., \textserbian{\AsbukTrad{page}} produces МА.

\asbukTrad: same as \AsbukTrad but in lowercase.

\today*: \today*: as opposed to the unstarred counterpart, this does not end the date with a punctuation.

\todayGen: outputs the date with months in genitive inflection. This form is suggested when the date is integrated into a sentence (as opposed to a standalone date statement). The starred form \todayGen* omits the trailing punctuation.

\todayArabic: outputs the date with months in Arabic number. The starred form \todayArabic* omits the trailing punctuation.

\todayRoman: outputs the date with months in Roman number. The starred form \todayRoman* omits the trailing punctuation.

6.39 slovak

Options:

\babelshorthands ← = *true or false

If this is turned on, the following shorthands for Slovak are activated:

" = for an explicit hyphen sign which is repeated at the beginning of the next line when hyphenated, as common in Slovak typesetting (also if \splithyphens=false). Unlike plain -, this also allows for hyphenation at the other points preset in the hyphenation patterns.

"| disables a ligature at this position.

"~ for a hyphen sign without a breakpoint. Useful for cases where the hyphen should stick at the following syllable.

"- adds a hyphenation point that does still allow for hyphenation at the points preset in the hyphenation patterns (as opposed to \-).

"=" allows for a line break at this position (without hyphenation sign).

"/ a slash that allows for a subsequent line break. As opposed to \slash, hyphenation at the breakpoints preset in the hyphenation patterns is still allowed.

"' for Slovak left double quotes (looks like „).

"" for Slovak right double quotes (looks like “).

"> for Slovak left double guillemets (looks like »).

"< for Slovak right double guillemets (looks like «).

\splithyphens ← = *true or false

According to Slovak typesetting conventions, if a word with a hard hyphen (such as je-li) is hyphenated at this hyphen, a second hyphenation
character is to be inserted at the beginning of the line that follows the hyphenation (je/-li). By default, this is done automatically (if you are using \LaTeX{}, the \texttt{luavlna} package is loaded to achieve this). Set this option to \texttt{false} to disable the feature.

- \texttt{v1na} ← \texttt{*true} or \texttt{false}

According to Slovak typesetting conventions, single-letter words (nonsyllable prepositions) must not occur at line ends. \texttt{Polyglossia} takes care of this automatically by default (if you are using \LaTeX{}, the \texttt{luavlna} package is loaded to achieve this). Set this option to \texttt{false} to disable the feature.

### 6.40 slovenian

**Options:**

- \texttt{localalph} ← \texttt{*true} or \texttt{false}

  If \texttt{true}, alphanumeric counters will use a localized version including characters with caron (a, b, c, č, d, ...) and excluding the characters \{q\}, \{w\}, \{x\}, and \{y\} from alphabetic counting.

### 6.41 sorbian

**Options:**

- \texttt{variant} ← \texttt{lower} or \texttt{upper}
- \texttt{olddate} ← \texttt{*true} or \texttt{false}

  If \texttt{true}, \texttt{\today} will use traditional Sorbian month names (\textit{i.e.}, it will be synonymous to \texttt{\oldtoday} below).

**Commands:**

- \texttt{\oldtoday}: outputs the current date using traditional Sorbian month names, even if \texttt{olddate} is \texttt{false}.

### 6.42 spanish

**Options:**

- \texttt{variant} ← \texttt{spanish} or \texttt{mexican}
- \texttt{spanishoperators} ← \texttt{*all}, \texttt{accented}, \texttt{spaced}, \texttt{none}, or \texttt{false}

  Determines of and how math operators are localized to Spanish.

  - \texttt{accented} causes some math operators to use accents where usual in Spanish (\texttt{lim}, \texttt{lim sup}, \texttt{lim inf}, \texttt{máx}, \texttt{mín}, \texttt{inf}, \texttt{mód}).
  - \texttt{spaced} causes some math operators to use spaces where usual in Spanish (\texttt{arc cos}, \texttt{arc sen}, \texttt{arc tg}).
  - \texttt{all} activates \texttt{accented} and \texttt{spaced} and furthermore provides Spanish localizations of \texttt{\sin} (\texttt{sen}), \texttt{\tan} (\texttt{tg}), \texttt{\sinh} (\texttt{senh}), and \texttt{\tanh} (\texttt{tgh}).
  - \texttt{none} does no localization at all (default setting).
Commands:

- \arcsen: alias to \arcsin (babel compatibility)
- \arctg: alias to \arctan (babel compatibility)
- \sen: alias to \sin (babel compatibility)
- \senh: alias to \sinh (babel compatibility)
- \tg: alias to \tan (babel compatibility)
- \tgh: alias to \tanh (babel compatibility)
- \spanishoperator: allows you to define further localized operators. For instance, \spanishoperator{cotg} defines a command \cotg that outputs cotg in math. The optional argument of the command lets you specify the spelling, if needed, e.g., \spanishoperator[arc\,ctg]{arcctg}.

6.43 syriac

Options:

- numerals = western (i.e., 1234567890), eastern (for which the Oriental Arabic numerals are used: ٠٩٨٧٦٥٤٣٢١), or abjad
- sectionsep = ⟨code⟩ (default value: .)

This option allows to customize the separator between chapters, sections, and subsections (a dot by default), e.g., sectionsep=. This might be useful particularly with numerals=eastern, as the dot looks too similar to the zero in many fonts.

Commands:

- \abjadsyriac (see section 8.3)
- \aemph (see section 6.2).

6.44 thai

Options:

- numerals = thai or arabic

To insert word breaks, you need to use an external processor. See the documentation to thai-latex and the file testthai.tex that comes with this package.

6.45 tibetan

Options:

- numerals = tibetan or arabic
6.46 **ukrainian**

**Options:**

- **babelshorthands** = *true or false*
  
  If this is turned on, the following shorthands are activated:

  - `-` adds a hyphenation point that does still allow for hyphenation at the points preset in the hyphenation patterns (as opposed to \-).
  
  - `=` adds an explicit hyphen with a breakpoint, allowing for hyphenation at the other points preset in the hyphenation patterns (as opposed to plain `-`).
  
  - `~` for a hyphen sign without a breakpoint. Useful for cases where the hyphen should stick at the following syllable.
  
  - `|` disables a ligature at this position.
  
  - `"` allows for a line break at this position (without hyphenation sign).

  There are also three shorthands for the Cyrillic dash (тире), which is shorter than the emdash but longer than the endash (namely 0.8 em). Note that, since it is not covered by unicode, this character is faked by telescoping two endashes:

  - `---` Cyrillic dash for the use in normal text. This requires preceding space in input (trailing space is optional) and prints with a non-breakable thin space before and after the dash.
  
  - `--` Cyrillic dash for the use in compound names (surnames). As opposed to `---` this removes any space before and after the dash.
  
  - `--*` Cyrillic dash for denoting direct speech. This adds a larger space after the dash. Space before the dash is output as is.

- **mathfunctions** ← = *true or false*
  
  By default, some specific math macros are defined for Ukrainian (see below). In order to prevent command clashes (e.g., with the chemformula package), you can switch these definitions off by passing false to this option.

- **numerals** = arabic, cyrillic-alph or cyrillic-trad
  
  Uses either Arabic numerals or Cyrillic alphanumerical numbering. The two Cyrillic variants differ as follows:

  - **cyrillic-alph** steps through the Cyrillic alphabet. Thus it can only be used up to 30.
  
  - **cyrillic-trad** (= cyrillic) uses a traditional Cyrillic alphanumerical system. It supports numbers up to 999 999.

Commands:

- \Asbuk: produces uppercased Cyrillic alphanumerals, for environments such as enumerate. It steps through the Cyrillic alphabet and thus it can only be used up to 30. The command takes a counter as argument, e.g., \textukrainian{\Asbuk{section}} produces Тг.

- \asbuk: same as \Asbuk but in lowercase.

- \AsbukTrad: same as \Asbuk but using the traditional Cyrillic alphanumeric numbering which supports numbers up to 999 999. E.g., \textukrainian{\AsbukTrad{page}} produces МЅ.

- \asbukTrad: same as \AsbukTrad but in lowercase.

