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Polyglossia: Modern multilingual typesetting with Xe^ΛTeX and Lua^ΛTeX

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*Please report bugs to <https://codeberg.org/polyglossia/polyglossia/issues>

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1 Introduction

Polyglossia is a package for facilitating multilingual typesetting with $\text{X}\text{\LaTeX}$ and $\text{Lua}\text{\LaTeX}$. 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).¹
8. Ensuring proper directionality if the document contains languages that are written from right to left (via the package **bidir**, available separately).

Several features of **babel** that do not make sense in the $\text{X}\text{\LaTeX}$ 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 $\text{X}\text{\LaTeX}$ and $\text{Lua}\text{\LaTeX}$, it obviously also relies on **fontspec** by **WILL ROBERTSON**. For languages written from right to left, it needs the package **bidir** (for $\text{X}\text{\LaTeX}$) or **luabidir** (for $\text{Lua}\text{\LaTeX}$) by **Vafa Khalighi** (وفا خلیقی) and the **bidir-tex GitHub Organisation**. Polyglossia also bundles four packages for calendaric computations (**hebrewcal**, **chinesecl**, **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

```
\setdefaultlanguage[options]{lang}
```

¹This is done by bundled sub-packages such as **arabicnumbers**.

`\setmainlanguage` (or, equivalently, `\setmainlanguage`). Secondary languages are specified with `\setotherlanguage[options]{lang}`.

All these commands allow you to set language-specific options.² It is also possible to load a series of secondary languages at once (but without options) using

`\setotherlanguages{lang1,lang2,lang3,...}`.

All language-specific options can be modified locally by means of the language-switching commands described in section 3.

If you use the `\DocumentMetadata` L^AT_EX core command to set up PDF properties, its keys **language** and **other-languages** are recognized by **polyglossia** and automatically set main and secondary languages. Later uses of

`\setdefaultlanguage` `\setdefaultlanguage` or `\setotherlanguage` might be used to overwrite the default language or extend list of additional languages. The recognition of `\DocumentMetadata` keys can be prevented with the **polyglossia** option **metadata**.

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.

Nota bene Support for Chinese and Japanese is experimental. This particularly concerns the line breaking mechanism which is a proof of concept. Please use with care and report any issues and unexpected output you encounter.

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 Armenian, Occitan, Bengali, Lao, Malayalam, Marathi, Tamil, Telugu, and Turkmen.³ 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,

²Section 6 documents these options for the respective languages.

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

Table 1. Languages currently supported in `polyglossia`

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

v1.52
v1.59
v1.66
v2.10

Bosnian and Georgian. Version 1.52 ← introduces support for Uyghur. Version 1.59 ← adds support for (simplified and traditional) Chinese and for Punjabi. Version 1.66 ← introduces support for Odia. Version 2.10 ← introduces support for Kyrgyz (Cyrillic writing). This is experimental, and feedback is welcome. Particularly, no hyphenation patterns for Kyrgyz exist yet.

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.

Table 2. Babel-polyglossia language name matching

Babel name	Polyglossia name	Polyglossia options
------------	------------------	---------------------

acadian	french	variant=acadian
american	english	variant=american [<i>default</i>]
australian	english	variant=australian
austrian	german	variant=austrian, spelling=old
bahasa	malay	variant=indonesian [<i>default</i>]
bahasam	malay	variant=malaysian
brazil	portuguese	variant=brazilian
british	english	variant=british
canadian	english	variant=canadian
canadien	french	variant=canadian
classicallatin	latin	variant=classic
farsi	persian	
ecclesiasticallatin	latin	variant=ecclesiastic
friulan	friulian	
german ⁴	german	spelling=old
german-at	german	variant=austrian
german-at-1901	german	variant=austrian, spelling=old
german-austria	german	variant=austrian
german-austria-1901	german	variant=austrian, spelling=old
german-ch	german	variant=swiss
german-ch-1901	german	variant=swiss, spelling=old
german-switzerland	german	variant=swiss
german-switzerland-1901	german	variant=swiss, spelling=old
german-de	german	variant=german [<i>default</i>]
german-de-1901	german	spelling=old
german-germany	german	variant=german [<i>default</i>]
german-germany-1901	german	spelling=old
irish	gaelic	variant=irish [<i>default</i>]
kurmanji	kurdish	variant=kurmanji
lowersorbian	sorbian	variant=lower
magyar	hungarian	
medievallatin	latin	variant=medieval
naustrian	german	variant=austrian
newzealand	english	variant=newzealand
ngerman	german	variant=german [<i>default</i>]
norsk	norwegian	variant=bokmal
nswissgerman	german	variant=swiss
nynorsk	norwegian	variant=nynorsk [<i>default</i>]
polutonikogreek	greek	variant=polytonic
portuges	portuguese	variant=portuguese [<i>default</i>]
samin	sami	
scottish	gaelic	variant=scottish
serbianc	serbian	script=Cyrillic
slovene	slovenian	

⁴Only available in [polyglossia](#) as *germanb*, *german-de-1901*, and *german-germany-1901* (which are [babel](#) synonyms) due to the name conflict with [polyglossia](#)'s *german*.

spanishmx	spanish	variant=mexican
swissgerman	german	variant=swiss, spelling=old
uppertsorbian	sorbian	variant=upper [<i>default</i>]

v1.46

For convenience reasons, `polyglossia` also supports the use of babel names $\leftarrow$ (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

v1.47

`Polyglossia` $\leftarrow$ also supports the use of language tags that conform to the IETF BCP-47 *Best Current Practice*.⁵ Thus, you can use tags such as `en-GB` (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>}` ... `\end{lang}` and the `babel` language switching commands/environments documented in section 3.2. Table 3 lists the currently supported tags.

Table 3. BCP47-polyglossia language name matching

BCP-47 tag	Polyglossia name	Polyglossia options
aeb	arabic	locale=tunisia
af	afrikaans	
afb	arabic	locale=default
am	amharic	
apd	arabic	locale=default
ar	arabic	
ar-IQ	arabic	locale=mashriq
ar-JO	arabic	locale=mashriq
ar-LB	arabic	locale=mashriq
ar-MR	arabic	locale=mauritania
ar-PS	arabic	locale=mashriq
ar-SY	arabic	locale=mashriq
ar-YE	arabic	locale=default
arq	arabic	locale=algeria
ary	arabic	locale=morocco
arz	arabic	locale=default

⁵Please refer to <https://tools.ietf.org/html/bcp47> and https://en.wikipedia.org/wiki/IETF_language_tag for details.

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

BCP-47 tag	Polyglossia name	Polyglossia options
ast	asturian	
ayl	arabic	locale=libya
be	belarusian	
be-tarask	belarusian	spelling=classic
bg	bulgarian	
bn	bengali	
bo	tibetan	
br	breton	
bs	bosnian	
ca	catalan	
ckb	kurdish	variant=sorani [<i>default</i>]
ckb-Arab	kurdish	variant=sorani, script=Arabic [<i>default</i>]
ckb-Latn	kurdish	variant=sorani, script=Latin
cop	coptic	
cy	welsh	
cz	czech	
da	danish	
de	german	
de-AT	german	variant=austrian, spelling=new
de-AT-1901	german	variant=austrian, spelling=old
de-AT-1996	german	variant=austrian, spelling=new
de-CH	german	variant=swiss, spelling=new
de-CH-1901	german	variant=swiss, spelling=old
de-CH-1996	german	variant=swiss, spelling=new
de-DE	german	variant=german, spelling=new
de-DE-1901	german	variant=german, spelling=old
de-DE-1996	german	variant=german, spelling=new [<i>default</i>]
de-Latf	german	script=blackletter
de-Latf-AT	german	variant=austrian, spelling=new, script=blackletter
de-Latf-AT-1901	german	variant=austrian, spelling=old, script=blackletter
de-Latf-AT-1996	german	variant=austrian, spelling=new, script=blackletter
de-Latf-CH	german	variant=swiss, spelling=new, script=blackletter
de-Latf-CH-1901	german	variant=swiss, spelling=old, script=blackletter
de-Latf-CH-1996	german	variant=swiss, spelling=new, script=blackletter
de-Latf-DE	german	variant=german, spelling=new, script=blackletter
de-Latf-DE-1901	german	variant=german, spelling=old, script=blackletter

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

BCP-47 tag	Polyglossia name	Polyglossia options
de-Latf-DE-1996	german	variant=german, spelling=new, script=blackletter
dsb	sorbian	variant=lower
dv	divehi	
el	greek	
el-monoton	greek	variant=monotonic [<i>default</i>]
el-polyton	greek	variant=polytonic
en	english	
en-AU	english	variant=australian
en-CA	english	variant=canadian
en-GB	english	variant=british
en-NZ	english	variant=newzealand
en-US	english	variant=us [<i>default</i>]
eo	esperanto	
es	spanish	
es-ES	spanish	variant=spanish [<i>default</i>]
es-MX	spanish	variant=mexican
et	estonian	
eu	basque	
fa	persian	
fi	finnish	
fr	french	
fr-CA	french	variant=canadian
fr-CA-u-sd-canb	french	variant=acadian
fr-CH	french	variant=swiss
fr-FR	french	variant=french [<i>default</i>]
fur	friulian	
ga	gaelic	variant=irish [<i>default</i>]
gd	gaelic	variant=scottish
gl	galician	
grc	greek	variant=ancient
he	hebrew	
hi	hindi	
hr	croatian	
hsb	sorbian	variant=upper [<i>default</i>]
hu	hungarian	
hy	armenian	
ia	interlingua	
id	malay	variant=indonesian
is	icelandic	
it	italian	
ja	japanese	
ka	georgian	
kg	kyrgyz	

