

Babel support for the Latin language

Claudio Beccari

Keno Wehr*

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Abstract

This manual documents the babel-latin package, which defines all language-specific macros for the babel languages `latin`, `classicallatin`, `medievallatin`, and `ecclesiasticallatin`. These languages are usable with pdf^LA_{TeX}, X_{La}^TE_X, and Lua^AT_EX. The `latin` language is even usable with plain T_EX (with some restrictions).

See section 2.5 on how to update from outdated modifiers and the ecclesiastic package.

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*Current maintainer. Please report errors to <https://github.com/wehro/babel-latin/issues>.

latin	classicallatin	medievallatin	ecclesiasticallatin
Novembris	Nouembris	Nouembris	Novembris
Praefatio	Praefatio	Præfatio	Præfatio
\MakeUppercase{Iulius} yields:			
IULIUS	IVLIVS	IVLIVS	IULIUS

Table 1: Spelling differences between the Latin language variants

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1 Language variants

Latin has been the most important language of European intellectual life for a long time. Throughout the centuries, many different styles of Latin have been in use concerning wording, spelling, punctuation, and hyphenation. The typographical conventions of an edition of a Latin classic are quite different from those of a liturgical book, even if both have been printed in the 20th century. And even the same Latin text may look quite differently depending on the preferences of the editor and the typographical customs of his country. Latin is supranational, but its typography is not.

To fit all needs, the `babel-latin` package defines four different language variants of Latin, i. e., four different babel languages. Table 1 shows some differences between the language variants. It is no problem to use different variants of Latin within the same document. If you need classical and modern Latin, just say

```
\usepackage[classicallatin,latin]{babel}
```

and switch the language using the commands described in the babel manual.

The `latin` language – modern Latin This language variant is intended for the modern usage of Latin; with this we mean the kind of Latin that is used as an official language in the State of Vatican City and in the teaching of Latin in modern schools. Typically, the following alphabet is used:

```
a b c d e f g h i k l m n o p q r s t u v x y z
A B C D E F G H I K L M N O P Q R S T U V X Y Z
```

The classicallylatin language – classical Latin This language variant is intended for typesetting Latin texts more or less according to the ancient usage of Latin. However, the use of lower-case letters, which are not of ancient origin, is not excluded. The following alphabet is used:

a b c d e f g h i k l m n o p q r s t u x y z
A B C D E F G H I K L M N O P Q R S T V X Y Z

Note that ‘V’ corresponds to ‘u’ in lower case. This habit came up in the Middle Ages and is still in use in many text editions. It must be noted that babel-latin does not make any spelling correction in order to use only ‘u’ in lower case and only ‘V’ in upper case: if the input text is wrongly typed in, it remains as such; this means it’s the typesetter’s responsibility to correctly input the source text to be typeset; in spite of this, when the transformation from lower to upper case is performed (such as, for example, while typesetting headers with some document classes) the correct capitalization is performed and ‘u’ is capitalized to ‘V’; the reverse takes place when transforming to lower case.

The mediellatin language – medieval/humanist Latin The spelling is similar to the classical one, but the ligatures æ, Æ, œ, and Æ are used for the respective (former) diphthongs. Again, it is the typesetter’s responsibility to input the text to be typeset in a correct way. The following alphabet is used:

a æ b c d e f g h i k l m n o œ p q r s t u x y z
A Æ B C D E F G H I K L M N O Æ P Q R S T V X Y Z

As far as the current maintainer can judge it, the consequent use of ‘æ’ and ‘œ’ ligatures came up in 15th century manuscripts in Italy. So this language variant rather reflects the Latin of the humanist/Renaissance period than that of the Middle Ages. However, we stick to the *medieval* name chosen in earlier versions of babel-latin.

The ecclesiasticallylatin language – ecclesiastical Latin Ecclesiastical Latin is a spelling variety of modern Latin, which is used above all in liturgical books of the Roman Catholic Church, where the ligatures æ and œ are widely used and where acute accents are used in order to mark the tonic vowel of words with more than two syllables to make sure the correct stress. The following alphabet is used:

a æ b c d e f g h i k l m n o œ p q r s t u v x y z
A Æ B C D E F G H I K L M N O Æ P Q R S T U V X Y Z

This language variant also contains a certain degree of “Frenchization” of spaces around some punctuation marks and guillemets: 1/12 of a quad is inserted before ‘!’, ‘?’, ‘:’, ‘;’, ‘»’, and ‘>’ as well as after ‘«’ and ‘<’. The spacing of guillemets does not work with pdfTeX except when using the shorthands “<” and “>” (see section 4).

For what concerns babel and typesetting with T_EX, the differences between the language variants reveal themselves in the strings used to name, for example, the “Preface”, that becomes “Praefatio” or “Præfatio”, respectively. Hyphenation rules are also different, cf. section 3.

The name strings for chapters, figures, tables, et cetera, have been suggested by prof. Raffaella Tabacco, a latinist of the University of Vercelli, Italy, to whom we address our warmest thanks. The names suggested by Krzysztof Konrad Żelechowski, when different, are used as the names for the medieval variety, since he made a word and spelling choice more suited for this variety.

2 Modifiers

The four language variants described above do not cover all variations of Latin typography. Additionally there are several *modifiers*: `usej`, `lowercasemonth`, `withprosodicmarks`, and `ecclesiasticfootnotes`. The meaning of these modifiers is explained below.

To apply a modifier you have to append it (prefixed with a dot) to the language name when loading `babel`:

```
\usepackage[ecclesiasticallatin.lowercasemonth]{babel}
```

If you need two modifiers or more, just concatenate them in arbitrary order:

```
\usepackage[latin.usej.withprosodicmarks]{babel}
```

2.1 The letter *j*

The letter *j* is not of ancient origin. In early modern times, it was used to distinguish the consonantic *i* from the vocalic *i*. In liturgical books *j* was in use until the 1960s. Nowadays, the use of *j* has disappeared from most Latin publications. This is why `babel-latin` does not use *j* in predefined terms by default. Use the `usej` modifier if you prefer *Januarii* and *Maji* to *Ianuarii* and *Maii*.

2.2 Case of month names

Traditionally, Latin month names are capitalized: *Ianuarii*, *Februarii*, *Martii*, ... (We state the genitive forms here as this is what we need for Latin dates.) So `babel-latin` capitalizes the month names for all four language variants. However, in recent liturgical books month names are written in lower case (as in Romance languages). Use the `lowercasemonth` modifier if you prefer not to capitalize the month names printed by the `\today` command: *ianuarii*, *februarii*, *martii*, ...

2.3 Shorthands for prosodic marks

Textbooks, grammars, and dictionaries often use letters with prosodic marks (macrons and breves) like ‘ā’ and ‘ă’ to mark long and short vowels. On modern systems, the required characters can be input directly thanks to Unicode. For backwards compatibility and as an perhaps more comfortable alternative even today, `babel-latin` provides shorthands for prosodic marks if you load the language with the `withprosodicmarks` modifier.

Note that these shorthands may interfere with other packages. The `active = character` used for macrons will cause problems with commands using `key=value` interfaces, such as the command `\includegraphics[scale=2]{...}`. Therefore, the shorthands are disabled by default. You have to use dedicated commands to turn them on and off. Use `\ProsodicMarksOn` to enable them and `\ProsodicMarksOff` to disable them again. To get “Găllă ăst ămnăis dăivăisă ăn părtăes trăs”, type:

```
\ProsodicMarksOn
G^all^i^a ^est ^omn^is d=iv=is^a ^in p^art=es tr=es
\ProsodicMarksOff
```

The following shorthands are available:

=a for ā (a with macron), also available for ē, ī, ō, ū, and ŷ

- =A for \bar{A} (A with macron), also available for \bar{E} , \bar{I} , \bar{O} , \bar{U} , \bar{V} , and \bar{Y} . Note that a macron above the letter V is only displayed if your font supports the Unicode character U+0304 (*combining macron*).
- =ae for \bar{ae} (ae diphthong with macron, for `latin` and `classicallatin`) or $\bar{æ}$ (ae ligature with macron, for `medievallatin` and `ecclesiasticallatin`), respectively; also available for \bar{au} , \bar{eu} , and $\bar{oe}/\bar{œ}$. Note that macrons above diphthongs are only displayed if your font supports the Unicode character U+035E (*combining double macron*), which always requires $\text{\texttt{XeLaTeX}}$ or $\text{\texttt{LuaLaTeX}}$.¹
- =Ae for \bar{Ae} (Ae diphthong with macron, for `latin` and `classicallatin`) or $\bar{Æ}$ (AE ligature with macron, for `medievallatin` and `ecclesiasticallatin`), respectively; also available for \bar{Au} , \bar{Eu} , and $\bar{Oe}/\bar{œ}$.
- =AE for \bar{AE} (AE diphthong with macron, for `latin` and `classicallatin`) or $\bar{Æ}$ (AE ligature with macron, for `medievallatin` and `ecclesiasticallatin`), respectively; also available for \bar{Au} , \bar{Eu} , and $\bar{Oe}/\bar{œ}$.
- ^a for \breve{a} (a with breve), also available for \breve{e} , \breve{i} , \breve{o} , \breve{u} , and \breve{y} . Note that a breve above the letter y is only displayed if your font supports the Unicode character U+0306 (*combining breve*).
- ^A \breve{A} (A with breve), also available for \breve{E} , \breve{I} , \breve{O} , \breve{U} , \breve{V} , and \breve{Y} . Note that breves above the letters V and Y are only displayed if your font supports the Unicode character U+0306 (*combining breve*).