If the mathfunctions option is true, loading Ukrainian defines a few macros than can be used independently of the current language. These are nine macros to be used in math mode to type the names of trigonometric functions common for Ukrainian documents: \sh, \ch, \tg, \ctg, \arctg, \arcctg, \th, \cth, and \cosec. Cyrillic letters in math mode can be typed with the aid of text commands such as \textbf, \textsf, \textit, \texttt, etc. The macros \Prob, \Variance, \NOD, \nod, \NOK, \nok, \NSD, \nsd, \NSK, \nsk, \Proj print some rare Ukrainian mathematical symbols.

6.47 urdu

Options:

- calendar = gregorian or hijri
- hijricorrection = ⟨integer⟩ (default value: 0)
  If calendar=hijri is selected, \today will output the date according to the lunar Islamic (Hijra) calendar. This option allows to shift the day of the output with respect to the current date. Both positive and negative integer values are allowed (negative decrease the day value). This corresponds to the optional argument of the \Hijritoday command which can be used to output Hijri dates irrespective of the calendar option (see sec. 10.2).
- numerals = western or eastern
- sectionsep ← = ⟨code⟩ (default value: .)
  This option allows to customize the separator between chapters, sections, and subsections (a dot by default), e.g., sectionsep=-. This might be useful particularly with numerals=eastern, as the dot looks too similar to the zero in many fonts.
- abjadimnotail = *true or false
  Set this to true if you want the abjad form of the number three to be ج – as in the manuscript tradition – instead of the modern usage ج.
6.48 uyghur

Options:

- `chapterformat ← *ordinal, roman, arabic`
  
  In Uyghur, chapter and part headings usually use ordinals rather than numbers. Alternatively Roman numbers are common as well. By default, polyglossia uses ordinals. This option allows to change this. Choices are:
  - `ordinal`: Use ordinals for chapter and part headings (= default setting)
  - `roman`: Use Roman numbering for chapter and part heading.
  - `arabic`: Use Arabic numbering for chapter and part heading (= LaTeX default).

  Note that this option only works if `swapstrings` is set to `all, headings or hheaders`. The caveats for that options (see below) apply.

- `swapstrings ← *all, captions, headings, headers, hheaders, or none`
  
  In Uyghur, table and figure caption strings need to be in a different order and format than in other languages. By default, polyglossia provides the correct for different classes and packages (standard classes, KOMA-script, memoir, and titlesec package should work, as well as fancyhdr and caption). However, since the definition of these strings is not standardized, the redefinitions might not work and even interfere badly if you use specific classes or packages that redefine the respective strings themselves. In this case, you can disable some or all changes. The possibilities are:
  - `all`: Redefine figure and table captions, part and chapter headings, and running headers (= default setting)
  - `captions`: Redefine figure and table captions only
  - `headings`: Redefine part and chapter headings only
  - `headers`: Redefine running headers only
  - `hheaders`: Redefine part and chapter headings as well as running headers
  - `none`: Do not redefine anything

Commands:

- `\uyghurordinal`: outputs Uyghur ordinals. Supported input: integer numbers in the range of 1–100.
- `\uyghurord`: same as `\uyghurordinal` but with counter as input (e.g., `\textuyghur{\uyghurord{page}}`).

6.49 welsh

Options:

- `date = long or short`
7 Modifying or extending captions, date formats and language settings

Polyglossia uses the following macros to define language-specific captions (i.e., strings such as “chapter”), date formats and additional language settings (⟨lang⟩ is to be replaced with the respective language name):

- \captions⟨lang⟩ stores definitions of caption strings (such as, in the case of English, \def\chaptername{Chapter})
- \date⟨lang⟩ stores definitions of date formats (usually redefinitions of \today, in some cases also definitions of additional date commands)
- \blockextras@⟨lang⟩ stores macros that are to be executed when the language ⟨lang⟩ is activated via \selectlanguage command or the ⟨lang⟩ environment
- \inlineextras@⟨lang⟩ stores macros that are to be executed when the language ⟨lang⟩ is activated locally via \text⟨lang⟩ command
- \noextras@⟨lang⟩ stores macros that are to be executed when the language ⟨lang⟩ is closed

In order to redefine internal macros, we recommend to use the command \gappto. For compatibility with babel the command \addto is also available to the same effect. For instance, to change the \chaptername for language lingua, you can do this:

\gappto\captionslingua{\def\chaptername{Caput}}

Note that this needs to be done after the respective language has been loaded with \setmainlanguage or \setotherlanguage.

Specifically for package authors, analogous commands are provided which are only executed if a specific language variety is used. As opposed to the macros above, these refer to babel names. Other than that, the function is identical:

- \captions@bbl@⟨babelname⟩
- \date@bbl@⟨babelname⟩
- \blockextras@bbl@⟨babelname⟩
- \inlineextras@bbl@⟨babelname⟩
- \noextras@bbl@⟨babelname⟩

By default, these macros are undefined. If they are defined (e.g., by an external package), they will be executed after their respective ⟨lang⟩ counterpart and thus can be used to overwrite definitions of the former. Again, use \gappto to define/modify these macros. For instance, to add a new caption \footnotename to the Swiss variety of German (babel name nswissgerman), you can do this:

\gappto\captions@bbl@nswissgerman{\def\footnotename{Fussnote}}

If you do this in a document preamble rather than in a package, you need to embrace the redefinition by \makeatletter and \makeatother due to the @ in the macro names.
Finally, as soon as the language has been switched (either inline or as a block), \texttt{polyglossia} executes the (by default empty) hook \texttt{\polyglossia@language@switched} to which you can append arbitrary code (via \texttt{\gappto}) that should be executed if (a particular) language is being activated. This is done before any of the above macros are issued (so you can still alter them), but at a point where \texttt{\languagename}, \texttt{\babelname} and \texttt{\languageid} are already set, so you can condition on specific languages in your code. This hook is particularly provided for package authors.

8 Script-specific numbering

Languages and scripts have specific numbering conventions. Some use decimal digits (e.g., Arabic numerals), some use alphabetic or alphanumerical notation (e.g., Roman numbering). In some cases, different conventions are available (e.g., Mashriq or Maghrib numbering in Arabic script, Arabic or Hebrew [= alphanumerical] numbering in Hebrew).

If the latter is the case, \texttt{polyglossia} provides language options which allow you to select or switch to the suitable convention. With the appropriate language option set, \texttt{polyglossia} will automatically convert the output of internal \LaTeX counters to their localized forms, for instance to display page, chapter and section numbers.

For manual input of numbers, macros are provided. These convert Arabic numeric input to the respective local decimal digit (see sec. 8.2), alphanumerical representation (see sec. 8.3) or whatever is appropriate (see sec. 8.1). The possibilities are described in turn.

8.1 General localization of numbering

As of 1.45, \texttt{polyglossia} provides a generic macro \texttt{\localnumeral} which converts numbers to the current local form (which might be script-specific decimal digit, an alphabetic numbering or something else). For instance in an Arabic environment \texttt{\localnumeral(42)} yields ٤٢, whereas in an Hebrew environment, it results in 42 with \texttt{numerals=hebrew}, and 42 with \texttt{numerals=arabic}. Note that, as opposed to the various \texttt{digits} macros (described in sec. 8.2), the argument of \texttt{\localnumeral} must consist of numbers only.

For the conversion of counters, the starred version \texttt{\localnumeral*} is provided. This takes a counter as argument. For instance in an Arabic environment \texttt{\localnumeral*(page)} yields ٤٢.

For scripts with alphanumerical numbering, the variants \texttt{\Localnumeral} and \texttt{\Localnumeral*} provide the uppercased versions.
All these macros provide the following options:

\[\text{lang} = \text{local, main, or } \langle\text{language}\rangle\]

Output number in the local form of the currently active language for `local`, the main language of the document for `main`, and any (loaded) language for `\langle\text{language}\rangle` (e.g., `\localnumeral[\text{lang=arabic}]{42}`).

### 8.2 Non-Western decimal digits

In addition to the generic macros described above, `polyglossia` provides language-specific conversion macros which can be used if the generic ones do not suit the need.\(^\text{15}\) The macros have the form `\langle\text{script}\rangle\text{digits}`. They convert Arabic numerical input and leave every other input untouched. In an Arabic context, for instance, `\arabicdigits{9182/738543-X}` yields ٣٤٥٨٣٧/٢٨١٩\(^\text{X}\).

Currently, the following macros are provided:

- \arabicdigits
- \bengalidigits
- \devanagaridigits
- \farsidigits
- \gurmukhidigits
- \kannadadigits
- \khmerdigits
- \laodigits
- \nkodigits
- \thaidigits
- \tibetandigits

### 8.3 Non-Latin alphabetic numbering

For languages which use special (non-Latin) alphanumerical notation\(^\text{16}\), dedicated macros are provided.