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

BCP-47 tag	Polyglossia name	Polyglossia options
km	khmer	
kmr	kurdish	variant=kurmanji
kmr-Arab	kurdish	variant=kurmanji, script=Arabic
kmr-Latn	kurdish	variant=kurmanji, script=Latin
kn	kannada	
ko	korean	
ku	kurdish	
ku-Arab	kurdish	script=Arabic
ku-Latn	kurdish	script=Latin
la	latin	
la-x-classic	latin	variant=classic
la-x-ecclesia	latin	variant=ecclesiastic
la-x-medieval	latin	variant=medieval
lo	lao	
lt	lithuanian	
lv	latvian	
mk	macedonian	
ml	malayalam	
mn	mongolian	
mr	marathi	
nb	norwegian	variant=bokmal
nko	nko	
nl	dutch	
nn	norwegian	variant=nynorsk [<i>default</i>]
oc	occitan	
or	odia	changecounternumbering=false, numerals=Devanagari [<i>default</i>] numerals=gurmukhi
pa	punjabi	
pl	polish	
pms	piedmontese	
pt	portuguese	
pt-BR	portuguese	variant=brazilian
pt-PT	portuguese	variant=portuguese [<i>default</i>]
rm	romansh	
ro	romanian	
ru	russian	
ru-luna1918	russian	spelling=modern [<i>default</i>]
ru-petr1708	russian	spelling=old
sa	sanskrit	
sa-Beng	sanskrit	script=Bengali
sa-Deva	sanskrit	script=Devanagari [<i>default</i>]
sa-Gujr	sanskrit	script=Gujarati
sa-Knda	sanskrit	script=Kannada
sa-Mlym	sanskrit	script=Malayalam

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

BCP-47 tag	Polyglossia name	Polyglossia options
sa-Telu	sanskrit	script=Telugu
se	sami	
sk	slovak	
sl	slovenian	
sq	albanian	
sr	serbian	
sr-Cyrl	serbian	script=Cyrillic
sr-Latn	serbian	script=Latin [<i>default</i>]
sv	swedish	
syr	syriac	
ta	tamil	
te	telugu	
th	thai	
tk	turkmen	
tr	turkish	
ug	uyghur	
uk	ukrainian	
ur	urdu	
vi	vietnamese	
zh	chinese	
zh-CN	chinese	variant=simplified [<i>default</i>]
zh-TW	chinese	variant=traditional
zsm	malay	variant=malaysian [<i>default</i>]

2.5 Global options

Polyglossia can be loaded with the following global package options:

V1.1.1

- **babelshorthands** $\leftarrow$ **true* or *false*
Globally activates **babel** shorthands whenever available. Please refer to sec. 2.6 for details.

- **localmarks** = **true* or *false*
redefines the internal L^AT_EX macros `\markboth` and `\markright` to the effect that the header text is explicitly set in the currently active language (*i.e.*, wrapped into `\foreignlanguage{<lang>}{(…)}`).

V1.2.0

In earlier versions of **polyglossia**, $\leftarrow$ 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.

v1.50

- ▶ **luatexrenderer** $\leftarrow$ = (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 (T $\TeX$ Live 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.

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.

v2.10

- ▶ **unibidi-lua** $\leftarrow$ = *default* or true or false
loads the **unibidi-lua** package for unicode bidi algorithm. This allows to write short left-to-right text inside right-to-left text (e.g. arabic numerals in Hebrew text), or vice versa without special markup for the directions switches. with default, **unibidi-lua** will be loaded if the main language is RTL and the bidi key is true. In Lua $\TeX$ this options does nothing.

v2.10

- ▶ **bidi** $\leftarrow$ = **true* or false
If set to false, **polyglossia** will not load **bidi** or **luabidi**. Instead it will use minimal setup for RTL text. You can use this option if you only need short RTL text, or simple paragraphs, and don't want to load these packages.

v2.10

- ▶ **metadata** $\leftarrow$ = **true* or false
use the language provided in \DocumentMetadata (lang) key as the default language. The value is true at loading time.

2.6 Shorthands

Babel has introduced the nifty feature of “shorthands” for some of the languages it supports. Shorthands make use of active characters to provide quick access to glyphs and formatting peculiarities that are common in a respective language (e.g., “a for German umlaut <ä> in case this is not available on your keyboard). **Polyglossia** has adopted this feature, we call it *babelshorthands*.

Shorthands need to be activated for the respective language, or can be activated globally, via the boolean option **babelshorthands** (either passed globally when loading **polyglossia** or to a specific language when loading it).

Shorthands are implemented currently for Afrikaans, Belarusian, Catalan, Croatian, Czech, Dutch, Finnish, Georgian, German, Italian, Latin, Mongolian, Occitan, Piedmontese, Polish, Portuguese, Russian, Slovak, and Ukrainian, and their number and function differs between these languages. Please refer to the respective language descriptions (sec. 6) for detailed elaborations.

If you want to re-use the shorthands defined for a specific language in a different language, you can do so by using in preamble: ←

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`\inheritbabelshorthands` `\inheritbabelshorthands{⟨source language⟩}{⟨target language⟩}`

in order to input and activate the shorthands defined for the `⟨source language⟩` in the `⟨target language⟩`. Both languages will be loaded as “other” languages if they have not been loaded yet. If one of the languages does not exist, or if the `⟨source language⟩` does not provide any shorthands, you will get an error message.

Note, also, that you can only use `\inheritbabelshorthands` once per language. Subsequent calls will overwrite previous ones (and also the shorthand that might be defined for a `⟨target language⟩` in the first place).

If you want to enable the shorthands of a specific language inline, also when the language itself is not active (but loaded in the preamble), you can do so by means of ←

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`\usebabelshorthands` `\usebabelshorthands{⟨language⟩}`

The effect of this is local to groups. If you want to disable any active shorthands, you can use `\usebabelshorthands{none}`.

3 Language-switching commands

3.1 Recommended commands

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

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For example `\textrussian{today}` and `\textlang{russian}{today}` yield 19 июля 2026 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).

`⟨lang⟩ (env.)` The environment `⟨lang⟩`, which is also available for any activated language `lang` (as well as the equivalent `\begin{⟨lang⟩}[⟨options⟩]{⟨lang⟩} ... \end{⟨lang⟩}` ←), is meant for longer passages of text. It behaves slightly different than the `\text⟨lang⟩` 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 options locally. For instance the following allows us to quote the beginning of Homer’s *Iliad*:

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```

\begin{quote}
\begin{greek}[variant=ancient]
μῆνιν ἄειδε θεὰ Πηληϊάδεω Ἀχιλῆος οὐλομένην, ἣ μυρί' Ἀχαιοῖς
ἄλγε' ἔθηκε, πολλὰς δ' ἰφθίμους ψυχὰς Ἄϊδι προΐαψεν ἡρώων,
αὐτοὺς δὲ ἑλώρια τεῦχε κύνεσσιν οἰωνοῖσιν τε πᾶσι, Διὸς δ'
ἔτελείετο βουλή, ἐξ οὗ δὴ τὰ πρῶτα διαστήτην ἐρίσαντε Ἀτρεΐδης
τε ἄναξ ἀνδρῶν καὶ δῖος Ἀχιλλεύς.
\end{greek}
\end{quote}

```

μῆνιν ἄειδε θεὰ Πηληϊάδεω Ἀχιλῆος οὐλομένην, ἣ μυρί' Ἀχαιοῖς
ἄλγε' ἔθηκε, πολλὰς δ' ἰφθίμους ψυχὰς Ἄϊδι προΐαψεν ἡρώων, αὐ-
τοὺς δὲ ἑλώρια τεῦχε κύνεσσιν οἰωνοῖσιν τε πᾶσι, Διὸς δ' ἔτελείετο
βουλή, ἐξ οὗ δὴ τὰ πρῶτα διαστήτην ἐρίσαντε Ἀτρεΐδης τε ἄναξ
ἀνδρῶν καὶ δῖος Ἀχιλλεύς.

Arabic (env) Note that for Arabic one cannot use the environment `arabic`, as `\arabic` is defined internally by $\text{\LaTeX}$. In this case we need to use the environment `Arabic` instead.

3.2 Babel commands

Some macros defined in `babel's hyphen.cfg` (and thus usually compiled into the $\text{\LaTeX}$ and $\text{\LuaTeX}$ format) are redefined, but keep a similar behaviour.

<code>\selectlanguage</code>	► <code>\selectlanguage[(options)]{<lang>}</code>
<code>\foreignlanguage</code>	► <code>\foreignlanguage[(options)]{<lang>}{<...>}</code>
<code>otherlanguage (env.)</code>	► <code>\begin{otherlanguage}[(options)]{<lang>} ... \end{otherlanguage}</code>
<code>otherlanguage* (env.)</code>	► <code>\begin{otherlanguage*}[(options)]{<lang>} ... \end{otherlanguage*}</code>
<code>hyphenrules (env.)</code> v1.50	► <code>\begin{hyphenrules}[(options)]{<lang>} ... \end{hyphenrules}</code> ←

`\selectlanguage{<lang>}` and the `otherlanguage` environment are identical to the `<lang>` environment, except that `\selectlanguage{<lang>}` does not need to be explicitly closed. The command `\foreignlanguage{<lang>}{<...>}` and the `otherlanguage*` environment are identical with the use of the `\text{<lang>}` or `\textlang` command, with the one notable exception that they do not translate the date with `\today`.

The `<hyphenrules>` environment only switches the hyphenation patterns to the one associated with the language `<lang>` (or the language variety as specified via `(options)`). It does no further language-specific change.

Since the $\text{\LaTeX}$ and $\text{\LuaTeX}$ 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.

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

3.4 Setting up alias commands

By means of the macro ←

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`\setlanguagealias` `\setlanguagealias[<options>]{<language>}{<alias>}`
you can define alias commands for specific language (variants). *E.g.*,

```
\setlanguagealias[variant=austrian]{german}{AT}
```

will define a command `\textAT` as well as an environment `{AT}` which will link towards the command `\textgerman[variant=austrian]` and the environment `{german}[variant=austrian]`, respectively. 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 `\(script)font` or `\(language)font`. Note that `(language)` points to the [polyglossia](#) language name, `(script)` might point either to an OpenType script name as defined by [fontspec](#) (e.g., Latin) ← or a BCP-47 script tag (e.g., Latn), though the script is fully lower-cased in the `\(script)font` command.

V2.2

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}
```