Note the incompatibilities described in section 5.

2.4 Ecclesiastical footnotes

The ecclesiastic package, an outdated extension of former versions of babel-latin, typeset footnotes with ordinary instead of superior numbers and without indentation.

As many ecclesiastical documents and liturgical books use footnotes that are very similar to the ordinary $\text{\texttt{LaTeX}}$ ones, we do not use this footnote style as default even for the `ecclesiasticallatin` language variant. But you may use the `ecclesiasticfootnotes` modifier (with any variant of Latin) if you prefer that footnote style.

Note that this modifier affects the entire document. It can only be applied to the document's main language.

2.5 Legacy modifiers and language options

babel-latin defined only one single babel language up to v.3.5. Language variants used to be accessible via modifiers. This approach has proved to be disadvantageous concerning compatibility with other language-specific packages like `biblatex`. That's why v.4.0 introduced the `classicalatin`, `medievallatin`, and `ecclesiasticlatin` languages. `classicalatin` and `ecclesiasticlatin` have been renamed to `classicallatin` and `ecclesiasticallatin` in v.4.1 for the sake of philological correctness.

¹A good choice for a font supporting the combining double macron might be *Libertinus Serif*, the font of this manual.

<i>Language variant</i>	<i>Hyphenation style</i>	<i>Name of patterns</i>
latin	modern	latin
classicallatin	classical	classiclatin
medievallatin	modern	latin
ecclesiasticallatin	modern	latin
–	liturgical	liturgicallatin

Table 2: Latin hyphenation styles

The legacy modifiers `classic`, `medieval`, and `ecclesiastic` as well as the language options `classiclatin` and `ecclesiasticalatin` are still available and backwards compatibility is made sure. However, a warning is issued if you use one of these modifiers or language options. They may be dropped from `babel-latin` in a future version.

For maximum compatibility, replace

- `\usepackage[classiclatin]{babel}` by `\usepackage[classicallatin]{babel}`,
- `\usepackage[ecclesiasticalatin]{babel}` by `\usepackage[ecclesiasticallatin]{babel}`,
- `\usepackage[latin.classic]{babel}` by `\usepackage[classicallatin]{babel}`,
- `\usepackage[latin.medieval]{babel}` by `\usepackage[medievallatin]{babel}`,
- `\usepackage[latin.ecclesiastic]{babel}` by
`\usepackage[ecclesiasticallatin.ecclesiasticfootnotes,activeacute]{babel}`.

The last replacement is also recommended if you have been loading the `ecclesiastic` package so far. This package is no longer necessary as its functionality is provided by `babel-latin` now.

3 Hyphenation

There are three different sets of hyphenation patterns for Latin, reflecting three different styles of hyphenation: *classical*, *modern*, and *liturgical*. Separate documentation for these hyphenation styles is available on the Internet.² Each of the four Latin language variants has its default hyphenation style as indicated by table 2. Use the `\babelprovide` command with the `hyphenrules` option if the default style does not fit your needs.

To typeset a liturgical book in the recent “Solesmes style” say

```
\usepackage[ecclesiasticallatin.lowercasemonth]{babel}
\babelprovide[hyphenrules=liturgicallatin]{ecclesiasticallatin}
```

The typical commands for a Latin text edition in the German-speaking world will be

```
\usepackage[latin]{babel}
\babelprovide[hyphenrules=classiclatin]{latin}
```

Note that the liturgical hyphenation patterns are the default of none of the language variants. To use them, you have to load them explicitly in any case.

²<https://github.com/gregorio-project/hyphen-la/blob/master/doc/README.md#hyphenation-styles>

4 Shorthands

The following shorthands are available for all variants of Latin. Note that shorthands beginning with ' are only available if you load `babel` with the `activeacute` option.

- "< 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 Ê, Î, Ò, Û, V, Ý, Æ, and É

The following shorthands are only available for the `medievallatin` and the `ecclesiasticallatin` languages. Again, the shorthands beginning with ' only work with `babel`'s `activeacute` option.

- "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 æ̇ (ae ligature with acute), also available for œ̇
- 'Ae for Æ̇ (AE ligature with acute), also available for Œ̇
- 'AE for Æ̇ (AE ligature with acute), also available for Œ̇

Furthermore, there are shorthands for prosodic marks; see section 2.3. Note the incompatibilities described in section 5.

5 Incompatibilities with other packages

5.1 unicode-math

Loading the Latin language together with the `activeacute` `babel` option may cause error messages if the `unicode-math` package is loaded. Do not use `activeacute` if you need `unicode-math`, even if Latin is only a secondary language of your document.³

³See <https://github.com/wspr/unicode-math/issues/462> and <https://github.com/reutenauer/polyglossia/issues/394> for related discussions.

5.2 LuaTeX

The " character is made active by babel-latin; its use within the `\directlua` command will lead to problems (except in the preamble). Switch the shorthand off for such commands:

```
\shorthandoff{"}  
\directlua{tex.print("Salve")}  
\shorthandon{"}
```

You may avoid the shorthand switching by using single instead of double quotes. However, note that this will not work if the `activeacute` option is used, as ' is active in this case as well.

Furthermore, beware of using `\directlua` commands containing the = character between `\ProsodicMarksOn` and `\ProsodicMarksOff` if you load the Latin language with the `withprosodicmarks` modifier.

5.3 babel-turkish

Both Turkish and Latin (when loaded with the `withprosodicmarks` modifier) make the = character active. However, babel-latin takes care the active behaviour of this character is only enabled between `\ProsodicMarksOn` and `\ProsodicMarksOff` to avoid conflicts with packages using key=value interfaces.

If you need Latin with prosodic shorthands and Turkish with active = character in one document, you have to say `\shorthandon{=}` before the first occurrence of = in each Turkish text part.

5.4 babel-esperanto, babel-kurmanji, and babel-slovak

Esperanto, Kurmanji, Slovak, and Latin (when loaded with the `withprosodicmarks` modifier) make the ^ character active. However, babel-latin takes care the active behaviour of this character is only enabled between `\ProsodicMarksOn` and `\ProsodicMarksOff` to avoid conflicts with TeX's `^xx` convention.

If you need Latin with prosodic shorthands and Esperanto/Kurmanji/Slovak with active ^ character in one document, you have to say `\shorthandon{^}` before the first occurrence of ^ in each Esperanto/Kurmanji/Slovak text part.

5.5 ucharclasses

The XeTeX package `ucharclasses` can be used with babel-latin, but the punctuation spacing for ecclesiastical Latin does not work with this package.

6 Plain TeX

According to the babel manual, the recommended way to load the Latin language in plain TeX is:

```
\input latin.sty  
\begindocument
```

The modifiers `usej` and `lowercasemonth` may be accessed by means of the `\languageattribute` command:


```

\input latin.sty
\languageattribute{latin}{usej,lowercasemonth}
\begindocument

```

babel does not provide sty files for `classicallatin`, `medievallatin`, and `ecclesiasticallatin`. It should be possible to create them locally if needed.

Note that no Latin shorthands are available in plain \TeX .

7 The code

We identify the language definition file.

```
1 \ProvidesLanguage{latin}[2025-08-11 v4.2 Latin support from the babel system]
```

The macro `\LdfInit` takes care of preventing that this file is loaded more than once with the same option, checking the category code of the `@` sign, etc. `\CurrentOption` is the language requested by the user, i. e., `latin`, `classicallatin`, `medievallatin`, or `ecclesiasticallatin`.

```
2 \LdfInit\CurrentOption{captions\CurrentOption}
```

For tests, we need variables containing several possible values of the language name (including `classiclatin` and `ecclesiasticlatin`, which are outdated, but still supported).

```

3 \def\babellatin@classical{classicallatin}
4 \def\babellatin@classic{classiclatin}
5 \def\babellatin@medieval{medievallatin}
6 \def\babellatin@ecclesiastical{ecclesiasticallatin}
7 \def\babellatin@ecclesiastic{ecclesiasticlatin}

```

7.1 Hyphenation patterns

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

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

We define macros for testing if the required hyphenation patterns are available.

```

9 \def\babellatin@test@modern@patterns{%
10  \ifx\l@latin\undefined
11    \@nopatterns{latin}%
12    \adddialect\l@latin0
13  \fi}%
14 \def\babellatin@test@classical@patterns{%
15  \ifx\l@classiclatin\undefined
16    \PackageWarningNoLine{babel-latin}{%
17      No hyphenation patterns were found for the\MessageBreak
18      classicallatin language. Now I will use the\MessageBreak
19      patterns for modern Latin instead}%
20  \babellatin@test@modern@patterns
21  \adddialect\l@classiclatin\l@latin
22  \fi}%