They work in a similar way than the `\langle\text{script}\rangle\text{digits}` macros described above: They take Arabic numerical input and output the respective value in the local alphabetic numbering scheme (most of these macros are equivalent to `\localnumeral` and `\Localnumeral` in the respective context).

The following macros are provided:

\(^{15}\)A third method are so-called TECKit fontmappings. Those can be activated with the \fontspec\ Mapping option, using \arabicdigits, \farsidigits or \thaidigits. For instance if \arabicfont is defined with the option Mapping=arabicdigits, typing `\textarabic{2010}` results in ٠١٠٢. Note that this method has some drawbacks, though, for instance when the value of a counter has to be written and read from auxiliary files. So please use this with care.

• \abjad outputs Arabic abjad numbers according to the Mashriq varieties. Example: \abjad{1863} yields غُضسج.

• \abjadmaghribi outputs Arabic abjad numbers according to the Maghrib varieties. Example: \abjadmaghribi{1863} yields شذششج.

• \abjadsyriac outputs Syriac abjad numerals.\footnote{A fine guide to numerals in Syriac can be found at http://www.garzo.co.uk/documents/syriac-numerals.pdf.} Example: \abjadsyriac{463} yields ܬܣܓ.

• \armeniannumeral produces Armenian alphabetic numbering. Example: \armeniannumeral{1863} yields ԱՐՄ.";

• \belarusiannumeral produces Belarusian numbering, with uppercased variant (for alphanumerical variant) via \Belarusiannumeral. Depending on the numerals option in the Belarusian language selection, this is either Arabic digit or Cyrillic alphanumercial output. Example: With numerals=latin \belarusiannumeral{19} yields 19, with numerals=cyrillic-trad \belarusiannumeral{19} results in іѳ, with numerals=cyrillic-alph \belarusiannumeral{19} results in у.

• \chinesenumeral produces Chinese numbering which, depending on the numerals option in the Chinese language selection, produces is either Arabic digit or Chinese ideographic output. Example: With numerals=arabic \chinesenumeral{753} yields 753, with numerals=chinese \chinesenumeral{753} results in 七百五十三.

• \georgiannumeral produces Georgian alphabetic numbering. Example: \georgiannumeral{1863} yields სჭჲგ.

• \greeknumeral produces Greek alphabetic numbering, \Greeknumeral outputs uppercased variants. Example: \greeknumeral{1863} yields αωξγʹ, \Greeknumeral{1863} results in ΑΩΞΓʹ.

• \hebrewnumeral, \Hebrewnumeral and \Hebrewnumeralfinal produce variants of Hebrew alphanumercial numerals. The commands behave identical as in babel: \hebrewnumeral outputs the numbers without any decoration at all, \Hebrewnumeral adds gereshayim before the last letter, and \Hebrewnumeralfinal uses in addition the final forms of Hebrew letters. Examples: \hebrewnumeral{1750} yields יִ תשנ, \Hebrewnumeral{1750} yields יִ תשנ, and \Hebrewnumeralfinal{1750} yields יִ תשנ.

• \mongoliannumeral produces Mongolian numbering, with uppercased variant (for alphanumerical variant) via \Mongoliannumeral. Depending on the numerals option in the Mongolian language selection, this is either Arabic digit or Cyrillic alphanumercial output. Example: With numerals=latin \mongoliannumeral{19} yields 19, with numerals=cyrillic-trad \mongoliannumeral{19} results in іѳ, with numerals=cyrillic-alph \mongoliannumeral{19} results in у.
\punjabinumeral produces Punjabi numbering, depending on the setting of the numerals option in the Punjabi language selection, this is either Gurmukhi or Arabic (Western).

\russiannumeral produces Russian numbering, with uppercased variant (for alphanumerical variant) via \Russiannumeral. Depending on the numerals option in the Russian language selection, this is either Arabic digit or Cyrillic alphanumercial output.
Example: With numerals=latin \russiannumeral{19} yields 19, with numerals=cyrillic-trad \russiannumeral{19} results in іѳ, with numerals=cyrillic-alph \russiannumeral{19} results in у.

\serbiannumeral produces Serbian numbering, with uppercased variant (for alphanumerical variant) via \Serbiannumeral. Depending on the numerals option in the Serbian language selection, this is either Arabic digit or Cyrillic alphanumercial output.
Example: With numerals=latin \serbiannumeral{19} yields 19, with numerals=cyrillic-trad \serbiannumeral{19} results in іѳ, with numerals=cyrillic-alph \serbiannumeral{19} results in п.

\ukrainiannumeral produces Ukrainian numbering, with uppercased variant (for alphanumerical variant) via \Ukrainiannumeral. Depending on the numerals option in the Ukrainian language selection, this is either Arabic digit or Cyrillic alphanumercial output.
Example: With numerals=latin \ukrainiannumeral{19} yields 19, with numerals=cyrillic-trad \ukrainiannumeral{19} results in іѳ, with numerals=cyrillic-alph \ukrainiannumeral{19} results in у.

9 Footnotes in right-to-left context

With languages that use right-to-left scripts, footnote apparatuses are usually placed at the right side of the page bottom. Consequently, the footnote rule also is to be placed right. Things get more tricky, though, if right-to-left and left-to-right scripts are mixed. Then you might want to put the footnotes on some pages left, on some right, or even mix positions on a page. Thus, footnote handling in right-to-left context sometimes needs manual intervention. This is described in what follows.

9.1 Horizontal footnote position

When right-to-left languages are used, the \footnote command becomes sensitive to the text directionality. The footnote is always placed on the side that is currently the origin of direction: on the left side of the page in LTR paragraphs and on the right in RTL paragraphs.
For cases where this is not desired, two additional footnote commands are provided: \RTLfootnote and \LTRfootnote. \LTRfootnote always places the footnote on the left side, notwithstanding the current directionality. Likewise, \RTLfootnote always places it on the right side. Like \footnote, \RTLfootnote and \LTRfootnote provide an optional argument to customize the number.

### 9.2 Footnote rule length and position

The default placement of the footnote rule differs in X\TeX and Lua\TeX output (this is due to differences in the bidi and luabidi packages). With X\TeX, footnote rules are always placed left, which is often wrong in RTL context. With Lua\TeX, by contrast, the rule is placed always right if the main language is a right-to-left language, and always left if the main language is a left-to-right language, which is the right thing in many cases.

In both cases, you can change the default behavior as follows:

- Put \leftfootnoterule in the preamble to have all rules left-aligned.
- Put \rightfootnoterule in the preamble to have all rules right-aligned.
- Put \autofootnoterule in the preamble to have automatic placement depending on the context (see below for elaboration).
- Put \textwidthfootnoterule in the preamble to have a rule that spans the whole text width.

With \autofootnoterule, the first footnote on the current page determines the placement. Note that this automatic can fail with footnotes at page boundaries that differ in directionality from the first footnote on the page. You can work around such cases by switching to \rightfootnoterule or \leftfootnoterule on these pages.

Note also that the rule switches might interfere in bad ways with packages or classes that redefine footnotes themselves. This is also the reason why \autofootnoterule is not used by default.

### 10 Calendars

#### 10.1 Hebrew calendar (hebrewcal.sty)

The package \texttt{hebrewcal.sty} is almost a verbatim copy of \texttt{hebcal.sty} that comes with babel. The command \texttt{Hebrewtoday} formats the current date in the Hebrew calendar (depending of the current writing direction this will automatically set either in Hebrew script or in roman transliteration).
10.2 Islamic calendar (hijrical.sty)

This package computes dates in the lunar Islamic (Hijra) calendar.\footnote{It makes use of the arithmetical algorithm in chapter 6 of Reingold & Gershowitz, \textit{Calendrical calculation: the Millenium edition} (Cambridge University Press, 2001).} It provides two macros for the end-user. The command

\begin{verbatim}
\HijriFromGregorian{(year)}{(month)}{(day)}
\end{verbatim}

sets the counters Hijriday, Hijrimonth and Hijriyear. \Hijritoday formats the Hijri date for the current day. This command is now locale-aware → its output will differ depending on the currently active language. Presently \texttt{polyglossia}'s language definition files for Arabic, Farsi, Urdu, Turkish and Malay provide a localized version of \Hijritoday. If the formatting macro for the current language is undefined, the Hijri date will be formatted in Arabic or in roman transliteration, depending of the current writing direction. You can define a new format or redefine one with the command

\begin{verbatim}
\DefineHijriDateFormat{(lang)}{(code)}
\end{verbatim}

The command \Hijritoday also accepts an optional argument to add or subtract a correction (in days) to the date computed by the arithmetical algorithm.\footnote{The Islamic calendar is indeed a purely lunar calendar based on the observation of the first visibility of the lunar crescent at the beginning of the lunar month, so there can be differences between different localities, as well as between civil and religious authorities.} For instance if \Hijritoday yields the date "7 Rajab 1429" (which is the date that was displayed on the front page of \texttt{aljazeera.net} on 11th July 2008), \Hijritoday[1] would rather print "8 Rajab 1429" (the date indicated the same day on the site \texttt{gulfnews.com}).