If you want to setup a blackletter font specifically for the German blackletter script variant, you might do so by:

```
\newfontfamily\latffont[(...)]{font}
```

Setting up a font specifically for traditional Chinese is possible via:

```
\newfontfamily\hantfont[Script=CJK,(...)]{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 ← `\(script)fontsf` or `\(language)fontsf` and `\(script)fonttt` or `\(language)fonttt`, respectively.

V1.2.0

Whenever a new language is activated, [polyglossia](#) will first check whether a font has been defined for that language. If this is not the case, it will check whether a font associated with the BCP-47 script tag of the current language is defined. If this also isn’t the case, [polyglossia](#) will finally check (but this only for languages in non-Latin scripts) whether there is a font associated with the OpenType script tag. If none of these fonts is defined, [polyglossia](#) will use the currently active font as defined by `\setmainfont`, `\setsansfont` or `\setmonofont` 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 `\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):

```
\hyphenation{%
  po-ly-glos-sia
  LaTeX
}
```

These exceptions, however, apply only to the currently active language.

In addition to this, **polyglossia** provides the command $\leftarrow$

v1.45

```
\pglhyphenation[options]{lang}{exceptions}
```

which can be used to define exceptions that only apply to a specific language or language variant, respectively.⁶

5.2 Hyphenation thresholds

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 (`\lefthyphenmin` and `\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, **polyglossia** provides the command $\leftarrow$

v1.50