```

We use the `classiclatin` hyphenation patterns for classical Latin and the (modern) `latin` hyphenation patterns for all other varieties of Latin.

```

23 \ifx\CurrentOption\babellatin@classical
24  \babellatin@test@classical@patterns

```

```

25 \adddialect\l@classicallatin\l@classiclatin
26 \else
27 \ifx\CurrentOption\babellatin@classic
28 \babellatin@test@classical@patterns
29 \else
30 \ifx\CurrentOption\babellatin@ecclesiastical
31 \babellatin@test@modern@patterns
32 \adddialect\l@ecclesiasticallatin\l@latin
33 \else
34 \ifx\CurrentOption\babellatin@ecclesiastic
35 \babellatin@test@modern@patterns
36 \adddialect\l@ecclesiasticlatin\l@latin
37 \else
38 \ifx\CurrentOption\babellatin@medieval
39 \babellatin@test@modern@patterns
40 \adddialect\l@medievallatin\l@latin
41 \else
42 \babellatin@test@modern@patterns
43 \fi
44 \fi
45 \fi
46 \fi
47 \fi

```

7.2 Latin captions

We need a conditional governing the spelling of the captions. Medieval and ecclesiastical Latin use the ligatures æ and œ, classical and modern Latin do not.

```

48 \newif\ifbabellatin@useligatures
49 \addto\extramedievallatin{\babellatin@useligaturestrue}%
50 \addto\noextramedievallatin{\babellatin@useligaturesfalse}%
51 \addto\extrasecclesiasticallatin{\babellatin@useligaturestrue}%
52 \addto\noextrasecclesiasticallatin{\babellatin@useligaturesfalse}%
53 \addto\extrasecclesiasticlatin{\babellatin@useligaturestrue}%
54 \addto\noextrasecclesiasticlatin{\babellatin@useligaturesfalse}%

```

We define the Latin captions using the commands recommended by the babel manual.⁴

```

55 \StartBabelCommands*\CurrentOption\{captions}
56 \SetString\prefacename{\ifbabellatin@useligatures Pr\ae fatio\else Praefatio\fi}
57 \SetString\refname{Conspectus librorum}
58 \SetString\abstractname{Summarium}
59 \SetString\bibname{Conspectus librorum}
60 \SetString\chaptername{Caput}
61 \SetString\appendixname{Additamentum}
62 \SetString\contentsname{Index}
63 \SetString\listfigurename{Conspectus descriptionum}
64 \SetString\listtablename{Conspectus tabularum}
65 \SetString\indexname{Index rerum notabilium}
66 \SetString\figurename{Descriptio}
67 \SetString\tablename{Tabula}
68 \SetString\partname{Pars}
69 \SetString\enclname{Adduntur}% Or "Additur"? Or simply Add.?

```

⁴Most of these names were kindly suggested by Raffaella Tabacco.

```

70 \SetString\ccname{Exemplar}%      Use the recipient's dative
71 \SetString\headtoname{\ignorespaces}% Use the recipient's dative
72 \SetString\pagename{Charta}
73 \SetString\seename{cfr.}
74 \SetString\alsoname{cfr.}% Tabacco never saw "cfr" + "atque" or similar forms
75 \SetString\proofname{Demonstratio}
76 \SetString\glossaryname{Glossarium}
77 \EndBabelCommands

```

In the above definitions there are some points that might change in the future or that require a minimum of attention from the typesetter.

1. The `\enclname` is translated by a passive verb, that literally means “(they) are being added”; if just one enclosure is joined to the document, the plural passive is not suited any more; nevertheless a generic plural passive might be incorrect but suited for most circumstances. On the opposite “Additur”, the corresponding singular passive, might be more correct with one enclosure and less suited in general: what about the abbreviation “Add.” that works in both cases, but certainly is less elegant?
2. The `\headtoname` is empty and gobbles the possible following space; in practice the typesetter should use the dative of the recipient’s name; since nowadays not all such names can be translated into Latin, they might result indeclinable. The clever use of a dative appellative by the typesetter such as “Domino” or “Dominae” might solve the problem, but the header might get too impressive. The typesetter must make a decision on his own.
3. The same holds true for the copy recipient’s name in the “Cc” field of `\ccname`.

7.3 Mapping between upper and lower case

For classical and medieval Latin we need the suitable correspondence between upper-case V and lower-case u since in that spelling there is only one letter for the vowel and the consonant, and the u shape is an (uncial) variant of the capital V.

We set the mapping only if the L^AT_EX format is used because we need commands for it that are not available in plain T_EX. The following commands take care for the correct behaviour of the `\MakeUppercase` and the `\MakeLowercase` command. They make sure that `\MakeUppercase{Heluetia}` yields “HELVETIA” and that `\MakeLowercase{LVDVS}` yields “ludus”.

```

78 \def\babellatin@latex{LaTeX}%
79 \ifx\fmtname\babellatin@latex
80 \DeclareUppercaseMapping[la-x-classic]{`u}{V}
81 \DeclareLowercaseMapping[la-x-classic]{`V}{u}

```

The mapping for medieval Latin is part of the `l3text` module, which is part of the L^AT_EX format (see `source3.pdf`).

For Unicode-based engines, we also have to take into account characters with diacritics. We map ú, ū, and ũ to V with the respective diacritic. It’s not enough to test for X_YL^AT_EX or LuaL^AT_EX, because LuaL^AT_EX might be used with the `luainputenc` package. We test for Unicode input the same way the packages `hyph-utf8` and `dehyph-exptl` do in their hyphenation pattern loader files.

```

82 \def\babellatin@testengine#1#2!{\def\babellatin@secondarg{#2}}%
83 \babellatin@testengine X!\relax % that's chi, a 2-byte UTF-8 sequence

```

```

84 \ifx\babel\babel@secondarg\empty
85 \DeclareUppercaseMapping[la-x-classic]{`ú}{\a'{V}}
86 \DeclareUppercaseMapping[la-x-classic]{`û}{\a={V}}
87 \DeclareUppercaseMapping[la-x-classic]{`Û}{\u{V}}
88 \DeclareUppercaseMapping[la-x-medieval]{`ú}{\a'{V}}
89 \DeclareUppercaseMapping[la-x-medieval]{`û}{\a={V}}
90 \DeclareUppercaseMapping[la-x-medieval]{`Û}{\u{V}}
91 \fi
92 \fi

```

The following `\BabelLower` command takes care for the correct hyphenation of words written in capital letters. It makes sure that “LVDVS” is hyphenated the same way as “ludus”.

```

93 \StartBabelCommands*{classicallatin,classicallatin,medievallatin}{
94 \SetHyphenMap{\BabelLower{`V}{`u}}
95 \EndBabelCommands

```

7.4 The Latin date

We need three conditionals governing the spelling of the month names. Ecclesiastical and modern Latin use the character *v*, classical and medieval Latin use only *u*. This affects the month of November. The user may demand to use the letter *j* where suitable or to lowercase month names using the respective modifiers.

```

96 \newif\ifbabel\babel@usev
97 \newif\ifbabel\babel@usej
98 \newif\ifbabel\babel@lowercasemonth
99 \babel\babel@usevtrue
100 \addto\extraclassicallatin{\babel\babel@usevfalse}%
101 \addto\noextraclassicallatin{\babel\babel@usevtrue}%
102 \addto\extraclassicallatin{\babel\babel@usevfalse}%
103 \addto\noextraclassicallatin{\babel\babel@usevtrue}%
104 \addto\extramedievallatin{\babel\babel@usevfalse}%
105 \addto\noextramedievallatin{\babel\babel@usevtrue}%

```

The Latin month names are needed in the genitive case.

```

106 \def\babel\babel@monthname{%
107 \ifcase\month\or\ifbabel\babel@usej Januarii\else Ianuarii\fi
108 \or Februarii%
109 \or Martii%
110 \or Aprilis%
111 \or\ifbabel\babel@usej Maji\else Maii\fi
112 \or\ifbabel\babel@usej Junii\else Iunii\fi
113 \or\ifbabel\babel@usej Julii\else Iulii\fi
114 \or Augusti%
115 \or Septembris%
116 \or Octobris%
117 \or\ifbabel\babel@usev Novembris\else Nouembris\fi
118 \or Decembris%
119 \fi}%

```

Depending on the chosen language, we have to define a `\latindate`, `\classicallatindate`, `\medievallatindate`, or `\ecclesiasticallatindate` command. The date format is “XXXI Decembris MMXXI”.

```

120 \expandafter\def\csname date\CurrentOption\endcsname{%