10.3 Farsi (jalālī) calendar (farsical.sty)

This package is an almost verbatim copy of \texttt{Arabiftoday.sty} (in the \texttt{Arabi} package), itself a slight modification of \texttt{ftoday.sty} in Farsi\TeX.\footnote{One day we may rewrite \texttt{farsical} from scratch using the algorithm in Reingold & Gershowitz (ref. n. 18).} Here we have renamed the command \texttt{ftoday} to \texttt{Jalalitoday}. Example: today is 9 Mihr 1402.

11 Auxiliary commands

The macro \begin{verbatim}
\charifavailable{(char code)}{(substitution)}
\end{verbatim}

checks whether the character with the specified (\texttt{char code}) (\ie, \texttt{unicode} utf-16 code without preceding 0x) exists in the current font. If so, the character is printed, if not, the (\texttt{substitution}) is printed.

Example: \charifavailable{1E9E}{SS} prints the capital version of the German letter \texttt{ß} if available (\ie, \texttt{ẞ}), else it prints the substitution digraph \texttt{SS}. 

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12 Accessing language information

The following is specifically relevant to package authors who need information about the languages in use and the details of the respective locale. In order to get such information, the recommended way is to use the \texttt{\BCPdata{⟨type⟩}} command to get (parts of) the BCP-47 language tag. This command is used by the \TeX kernel as of 6/2023, and the syntax is standardized at least between \texttt{b}abel and \texttt{polyglossia}.

\texttt{\BCPdata{⟨type⟩}} supports the following \{⟨type⟩\} arguments:

- **language** The language subtag (e.g., de)
- **region** The region subtag (e.g., AT)
- **script** The script subtag (e.g., Latn)
- **variant** The variant subtag (e.g., 1901 for German old spelling)
- **extension.t** The subtag indicating transformation between languages or scripts (e.g., ja as in en-t-ja: English transformed to Japanese)
- **extension.u** The subtag indicating additional locale information (e.g., nu-latn as in ar-u-nu-latn: Arabic with Latin Numbering)
- **extension.x** The private usespace subtag (e.g., classic as in la-x-classic for classic Latin)
- **casing** is a special semantic value which returns whatever is considered suitable for casing commands such as \texttt{\MakeUppercase}. In many cases, this is identical to \texttt{language} but it could also be something more specific such as el-x-iota or ckb-Latn if this is needed for proper casing. Note that this information is retrieved by the \TeX kernel for casing as of 06/2023.
- **tag** returns the registered full tag (identical to \texttt{\languageid} below). This however omits certain subtags if these are considered obvious (e.g., for German, only de-DE is returned, although script [Latn] and variant [1996] are defined as well).

If a subtag is not defined for a given language, an empty string is returned.

The values above return information for the language currently in use. If you need to access information for the main language of the document, prepend \texttt{main.} to the respective argument (e.g., \texttt{main.language}). This works for all supported arguments.

Next to \texttt{\BCPdata}, \texttt{polyglossia} provides the following legacy macros which are partly unique to \texttt{polyglossia}, partly re-implementations of legacy \texttt{b}abel commands:

- **\languagename** stores the currently active (polyglossia) language name.
- **\mainlanguagename** stores the (polyglossia) language name of the main document language.
- **\languagevariant** stores the language variant if set. The macro is empty if no variant has been set.
- **\mainlanguagevariant** stores the language variant of the main document
language if set. The macro is empty if no variant has been set.

\babelname

- \babelname stores the corresponding name of the currently active language (variant) in babel. This might not only be useful if you want to support both babel and polyglossia, but also since this name is unique for a given language variety (e.g., ngerman, german, swissgerman etc.). Note that this macro is also defined for languages that are not supported in babel. In that case, they are equal to the polyglossia language name.

\mainbabelname

- \mainbabelname analogously stores the name of document’s main language (variant) in babel.

\languageid{⟨type⟩}

\languageid{⟨type⟩} ← stores the identifier tag of the current language. Currently supported (types):

- bcp-47 (alias bcp47): IETF BCP-47 language identifier

\mainlanguageid{⟨type⟩}

\mainlanguageid{⟨type⟩} ← stores identifier tag of the main language. Currently supported (types): see \languageid.

If you want to have a full list of loaded languages/variants, use the following macros:

\xpg@loaded

- \xpg@loaded stores a comma-separated list of all loaded languages (polyglossia name)

\xpg@vloaded

- \xpg@vloaded stores a comma-separated list of all loaded variants

\xpg@bloaded

- \xpg@bloaded stores a comma-separated list of babel names of all language variants

\xpg@bcp@loaded

- \xpg@bcp@loaded ← stores a comma-separated list of the BCP-47 IDs of all language variants

Whether a language is loaded can be tested by

\iflanguageloaded
\iflanguageloaded{⟨lang⟩}{⟨true⟩}{⟨false⟩}

where (lang) is a polyglossia language name, by

\ifbabellanguageloaded
\ifbabellanguageloaded{⟨lang⟩}{⟨true⟩}{⟨false⟩}

where (lang) is a babel language name (see table 2 on p. 7), or by ←

\iflanguageidloaded
\iflanguageidloaded{⟨type⟩}{⟨id⟩}{⟨true⟩}{⟨false⟩}

where (type) is a supported language id type (such as bcp-47) and (id) is a language id (such as en-US; see table 3 on p. 8).

Finally, if you want to know whether a specific language option has been set, you can use ←

\iflanguageoption
\iflanguageoption{⟨lang⟩}{⟨key⟩}{⟨value⟩}{⟨true⟩}{⟨false⟩}

13 Revision history
1.65 (2023/10/01)

Bug fixes

- Fix spurious space in Hebrew captions (#601).
- Fix resetting of language specifications at end of inline switch (#603).

Documentation improvements

- Refer to \greeknumeral and \Greeknumeral rather than to the synonyms \greeknumber and \Greeknumber (#602).

1.64 (2023/07/21)

Bug fixes

- Fix conflict of soul with splityphens on XE\LaTeX (#600).

1.63 (2023/06/10)

Bug fixes

- Language options are now lowercased before they are handled. This fixes errors when using the options in \MakeUppercase context (e.g., in headings).
- Fix casing value for medieval Latin (this concerns ⟨u⟩ and ⟨v⟩ casing).
- Remove hacks in some gloss files where \MakeUppercase has been redefined to a no-op since the respective scripts do not have uppercasing. As \MakeUppercase is now locale-aware, these hacks are no longer needed. This concerns Arabic, Divehi, Hebrew, Hindi, Kurdish, Persian, Punjabi, Syriac, and Urdu.
- Fix Eastern (Mashriq) Arabic numbering direction with Lua\LaTeX for Arabic, Kurdish, Persian, Syriac, and Urdu (amends previous fix to #213).
- French \texttt{variant=acadian} refers to the Canadian French subvariety as spoken in the Acadian region (as opposed to Quebec French). To differentiate it we now use a dedicated subtag which can also be used to access the language (fr\text{-CA}\text{-u}\text{-sd-canb}). Note that Quebec French is currently connected with fr\text{-CA}, not the more specific fr\text{-CA}\text{-u}\text{-sd-caqc}, although the u extension is returned if requested via \BCPdata. In practice, the Canadian subvarieties of French are identical currently, anyway.
- Do not blindly de-activate the quote character in languages that provide shorthands if the shorthands are not used. This allows to activate the character with other packages such as csquotes (#592).
- Do not flood the \LaTeX hooks with redundant French itemlabels and footnote settings (#593).
- Fix Korean patching of part format with hyperref (#595).
- Make Hebrew numerals expandable (#596).
- Avoid superfluous writing of language switches to aux file (#593).