```
\setlanghyphenmins[options]{lang}{l}{r}
```

where `{lang}` is to be replaced with the respective language name or alias, `{options}` can be used to delimit the modification to a particular variety (*e.g.*, via `variant` or `spelling`), `{l}` with the left threshold value (*e.g.*, 3), and `{r}` with the right one (*e.g.*, `\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. **Polyglossia** provides two functions: `\disablehyphenation` and `\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.

\disablehyphenation

\enablehyphenation

⁶More precisely, it applies to all languages or varieties that share the same hyphenation patterns. Hence, for instance, all variants of **german** with **spelling=new** will share the same exceptions, as opposed to **spelling=old** which uses different patterns.

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** $\leftarrow$ = **true* or *false*

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

- "- 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.
- "| 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.

$\backslash$ - In addition, the macro `\-` is redefined to allow hyphens in the rest of the word (equivalent to "-).

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. 10.3).

- v1.63
v1.63

▶ **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.
- v1.63
v1.63

▶ **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.
- v1.63

▶ **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.
- v1.50

▶ **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).
- v1.0.3

▶ **abjadjimnotail** ← = *true or *false*
Set this to true if you want the *abjad* form of the number three to be ٣ – as in the manuscript tradition – instead of the modern usage ٣.

Commands:

- \abjad

▶ `\abjad` outputs Arabic *abjad* numbers according to the Mashriq varieties. Example: `\abjad{1863}` yields غرضج.
- \abjadmaghribi

▶ `\abjadmaghribi` outputs Arabic *abjad* numbers according to the Maghrib varieties. Example: `\abjadmaghribi{1863}` yields شظصج.
- \abjadalph
v1.50

▶ `\abjadalph` ← steps through the Arabic alphabet, thus it can only be used up to 28. Example: `\textarabic{\abjadalph{18}}` yields ص.
- \aeiph
v1.2.0

▶ `\aeiph` to emphasize text with `\overline`. ← `\textarabic{\aeiph{اب}}` yields آب. This command is also available for Farsi, Urdu, etc.

6.3 armenian

Options:

- v1.45

▶ **variant** ← = *eastern* or *western*
- v1.45

▶ **numerals** ← = *armenian* or *arabic*
- v1.63

▶ **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 Armenian 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 $\text{\LaTeX}$ kernel 2023/06 at least.

v1.46

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 alphanumeric system.⁷ 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:

- `\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.*, `\textbelarusian{\Asbuk{page}}` produces T.
- `\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.*, `\textbelarusian{\AsbukTrad{page}}` produces KB.
- `\asbukTrad` ▶ `\asbukTrad`: same as `\AsbukTrad` but in lowercase.

V1.2.0

6.5 bengali ←

Options:

- ▶ **numerals** = *western*, *bengali*, or *devanagari*
- ▶ **changecounternumbering** = **true* or *false*
Use specified numerals for headings and page numbers.

6.6 catalan

Options:

- ▶ **babelshorthands** ← = **true* or *false*
Activates the shorthands "l and "L to type geminated l or L.

V1.1.1

Commands:

- `\l.l` ▶ `\l.l` and `\L.L` ← can be used to type a geminated l, as in *collaborar*, similar to *babel* (the glyph U+00B7 MIDDLE DOT is used as a geminating sign).
- `\L.L`

V1.1.1

v1.59

6.7 **chinese** ←

Options:

- ▶ **variant** = *simplified* (= cn), or *traditional* (= tw)
- ▶ **numerals** = *arabic* or *chinese*
Uses either Arabic numerals or Chinese ideographic numbering.
- ▶ **calendar** ← = *gregorian* or *chinese*
With `calendar=chinese`, `\today` outputs the current date in the traditional Chinese (lunisolar) calendar via `chinesecal` (see sec. 10.2); this requires Lua_{TeX}. The default *gregorian* keeps the localized Gregorian date.

v2.11

Commands:

- `\chinesenumeral` ▶ `\chinesenumeral` (see section 8.3).
- `\chinesedate` ▶ `\chinesedate` ← formats an arbitrary Gregorian date in the Chinese calendar (Lua_{TeX} only, see sec. 10.2).

v2.11

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.
 - "| disables 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).

⁷See https://en.wikipedia.org/wiki/Cyrillic_numerals.

"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 («).

v1.47

► **disabledigraphs**⁸ ← = *true or false

If this is true, all Croatian digraphs (such as 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).

v1.53

► **localalph** ← = *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.

v1.51

► **splithyphens** ← = *true or false

According to Croatian typesetting conventions, if a word with a hard hyphen (such as *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 (*hrvatsko-/engleski*). 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.

6.9 czech

Options:

v1.45

► **babelshorthands** ← = *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 **splithyphens=false**).

⁸Up to version 1.53, the option was called **disableligatures**. The old option is kept for backwards compatibility, but the use is discouraged.

"' for Czech left double quotes („).
 "' for Czech right double quotes (").
 "> for Czech left double guillemets (»).
 "< for Czech right double guillemets («).

v1.45

- ▶ **splithyphens** $\leftarrow$ = **true* or *false*

According to Czech 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 $\leftarrow$ (if you are using Lua_T_EX, the **luavlina** package is loaded to achieve this). Set this option to *false* to disable the feature.

v1.46

v1.45

- ▶ **vlina** $\leftarrow$ = **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 $\leftarrow$ (if you are using Lua_T_EX, the **luavlina** package is loaded to achieve this). Set this option to *false* to disable the feature.

v1.46

6.10 dutch

Options:

v1.63

- ▶ **tremahyphenation** $\leftarrow$ = **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).

v1.1.1

- ▶ **babelshorthands** $\leftarrow$ = **true* or *false*

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

v1.63

"a $\leftarrow$ 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.

v1.63

"y $\leftarrow$ the ij ligature.

v1.63

"Y $\leftarrow$ the IJ ligature.

"- 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.

- "| 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.

\- In addition, the macro \- 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.

v1.45

6.12 esperanto

Commands:

- \hodiaun ▸ \hodiaun and \hodiau 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.

\hodiau
\hodiaun

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 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, allowing for hyphenation at the other points preset in the hyphenation patterns. Useful for cases where the hyphen should stick at the following syllable (e.g., *pakastekaapit ja "-arkut*).
 - "~ functionally equivalent to "=" (provided for backwards compatibility reasons).
 - "| disables a ligature at this position.

v1.45

- "" 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.

v2.0

- **hyphens** $\leftarrow$ = *default*, *babel*, *school*

Hyphenation in Finnish is peculiar since there are many rather long words. In order to select a suitable hyphenation pattern, three different options are provided:

- The default patterns as used by $\LaTeX$ are rather strict and try to prevent hyphenation at points which are valid but considered sub-optimal from an ortho-typographic point of view (e.g., hyphenation between two vowels), with the drawback that simple words are sometimes not being hyphenated at points where this would be valid, and lines might become unevenly spaced.
- The **babel** support for Finnish by default tweaks some hyphenation-related values (such as `\hyphenpenalty`) for Finnish. If you want to replicate this with **polyglossia**, select *babel* (this still uses the default patterns).
- The *school* setting, finally, employs alternative (experimental) hyphenation patterns 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.⁹ See <https://github.com/hyphenation/basic-finnish> for details.

6.14 french

Options:

- **variant** = *french*, *canadian*, *acadian* $\leftarrow$ or *swiss* $\leftarrow$

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** $\leftarrow$ = **true* or *false*

⁹This equals the previous boolean option **schoolhyphens**, which is still supported for backwards compatibility.

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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.

- ▶ **autospaceguillemets**¹⁰ = `*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.

v1.45

- ▶ **autospacetyewriter**¹¹ $\leftarrow$ = `*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 `autospaceguillemets` 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.

v1.46

- ▶ **frenchitemlabels** $\leftarrow$ = `*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`.

v1.51

- ▶ **frenchpart** $\leftarrow$ = `*true` or `false`

By default, `polyglossia` modifies part headings to match French conventions (*Première partie* rather than *Partie I*). Next to the standard classes, 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 redefinition, you can switch off the feature by passing `false` to this option.

v1.46

- ▶ **itemlabels** $\leftarrow$ = `{code}` (default value: `\textendash`)

If `frenchitemlabels` is true, you can customize here the used item label of all levels.

v1.46

- ▶ **itemlabeli** $\leftarrow$ = `{code}` (default value: `\textendash`)

If `frenchitemlabels` is true, you can customize here the used item label of the first level.

v1.46

- ▶ **itemlabelii** $\leftarrow$ = `{code}` (default value: `\textendash`)

If `frenchitemlabels` is true, you can customize here the used item label of the second level.

¹⁰Up to version 1.44, the option was called `automaticspacesaroundguillemets`. For backwards compatibility reasons, the more verbose old option is still supported.

¹¹Babel's syntax `OriginalTypewriter` is also supported.

- v1.46
- ▶ **itemlabeliii** $\leftarrow$ = {code} (default value: `\textendash`)
If *frenchitemlabels* is true, you can customize here the used item label of the third level.
- v1.46
- ▶ **itemlabeliv** $\leftarrow$ = {code} (default value: `\textendash`)
If *frenchitemlabels* is true, you can customize here the used item label of the fourth level.

Commands:

- \NoAutoSpacing**
v1.45
- ▶ **\NoAutoSpacing** $\leftarrow$ 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**
v1.45
- ▶ **\AutoSpacing** $\leftarrow$ 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!}`

v1.45 6.15 gaelic $\leftarrow$

Options:

- ▶ **variant** = *irish* or *scottish*

v1.46 6.16 georgian $\leftarrow$

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:

v1.33.4

- ▶ **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.

v1.63

- ▶ **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 L^AT_EX kernel 2023/06 at least and a font that contains the respective glyph.

v1.2.0
v1.46

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

v1.0.3

- ▶ **babelshorthands** ← = **true* or *false*
If this is turned on, all shorthands defined in **babel** for fine-tuning hyphenation and micro-typography of German words are activated.
"ck for ck to be hyphenated as k-k (1901 spelling).
"ff for ff to be hyphenated as ff-f (1901 spelling); this is also available for the letters l, m, n, p, r and t.

	"	disables a ligature at this position (<i>e.g.</i> , 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, <i>e.g.</i> , bergauf und "~ab.
	"-	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); <i>e.g.</i> , (pseudo"~)""wissenschaftlich.
	"/	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.
V2.10	".	← A dot with ensuing spacing appropriate for abbreviations, as in u".a. (= u. a.). By default this is a non-breakable thinspace, but it can be globally redefined by redefining the macro \germanabbrspace (see below). Note that the shorthand eats all preceding and following spaces, so u". a. and u". a. produce identical output.
V2.0	"*	← An asterisk which assures the word can still be hyphenated at its defined breakpoints. Useful if you want to employ gender-sensitive writing (,gender star'). Similar shorthands are available for the alternative gender-sensitive spellings, ": and "_.
V2.0	"x	← Inserts a gender mark which assures the word can still be hyphenated at its defined breakpoints. This is predefined to * but can be globally redefined by redefining the macro \mkgender (see below).

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 (»).

Commands:

\germanabbrspace V2.10	► \germanabbrspace	← Defines the space used after the dot with the shorthand ". Predefined to \def\germanabbrspace{\, }.
\mkgender V2.0	► \mkgender	← Defines which gender mark is output by the babelshorthand "x. Predefined to \def\mkgender{*}.

6.18 greek

Options:

- ▶ **variant** = *monotonic* (= mono), *polytonic* (= poly), or *ancient*
- ▶ **numerals** = *greek* or *arabic*
- ▶ **capitaliota** $\leftarrow$ = *true or *false*

v1.63

If this is set to true, `\MakeUppercase` will upcase the *ypogegrammeni* (subscript muted iota) to capital iota. By default (and with this option set to false), `\MakeUppercase` retains the subscript versions. Note that this feature requires $\text{\LaTeX}$ kernel 2023/06 at least.

v2.6

- ▶ **koppa** $\leftarrow$ = *modern* or *archaic*

While modern Greek uses the letter koppa in its modern form (ϙ) to represent the number 90, classicists often prefer the archaic koppa variant (Ϟ). *Polyglossia* uses by default the modern form in all variants (with **numerals=greek**). If you need the archaic form, use **koppa=archaic**.

Commands:

`\Greeknatural`
`\Greeknatural`
`\greeknatural`
`\greeknumber`
`\atticnatural`
`\atticnum`

- ▶ `\Greeknatural` (= `\Greeknatural`) and `\greeknatural` (= `\greeknumber`) (see section 8.3).
- ▶ The command `\atticnatural` (= `\atticnum`) displays numbers using the acrophonic numbering system (defined in the Unicode range U+10140–U+10174). Please refer to the documentation of the *xgreek* package for more details on Attic numbering.
- ▶ $\leftarrow$ The macros `\greeknumeralsix`, `\greeknumeralsix`, `\greeknumeralninety` and `\greeknumeralNinety` determine how the numbers 6 and 90 are represented in lower and uppercase output. By default, this is ς (lowercase 6), Ϛ (uppercase 6), ϙ (lowercase ninety), and Ϟ (uppercase ninety) – or, with **koppa=archaic**, ϙ (lowercase ninety), and Ϟ (uppercase ninety). You can redefine the macros if you need other representations.
- ▶ The macros `\greetoday` and `\Greetoday` produce the current date with the month and the day represented as Greek numerals instead of Arabic. The former command produces lowercase, the latter uppercase Greek numerals.

v2.6

`\greeknumeralsix`
`\greeknumeralsix`
`\greeknumeralninety`
`\greeknumeralNinety`

`\greetoday`
`\Greetoday`

6.19 hebrew

Options:

- ▶ **numerals** = *hebrew* or *arabic*
- ▶ **calendar** = *hebrew* or *gregorian*
- ▶ **marcheshvan** = *true or *false*

If true, the second month of the civil year will be output as מרחשון (Marcheshvan) rather than חשוון (Heshvan), which is the default.

v1.57

- ▶ **fullyear** $\leftarrow$ = **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.

v1.57

- ▶ **transliteration** $\leftarrow$ = *academy* or *alt*
With value *academy*, transliteration follows the recommendations of the Hebrew Language Academy. The default (*alt*) uses the received settings of **babel** (**hebc**) and **polyglossia** (**hebrewcal**).

Commands:

\hebrewnumeral

- ▶ **\hebrewnumeral** (= **\hebrewalph**) (see section 8.3).

\hebrewalph

- ▶ **\aemph** (see section 6.2).

\aemph

v1.2.0

6.20 hindi $\leftarrow$

Options:

- ▶ **numerals** = *western* or *devanagari*

6.21 hungarian

Options:

v1.46

- ▶ **swapstrings** $\leftarrow$ = **all*, *captions*, *headings*, *headers*, *hheaders*, or *none*
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

v1.58

- ▶ **forceheadingpunctuation** $\leftarrow$ = **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` ▶ `\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.
- `\ondatehungarian`

6.22 italian

Options:

V1.2.0CC

- ▶ **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 ←

V1.40.0

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*

v1.47

- ▶ **swapstrings** $\leftarrow$ = **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

Commands:

- ▶ `\은 \는 \이 \가 \을 \를 \와 \과 \으 \로 \라`: commands for automatic selection of *Josa* (조사, a linguistic particle that depends on the pronunciation of previous character). Be aware that the space after these commands will be swallowed up by $\TeX$. To retain the space, you have to append `\_` or `\{ \}` to the command.
- ▶ `\jung \jong \rieul`: when the automatic selection fails, you can force the selection of *Josa* by appending one of these commands to the end of the text that will be referred to. `\jung` represents medial vowels; `\rieul`, the trailing consonant ㄹ; `\jong`, other trailing consonants.

v1.45

6.24 kurdish $\leftarrow$

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** $\leftarrow$ = `{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 ٣ – as in the manuscript tradition – instead of the modern usage ٣.

v1.63

Commands:

- `\ontoday` ▶ `\ontoday`: special form of `\today` which produces a slightly different date format as used in prepositional phrases (as in ‘on February 10th’). Only available for Latin script.
- `\abjad` ▶ `\abjad` (see section 8.3)
- `\aemph` ▶ `\aemph` (see section 6.2)

V2.10

6.25 **kyrgyz** ←

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).
- ", thinspace for initials with a breakpoint in following surname.

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 Kyrgyz (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.

- **indentfirst** = **true* or *false*
By default, all paragraphs are indented in Kyrgyz, also those after a chapter or section heading. If this option is *false*, the latter paragraphs are not indented, as normal in L^AT_EX.
- **date** = *short*, *long* or *long-kymonths*
Determines how dates are represented with `\today`.
 - *short* results in short dates such as 30.01.2026.
 - *long* results in long dated such as 2026-жылдын 30-январь
 - *long-kymonths* is a long variant that includes Kyrgyz month names, as in 2026-жылдын үчтүн айынын 30у
- **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.¹² 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.*, `\textkyrgyz{\Asbuk{section}}` produces Тҗ.
- `\asbuk` ▸ `\asbuk`: same as `\Asbuk` but in lowercase.
- `\AsbukTrad` ▸ `\AsbukTrad`: same as `\Asbuk` but using the traditional Cyrillic alphanumerical numbering which supports numbers up to 999 999. *E.g.*, `\textkyrgyz{\AsbukTrad{page}}` produces Л13.
- `\asbukTrad` ▸ `\asbukTrad`: same as `\AsbukTrad` but in lowercase.

v1.2.0

6.26 lao ←

Options:

- **numerals** = *lao* or *arabic*

6.27 latin

Options:

- **variant** = *classic*, *medieval*, *modern*, or *ecclesiastic* ←
These variants refer to different spelling conventions. The *classic* and the *medieval* variant do not use the letters *U* and *v*, but only *V* and *u*. This concerns predefined terms like month names as well as the behaviour

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¹²See https://en.wikipedia.org/wiki/Cyrillic_numerals.

of the `\MakeUppercase` and the `\MakeLowercase` command. The medieval and the ecclesiastic variant use the ligatures *æ* and *œ*. See table 4 for examples.

Furthermore, the ecclesiastic variant takes care of a punctuation spacing similar to French, but with smaller spaces, as provided for PDF_T_EX by the `ecclesiastic` package.

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.

classic	medieval	modern	ecclesiastic
Ianuarii	Ianuarii	Ianuarii	ianuarii
Nouembris	Nouembris	Novembris	novembris
Praefatio	Præfatio	Praefatio	Præfatio
<code>\MakeUppercase{Iulius}</code> yields:			
IVLIVS	IVLIVS	IULIUS	IULIUS

- **hyphenation** $\leftarrow$ = classic, modern, or liturgical

There are three different sets of hyphenation patterns for Latin. Separate documentation for them is available on the Internet.¹³ Each of the four variants mentioned above has its default set of hyphenation patterns as indicated by table 5. Use the `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 `hyphenation=liturgical` in any case.

- **ecclesiasticfootnotes** $\leftarrow$ = *true or false

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

¹³Refer to <https://github.com/gregorio-project/hyphen-la/blob/master/doc/README.md#hyphenation-styles>

Table 5. Latin default hyphenation styles

Language variant	Default hyphenation style
classic	classic
medieval	modern
modern	modern
ecclesiastic	modern

very similar to the ordinary L^AT_EX 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.

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- **usej** $\leftarrow$ = *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 *Maji* to *Ianuarii* and *Maii*.

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- **capitalizemonth** $\leftarrow$ = *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 `ecclesiastic` 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, í, ó, ú, ý, æ, and œ

'A for Á (A with acute), also available for É, Í, Ó, Ú, Ý, Æ, and Œ

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 Œ

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

'ae for æ (ae ligature with acute), also available for œ

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

'AE for Æ (AE ligature with acute), also available for Œ

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- **prosodicshorthands** $\leftarrow$ = *true or false

Enable shorthands for prosodic marks (macrons and breves) very similar to those provided by `babel-latn` 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 ā (a with macron), also available for ē, ī, ō, ū, and ŷ
- =A for Ā (A with macron), also available for Ē, Ī, Ō, Ū, V̄, and Ÿ. Note that a macron above the letter V is only displayed if your font supports the Unicode character 0304 (*combining macron*).
- =ae for āe (ae diphthong with macron, for the classic and the modern variant) or ǣ (ae ligature with macron, for the medieval and the ecclesiastic variant), respectively; also available for āū, ēū, and ōē/œ̄. Note that macrons above diphthongs are only displayed if your font supports the Unicode character 035E (*combining double macron*).
- =Ae for Āē (Ae diphthong with macron, for the classic and the modern variant) or ĀĒ (AE ligature with macron, for the medieval and the ecclesiastic variant), respectively; also available for Āū, Ēū, and Ōē/Ē.
- =AE for ĀĒ (AE diphthong with macron, for the classic and the modern variant) or ĀĒ (AE ligature with macron, for the medieval and the ecclesiastic variant), respectively; also available for Āū, Ēū, and Ōē/Ē.
- ^a for ă (a with breve), also available for ě, ĭ, ǫ, ů, and ŷ̆. 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 Ē, Ī, Ō, Ū, V̆, and Ÿ̆. Note that breves above the letters V and Y are only displayed if your font supports the Unicode character 0306 (*combining breve*).

6.28 malay

Options:

- **variant** ← = *indonesian* or *malaysian*

v1.45

6.29 marathi

Options:

- **numerals** = *devanagari* or *western*

6.30 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.¹⁴ 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 Тҗ.
- `\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 С.
- `\asbukTrad` ▸ `\asbukTrad`: same as `\AsbukTrad` but in lowercase.

6.31 norwegian

Options:

- `v1.45` ▸ `variant` ← = `bokmal` or `nynorsk`

6.32 odia ←

`v1.66`

Options:

- `numerals` = `western`, `devanagari`, or `odia`
- `changecounternumbering` = `*true` or `false`
Use specified numerals for headings and page numbers.

6.33 persian

Options:

- `v1.63` ▸ `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.
- `v1.0.3` ▸ `abjadjimnotail` ← = `*true` or `false`
Set this to `true` if you want the *abjad* form of the number three to be ٣ – as in the manuscript tradition – instead of the modern usage ۳.

Commands:

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

¹⁴See https://en.wikipedia.org/wiki/Cyrillic_numerals.

6.34 polish

Options:

v1.55

- ▶ **babelshorthands** $\leftarrow$ = *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 »).

v1.55

- ▶ **splithyphens** $\leftarrow$ = *true or false

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

v1.55

- ▶ **vlina** $\leftarrow$ = *true or false

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 Lua_T_EX, the **luavlna** package is loaded to achieve this). Set this option to false to disable the feature.

6.35 portuguese

Options:

- ▶ **variant** $\leftarrow$ = *brazilian* or *portuguese*
- ▶ **babelshorthands** $\leftarrow$ = *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 *splithypens*=*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 (»).

- ▶ **splithypens** $\leftarrow$ = *true* or *false*

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

6.36 punjabi $\leftarrow$

Options:

- ▶ **numerals** = *western* or *gurmukhi*

6.37 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).
- ", thinspace for initials with a breakpoint in following surname.

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.

v1.50

- **forceheadingpunctuation** $\leftarrow$ = *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.

v1.46

- **indentfirst** $\leftarrow$ = *true* or *false*

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 $\LaTeX$.

v1.52

- **mathfunctions** $\leftarrow$ = *true* or *false*

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.

- **spelling** = *modern* or *old*

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

- **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.¹⁵ 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., `\textrussian{\Asbuk{section}}` produces Т҃.
- `\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., `\textrussian{\AsbukTrad{page}}` produces MS.
- `\asbukTrad` ▸ `\asbukTrad`: same as `\AsbukTrad` but in lowercase.

If the **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: `\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`, `\Proj` print some rare Russian mathematical symbols.

v1.45 6.38 sami ←

Currently support for Sami is limited to Northern Sami.

6.39 sanskrit

Options:

- v1.0.2 ▸ **script** ← = *devanagari*, *gujarati*, *malayalam*, *bengali*, *kannada*, *telugu*, *latin*
The value is passed to **fontspec** should the respective `\(script)` font not be defined. This can be useful if you typeset Sanskrit texts in scripts other than Devanagari.
- v1.45 ▸ **numerals** ← = *devanagari* or *western*

6.40 serbian

Options:

- v1.63 ▸ **variant** ← = *ekavian* or *ijekavian*

¹⁵See https://en.wikipedia.org/wiki/Cyrillic_numerals.

- With ijekavian, the different spelling is reflected in some caption strings.
- ▶ **script** = *cyrillic* or *latin*
 - ▶ **datei** $\leftarrow$ = **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 (u) (i.e., *juni*, *juli* or *јуни*, *јули* rather than *jun*, *jul* or *јун*, *јул*).
 - ▶ **splithyphens** $\leftarrow$ = **true* or *false*
 According to Serbian typesetting conventions, if a word with a hard hyphen (such as *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 (*калцијум-/карбонат*). 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.
 - ▶ **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.¹⁶ 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., `\textserbian{\Asbuk{section}}` produces Т.
- `\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., `\textserbian{\AsbukTrad{page}}` produces М3.
- `\asbukTrad` ▶ `\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` ▶ `\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` ▶ `\todayArabic`: outputs the date with months in Arabic number. The starred form `\todayArabic*` omits the trailing punctuation.
- `\todayRoman` ▶ `\todayRoman`: outputs the date with months in Roman number. The starred

¹⁶See https://en.wikipedia.org/wiki/Cyrillic_numerals.

`\todayRoman*`

form `\todayRoman*` omits the trailing punctuation.

6.41 slovak

Options:

v1.46

- ▶ **babelshorthands** $\leftarrow$ = **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 «).

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- ▶ **splithyphens** $\leftarrow$ = **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 Lua_T_EX, the `luavlna` package is loaded to achieve this). Set this option to `false` to disable the feature.

v1.46

- ▶ **vlna** $\leftarrow$ = **true* or *false*

According to Slovak 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_T_EX, the `luavlna` package is loaded to achieve this). Set this option to `false` to disable the feature.

6.42 slovenian

Options:

- **localalph** = *true or false

If 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.

6.43 sorbian

Options:

- **variant** ← = lower or upper
- **olddate** ← = *true or false

If true, `\today` will use traditional Sorbian month names (*i.e.*, it will be synonymous to `\oldtoday` below).

Commands:

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

6.44 spanish

Options:

- **variant** ← = *spanish* or *mexican*
- **spanishoperators** ← = *all, accented, spaced, none, or false

Determines of and how math operators are localized to Spanish.

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

Commands: ←

- `\arcsen` ▸ `\arcsen`: alias to `\arcsin` (*babel* compatibility)
- `\arctg` ▸ `\arctg`: alias to `\arctan` (*babel* compatibility)
- `\sen` ▸ `\sen`: alias to `\sin` (*babel* compatibility)
- `\senh` ▸ `\senh`: alias to `\sinh` (*babel* compatibility)
- `\tg` ▸ `\tg`: alias to `\tan` (*babel* compatibility)
- `\tgh` ▸ `\tgh`: alias to `\tanh` (*babel* compatibility)
- `\spanishoperator` ▸ `\spanishoperator`: allows you to define further localized operators. For instance, `\spanishoperator{cotg}` defines a command `\cotg` that outputs

`ctg` in math. The optional argument of the command lets you specify the spelling, if needed, e.g., `\spanishoperator[arc\,ctg]{arcctg}`.

6.45 syriac

Options:

v1.0.1

- **numerals** $\leftarrow$ = *western* (i.e., 1234567890), *eastern* (for which the Oriental Arabic numerals are used: ١٢٣٤٥٦٧٨٩٠), or *abjad*

v1.63

- **sectionsep** $\leftarrow$ = {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`

- `\abjadsyriac` (see section 8.3)

`\aemph`

- `\aemph` (see section 6.2).

6.46 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.

6.47 tibetan

Options:

- **numerals** = *tibetan* or *arabic*

6.48 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).
- ", thinspace for initials with a breakpoint in following surname.

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.

v1.52

- ▶ **mathfunctions** $\leftarrow$ = *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 alphanumeric system.¹⁷ 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., `\textukrainian{\Asbuk{section}}` produces Тґ.
- [\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., `\textukrainian{\AsbukTrad{page}}` produces HA.
- [\asbukTrad](#) ▶ \asbukTrad: same as \AsbukTrad but in lowercase.

¹⁷See https://en.wikipedia.org/wiki/Cyrillic_numerals.

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.

6.49 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 `\Hijri today` command which can be used to output Hijri dates irrespective of the calendar option (see sec. 10.3).
- **numerals** = *western* or *eastern*
- **sectionsep** $\leftarrow$ = {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 ٣ – as in the manuscript tradition – instead of the modern usage ۳.

v1.63

6.50 uyghur

Options:

- **chapterformat** $\leftarrow$ = **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).

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

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

6.51 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` ▶ `\captions\lang` stores definitions of caption strings (such as, in the case of English, `\def\chaptername{Chapter}`)
- `\date\lang` ▶ `\date\lang` stores definitions of date formats (usually redefinitions of `\today`, in some cases also definitions of additional date commands)

<code>\blockextras@{lang}</code>	► <code>\blockextras@{lang}</code> stores macros that are to be executed when the language <code>{lang}</code> is activated via <code>\selectlanguage</code> command or the <code>{lang}</code> environment
<code>\inlineextras@{lang}</code>	► <code>\inlineextras@{lang}</code> stores macros that are to be executed when the language <code>{lang}</code> is activated locally via <code>\text{lang}</code> command
<code>\noextras@{lang}</code>	► <code>\noextras@{lang}</code> stores macros that are to be executed when the language <code>{lang}</code> is closed
<code>\nestedextras@{lang}</code> v2.3	► <code>\nestedextras@{lang}</code> ← stores macros that are to be executed when a nested language is closed and <code>{lang}</code> is the active language again. This is useful for settings that are only possible on global scale.

In order to redefine internal macros, we recommend to use the command `\addto`. For instance, to change the `\chaptername` for language `lingua`, you can do this:

```
\addto\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:

<code>\captions@bbl@{babelname}</code>	► <code>\captions@bbl@{babelname}</code>
<code>\date@bbl@{babelname}</code>	► <code>\date@bbl@{babelname}</code>
<code>\blockextras@bbl@{babelname}</code>	► <code>\blockextras@bbl@{babelname}</code>
<code>\inlineextras@bbl@{babelname}</code>	► <code>\inlineextras@bbl@{babelname}</code>
<code>\noextras@bbl@{babelname}</code>	► <code>\noextras@bbl@{babelname}</code>

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), `polyglossia` executes the (by default empty) hook

<code>\polyglossia@language@switched</code>	► <code>\polyglossia@language@switched</code>
---	---

to which you can append arbitrary code (via `\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 `\language`, `\babelname` and `\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 [= alphanumeric] numbering in Hebrew).

If the latter is the case, `polyglossia` provides language options which allow you to select or switch to the suitable convention. With the appropriate language option set, `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

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`\localnumeral`

As of 1.45, `polyglossia` provides a generic macro `\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 `\localnumeral{42}` yields ٤٢, whereas in an Hebrew environment, it results in 42 with `numerals=hebrew`, and 42 with `numerals=arabic`. Note that, as opposed to the various `digits` macros (described in sec. 8.2), the argument of `\localnumeral` must consist of numbers only.

v1.45

`\localnumeral*`

For `polyglossia` the conversion of counters, the starred version `\localnumeral*` is provided. This takes a counter as argument. For instance in an Arabic environment `\localnumeral*{page}` yields ٥٥.

`\Localnumeral`

`\Localnumeral*`

For scripts with alphanumerical numbering, the variants `\Localnumeral` and `\Localnumeral*` provide the uppercased versions.

All these macros provide the following options:

`[lang=]`

► **lang** = *local*, *main*, or $\langle$ 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 $\langle$ language $\rangle$ (*e.g.*, `\localnumeral[lang=arabic]{42}`).

8.2 Non-Western decimal digits

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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.¹⁸ The macros have the form `\(script)digits`. They convert Arabic numerical input and leave every other input untouched. In an Arabic context, for instance, `\arabicdigits{9182/738543-X}` yields ٩١٨٢/٧٣٨٥٤٣-X.

Currently, the following macros are provided:

<code>\arabicdigits</code>	▸ <code>\arabicdigits</code>
<code>\bengalidigits</code>	▸ <code>\bengalidigits</code>
<code>\devanagaridigits</code>	▸ <code>\devanagaridigits</code>
<code>\farsidigits</code>	▸ <code>\farsidigits</code>
<code>\gurmukhidigits</code>	▸ <code>\gurmukhidigits</code>
<code>\kannadadigits</code>	▸ <code>\kannadadigits</code>
<code>\khmerdigits</code>	▸ <code>\khmerdigits</code>
<code>\laodigits</code>	▸ <code>\laodigits</code>
<code>\nkodigits</code>	▸ <code>\nkodigits</code>
<code>\odiadigits</code>	▸ <code>\odiadigits</code>
<code>\thaidigits</code>	▸ <code>\thaidigits</code>
<code>\tibetandigits</code>	▸ <code>\tibetandigits</code>

8.3 Non-Latin alphabetic numbering

For languages which use special (non-Latin) alphanumerical notation¹⁹, dedicated macros are provided.

They work in a similar way than the `\(script)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:

<code>\abjad</code>	▸ <code>\abjad</code> outputs Arabic <i>abjad</i> numbers according to the Mashriq varieties. Example: <code>\abjad{1863}</code> yields غنضج.
<code>\abjadmaghribi</code>	▸ <code>\abjadmaghribi</code> outputs Arabic <i>abjad</i> numbers according to the Maghrib varieties. Example: <code>\abjadmaghribi{1863}</code> yields شظصج.
<code>\abjadsyriac</code>	▸ <code>\abjadsyriac</code> outputs Syriac abjad numerals. ²⁰ Example: <code>\abjadsyriac{463}</code> yields ܐܘܬܐ.
<code>\armeniannumeral</code>	▸ <code>\armeniannumeral</code> produces Armenian alphabetic numbering. Example:

¹⁸A 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 ٢٠١٠. 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.

¹⁹For instance, see http://en.wikipedia.org/wiki/Greek_numerals, http://en.wikipedia.org/wiki/Abjad_numerals, http://en.wikipedia.org/wiki/Hebrew_numerals, and http://en.wikipedia.org/wiki/Syriac_alphabet.

²⁰A fine guide to numerals in Syriac can be found at <http://www.garzo.co.uk/documents/syriac-numerals.pdf>.

	<code>\armeniannumeral{1863}</code> yields ՌՊԿԳ.
<code>\belarusiannumeral</code> <code>\Belarusiannumeral</code>	▶ <code>\belarusiannumeral</code> produces Belarusian numbering, with uppercased variant (for alphanumerical variant) via <code>\Belarusiannumeral</code>. Depending on the <code>numerals</code> option in the Belarusian language selection, this is either Arabic digit or Cyrillic alphanumerical output. Example: With <code>numerals=latin</code> <code>\belarusiannumeral{19}</code> yields 19, with <code>numerals=cyrillic-trad</code> <code>\belarusiannumeral{19}</code> results in 19, with <code>numerals=cyrillic-alph</code> <code>\belarusiannumeral{19}</code> results in 19.
<code>\chinesenumerals</code>	▶ <code>\chinesenumerals</code> produces Chinese numbering which, depending on the <code>numerals</code> option in the Chinese language selection, produces is either Arabic digit or Chinese ideographic output. Example: With <code>numerals=arabic</code> <code>\chinesenumerals{753}</code> yields 753, with <code>numerals=chinese</code> <code>\chinesenumerals{753}</code> results in 七百五十三.
<code>\georgiannumerals</code>	▶ <code>\georgiannumerals</code> produces Georgian alphabetic numbering. Example: <code>\georgiannumerals{1863}</code> yields 1863.
<code>\greeknumeral</code> <code>\Greeknnumeral</code>	▶ <code>\greeknumeral</code> produces Greek alphabetic numbering, <code>\Greeknnumeral</code> outputs uppercased variants. Example: <code>\greeknumeral{1863}</code> yields 1863, <code>\Greeknnumeral{1863}</code> results in 1863.
<code>\hebrewnumeral</code> <code>\Hebrewnumeral</code> <code>\Hebrewnumeralfinal</code>	▶ <code>\hebrewnumeral</code>, <code>\Hebrewnumeral</code> and <code>\Hebrewnumeralfinal</code> produce variants of Hebrew alphanumeric numerals. The commands behave identical as in <code>babel</code>: <code>\hebrewnumeral</code> outputs the numbers without any decoration at all, <code>\Hebrewnumeral</code> adds <i>gereshayim</i> before the last letter, and <code>\Hebrewnumeralfinal</code> uses in addition the final forms of Hebrew letters. Examples: <code>\hebrewnumeral{1750}</code> yields 1750, <code>\Hebrewnumeral{1750}</code> yields 1750, and <code>\Hebrewnumeralfinal{1750}</code> yields 1750.
<code>\mongoliannumerals</code> <code>\Mongoliannumerals</code>	▶ <code>\mongoliannumerals</code> produces Mongolian numbering, with uppercased variant (for alphanumerical variant) via <code>\Mongoliannumerals</code>. Depending on the <code>numerals</code> option in the Mongolian language selection, this is either Arabic digit or Cyrillic alphanumerical output. Example: With <code>numerals=latin</code> <code>\mongoliannumerals{19}</code> yields 19, with <code>numerals=cyrillic-trad</code> <code>\mongoliannumerals{19}</code> results in 19, with <code>numerals=cyrillic-alph</code> <code>\mongoliannumerals{19}</code> results in 19.
<code>\punjabinumerals</code>	▶ <code>\punjabinumerals</code> produces Punjabi numbering, depending on the setting of the <code>numerals</code> option in the Punjabi language selection, this is either Gurmukhi or Arabic (Western).
<code>\russiannumerals</code> <code>\Russiannumerals</code>	▶ <code>\russiannumerals</code> produces Russian numbering, with uppercased variant (for alphanumerical variant) via <code>\Russiannumerals</code>. Depending on the <code>numerals</code> option in the Russian language selection, this is either Arabic digit or Cyrillic alphanumerical output. Example: With <code>numerals=latin</code> <code>\russiannumerals{19}</code> yields 19, with <code>numerals=cyrillic-trad</code> <code>\russiannumerals{19}</code> results in 19,

with numerals=cyrillic-alpha \russiannumeral{19} results in y.