```

```

121 \def\today{%
122   \uppercase\expandafter{\romannumeral\day}~%
123   \ifbabellatin@lowercasemonth
124     \lowercase\expandafter{\babellatin@monthname}%
125   \else
126     \babellatin@monthname
127   \fi
128   \space
129   \uppercase\expandafter{\romannumeral\year}%
130 }%
131 }%

```

7.5 Shorthands

We define shorthands only if the L^AT_EX format is used because we need commands for them that are not available in plain T_EX.

```

132 \ifx\fmtname\babellatin@latex

```

Every shorthand character needs an `\initiate@active@char` command, which makes the respective character active, but expanding to itself as long as no further definitions occur. The apostrophe (acute) is only made active if `babel` has been called with the `activeacute` option.

```

133 \initiate@active@char{"}%
134 \ifpackagewith{babel}{activeacute}{\initiate@active@char{'}}}%

```

The following command is defined by the `hyperref` package. We use a dummy definition if this package is not loaded.

```

135 \providecommand\texorpdfstring[2]{#1}%

```

A peculiarity of the `babel-latin` package are shorthands of different lengths. " before a letter character defines an additional hyphenation point, but "ae is a shorthand for the ligature 'æ' in medieval and ecclesiastical Latin. So the shorthands definitions are rather complex and we need `expl3` syntax for them.

```

136 \ExplSyntaxOn

```

The character " is used as a shorthand unconditionally. In math mode it expands to itself. In text mode it is defined as a macro with one parameter. This makes it possible to read the following token, on which the actual meaning of the shorthand depends.

```

137 \declare@shorthand {latin} {"}
138 {
139   \mode_if_math:TF { \token_to_str:N " }
140   {
141     \texorpdfstring { \babellatin_apply_quotemark:N } { }
142   }
143 }

```

The character ' is used as a shorthand if the `activeacute` option is used. So we have to use a macro for the declaration, which can be called if necessary. In math mode the shorthand expands to `\active@math@prime` as defined in `latex.ltx`. In text mode it is a macro with one argument to read the following token.

```

144 \cs_set_protected:Npn \babellatin@declare@apostrophe@shorthands
145 {
146   \declare@shorthand {latin} {'}
147   {

```

```

148     \mode_if_math:TF { \active@math@prime }
149     {
150         \texorpdfstring { \babellatin_put_acute:N } { \' }
151     }
152 }
153 }

```

The characters = and ^ are only used as shorthands if the `withprosodicmarks` modifier is used. So we have to use a macro for the declaration, which can be called if necessary. In math mode both shorthands expand to themselves. In text mode they are macros with one argument to read the following token.

```

154 \cs_set_protected:Npn \babellatin@declare@prosodic@shorthands
155 {
156     \declare@shorthand {latin} {=}
157     {
158         \mode_if_math:TF { \token_to_str:N = }
159         {
160             \texorpdfstring { \babellatin_put_macron:N } { \= }
161         }
162     }
163     \declare@shorthand {latin} {^}
164     {
165         \mode_if_math:TF { \token_to_str:N ^ } { \babellatin_put_breve:N }
166     }
167 }

```

The following macro defines the behaviour of the active " character. The shorthands "AE, "Ae, "ae, "OE, "Oe, and "oe are used for ligatures if the current variety of Latin uses them. In other cases " before any letter character or before \AE, \ae, \OE, and \oe defines an additional hyphenation point. "|" defines an additional hyphenation point as well. The shorthands "< and "> are used for guillemets. In other cases the active " character expands to itself and the token read as argument is reinserted.

If the argument is a braced group (e. g. if the user has typed "{ab}"), unexpected behaviour may occur as the conditionals `\token_if_letter:NTF` and `\babellatin_if_ligature_command:NTF` expect a single token as first argument. Therefore we need to check if the argument is a single token using the `\tl_if_single_token:nTF` command before using those conditionals.

```

168 \cs_set_protected:Npn \babellatin_apply_quotemark:N #1
169 {
170     \str_case:nnF {#1}
171     {
172         {A} { \babellatin_ligature_shorthand:Nnn E { \AE }
173             {
174                 \babellatin_ligature_shorthand:Nnn e { \AE }
175                 {
176                     \babellatin_allowhyphens: A
177                 }
178             }
179         }
180         {a} { \babellatin_ligature_shorthand:Nnn e { \ae }
181             {
182                 \babellatin_allowhyphens: a
183             }
184         }

```

```

185 {0} { \babellatin_ligature_shorthand:Nnn E { \OE }
186 {
187     \babellatin_ligature_shorthand:Nnn e { \OE }
188     {
189         \babellatin_allowhyphens: 0
190     }
191 }
192 }
193 {o} { \babellatin_ligature_shorthand:Nnn e { \oe }
194 {
195     \babellatin_allowhyphens: o
196 }
197 }
198 {} { \babellatin_allowhyphens: }
199 {<} { \babellatin@guillemetleft }
200 {>} { \babellatin@guillemetright }
201 }
202 {
203     \tl_if_single_token:nTF {#1}
204     {
205         \token_if_letter:NTF #1 { \babellatin_allowhyphens: }
206         {
207             \babellatin_if_ligature_command:NTF #1 { \babellatin_allowhyphens: }
208             {
209                 \token_to_str:N "
210             }
211         }
212     }
213     {
214         \token_to_str:N "
215     }
216     #1
217 }
218 }

```

The following macro defines the behaviour of the active ' character. The shorthands 'AE, 'Ae, 'ae, 'OE, 'Oe, and 'oe are used for accented ligatures if the current variety of Latin uses them. In other cases ' before any vowel or before \AE, \ae, \OE, and \oe defines an accented character. The character V is treated as a vowel here as it may represent the vowel U, but v is not, as it is never used for a vowel. In other cases the active ' character expands to itself and the token read as argument is reinserted.

```

219 \cs_set_protected:Npn \babellatin_put_acute:N #1
220 {
221     \str_case:nnF {#1}
222     {
223         {A} { \babellatin_ligature_shorthand:Nnn E { \a'\AE }
224             {
225                 \babellatin_ligature_shorthand:Nnn e { \a'\AE } { Á }
226             }
227         }
228         {a} { \babellatin_ligature_shorthand:Nnn e { \a'\ae } { á } }
229         {E} { É }
230         {e} { é }
231         {I} { Í }

```

```

232 {i} { í }
233 {O} { \babellatin_ligature_shorthand:Nnn E { \a'\OE }
234 {
235 \babellatin_ligature_shorthand:Nnn e { \a'\OE } { Ó }
236 }
237 }
238 {o} { \babellatin_ligature_shorthand:Nnn e { \a'\oe } { ó } }
239 {U} { Ú }
240 {u} { ú }
241 {V} { \a'V }
242 {Y} { \a'Y }
243 {y} { \a'y }
244 {Æ} { \a'\AE }
245 {æ} { \a'\ae }
246 {Œ} { \a'\OE }
247 {œ} { \a'\oe }
248 }
249 {
250 \tl_if_single_token:nTF {#1}
251 {
252 \babellatin_if_ligature_command:NTF #1 { \a' }
253 {
254 \token_to_str:N '
255 }
256 }
257 {
258 \token_to_str:N '
259 }
260 #1
261 }
262 }

```

The following macro defines the behaviour of the active = character. The shorthands =AE, =Ae, =ae, =AU, =Au, =au, =EU, =Eu, =eu, =OE, =Oe, and =oe are used for diphthongs with a combining double macron (U+035E) or ligatures with a macron if the current variety of Latin uses them. In other cases = before any vowel puts a macron above the vowel. The character V is treated as a vowel here as it may represent the vowel U, but v is not, as it is never used for a vowel. In other cases the active = character expands to itself and the token read as argument is reinserted.

```

263 \cs_set_protected:Npn \babellatin_put_macron:N #1
264 {
265 \str_case:nnF {#1}
266 {
267 {A} { \babellatin_ligature_macron:NNnn AE { \a=\AE }
268 {
269 \babellatin_ligature_macron:NNnn Ae { \a=\AE }
270 {
271 \babellatin_diphthong_macron:NNn AU
272 {
273 \babellatin_diphthong_macron:NNn Au { \a=A }
274 }
275 }
276 }
277 }

```



```

278 {a} { \babellatin_ligature_macron:NNnn ae { \a=\ae }
279 {
280 \babellatin_diphthong_macron:NNn au { \a=a }
281 }
282 }
283 {E} { \babellatin_diphthong_macron:NNn EU
284 {
285 \babellatin_diphthong_macron:NNn Eu { \a=E }
286 }
287 }
288 {e} { \babellatin_diphthong_macron:NNn eu { \a=e } }
289 {I} { \a=I }
290 {i} { \a=i }
291 {O} { \babellatin_ligature_macron:NNnn OE { \a=\OE }
292 {
293 \babellatin_ligature_macron:NNnn Oe { \a=\OE } { \a=O }
294 }
295 }
296 {o} { \babellatin_ligature_macron:NNnn oe { \a=\oe } { \a=o } }
297 {U} { \a=U }
298 {u} { \a=u }
299 {V} { \a=V }
300 {Y} { \a=Y }
301 {y} { \a=y }
302 }
303 {
304 \tl_if_single_token:nTF {#1}
305 {
306 \babellatin_if_ligature_command:NTF #1 { \a= }
307 {
308 \token_to_str:N =
309 }
310 }
311 {
312 \token_to_str:N =
313 }
314 #1
315 }
316 }