New features

- New option \texttt{capitalyiwn} for Armenian.
- New option \texttt{capitaleszett} for German.
- New option \texttt{capitaliota} for Greek.
- New option \texttt{datei} for Serbian.
- New option \texttt{sectionsep} for Arabic, Kurdish, Persian, Syriac, and Urdu (#589).
- Add aliases eastern (= mashriq) and western (= maghrib) to Arabic \texttt{numerals}. 

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• New date commands \today*, \todayGen, \todayArabic, and \todayRoman (all with starred counterparts) for Serbian (#524).
• Implement basic support for variant=ijekavian in Serbian.
• Dutch now hyphenates properly on letters with tremata. The new option, tremahyphenation, is provided to opt-out this feature.

Interface changes
• All language options are now lowercase by default (though the mechanism is case-insensitive anyway). Changes cover Kurdish, Sanskrit, Serbian.

1.62 (2023/04/22)
Bug fixes
• \BCPdata was not fully expandable as required. Now it is.

1.61 (2023/04/16)
Bug fixes
• Properly reset fonts on change to Latin-script other language (#580)
• Turn * shorthand off in aux file for Latin (#582)
• Fix stacking of nested languages and resulting bug in TOC language assignment (#585)
• Fix \greeknumeral{6} (#587)
• Fix (re)setting of scripts in inline language commands.

New features
• Introduce \BCPdata, a standardized way to gather localization information (see sec. 12).

1.60 (2023/02/11)
Bug fixes
• Remove stray U+FEFF glyphs in gloss files (#574)
• Fix vertical whitespace in captions (#575)
• Fix whitespace in dutch with shorthands.

1.59 (2022/11/29)
Bug fixes
• Do not error, but warn, after language change due to non-updated aux file (#565).
• Fix catcode issue for Latin (#566).
• Improve error message with missing fonts (#571)

New features
• Add support for (simplified and traditional) Chinese (#65, provided by TakujI Tanaka).
• Add support for Punjabi (#572), provided by Arvinder Singh.
1.58 (2022/10/26)

Bug fixes

- The option `forceheadingpunctuation` is introduced for correct running headers in Hungarian documents (#557).
- Fix language setting in list of figure and table if captions float to different language areas (#542).
- Make Croatian digraphs robust (#552).
- Fix definition of some Finnish shorthands (#554).
- Re-fix Hungarian patching of parts with hyperref (#555).
- Correct running headers in Hungarian documents (#557).
- Fix option expansion issue (#559).

1.57 (2022/07/18)

Bug fixes

- Fix passing of macros to `\setmainlanguage` and `\setotherlanguage` (#543).
- Fix `otherlanguage*` environment with bidi text (#544).
- Re-fix patching of French part headings with hyperref (#546).
- Fix Latin prosodic shorthand issues (#547, Babel/#126, Babel/#129).

New features

- New option `transliteration` to Hebrew and hebrewcal (#540).
- New option `fullyear` to Hebrew.

1.56 (2022/04/20)

Bug fixes

- Fix English setup via aliases (#539).

1.55a (2022/04/10)

Bug fixes

- Fix `\foreignlanguage` command (#538).

1.55 (2022/04/09)

New features

- New option `splithyphens` and `vlna` for Polish (#535).
- Add `babelshorthands` to Polish.

Bug fixes

- Add missing `gloss-latex.lde` file to release (#537).
1.54 (2022/03/27)

New features

- New option `splithyphens` for Serbian (#496) and Portuguese (#534).
- Add `babelshorthands` to Portuguese.
- Add `schoolhyphens` option to Finnish (#525).

Interface and defaults changes

- Rename `disableligatures` to `disabledigraphs` for Croatian (#497, #500).
- Fix output with `numerals=cyrillic-alph` (part of #503).
- Standardize February and November in Indonesian according to the Great Dictionary of the Indonesian Language of the Language Center (Kamus Besar Bahasa Indonesia) (#526).

Bug fixes

- Fix robustification of font family switches (#428).
- Preserve font family switches across languages (#519).
- Fix \TeX dash ligatures with `splithyphens` (#502).
- Prevent `missing hyphenmins` value \TeX error with unknown languages (#513).
- Fix global `babelshorthands, localmarks` and `verbose` options (#515).
- Fix Latin shorthands (#516).
- Remove spurious space in Bosnian date (#528).
- Fix \languagevariant and \mainlanguagevariant macros (#530, #531).
- Make \iflanguage loaded and friends work in preamble (#532).
- Fix deactivation of shorthands (#520).
- Fix deactivation of numerals.
- Update deprecated \TeX hooks (#523).
- Fix `luatexrenderer` option which was not considered appropriately (#533).
- Turn warning about `totalhyphenmin` to info, which is more appropriate (#111).

Documentation improvements

- Document in this manual where to report bugs (#512).

1.53 (2021/04/12)

New features

- New option `localalph` for Croatian (#486).
- Use ordinals in part and chapter headings. A new option `chapterformat` has been added to disable this or change format to Roman numbering (#479).
- New command `\uyghurordinal` and `\uyghurod` to produce Uyghur ordinals from 1–100.

Bug fixes

- Fix typo in Uyghur language definition file (#479).
- Fix Uyghur date format (#479).
- Fix Uyghur caption format and add `swapstrings` option (#479).
- Add overlooked digraphs in Croatian (#484).
- Fix typo in Serbian `\thepart` (#485).
- Fix part modifications in Hungarian with `hyperref` (#493).
1.52 (2021/03/16)

New features

- Adaptations to EPiX 2021/05/01 pre-release 2 for Korean (#477).
- Add support for Uyghur (#475).
- New option mathfunctions for Russian and Ukrainian allows to disable the definitions of math macros that might clash with other packages (#465).
- Support LaTeX’s new NFSS hooks (#471).

Bug fixes

- Fix French part modifications with hyperref (#469).
- Fix markup of French \see and \alsouname (#468).

1.51 (2020/12/08)

New features

- New option frenchpart for French (#458).
- New option splithyphens for Croatian (#454).

Bug fixes

- Use new LaTeX core hooks rather than filehook package. This fixes a recent breakage of filehook with other external packages (#453).
- Remove very old code that pretends polyglossia is babel (#455).
- Fix spelling of Albanian contentsname (#456).
- Fix part heading modification in French (#458).
- Fix extra space in Hebrew (#459).
- Register main polyglossia language earlier (#461).
- Allow for hyphenations in words following opening guillemet in French with XeTeX (#462).

1.50a (2020/10/15)

Bug fixes

- Assure \autodot is defined with \KOMAScript in Russian.

1.50 (2020/10/09)

New features

- Polyglossia now uses the Harfbuzz renderer by default with LuaTeX output. This brings LuaTeX on par with XeTeX for all scripts (#335). The renderer can be changed via the new global luatexrenderer option.
- The (previously inadvertently working) hyphenrules environment that ceased to work after a recent babel update is back and now officially supported. The environment now also supports language options and aliases (#427).
- New command \setlanghyphenmins to adapt hyphenation thresholds of languages and varieties.
- New command \abjadalph for Arabic with corresponding option (#431).
• Replace consecutive glues around punctuation by the correct amount of space with lualatex for French, ecclesiastic Latin, and Sanskrit (#437).

Bug fixes

• Remove warning about missing Brazil patterns (#404).
• Fix incompatibility with recent babel release (#408).
• Fixed some spellings in Marathi (#409).
• Fix spacing of geminating dot in Catalan (#410).
• Fix incompatibility of Marathi with beamer.
• Correct \partname in Hindi (#416).
• Updates and improvements to Kurdish (#418).
• Only activate shorthand character if babelshorthands is true (#421).
• Fix whitespace issue in Czech and Slovak with vlna=true (#423).
• Fix whitespace issue in Danish (#424).
• Fix catcode conflicts that might occur in language definition files f. ex. when loaded from a LaTeX3 class (#67, #425).
• Robustify font family switches (#428).
• Fix whitespace issue in Russian indentfirst option (#433).
• In Russian, indentfirst is now again default (#434).
• Fix LaTeX error with arabic numbering in Ukrainian (#440).
• Fix directionality after Hebrew decimal numbers (#441).
• Fix babel\name of Latin Serbian (#442).
• Fix recording of secondary languages in \xpg@bloaded and \xpg@bcp@loaded lists (#443).
• Simplify and robustify section heading modification in Russian and introduce option forceheadingpunctuation (#444).
• Fix Cyrillic dash (via babelshorthand “---”) when TeX ligatures are disabled (#445).
• Fix problem with large character indices in Lua module for punctuation spacing

Interface and defaults changes

• Polyglossia now uses the Harfbuzz renderer by default with LuaTeX output. See new features section.