`\serbiannumeral` ▶ `\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 alphanumerical output.

Example: With numerals=latin `\serbiannumeral{19}` yields 19, with numerals=cyrillic-trad `\serbiannumeral{19}` results in iə, with numerals=cyrillic-alpha `\serbiannumeral{19}` results in π.

`\ukrainiannumeral` ▶ `\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 alphanumerical output.

Example: With numerals=latin `\ukrainiannumeral{19}` yields 19, with numerals=cyrillic-trad `\ukrainiannumeral{19}` results in iə, with numerals=cyrillic-alpha `\ukrainiannumeral{19}` results in y.

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 $\text{\XeTeX}$ and $\text{\LuaTeX}$ output (this is due to differences in the `bid` and `luabidi` packages). With $\text{\XeTeX}$, 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:

- `\leftfootnoterule` ▶ Put `\leftfootnoterule` in the preamble to have all rules left-aligned.
- `\rightfootnoterule` ▶ Put `\rightfootnoterule` in the preamble to have all rules right-aligned.
- `\autofootnoterule` ▶ Put `\autofootnoterule` in the preamble to have automatic placement depending on the context (see below for elaboration).
- `\textwidthfootnoterule` ▶ 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 `hebrewcal.sty` is almost a verbatim copy of `hebcac.sty` that comes with `babel`. The command `\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 Chinese calendar (`chinesecal.sty`)

The package `chinesecal.sty` ← formats dates in the traditional Chinese luni-solar calendar. It requires Lua $\TeX$ together with the `calendrica` Lua modules, which implement the astronomical algorithms of Reingold & Dershowitz.²¹

Its end-user command

`\chinesedate` `\chinesedate{<year>}{<month>}{<day>}`

formats the given *Gregorian* date in the Chinese calendar; for instance `\chinesedate{2026}{7}{19}` yields “农历丙午年六月初六”. When the chinese language is active with `calendar=chinese` (see sec. 6.7), `\today` is set to the current date in this format.

²¹Nachum Dershowitz & Edward M. Reingold, *Calendrical Calculations: The Ultimate Edition* (4th edition, Cambridge University Press, 2018).

The output follows the **variant** of the active Chinese language: the characters that differ between the simplified and traditional scripts (the twelfth month, the zodiac animals, the year prefix and the leap-month marker) are chosen accordingly.

The formatting is controlled by the following package options, which may be given when the package is loaded or changed later with `\SetKeys[chinesecal]{...}`:

- **year** = *stem-branch* or *zodiac*
Name the year by its sexagenary stem and branch (e.g., 丙午) or by its zodiac animal (e.g., 马).
- **day** = *ordinal* or *stem-branch*
Give the day either as an ordinal within the month (e.g., 初六) or by its sexagenary name (e.g., 甲午).
- **gregorian-year** = **true* or *false*
If true, the date is prefixed with the Gregorian year in which the current Chinese year began.
- **year-prefix** = (string): the prefix printed before the year; default 农历 (農曆 in the traditional variant).
- **gregorian-year-prefix** = (string): the prefix printed before the Gregorian year when **gregorian-year=true**; default 公元.
- **eleven** = (string) and **twelve** = (string): the names of the eleventh and twelfth months; defaults 冬月 and 腊月 (臘月 in the traditional variant).
- **twenty** = (string) and **thirty** = (string): the forms combined into the ordinal names of days 21–30; defaults 二十 and 三十.

10.3 Islamic calendar (hijrical.sty)

This package computes dates in the lunar Islamic (Hijra) calendar.²² It provides two macros for the end-user. The command

`\HijriFromGregorian` `\HijriFromGregorian{(year)}{(month)}{(day)}`

`\Hijritoday` sets the counters `Hijriday`, `Hijrimonth` and `Hijriyear`. `\Hijritoday` formats the

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Hijri date for the current day. This command is now locale-aware ←: its output will differ depending on the currently active language. Presently *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

`\DefineHijriDateFormat` `\DefineHijriDateFormat{(lang)}{(code)}`.

²²It makes use of the arithmetical algorithm in chapter 6 of Reingold & Gershowitz, *Calendrical calculation: the Millennium edition* (Cambridge University Press, 2001).

The command `\Hijritoday` also accepts an optional argument to add or subtract a correction (in days) to the date computed by the arithmetical algorithm.²³ For instance if `\Hijritoday` yields the date “7 Rajab 1429” (which is the date that was displayed on the front page of aljazeera.net on 11th July 2008), `\Hijritoday[1]` would rather print “8 Rajab 1429” (the date indicated the same day on the site gulfnews.com).

10.4 Farsi (jalālī) calendar (farsical.sty)

This package is an almost verbatim copy of `Arabiftoday.sty` (in the [Arabi](#) package), itself a slight modification of `ftoday.sty` in `FarsiTEX`.²⁴ Here we have re-named the command `\ftoday` to `\Jalalitoday`. Example: today is 28 Tīr 1405.

11 Auxiliary commands

The macro `\charifavailable` ←
`\charifavailable{⟨char code⟩}{⟨substitution⟩}`
 checks whether the character with the specified `⟨char code⟩` (*i.e.*, unicode utf-16 code without preceding 0x) exists in the current font. If so, the character is printed, if not, the `⟨substitution⟩` is printed.

Example: `\charifavailable{1E9E}{SS}` prints the capital version of the German letter `⟨ß⟩` if available (*i.e.*, `ß`), else it prints the substitution digraph `SS`.

With the test ←
`\IfCharIsAvailableTF{⟨char code⟩}{⟨true condition⟩}{⟨false condition⟩}`
 you can test for the availability of a character and execute different code depending whether or not this is the case (this replaces the undocumented internal command `\xpg@if@char@available`).

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 `\BCPdata{⟨type⟩}` ←
`\BCPdata{⟨type⟩}` command to get (parts of) the BCP-47 language tag. This command is used by the `LATEX` kernel as of 6/2023, and the syntax is standardized at least between [babel](#) and [polyglossia](#).

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

²³The 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.

²⁴One day we may rewrite [farsical](#) from scratch using the algorithm in Reingold & Gershowitz (ref. n. 22).

- ▶ **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 `\MakeUppercase`. In many cases, this is identical to `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 `\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 **main.** to the respective argument (e.g., **main.language**). This works for all supported arguments.

Next to `\BCPdata`, **polyglossia** provides the following legacy macros which are partly unique to **polyglossia**, partly re-implementations of legacy **babel** commands:

<code>\language</code>	▶ <code>\language</code> stores the currently active (polyglossia) language name.
<code>\mainlanguage</code>	▶ <code>\mainlanguage</code> stores the (polyglossia) language name of the main document language.
<code>\languagevariant</code>	▶ <code>\languagevariant</code> stores the language variant if set. The macro is empty if no variant has been set.
<code>\mainlanguagevariant</code>	▶ <code>\mainlanguagevariant</code> stores the language variant of the main document language if set. The macro is empty if no variant has been set.
<code>\babelname</code>	▶ <code>\babelname</code> 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., <code>ngerman</code> , <code>german</code> , <code>swissgerman</code> 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.
<code>\mainbabelname</code>	▶ <code>\mainbabelname</code> analogously stores the name of document's main lan-

guage (variant) in [babel](#).

`\languageid{<type>}`
v1.47

- `\languageid{<type>}` ← stores the identifier tag of the current language. Currently supported `<types>`:
 - bcp-47 (alias bcp47): IETF BCP-47 language identifier

`\mainlanguageid{<type>}`
v1.47

- `\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`
v1.47

- `\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. 6), or by ←

`\iflanguageidloaded`
v1.47

`\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`
v1.47

`\iflanguageoption{<lang>}{<key>}{<value>}{<true>}{<false>}`

13 Revision history

2.11 (2026/07/19)

Bug fixes

- Allow again to load [polyglossia](#) at `begindocument`/before ([#705](#)).

New Features

- The languages selected in the [language](#) and [other-languages](#) keys in `\DocumentMetadata` are now used as main and other languages. You can suppress this with the [metadata](#) option ([#699](#)).
- Support the (void) `\cyr` macro which is used in Russian [hyperref](#) captions.

- Add the `chinesecal` package for typesetting dates in the traditional Chinese lunisolar calendar, together with a `calendar` option and a `\chinesedate` command for the Chinese language (Lua $\TeX$ only).

2.10 (2026/04/18)

Bug fixes

- Do not assign patterns to a variety more than once.
- Optimize linebreaking with `babelshorthands`.
- Fix the output of `/` `babelshorthand` in math.
- Fix math mode output of some German `babelshorthands` for new spelling.
- Fix spacing issues in some gloss files.

New Features

- Add basic support for Kyrgyz (Cyrillic writing).
- Support legacy (LICR) macros for Cyrillic characters (`\cyra` etc.). This requires the file `cyrl2uni.def` shipped with `babel` as of version 26.7.
- The language selected in the `lang` key in `\DocumentMetadata` is now used as the default language. You can suppress this with the `metadata` option.
- Add `unibidi-lua` option for `unibidi-lua` integration.
- Add `bidi` option to control the loading of `bidi` or `luabidi`.
- Add aliases for `babel-german`'s new language names.
- Add `.` shorthand to German.

2.9 (2025/12/01)

Bug fixes

- Allow linebreak between a non-glyph box and CJK characters ([#690](#)). This fix partly restores the functionality of v. 2.7.
- Fix and document the *josa* selection function in Korean language module ([#691](#)).
- Suppress orphan character in CJK languages ([#693](#)). *Orphan Character* here means a paragraph whose last line contains single character only.
- Issue `\iflanguageloaded` (and related) tests earlier so packages can be loaded conditionally ([#696](#)).
- Fix `\xpg@loaded` missing the main language in the preamble.