```

The following macro defines the behaviour of the active `^` character. `^` before any vowel puts a breve above the vowel. The character `V` is treated as a vowel here as it may represent the vowel `U`, but `v` is not, as it is never used for a vowel. In other cases the active `^` character expands to itself and the token read as argument is reinserted.

```

317 \cs_set:Npn \babellatin_put_breve:N #1
318 {
319 \str_case:nnF {#1}
320 {
321 {A} { \u{A} }
322 {a} { \u{a} }
323 {E} { \u{E} }
324 {e} { \u{e} }
325 {I} { \u{I} }
326 {i} { \u{i} }

```

```

327      {0} { \u{0} }
328      {o} { \u{o} }
329      {U} { \u{U} }
330      {u} { \u{u} }
331      {V} { \u{V} }
332      {Y} { \u{Y} }
333      {y} { \u{y} }
334    }
335    {
336      \token_to_str:N ^
337      #1
338    }
339  }

```

We define a macro for an additional hyphenation point that does not suppress other hyphenation points within the word. This macro is used by the " and the "|" shorthand.

```

340 \cs_set:Npn \babellatin_allowhyphens:
341 {
342   \bbl@allowhyphens
343   \discretionary {-} {} {}
344   \bbl@allowhyphens
345 }

```

The conditional `\ifbabellatin@useligatures` cannot be used within a `expl3` context. So we have to define a macro testing if ligatures are enabled outside the `expl3` code part. The result is stored in the variable `\babellatin@useligatures@bool`. We define this variable analogously to `expl3`'s `\c_true_bool` and `\c_false_bool`.

```

346 \ExplSyntaxOff
347 \def\babellatin@test@for@ligatures{%
348   \ifbabellatin@useligatures
349     \chardef\babellatin@useligatures@bool=1
350   \else
351     \chardef\babellatin@useligatures@bool=0
352   \fi
353 }%
354 \ExplSyntaxOn

```

The following macro is intended for defining a shorthand for a ligature where useful. The first argument is the expected second character after " (e. g. e if "a has been read). The second argument is the true code, that applies if this character is found (the ligature command). The third argument is the false code (some other command).

```

355 \cs_set_protected:Npn \babellatin_ligature_shorthand:Nnn #1#2#3
356 {
357   \babellatin@test@for@ligatures
358   \bool_if:NTF \babellatin@useligatures@bool
359   {
360     \peek_meaning_remove:NTF #1 {#2} {#3}
361   }
362   {
363     #3
364   }
365 }

```

The following macro is intended for defining a shorthand for a diphthong with a combining double macron (U+035E). The first argument is the first character of the diphthong,

which has already been read. The second argument is the second character of the diphthong, which is expected to be read. The third argument is the false code, that applies if the second character is not found as expected.

For pdfL^AT_EX a warning is issued if the diphthong is found as this engine does not support the combining double macron.

```

366 \cs_set_protected:Npn \babellatin_diphthong_macron:NNn #1#2#3
367 {
368   \peek_meaning:NTF #2
369   {
370     #1
371     \bool_lazy_or:nnTF { \sys_if_engine_xetex_p: } { \sys_if_engine luatex_p: }
372     {
373       \iffontchar \font "35E \relax
374       \char "35E \relax
375       \else
376       \msg_warning:nn {babel-latin} {no-double-macron-font}
377       \fi
378     }
379     {
380       \msg_warning:nn {babel-latin} {no-double-macron-engine}
381     }
382   }
383   {
384     #3
385   }
386 }
387 \msg_set:nnn {babel-latin} {no-double-macron-font}
388 {
389   The~combining~double~macron~(U+035E)~is~not~available~in~the~current~
390   font.~The~diphthong~is~typeset~without~macron~ \msg_line_context: .
391 }
392 \msg_set:nnn {babel-latin} {no-double-macron-engine}
393 {
394   The~combining~double~macron~(U+035E)~is~not~available~with~
395   \c_sys_engine_str . ~ The~diphthong~is~typeset~without~macron~
396   \msg_line_context: .
397 }

```

The following macro is intended for defining a shorthand for a ligature with a macron where useful. The first argument is the first character of the diphthong, which has already been read. The second argument is the expected second character of the diphthong. The third argument is the code for the ligature with the macron. The fourth argument is the false code that applies if the second character is not found.

```

398 \cs_set_protected:Npn \babellatin_ligature_macron:NNnn #1#2#3#4
399 {
400   \babellatin_ligature_shorthand:Nnn #2 {#3}
401   {
402     \babellatin_diphthong_macron:NNn #1 #2 {#4}
403   }
404 }

```

The following conditional tests if the argument is a ligature command (`\AE`, `\ae`, `\OE`, or `\oe`).

```

405 \prg_set_conditional:Npnn \babellatin_if_ligature_command:N #1 {TF}

```

```

406 {
407   \token_if_eq_meaning:NNTF #1 \AE { \prg_return_true: }
408   {
409     \token_if_eq_meaning:NNTF #1 \ae { \prg_return_true: }
410     {
411       \token_if_eq_meaning:NNTF #1 \OE { \prg_return_true: }
412       {
413         \token_if_eq_meaning:NNTF #1 \oe { \prg_return_true: }
414         {
415           \prg_return_false:
416         }
417       }
418     }
419   }
420 }
421 \ExplSyntaxOff

```

For the "<" and the ">" shorthands we have to define the meaning of the macros used for their definition. The commands `\guillemetleft` and `\guillemetright` are provided by `babel`. We will have to change this definition later on for `ecclesiasticallatin` if `pdfTeX` is used.

```

422 \let\babellatin@guillemetleft\guillemetleft
423 \let\babellatin@guillemetright\guillemetright

```

Finally, we have to add the shorthand definitions to the extras of the current language.

```

424 \expandafter\addto\csname extras\CurrentOption\endcsname{%
425   \bbl@activate{"}%
426   \languageshorthands{latin}%
427 }%
428 \expandafter\addto\csname noextras\CurrentOption\endcsname{%
429   \bbl@deactivate{"}%
430 }%
431 \@ifpackagewith{babel}{activeacute}{%
432   \babellatin@declare@apostrophe@shorthands
433   \expandafter\addto\csname extras\CurrentOption\endcsname{%
434     \bbl@activate{'}%
435   }%
436   \expandafter\addto\csname noextras\CurrentOption\endcsname{%
437     \bbl@deactivate{'}%
438   }%
439 }{}%
440 \fi

```

7.6 Ecclesiastical punctuation spacing

We define some conditionals concerning the engine used.

```

441 \newif\ifbabellatin@luatex
442 \newif\ifbabellatin@xetex
443 \ifnum\bbl@engine=1
444   \babellatin@luatextrue
445 \else
446   \ifnum\bbl@engine=2
447     \babellatin@xetextrue
448   \fi

```

```
449 \fi
```

The following command defines the preparations needed for punctuation spacing in the preamble.

```
450 \def\babellatin@prepare@punctuation@spacing{%
```

For Lua_{TeX} we load an additional file containing some Lua code. This file is documented in section 7.9.

```
451 \ifbabellatin@luatex
452 \directlua{ecclesiasticallatin=require('ecclesiasticallatin')}}%
453 \else
```

The following command inserts a kern of 1/12 of a quad. This is the only amount of space used for punctuation within this package.

```
454 \def\babellatin@insert@punctuation@space{%
455 \kern0.08333\fontdimen6\font
456 }%
```

The following command inserts the same kern, removing any positive amount of space that precedes. This is needed if a closing guillemet is preceded by a space character erroneously input by the user.

```
457 \def\babellatin@replace@preceding@space{%
458 \ifdim\lastskip>\z@\unskip\fi
459 \babellatin@insert@punctuation@space
460 }%
```

The following command inserts the same kern, removing any following space character. This is needed if an opening guillemet is followed by a space character erroneously input by the user.

```
461 \def\babellatin@replace@following@space{%
462 \babellatin@insert@punctuation@space
463 \ignorespaces
464 }%
```

For X_YTeX the punctuation spacing will be defined based on five different character classes: one for question and exclamation marks, one for colons and semicolons, one for opening and closing guillemets, respectively, and one for opening brackets. Concerning spacing, brackets are treated the same way as letter characters in most cases. However, in strings like “(?)” no spacing is desired before the question mark. So we need a dedicated character class for opening brackets.

```
465 \ifbabellatin@xetex
466 \newXeTeXintercharclass\babellatin@qmark@class
467 \newXeTeXintercharclass\babellatin@colon@class
468 \newXeTeXintercharclass\babellatin@oguill@class
469 \newXeTeXintercharclass\babellatin@cguill@class
470 \newXeTeXintercharclass\babellatin@obrace@class
```