Build fixes

• Fix an embarrassing bug in the dtx build script which was the reason for an utterly incomplete polyglossia.dtx file (#420).

Documentation improvements

• Document how to change \lefthyphenmin and \righthyphenmin for a language (#435).

1.49 (2020/04/08)

New features

• Add hook \polyglossia@language@switched to the external package interface (#398).
• Real fix for #400, that wasn’t properly taken care of in 1.48.

Bug fixes

• Fix compilation error with some swapstring options in Hungarian (#373).
• Fix whitespace problem in Greek language.

Interface and defaults changes
• Changed Finnish caption for "Table of Contents" to "Sisällys" (#403).

1.48 (2020/03/25)
• No new features

Bug fixes
• Fix use of Hebrew with LuaLaTeX (#389).
• Do not overwrite footnote redefinitions of other packages with Latin and French (#391).
• Fix Serbian cyrillic numerals code (#392).
• Fix [no]localmarks option, whose logic was swapped (part of #395).
• Protect localmarks function against uppercased language names (part of #395).
• Fix buggy redefinition of \markright with option localmarks (#396).
• Fix incompatibility between Latin and unicode-math (#394).
• Make (undocumented) \defineshorthand command (imported from babel) work.
• Fix usage of localmarks option without value.
• Emergency fixes for bugs caused by updates in babel's switch.def (#399 and #400).

Interface and defaults changes
• Use private macros in keyval choice keys (#390).

1.47 (2020/01/29)

New features
• IETF BCP-47 compliant language tags can now be used for loading and switching languages alternatively to language names (#226).
• New commands \languageid{<type>} and \mainlanguageid{<type>}.
• New test \iflanguageidloaded.
• New list \xpg@bcp@loaded.
• New environment \{lang\}{<lang>} (this is equivalent to \{<lang}\), but also available with \setlanguagealias* which does not define dedicated alias environments).
• New gloss option totalhyphenmin (corresponds to LuaTeX's \hyphenationmin) (#111).
• New test \iflanguageoption{<lang>}{<key>}{<val>} (#364).
• Restore simple alphabetic numbering for \asbuk and \Asbuk in Belarusian, Mongolian, Russian, Serbian, and Ukrainian (#377).
• New command \asbukTrad and \asbukTrad for Belarusian, Mongolian, Russian, Serbian, and Ukrainian which uses traditional alphanumerical numbering.
• New numerals option cyrillic-trad and cyrillic-alph to differentiate simple alphabetic and traditional alphanumerical Cyrillic numbering.
• \selectbackgroundlanguage and \resetdefaultlanguage now also support language aliases.
• New macro \charifavailable{<char code>}{<substitution>},
• Add French language variant swiss.
• Implement babelshorthands for Croatian.
• Implement \localnumeral for Japanese.
Bug fixes

- Fix font family issue in headers (#355).
- Fix whitespace issues in \text{\text<lang>} (#356).
- Fix option-less \babelname in multi-variant languages (#357).
- Fix some spacing inconsistencies with French, Latin, and Sanskrit (#358).
- Fix issues with babelshorthands and graphics package (#368).
- Fix some captions and improve numbering in Marathi (#370).
- Fix Hungarian swapstrings feature (#373).
- Fix lua punctuation code problem (#374).
- Fix Bengali changecounternumbering feature (#381).
- Fix whitespace issue in Japanese (#387).
- Fix \text<lang> command with multiple paragraphs.
- Actually implement documented german spelling variant 1996 (= new).
- Fix Slovenian localalph option.
- Fix Czech and Slovak splithyphens with typewriter fonts.
- farsical.sty: fix spacing issue with some month names.
- Fix directionality of numbers in Hebrew with XeTeX.
- Improve interoperatability with biblatex (some language variants did not work yet).

Interface and defaults changes

- Some boolean options had false value by default, which meant if you passed them without value, the logic was reversed. This has been changed, leading to change of behavior should you have used one of these options without value (#363). Concerned are the following options:
  - babelshorthands in language Belarusian, Mongolian, Ukrainian, and Russian (now babelshorthands equals babelshorthand=true, no longer babelshorthands=false).
  - localalph in language Slovenian (localalph now equals localalph=true).
  - fullyear in package hebrewcal (fullyear now equals fullyear=true).
- The option latesthyphen in language German is deprecated. Xe\LaTeX and Lua\LaTeX nowadays always use the latest German hyphens.
- The command \setlanguagealias* (introduced in v1.46) does no longer define dedicated alias environments.
- The babelnames for Latin variants are now changed to classiclatin, ecclesiasticlatin and mediievallatin. This is how the hyphenation patterns and \babel\extra\s are named, even though the variants can currently be selected in \babel only via appended "dot modifier".
- In accordance with the respective \l3kernel change, \str\lower\case:n has been renamed to \str\lower\case:n where used in polyglossia.sty. Thus polyglossia 1.47 requires \l3kernel 2020-01-12 at least.

1.46 (2019/11/15)

New features

- Add option indentfirst to Russian (#78).
- Add options to set and customize French-style itemize item labels to French (#89).
- Polyglossia now decodes all supported babel language names in \setdefaultlanguage, \setotherlanguage and the language switching commands (#112, #132).
- Add optional localized math operators to Spanish (#123).
- Swap section headings in Hungarian (#344). New option \texttt{swapstrings} provides control over this.
- Introduce macro \texttt{\setlanguagealias} and \texttt{\setlanguagealias*}.
- Introduce language switching command \texttt{\textlang{lang}{...}} (these are equivalent to \texttt{\text<lang>}, but also available with \texttt{\setlanguagealias*} which does not define \texttt{\text<alias>}).
- Add support for Afrikaans.
- Add support for Belarusian.
- Add support for Bosnian.
- Add support for Georgian.
- Add Spanish variant \texttt{mexican}.
- Add babelshorthands as well as options \texttt{splithyphens} and \texttt{vlna} to Slovak.
- Add Latin language variant \texttt{ecclesiastic}.
- Add Latin language options \texttt{capitalizemonth}, \texttt{ecclesiasticfootnotes}, \texttt{hyphenation}, \texttt{prosodicshorthands}, and \texttt{usej}.
- Add Latin shorthands for «, », æ, Æ, œ, and Œ.
- Add French language option \texttt{thincolonspace}.

Bug fixes

- Fix problems with fragile font settings (#24).
- Fix clash of French punctuation spacing with the \texttt{soul} package (#52).
- Re-enable the possibility to pass a macro as main argument to \texttt{\setmainlanguage} and \texttt{\setotherlanguage} (#331).
- Fix detection of default \texttt{\languagevariant} (#332).
- Fix LaTeX error with undefined hyphenation pattern (#346).
- Fix some babel shorthand issues by updating the shorthand code from recent babel.
- Fix some problems with French and Latin auto-spacing (#345, #352).
- Fix an \texttt{expl3} declaration (#348).

Interface and defaults changes

- The sub-package \texttt{cyrillicnumbers.sty} has been renamed to \texttt{xpg-cyrillicnumbers.sty} (per TeXLive request).
- In Russian, all paragraphs are now indented by default, as common in Russian typography. The behavior can be opted out by \texttt{indentfirst=false}.
- In Czech, \texttt{splithyphens} and \texttt{vlna} are enabled by default. Also, the option does now work as well with LuaTeX.
- Changed option name \texttt{fraktur} to \texttt{blackletter} in German (the former is still available as an alias).
- In French, high punctuation characters and guillemets are spaced by half an interword space now instead of a \texttt{\thinspace} (cf. #345).