Documentation improvements

- Document the previously hidden Greek commands `\greektoday` and `\Greektoday` (part of [#695](#)).

2.8 (2025/09/22)

Bug fixes

- Fix spacing between a box and CJK characters ([#688](#)). This fixes a regression introduced in v. 2.7.

2.7 (2025/09/11)

Bug fixes

- Fix PDF strings with captions (#685).
- Fix spacing issue in List of Table/Figures (#686).
- Fix a bug with spacing after CJK punctuations and introduce `\inhibitglue` for Lua $\TeX$ (#687).

2.6 (2025/06/30)

Bug fixes

- Reset `splithyphens` and `vlua` state of embedding language after embedded language has been closed (#682).
- Fix space after `\greeknumeral` with numbers > 100 (#684).
- Adapt `localmarks` to work with $\TeX$ 6/2025.

New Features

- Add `koppa` option to Greek (#683).
- Add possibility to customize the numbers 6 and 90 in Greek (#683).

2.5 (2025/05/12)

Interface and defaults changes

- The `babelnames classiclatin` and `ecclesiasticlatin` are changed to `classicallatin` and `ecclesiasticallatin`. This reflects a change in the `babel-latin` package.

Bug fixes

- Fix a bug with linebreaking in CJK languages (#675).
- Fix global setting of `babelshorthands` (#680).
- Fix mapping between upper and lower case for classic and medieval Latin: u/V , $\acute{u}/\acute{V}$, $\bar{u}/\bar{V}$, $\ddot{u}/\ddot{V}$.

2.4 (2025/01/31)

Bug fixes

- Fix `changecounternumbering` option of Bengali (#672).
- Fix testing of languages in groups (#669).
- Fix error with undefined internal command (`\xpg_pop_language:`) that should be defined (#671).
- The command `\familytype` is now predefined again independent of font settings, and its name was changed to `\l_xpg_familytype_tl`.
- A warning is now issued if `babel` is loaded in parallel with `polyglossia`.

2.3 (2024/09/23)

Bug fixes

- Line-breaking for Japanese and Chinese has been implemented. This is still considered experimental, please test and report any issues (#635).
- Prevent the Latin gloss from writing undefined commands to the aux file (#643).
- Fix use of \pghyphenation in preamble (#654).
- Fix handling of current language options in lists of figures/tables (#657).
- Fix definition of \cyrdash so that no linebreak is added when it is used at paragraph begin.
- Fix test for KOMA class in Hungarian and Russian glosses (#447).
- Fix display of font name in package error.
- Remove spurious spaces from Korean, Sanskrit, and Serbian glosses (#659, #660)

2.2 (2024/07/15)

Bug fixes

- Fix lang environment (#633).
- Fix first number of Maghrib abjad numbering for Algeria, Morocco and Tunisia (#640).
- Fix some captions strings in Bulgarian, Chinese, Esperanto, Estonian, Hindi, Latvian, and Slovak (#651)
- Improve performance with multilingual documents that have a TOC (#641).

New Features

- Add possibility to associate a font to a language/variant with reference to a BCP-47 script tag (#636).

Internal work

- The major rewrite of the package code has been finished. More code has been cleaned up, and `polyglossia` employs modern concepts (`latex3` and modern $\text{\LaTeX}$ 2 ϵ). All key-val handling uses `l3keys` now rather than `xkeyval`.

2.1 (2024/03/07)

Bug fixes

- Make `\foreignlanguage \long` again (#622).
- Fix `otherlanguage*` environment (#622).

2.0 (2024/02/17)

Bug fixes

- Fix error with undefined property list that unhides with `l3kernel` version 2024-02-13 (#626).
- Fix `frenchfootnote` option (#620).
- The error message on improper font setting is now correct if the main script is non-Latin, for non-Roman fonts (#571), and specifically for the CJK case (#621).
- Fix expansion of `localnumeral` (#622).

New Features

- Add `\inheritbabelshorthands` (#604).
- Add `\usebabelshorthands`.
- Add shorthands for German gender-sensitive writing.
- Implement `babel`-style hyphenation for Finnish.

Documentation improvements

- Fix documentation of Finnish shorthands (#623).

Internal work

- The package code has been subjected to a major rewrite. Code has been cleaned up, and in general, `polyglossia` more consistently employs `latex3` now. Note that this is an ongoing and yet unfinished project that will continue over the next releases.

1.66 (2023/12/11)

Bug fixes

- Fix OpenType language and script tags in Chinese (#606).
- Fix resetting of language specifications at the end of a local font set with `babel` legacy means (`\foreignlanguage` or `otherlanguage*` environment) (#607).
- Fix lowercasing of `\textlang`'s first mandatory argument. Now the casing does not change (language tag was lower-cased always) (#608).
- Add missing BCP-47 alias for Khmer (#611).
- Stop `\charifavailable` from looking ahead for more numbers or gobbling a space (#613).

New Features

- Add support for Odia, provided by `AVISEK JENA` and `ASHOK DAS`.
- New auxiliary package `odiadigits`
- Add auxiliary command `\IfCharIsAvailableTF` to complement `\charifavailable`.

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 `\Greeknatural` rather than to the synonyms `\greeknumber` and `\Greeknatural` (#602).

1.64 (2023/07/21)

Bug fixes

- Fix conflict of `soul` with `splithyphens` on $\text{\LaTeX}$ (#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 $\TeX$ for Arabic, Kurdish, Persian, Syriac, and Urdu (amends previous fix to #213).
- ▶ French `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-CA-u-sd-canb`). Note that Quebec French is currently connected with `fr-CA`, not the more specific `fr-CA-u-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 $\TeX$ 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 `capitalyiwn` for Armenian.
- ▶ New option `capitaleszett` for German.
- ▶ New option `capitaliota` for Greek.
- ▶ New option `datei` for Serbian.
- ▶ New option `sectionsep` for Arabic, Kurdish, Persian, Syriac, and Urdu (#589).
- ▶ Add aliases `eastern` (= `mashriq`) and `western` (= `maghrib`) to Arabic `numerals`.
- ▶ 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.
- ▶ Add shorthands "a, "e, "i, "o, "u, "A, "E, "I, "O, "U, "y, and "Y to Dutch.

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 `vlua` 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-alpha` (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* $\LaTeX$ 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 `\iflanguageloaded` and friends work in preamble (#532).
- Fix deactivation of shorthands (#320).
- Fix deactivation of numerals.
- Update deprecated $\LaTeX$ hooks (#523).
- Fix **luatexrender** 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 `\uyghurord` 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 $\LaTeX$ 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 `\alsname` (#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 (#337). 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 babelname 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{<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` option (#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 interoperability 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 **latestthyphen** in language German is deprecated. XeTeX and LuaTeX 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 `medievallatin`. This is how the hyphenation patterns and **babel** `\extras` 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_lowercase: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 **swapstrings** provides control over this.
- Introduce macro `\setlanguagealias` and `\setlanguagealias*`.
- Introduce language switching command `\textlang{lang}{...}` (these are equivalent to `\text{<lang>}`, but also available with `\setlanguagealias*` which does not define `\text{<alias>}`).
- Add support for Afrikaans.
- Add support for Belarusian.
- Add support for Bosnian.
- Add support for Georgian.
- Add Spanish variant `mexican`.
- Add **babelshorthands** as well as options **splithyphens** and **vlna** to Slovak.
- Add Latin language variant `ecclesiastic`.
- Add Latin language options `capitalizemonth`, `ecclesiasticfootnotes`, `hyphenation`, `prosodicshorthands`, and `usej`.

- Add Latin shorthands for «, », æ, Æ, œ, and Œ.
- Add French language option **thincolonspace**.

Bug fixes

- Fix problems with fragile font settings (#24).
- Fix clash of French punctuation spacing with the **soul** package (#52).
- Re-enable the possibility to pass a macro as main argument to `\setmainlanguage` and `\setotherlanguage` (#331).
- Fix detection of default `\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 **expl3** declaration (#348).

Interface and defaults changes

- The sub-package `cyrillicnumbers.sty` has been renamed to `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 **indentfirst=false**.
- In Czech, **splithyphens** and **lvna** are enabled by default. Also, the option does now work as well with LuaTeX.
- Changed option name **fraktur** to **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 `\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 **biblatex** and **polyglossia**.
- Add new macros `\languagevariant` and `\mainlanguagevariant` as well as `\babelname` and `\mainbabelname` for package authors to access language information.
- Add new test `\iflanguageloaded{<language>}{<true>}{<false>}` where `<language>` can be a **polyglossia** or **babel** language name.
- Add new macros `\localnumeral`, `\localnumeral*`, `\Localnumeral` and `\Localnumeral*` that convert Arabic digitals to the local number scheme.
- Add new macro `\pglhyphenation` to add language-specific hyphenation exceptions (#18).
- Add support for (Khalkha & Cyrillic) Mongolian in line with **babel-mongolian** (#23).
- Add option **splithyphens** and **vlua** to Czech (XeTeX only; for LuaTeX, use the package **luavlua** 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 **bahasai** and **bahasam** (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 bokmal. 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 **autospacetyewriter** alias **OriginalTypewriter**.
- Support \aemph 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).
- Fix numbering expansion issue in Greek (#110).
- 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 ZHOLUDEV](#) (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 \bbl@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 OL](#) (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 `babelsh.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

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 `\makeoother` 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 `\makeoother` to match the initial `\makeatletter`. (Not necessary from a technical point of view, 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/020319.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 `\bgroup` 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.ob (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 `\<lang>font` 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 `bengalidigits`
- `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 Bahasai, 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 type-setting in Fraktur.
- New command `\aemph` 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 geminated l
- 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.ob (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. Ö. 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 `\xpg@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 `\l@nohyphenation=255`
 - localize `\ccode` 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 bug fixes 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.

14 Acknowledgements (by François Charette)

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15 More acknowledgements (by the current development team)

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