Furthermore, we need a class representing the word boundary. This class has a fixed number defined in latex.ltx.

```
471 \let\babellatin@boundary@class\e@alloc@intercharclass@top
```

A space is inserted between a question or exclamation mark and a closing guillemet.

```
472 \XeTeXinterchartoks\babellatin@qmark@class\babellatin@cguill@class={%
473 \babellatin@insert@punctuation@space}%
```

A space is inserted between a question or exclamation mark and a colon or semicolon.

```
474 \XeTeXinterchartoks\babellatin@qmark@class\babellatin@colon@class={%  
475 \babellatin@insert@punctuation@space}%
```

A space is inserted between a colon or semicolon and a closing guillemet.

```
476 \XeTeXinterchartoks\babellatin@colon@class\babellatin@cguill@class={%  
477 \babellatin@insert@punctuation@space}%
```

A space character after an opening guillemet is replaced by the correct amount of space.

```
478 \XeTeXinterchartoks\babellatin@oguill@class\babellatin@boundary@class={%  
479 \babellatin@replace@following@space}%
```

A space is inserted between two opening guillemets.

```
480 \XeTeXinterchartoks\babellatin@oguill@class\babellatin@oguill@class={%  
481 \babellatin@insert@punctuation@space}%
```

A space is inserted between an opening guillemet and any ordinary character.

```
482 \XeTeXinterchartoks\babellatin@oguill@class\z@={%  
483 \babellatin@insert@punctuation@space}%
```

A space is inserted between two closing guillemets.

```
484 \XeTeXinterchartoks\babellatin@cguill@class\babellatin@cguill@class={%  
485 \babellatin@insert@punctuation@space}%
```

A space is inserted between a closing guillemet and a question or exclamation mark.

```
486 \XeTeXinterchartoks\babellatin@cguill@class\babellatin@qmark@class={%  
487 \babellatin@insert@punctuation@space}%
```

A space is inserted between a closing guillemet and a colon or semicolon.

```
488 \XeTeXinterchartoks\babellatin@cguill@class\babellatin@colon@class={%  
489 \babellatin@insert@punctuation@space}%
```

A space character before a question or exclamation mark is replaced by the correct amount of space.

```
490 \XeTeXinterchartoks\babellatin@boundary@class\babellatin@qmark@class={%  
491 \babellatin@replace@preceding@space}%
```

A space character before a colon or semicolon is replaced by the correct amount of space.

```
492 \XeTeXinterchartoks\babellatin@boundary@class\babellatin@colon@class={%  
493 \babellatin@replace@preceding@space}%
```

A space character before a closing guillemet is replaced by the correct amount of space.

```
494 \XeTeXinterchartoks\babellatin@boundary@class\babellatin@cguill@class={%  
495 \babellatin@replace@preceding@space}%
```

A space is inserted between any ordinary character and a question or exclamation mark.

```
496 \XeTeXinterchartoks\z@\babellatin@qmark@class={%  
497 \babellatin@insert@punctuation@space}%
```

A space is inserted between any ordinary character and a colon or semicolon.

```
498 \XeTeXinterchartoks\z@\babellatin@colon@class={%  
499 \babellatin@insert@punctuation@space}%
```

A space is inserted between any ordinary character and a closing guillemet.

```
500 \XeTeXinterchartoks\z@\babellatin@cguill@class={%  
501 \babellatin@insert@punctuation@space}%  
502 \else
```

In pdfTeX active characters are needed for punctuation spacing.

```

503 \initiate@active@char{;}%
504 \initiate@active@char{:}%
505 \initiate@active@char{!}%
506 \initiate@active@char{?}%
507 \declare@shorthand{latin}{;}{}%
508 \ifhmode
509 \babellatin@replace@preceding@space
510 \string;%
511 \else
512 \string;%
513 \fi
514 }%
515 \declare@shorthand{latin}{:}{}%
516 \ifhmode
517 \babellatin@replace@preceding@space
518 \string;%
519 \else
520 \string;%
521 \fi
522 }%
523 \declare@shorthand{latin}{!}{}%
524 \ifhmode
525 \babellatin@replace@preceding@space
526 \string!%
527 \else
528 \string!%
529 \fi
530 }%
531 \declare@shorthand{latin}{?}{}%
532 \ifhmode
533 \babellatin@replace@preceding@space
534 \string?%
535 \else
536 \string?%
537 \fi
538 }%
539 \fi
540 \fi
541 }%

```

We call the previously defined command for ecclesiastical Latin.

```

542 \ifx\CurrentOption\babellatin@ecclesiastical
543 \babellatin@prepare@punctuation@spacing
544 \else
545 \ifx\CurrentOption\babellatin@ecclesiastic
546 \babellatin@prepare@punctuation@spacing
547 \fi
548 \fi

```

The following function actually enables the spacing of punctuation.

```

549 \def\babellatin@punctuation@spacing{%

```

For LuaTeX we just have to call a function of the Lua module.

```

550 \ifbabellatin@luatex

```

```

551 \directlua{ecclesiasticallatin.activate_spacing()}%
552 \else

```

For X_gTeX we have to enable the character classes functionality and assign the punctuation characters to the character classes. The character classes of the punctuation characters are saved because they have to be restored when changing to another language.

```

553 \ifbabellatin@xetex
554 \babel@savevariable{\XeTeXinterchartokenstate
555 \babel@savevariable{\XeTeXcharclass`!\}
556 \babel@savevariable{\XeTeXcharclass`\?}
557 \babel@savevariable{\XeTeXcharclass`!!}
558 \babel@savevariable{\XeTeXcharclass`??}
559 \babel@savevariable{\XeTeXcharclass`!?!}
560 \babel@savevariable{\XeTeXcharclass`!?!}
561 \babel@savevariable{\XeTeXcharclass`\?}
562 \babel@savevariable{\XeTeXcharclass`\;}
563 \babel@savevariable{\XeTeXcharclass`\:}
564 \babel@savevariable{\XeTeXcharclass`\«}
565 \babel@savevariable{\XeTeXcharclass`\»}
566 \babel@savevariable{\XeTeXcharclass`\<}
567 \babel@savevariable{\XeTeXcharclass`\>}
568 \babel@savevariable{\XeTeXcharclass`\{ }
569 \babel@savevariable{\XeTeXcharclass`\[ }
570 \babel@savevariable{\XeTeXcharclass`\{ }
571 \babel@savevariable{\XeTeXcharclass`\{ }
572 \XeTeXinterchartokenstate = 1
573 \XeTeXcharclass `!\ \babellatin@qmark@class
574 \XeTeXcharclass `!\? \babellatin@qmark@class
575 \XeTeXcharclass `!! \babellatin@qmark@class
576 \XeTeXcharclass `!!? \babellatin@qmark@class
577 \XeTeXcharclass `!?! \babellatin@qmark@class
578 \XeTeXcharclass `!?! \babellatin@qmark@class
579 \XeTeXcharclass `!\? \babellatin@qmark@class
580 \XeTeXcharclass `!\; \babellatin@colon@class
581 \XeTeXcharclass `!\: \babellatin@colon@class
582 \XeTeXcharclass `!\« \babellatin@oguill@class
583 \XeTeXcharclass `!\» \babellatin@cguill@class
584 \XeTeXcharclass `!\< \babellatin@oguill@class
585 \XeTeXcharclass `!\> \babellatin@cguill@class
586 \XeTeXcharclass `!\{ \babellatin@obrace@class
587 \XeTeXcharclass `!\[ \babellatin@obrace@class
588 \XeTeXcharclass `!\{ \babellatin@obrace@class
589 \XeTeXcharclass `!\{ \babellatin@obrace@class
590 \else

```

For pdfTeX we activate the shorthands.

```

591 \bbl@activate{;}%
592 \bbl@activate{:}%
593 \bbl@activate{!}%
594 \bbl@activate{?}%

```

We also redefine the guillemet commands.

```

595 \def\babellatin@guillemetleft{%
596 \guillemetleft

```



```

597     \babellatin@replace@following@space
598 }%
599 \def\babellatin@guillemetright{%
600     \babellatin@replace@preceding@space
601     \guillemetright
602 }%
603 \fi
604 \fi
605 }%

```

The following function disables the spacing of punctuation.

```

606 \def\babellatin@no@punctuation@spacing{%
607     \ifbabellatin@luatex
608         \directlua{ecclesiasticallatin.deactivate_spacing()}%
609     \else
610         \ifbabellatin@xetex
611         \else
612             \bbl@deactivate{;}%
613             \bbl@deactivate{:}%
614             \bbl@deactivate{!}%
615             \bbl@deactivate{?}%
616             \let\babellatin@guillemetleft\guillemetleft
617             \let\babellatin@guillemetright\guillemetright
618         \fi
619     \fi
620 }%

```

Punctuation is spaced in ecclesiastical Latin only.

```

621 \addto\extrasecclesiasticallatin{\babellatin@punctuation@spacing}%
622 \addto\noextrasecclesiasticallatin{\babellatin@no@punctuation@spacing}%
623 \addto\extrasecclesiasticlatin{\babellatin@punctuation@spacing}%
624 \addto\noextrasecclesiasticlatin{\babellatin@no@punctuation@spacing}%

```

7.7 Modifiers

We define some language options accessible via modifiers.