1.45 (2019/10/27)

New features

- Introduce a framework for external packages to access language variants. This fixes, among other things, long-standing problems in the interaction of \texttt{biblatex} and \texttt{polyglossia}.
- Add new macros \texttt{\languagevariant} and \texttt{\mainlanguagevariant} as well as \texttt{\babelname} and \texttt{\mainbabelname} for package authors to access language information.
• Add new test \iff<language>\{<true}\{<false>\} where <language> can be a polyglossia or babel language name.
• Add new macros \localnumeral, \localnumeral*, \Localnumeral and \Localnumeral* that convert Arabic digits to the local number scheme.
• Add new macro \pghyphenation to add language-specific hyphenation exceptions (#18).
• Add support form (Khalkha & Cyrillic) Mongolian in line with babel-mongolian (#23).
• Add option splithyphens and vlna to Czech (XeTeX only; for LuaTeX, use the package luavlna to get these features) (#32).
• Add support for Kurdish, both Kurmanji and Sorani (#277).
• Implement proper Cyrillic (alphanumeric) numbering (#285).
• Add new language friulian. This deprecates friulan (which is still supported for backwards compatibility).
• Add new language malay with variants indonesian and malaysian. This deprecates bahasa and bahasa (which are still supported for backwards compatibility).
• Add new language gaelic with variants irish and scottish. This deprecates irish and scottish as own polyglossia languages (which are still supported for backwards compatibility).
• Add new language hungarian. This deprecates magyar (which is still supported for backwards compatibility).
• Add new language sorbian with variants lower and upper. This deprecates lsorbian and usorbian (which are still supported for backwards compatibility).
• Add new language portuguese with variants portuguese and brazilian. This deprecates brazil and portuges (which are still supported for backwards compatibility).
• Add new language norwegian with variants nynorsk and bokmål. This deprecates nynorsk and norsk (which are still supported for backwards compatibility).
• Add new language persian. This deprecates farsi (which is still supported for backwards compatibility).
• Add new language sami. Currently only Northern Sami is supported. This deprecates samin (which is still supported for backwards compatibility).
• gloss-serbian: add numerals=cyrillic option. Add \asbuk and \Asbuk (#285).
• Implement basic support for (French) canadien and (English) canadian (#22).
• Improve support for Armenian (#79): Add captions, Eastern month names (accessible via variant=eastern) and Armenian alphabetic numbering (via numerals=armenian and \armenicnumeral).
• Add french option autospacing and commands \AutoSpacing, \NoAutoSpacing This allows to switch off autospacing globally or locally (#113).
• Fixup \normalfont (#203).
• Fix directionality issues in mixed RTL/LTR paragraphs (#204).
• Implement babelshorthands for Finnish (#212) and Czech.
• Implement access to current language via Lua (#243).
• Introduce french option option autospacetypewriter alias OriginalTypewriter.
• Support \emph with lualatex
• Rename automaticspacesaroundguillemets to autospaceguillemets The old option is kept for backwards compatibility.

Bug fixes

• Fix equation number in Arabic and Farsi (#7).
• Simplify and document Hebrew marcheshvan option (#16).
• Fix hyphenation of Greek with LuaTeX (#55).
• Fix N’ko date format (#63).
• Disable the extras of a language when a nested language starts (#66, #169).
• Properly implement Bengali numbers (#69, #184).
• Fix conflicts with other packages caused by premature shorthand activation in preamble (#81, #200).
• Fix kerning in math with French (#92).
• Fix expansion issue in Hebrew (#93).
• Postpone \disablehyphenation in preamble until after setting of document language (#125).
• Postpone the assignment of defaultfamily to \AtBeginDocument, thus do not overwrite \familydefault redefinitions in the preamble (#127).
• Reset number settings when switching language (#133).
• Hebrew: Properly store \MakeUppercase for later restoration (#152).
• Fix whitespace issue in \datewelsh (#158).
• When switching language, set the language/script specific font families (#164).
• Correct some Bengali captions (#165).
• Fix documentation of Serbian (#168).
• Reset ucl codes in Latin only if the respective variant is used (#172).
• Fix \disablehyphenation with LuaTeX (#187).
• Fix typos in Hindi captions (#202).
• Pass language options to the aux files (#205).
• Rewrite and fix English variant handling (#208).
• Define magyar caption formats in \blockextras and undef them in \noextras (#209).
• Ensure proper direction with arabic digits in Arabic and Farsi (#213).
• Fix \linespread with Korean (#218).
• Define Russian caption before key allocation (#219).
• Register current language in polyglossia lua module after selection (#234).
• Fix babel language switching commands (#239): \foreignlanguage and the starred otherlanguage* environment are not supposed to change dates.
• Fix French spacing leaking beyond French (#270).
• Redefine font families for French only if language is loaded (#270).
• gloss-russian:
  • Check whether command exist before redefining (#280).
  • Fix some whitespace issues.
• Fix and simplify \frenchfootnote definition (#294).
• Fix footnote numbering in Farsi.
• Fix Latin footnotes in Arabic documents.
• Set the correct main direction with luabidi.
• Fix autospaceguillemets option in French.
• Fix grouping in gloss-danish.ldf.
• Properly store \MakeUppercase and \arabic for later restoration.

Documentation

• Add documentation about footnotes in RTL context
• Document Tibetan numerals option (#109).
• Improve \frenchfootnote documentation.
• Mention Japanese support in the docs.

1.44 (2019/04/04)

• Correction to Russian language file, by Maksim Zholver (commit d2f383e).
• Added Macedonian language file, by Stefan Zlatinov (commit cd379e1).

1.43 (2019/03/05)
• Correction to Hindi language file, by Zdeněk Wagner.

1.42.5 (2017/04/13)
• Many changes to the French language file, by Maïeul Rouquette.

1.42.4 (February, March 2016)
• Remedial actions for the babel changes.
• Fixed side effect of pull request #122 (see commit d2a34ff).
• Added automatic Josa selection, variant, and captions options to Korean, by Dohyun Kim (pull request #128).
• Updated gloss-occitan from CTAN.

18-01-2016
• Fixed issue #124 (minor typo in polyglossia-frpt.lua)
• Merged pull request #117 for more French guillemet spacing
• Merged pull request #121 to add \bbi@loaded; fixes issue #120
• Merged pull request #122 that build on #121
• Merged pull request #116 for French (spacing around guillemets)
• Fixed issue #115 (spurious spaces in Arabic)

19-08-2015
• Fixed issue #107 for Marathi (labels and month names)

1.42.0 (2015/08/06)
• Add Bengali digits package, and option to reset all numbering functions.
• Add long option for Welsh date.
• Add local alphabet in Slovenian, for enumerations and such.
• Fix long-standing bug with Welsh: date should use ordinals.
• Fix for Latin with LuaTeX: all variants had same problems as Classic.
• Fixed error with British variant of English and LuaTeX (issue #86).

1.41.0 (2015/07/16)
• Added support for Khmer, by Say Ot (private email)

1.40.1 (2015/07/14)
• Bugfix for Korean, by Dohyun Kim (pull request #103)

1.40.0 (2015/07/07)
• gloss-korean.ldf contributed by Dohyun Kim (pull request #102)
1.33.7 (2015/07/04)

- Release to CTAN, no code change
- Fixed extraneous space in code for Swiss German (pull request #101)
- Fixed a typo in Ukrainian alphabet, for \Asbuk (pull request #99)
- Fix for Classic Latin: load patterns for LuaTeX
- Made \rmfamily, \sffamily and \ttfamily robust again
- Merged fix for Hebrew date format, by Guy Rutenberg (pull request #94)
- Merged fix for spurious space, by Caleb McKennan (pull request #91)
- Merged pull request #84 by Élie Roux for Tibetan
- Added support for Swiss German (pull request #75)
- Added commands \Asbuk and \asbuk for Ukrainian (pull request #76), similar to Russian
- Documented changes to Latin from last year.
- Be friendlier to right-to-left languages with LuaTeX
- Enhanced Latin support by Claudio Beccari

1.33.6 (2015/05/15)

- Introduce a classical and medieval variant of Latin
- Add \Asbuk and \asbuk for Ukrainian (after their Russian counterpart)
- Fix a number of bugs

1.33.5 (2014/05/21)

- Option to disable hyphenation entirely, by Élie Roux
- Fix spurious spaces in gloss-russian.ldf, by Oleg Domanov
- Support for the Austrian variant of German, by Jürgen Spitzmüller
- Changes to the Croatian translations, by Ivan Kokan
- Correction to the Lithuanian translations, by Ignas Anikevičius

1.33.4 (2013/06/27)

- Emergency release for a bug introduced in babel.sh.def

1.33.3 (2013/05/28)

- Changed formatting of some error messages (emergency fixes for TeX Live 2013)

1.33.2 (2013/05/26)

- Added \disablehyphenation and \enablehyphenation, contributed by Élie Roux.
- Fixed bug related to package inclusion. Polyglossia would break if we loaded breqn.sty, and then called \setmainlanguage(english), this is no longer the case.
- Removed spurious space introduced by \captionswedish.