7.7.1 Using the letter *j*

The `usej` option sets the conditional `\ifbabellatin@usej` to true.

```

625 \bbl@declare@ttribute\CurrentOption{usej}{%
626     \expandafter\addto\csname extras\CurrentOption\endcsname{%
627         \babellatin@usejtrue}%
628     \expandafter\addto\csname noextras\CurrentOption\endcsname{%
629         \babellatin@usejfalse}%
630 }%

```

7.7.2 Typesetting months in lower case

The `lowercasemonth` option sets the conditional `\ifbabellatin@lowercasemonth` to true.

```

631 \bbl@declare@ttribute\CurrentOption{lowercasemonth}{%
632     \expandafter\addto\csname extras\CurrentOption\endcsname{%
633         \babellatin@lowercasemonthtrue}%

```

```

634 \expandafter\addto\csname noextras\CurrentOption\endcsname{%
635   \babellatin@lowercasemonthfalse}%
636 }%

```

7.7.3 Shorthands for prosodic marks

The `withprosodicmarks` option makes it possible to use shorthands like `=a` or `^a` for vowels with macrons and breves. We define it for all four language variants of Latin, but only if the \LaTeX format is used.

```

637 \ifx\fmtname\babellatin@latex
638   \bbl@declare@ttribute\CurrentOption{withprosodicmarks}{%

```

Every shorthand character needs an `\initiate@active@char` command, which makes the respective character active, but expanding to itself as long as no further definitions occur. Both active characters needs to be switched off at the beginning of the document to avoid problems with commands using `key=value` interfaces (e.g. `\includegraphics`) and \TeX 's `^^xx` convention.

```

639   \initiate@active@char{=}%
640   \initiate@active@char{^}%
641   \AtBeginDocument{%

```

We do not use `\shorthandoff{=}` and `\shorthandoff*{^}` in the following lines because `babel-french` redefines the `\shorthandoff` command for \XeLaTeX and \LuaLaTeX . Instead, we use `babel`'s internal definition of this command.

```

642     \bbl@shorthandoff\z@{=}%
643     \bbl@shorthandoff\tw@{^}%
644   }%
645   \babellatin@declare@prosodic@shorthands
646   \expandafter\addto\csname extras\CurrentOption\endcsname{%
647     \bbl@activate{=}%
648     \bbl@activate{^}%

```

The active `=` and `^` are normally turned off to avoid problems with commands using `key=value` interfaces and \TeX 's `^^xx` convention. We define the commands `\ProsodicMarksOn` and `\ProsodicMarksOff` for turning them on and off within the document. We use the starred form of `\shorthandoff` when turning off `^` to keep it working within math formulas.

```

649     \def\ProsodicMarksOn{%
650       \shorthandon{=}%
651       \shorthandon{^}%
652     }%
653     \def\ProsodicMarksOff{%
654       \shorthandoff{=}%
655       \shorthandoff*{^}%
656     }%
657   }%
658   \expandafter\addto\csname noextras\CurrentOption\endcsname{%
659     \bbl@deactivate{=}%
660     \bbl@deactivate{^}%
661   }%
662 }%

```

The `\ProsodicMarksOn` and `\ProsodicMarksOff` commands are useless without the `withprosodicmarks` modifier. They only issue warnings in this case.

```

663 \expandafter\addto\csname extras\CurrentOption\endcsname{%
664   \def\ProsodicMarksOn{%
665     \PackageWarning{babel-latin}{%
666       The \protect\ProsodicMarksOn\space command is only\MessageBreak
667       available using the withprosodicmarks\MessageBreak
668       modifier}%
669   }%
670   \def\ProsodicMarksOff{%
671     \PackageWarning{babel-latin}{%
672       The \protect\ProsodicMarksOff\space command is only\MessageBreak
673       available using the withprosodicmarks\MessageBreak
674       modifier}%
675   }%
676 }%
677 \fi

```

7.7.4 Ecclesiastical footnotes

The `ecclesiasticfootnotes` option sets the footnotes globally to the style defined by the (now outdated) `ecclesiastic` package. The definition takes place at the end of the package to be able to check `babel`'s main language. However, the `\CurrentOption` has lost its value at this moment, so we have to store it.

```

678 \bbl@declare@ttribute\CurrentOption{ecclesiasticfootnotes}{%
679   \let\babellatin@footnote@lang\CurrentOption
680   \AtEndOfPackage{%
681     \ifx\bbl@main@language\babellatin@footnote@lang
682       \let\@makefntext\babellatin@variant@footnote
683     \else
684       \PackageWarningNoLine{babel-latin}{%
685         \babellatin@footnote@lang\space is not the main language.\MessageBreak
686         The 'ecclesiasticfootnotes' modifier\MessageBreak
687         is ineffective}%
688     \fi
689   }%
690 }%

```

This is the footnote style as defined by the `ecclesiastic` package.

```

691 \def\babellatin@variant@footnote#1{%
692   \parindent 1em%
693   \noindent
694   \hbox{\normalfont\@thefnmark.}%
695   \enspace #1%
696 }%

```

7.8 Legacy modifiers and commands

We keep the modifiers `classic`, `medieval`, and `ecclesiastic` for backwards compatibility. We issue a warning if they are used.

```

697 \def\babellatin@outdated@modifier#1#2{%
698   \PackageWarningNoLine{babel-latin}{%
699     The '#1' modifier is outdated. Please\MessageBreak
700     consult the babel-latin manual and consider\MessageBreak
701     to load the language '#2'\MessageBreak

```

```

702   instead of `latin.#1'}%
703 }%
704 \def\babellatin@outdated@language#1#2{%
705   \PackageWarningNoLine{babel-latin}{%
706     The `#1' language is outdated.\MessageBreak
707     Please load the language `#2'\MessageBreak
708     instead}%
709 }%
710 \bbl@declare@ttribute{latin}{classic}{%
711   \babellatin@outdated@modifier{classic}{classicallatin}%
712   \addto\extraslatin{\babellatin@usevfalse}%
713   \addto\noextraslatin{\babellatin@usevtrue}%
714   \babellatin@test@classical@patterns
715   \let\l@latin\l@classiclatin
716   \DeclareUppercaseMapping[la]{`u}{V}%
717   \DeclareLowercaseMapping[la]{`V}{u}%
718 }%
719 \bbl@declare@ttribute{latin}{medieval}{%
720   \babellatin@outdated@modifier{medieval}{medievallatin}%
721   \addto\extraslatin{%
722     \babellatin@usevfalse
723     \def\prefacename{Pr\ae fatio}%
724   }%
725   \addto\noextraslatin{%
726     \babellatin@usevtrue
727   }%
728   \DeclareUppercaseMapping[la]{`u}{V}%
729   \DeclareLowercaseMapping[la]{`V}{u}%
730 }%
731 \bbl@declare@ttribute{latin}{ecclesiastic}{%
732   \babellatin@outdated@modifier{ecclesiastic}{ecclesiasticallatin}%
733   \babellatin@prepare@punctuation@spacing
734   \babellatin@ecclesiastic@outdated@commands

```

The apostrophe character becomes active, even without babel's activeacute option.

```

735 \initiate@active@char{'}%
736 \babellatin@declare@apostrophe@shorthands
737 \addto\extraslatin{%
738   \bbl@activate{'}%
739   \babellatin@punctuation@spacing
740   \babellatin@useligaturestrue
741 }%
742 \addto\noextraslatin{%
743   \bbl@deactivate{'}%
744   \babellatin@no@punctuation@spacing
745   \babellatin@useligaturesfalse
746 }%

```

We set up the footnotes like the ecclesiastic package did.

```

747 \addto\extraslatin{%
748   \babel@save\@makefnctext
749   \let\@makefnctext\babellatin@variant@footnote
750 }%
751 }%

```

In earlier versions of babel-latin (up to v.3.5) a `\SetLatinLigatures` command and a

`\ProsodicMarks` command have been defined. We retain them for backwards compatibility, but they do nothing except issuing a warning.

```

752 \providecommand\SetLatinLigatures{%
753   \PackageWarning{babel-latin}{%
754     The \protect\SetLatinLigatures\space command is obsolete.\MessageBreak
755     Please remove it}}%
756 \providecommand\ProsodicMarks{%
757   \PackageWarning{babel-latin}{%
758     The \protect\ProsodicMarks\space command is obsolete.\MessageBreak
759     Please remove it}}%