1.33.1 (2013/05/23)

- Editorial changes to the documentation
- Hunted and documented bugs

69
1.33.0 (2013/05/20)

- Added support for N’Ko.
- Bugfixes for LuaTeX
- More work in progress on Bidi in LuaTeX.

1.32.0 (2013/05/15)

- Transitional version to support right-to-left languages with LuaTeX.

1.31 (2013/05/10) / 1.3 (2013/05/11)

- Several bugfixes.
- Sync with babel 3.9.
- Consolidated support for LuaTeX for all languages but the ones using South and South-East Asian scripts, and languages written from right to left. Many thanks to Élie Roux for his help.
- Added support for Tibetan, contributed by Élie Roux (end of lines are experimental).

1.30 (2012/08/06)

- Added support for LuaTeX. Many languages don’t work yet. Please be patient.

1.2.0e (2012/04/28)

- Fixed a number of outstanding and not very interesting bugs.
- Added gloss files for Romansh and Friulan, contributed by Claudio Beccari.

1.2.0d (2012/01/12)

- Removed \makeatletter and \makeother from gloss files entirely.

1.2.0c (2011/10/12) [First update by Arthur Reutenauer]

- Update to gloss-italian.ldf by Claudio Beccari, incorporating changes by Enrico Gregorio.
- Conclude every gloss file with \makeatother to match the initial \makeatletter. (Not necessary from a technical point of vue, because of one of the changes by Enrico reported below, but I like it better that way :-)
- Conclude polyglossia.sty with \ExplSyntaxOff to match the initial \ExplSyntaxOn.
- Added gloss file for Kannada, contributed by Aravinda VK and others.
- Corrections to the gloss-dutch.ldf thanks to Wouter Bolsterlee.
- Several patches by Enrico Gregorio, fixing long-standing bugs. From the git log:
  - Deleted setup for right-to-left writing direction, see http://tug.org/pipermail/xetex/2011-April/028319.html
  - Changed three appearances of \newcommand to \newrobustcmd, as the commands needs to be protected. Bug reported by Kamensky.
  - Corrected \datepolish as suggested by Piotr Kempa
  - Changed \lccode into \lccode\string", because it might come into action at wrong times when " is active
  - Changed definition of key \xpg@setup, as @tmpfirst and @tmpsecond were not expanded, causing dependence of \lefthyphenmin and \righthyphenmin to the last loaded language. Raised by Vadim Rodionov on the XeTeX mailing list.
- Deleted \group and \egroup tokens from the definition of otherlanguage*; they serve no purpose (we are already inside an environment) and conflict with csquotes. Noticed by P. Lehman.
- Changed the calls of \input to \xpg@input, which inputs the required file and resets the catcode of @ to the same value as it had before the input. Since each .ldf file starts with \makeatletter, the old behaviour would leave a category 11 @, which is wrong.
- Added \csuse{date#2} to the definition of otherlanguage*.

1.2.0b (2011/10/03) [Update by Philipp Stephani]
- Load xkeyval package explicitly since newer versions of fontspec don’t load it any more.

1.2.0a (2010/07/27) [Last update by François Charette]
- Initialize \fontfamily acc to value of \familydefault (Fixes a bug when using polyglossia with beamer)
- Remove spurious space in def of \dateenglish
- Add missing English variant american
- Serbian: fix date format and captions (Latin+Cyrillic)
- Fix \atticnumeral in gloss-greek
- Small improvements and fixes in documentation

1.2.0 (2010/07/15)
- Adapted for fontspec 2.0 (will not work with earlier versions!)
- Implementation of a \PolyglossiaSetup interface that simplifies writing gloss-*.ldf files
- Many internal enhancements and refactoring (including a patch by Dirk Ulrich)
- Improved automatic font setup when \langfont is not defined
- New environment otherlanguage* (equivalent to \foreignlanguage (EnRico Gregorio)
- Bugfix to prevent bogus expansion of \{rm,sf,tt\}family even in aux files (EnRico Gregorio)
- New gloss files for Armenian, Bengali, Occitan, Bengali, Lao, Malayalam, Marathi, Tamil, Telugu, and Turkmen.
- New auxiliary packages devanagaridigits and bangalidigits
- hijrical no longer loads bidi and checks for incompatible l3calc
- Add babel shorthands for Russian (based on a patch by Vladimir Lomov)
- Fix \fnum\{table,figure\} for Lithuanian
- Various improvements in gloss-russian (provided by Vladimir Lomov and others)
- Corrected captions for Bahasa, Lithuanian, Russian, Croatian
- Add option indentfirst=true for Spanish, Croatian and other languages (indentfirst was previously named frenchindent)
- New option script for German: Setting script=fraktur modifies the captions for typesetting in Fraktur.
- New command \emph for Arabic, Farsi, Urdu, etc. to mark emphasis through overlining.
- Package option nolocalmarks is now true by default: to activate it the option localmarks must be passed instead.
- Loading languages à la babel as package options is no longer possible (this feature was deprecated since v1.1.0).
1.1.1 (2010/03/23)

- Bugfix for French: explicit spaces before/after double punctuation signs (Par exemple : les grands « espaces » du Canada !) are now replaced by the appropriate non-breaking spaces, as in babel.
- Bugfix for font switching mechanism within Latin script (pending a complete re-implementation in v1.2): the font shape and series are no longer reset when switching language.
- New macros for non-Western decimal digits (instead of fontmappings)
- New gloss files for Asturian, Lithuanian and Urdu
- \hijrical.sty is now locale-aware: \hijritoday is formatted differently in Arabic, Farsi, Urdu, Turkish and Bahasa Indonesia.
- Enable babelshorthands for Dutch
- Add missing macro \allowhyphens
- Add global option babelshorthands
- Support Catalan gminated I
- Bugfix when declaring more than one pkg option
- Protect \reset@font
- Add missing requirement makecmds
- Bugfix for smallcaps in captions
- Typo for ccname in Hebrew
- Add option numerals to gloss-russian
- Provide \newXeTeXintercharclass when undefined
- Bugfix for Russian \alph
- Remove superfluous level of {} in definition of \markright
- Bugfix for \datecatalan
- Change hyphenmins for Sanskrit

1.1.0b (2009/11/22)

- Modify \hyphenmins for Sanskrit (Yves Codet)
- Bugfixes for Serbian and Bulgarian (EnRico GRegoRio)

1.1.0a (2009/11/22)

- Bugfix for interchar tokens

1.1.0 (2009/11/20)

- Use \newXeTeXintercharclass (thanks to EnRICO GREGORIO)
- Fixed implementation of shorthands for German (babel code in file babelsh.def)
- Arabic (Khaled Hosny):
  - Fix abjad form for 3 and 5 and add option \abjadjimnotail
  - bugfix for \arabicnumber
  - make Gregorian calendar the default
  - fixed typos in the sample text
- Turkish (S. O. Yildiz):
  - fix white-space before : and !
  - also check if the font specified TRK for language
  - added missing Turkish translation of “Glossary”
- Suppress nopattern warning for non-hyphenated scripts
- Changed U+0163 to U+021B for Romanian (Elie Roux)
- Stylistic fixes and use macro \xp@option for package options (E. Gregorio)
• Fix month names in Dutch (A. Ledda)
• Add Brazilian translation for “glossary”
• Remove spurious space generated by gloss-spanish
• Fix ldf file for brazilian
• Various improvements in the code communicated by E. Gregorio:
  • remove superfluous \protect\language
  • change default language from 0 to \@nohyphenation=255
  • localize lccode handling of apostrophe in French; add it to Italian
• Fix frenchspacing for Vietnamese
• Other minor bugfixes

1.0.2 (2009/01/27)
• Captions corrected in Hebrew, Russian and Spanish
• Removed all \text<lang> wrappers within caption definitions
• Improved compatibility with babel
• New option babelshorthands for German
• New option Script for Sanskrit

1.0.1 (2008/07/31)
• Improved documentation (added sections on font setup and numeration mappings)
• Improvements and bugfixes for English and German
• Bugfix in gloss-syriac.ldf (spurious space after \textsyriac{...})
• Extended the scope of \syriacabjad
• Added gloss-amharic.ldf (ported from ethiop.ldf in the package ethiop)

1.0 (2008/07/13)
• Initial release on CTAN.

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15 More acknowledgements (by the current development team)

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