```

We retain some legacy commands concerning guillemets from the ecclesiastic package, which is now outdated, but we deprecate them.

```

760 \def\babellatin@ecclesiastic@outdated@commands{%
761   \providecommand*\FrenchGuillemetsFrom[4]{%
762     \PackageWarning{babel-latin}{%
763       The \protect\FrenchGuillemetsFrom\space command is obsolete.\MessageBreak
764       Please remove it and use \protect\usepackage[T1]{fontenc}\MessageBreak
765       if compiling with pdfLaTeX}}%
766   \let\FrenchGuillemetsFrom\FrenchGuillemetsFrom
767   \providecommand\ToneGuillemets{%
768     \PackageWarning{babel-latin}{%
769       The \protect\ToneGuillemets\space command is obsolete.\MessageBreak
770       Please remove it and use \protect\usepackage[T1]{fontenc}\MessageBreak
771       if compiling with pdfLaTeX}}%
772   \expandafter\addto\csname extras\CurrentOption\endcsname{%
773     \babel@save\og
774     \babel@save\fg
775     \DeclareRobustCommand\og{%
776       \babellatin@guillemetleft
777       \PackageWarning{babel-latin}{%
778         The \protect\og\space command is obsolete.\MessageBreak
779         Please replace it by "<}}}%
780     \DeclareRobustCommand\fg{%
781       \babellatin@guillemetright
782       \PackageWarning{babel-latin}{%
783         The \protect\fg\space command is obsolete.\MessageBreak
784         Please replace it by ">}}}%
785   }%
786 }%
787 \ifx\CurrentOption\babellatin@ecclesiastic
788   \babellatin@ecclesiastic@outdated@commands
789 \fi

```

The macro `\ldf@finish` takes care of looking for a configuration file, setting the main language to be switched on at `\begin{document}` and resetting the category code of `@` to its original value.

```

790 \ldf@finish\CurrentOption

```

`babel` expects `ldf` files for `classicallatin`, `medievallatin` and `ecclesiasticallatin`. These files themselves only load `latin.ldf`, which does the real work:

```

791 <classic>\ProvidesLanguage{classicalatin}
792 <classical>\ProvidesLanguage{classicallatin}
793 <ecclesiastic>\ProvidesLanguage{ecclesiasticlatin}
794 <ecclesiastical>\ProvidesLanguage{ecclesiasticallatin}

```

```
795 <medieval>\ProvidesLanguage{medievallatin}
```

```
796 \input latin.ldf\relax
```

We issue a warning if the outdated languages `classiclatin` and `ecclesiasticlatin` are called:

```
797 <classic>\babelatinal@outdated@language{classiclatin}{classicallatin}%
```

```
798 <ecclesiastic>\babelatinal@outdated@language{ecclesiasticlatin}{ecclesiasticallatin}%
```

7.9 The Lua module

In case Lua_{T_E}X is used for compilation, the spacing of punctuation for ecclesiastical Latin requires some Lua code, which is stored in `ecclesiasticallatin.lua`. The original version of this code has been written for the `polyglossia` package by É. Roux and others.

The Lua module identifies itself using the command provided by `lualatex`.

```
799 luatexbase.provides_module({
800   name      = "ecclesiasticallatin",
801   date      = "2025-08-11",
802   version   = "4.2",
803   description = "babel-latin punctuation spacing for ecclesiastical Latin"
804 })
805 local add_to_callback = luatexbase.add_to_callback
806 local in_callback     = luatexbase.in_callback
807 local new_attribute   = luatexbase.new_attribute
808 local node            = node
809 local insert_node_before = node.insert_before
810 local insert_node_after  = node.insert_after
811 local remove_node      = node.remove
812 local has_attribute     = node.has_attribute
813 local node_copy        = node.copy
814 local new_node         = node.new
815 local end_of_math      = node.end_of_math
816 local get_next        = node.getnext
817 local get_prev        = node.getprev
818 local get_property     = node.getproperty
```

Node types according to `node.types()`:

```
819 local glue_code   = node.id"glue"
820 local glyph_code  = node.id"glyph"
821 local penalty_code = node.id"penalty"
822 local kern_code   = node.id"kern"
823 local math_code   = node.id"math"
```

We need some node subtypes:

```
824 local userkern = 1
825 local removable_skip = {
826   [0] = true, -- userskip
827   [13] = true, -- spaceskip
828   [14] = true -- xspaceskip
829 }
```

We make a new node, so that we can copy it later on:

```
830 local kern_node = new_node(kern_code)
831 kern_node.subtype = userkern
832 local function get_kern_node(dim)
```

```

833     local n = node_copy(kern_node)
834     n.kern = dim
835     return n
836 end

```

All possible space characters according to section 6.2 of the Unicode Standard (<https://www.unicode.org/versions/Unicode12.0.0/ch06.pdf>):

```

837 local space_chars = {
838     [0x20] = true,  -- space
839     [0xA0] = true,  -- no-break space
840     [0x1680] = true, -- ogham space mark
841     [0x2000] = true, -- en quad
842     [0x2001] = true, -- em quad
843     [0x2002] = true, -- en space
844     [0x2003] = true, -- em space
845     [0x2004] = true, -- three-per-em-space
846     [0x2005] = true, -- four-per-em space
847     [0x2006] = true, -- six-per-em space
848     [0x2007] = true, -- figure space
849     [0x2008] = true, -- punctuation space
850     [0x2009] = true, -- thin space
851     [0x200A] = true, -- hair space
852     [0x202F] = true, -- narrow no-break space
853     [0x205F] = true, -- medium mathematical space
854     [0x3000] = true  -- ideographic space
855 }

```

All left bracket characters, referenced by their Unicode slot:

```

856 local left_bracket_chars = {
857     [0x28] = true,  -- left parenthesis
858     [0x5B] = true,  -- left square bracket
859     [0x7B] = true,  -- left curly bracket
860     [0x27E8] = true -- mathematical left angle bracket
861 }

```

All right bracket characters, referenced by their Unicode slot:

```

862 local right_bracket_chars = {
863     [0x29] = true,  -- right parenthesis
864     [0x5D] = true,  -- right square bracket
865     [0x7D] = true,  -- right curly bracket
866     [0x27E9] = true -- mathematical right angle bracket
867 }

```

Question and exclamation marks, referenced by their Unicode slot:

```

868 local question_exclamation_chars = {
869     [0x21] = true,  -- exclamation mark !
870     [0x3F] = true,  -- question mark ?
871     [0x203C] = true, -- double exclamation mark !!
872     [0x203D] = true, -- interrobang ?
873     [0x2047] = true, -- double question mark ??
874     [0x2048] = true, -- question exclamation mark ?!
875     [0x2049] = true  -- exclamation question mark !?
876 }

```

Test for a horizontal space node to be removed:

```

877 local function somespace(n)

```

```

878     if n then
879         local id, subtype = n.id, n.subtype
880         if id == glue_code then

```

It is dangerous to remove all type of glue.

```

881             return removable_skip[subtype]
882         elseif id == kern_code then

```

We only remove user's kern.

```

883             return subtype == userkern
884         elseif id == glyph_code then
885             return space_chars[n.char]
886         end
887     end
888 end

```

Test for a left bracket:

```

889 local function someleftbracket(n)
890     if n then
891         local id = n.id
892         if id == glyph_code then
893             return left_bracket_chars[n.char]
894         end
895     end
896 end

```

Test for a right bracket:

```

897 local function somerightbracket(n)
898     if n then
899         local id = n.id
900         if id == glyph_code then
901             return right_bracket_chars[n.char]
902         end
903     end
904 end

```

Test for two question or exclamation marks:

```

905 local function question_exclamation_sequence(n1, n2)
906     if n1 and n2 then
907         local id1 = n1.id
908         local id2 = n2.id
909         if id1 == glyph_code and id2 == glyph_code then
910             return question_exclamation_chars[n1.char] and question_exclamation_chars[n2.char]
911         end
912     end
913 end

```

Test for a penalty node:

```

914 local function somepenalty(n, value)
915     if n then
916         local id = n.id
917         if id == penalty_code then
918             if value then
919                 return n.penalty == value
920             else
921                 return true

```



```

922         end
923     end
924 end
925 end

```

LuaTeX attribute determining whether to space punctuation or not:

```

926 local punct_attr = new_attribute("ecclesiasticallatin_punct")

```

Tables containing the left and right space amount (in units of a quad) of every character:

```

927 local left_space = {}
928 local right_space = {}

```

Insertion of the necessary spaces to the node list:

```

929 local function process(head)
930     local current = head
931     while current do
932         local id = current.id
933         if id == glyph_code then
934             if has_attribute(current, punct_attr) then

```

We try to obtain the character of the current node from its property table, which is the most reliable way as the same character may be rendered by different glyphs with different code numbers.

```

935                 local char = get_property(current) and get_property(current).glyph_info

```

If the `glyph_info` property is not available, we use the node's `char` field to obtain the character, which is however only possible for numbers up to $10FFFF_{16}$.

```

936                 if not char and current.char <= 0x10FFFF then
937                     char = utf8.char(current.char)
938                 end
939                 local leftspace, rightspace
940                 if char then
941                     leftspace = left_space[char]
942                     rightspace = right_space[char]
943                 end
944                 if leftspace or rightspace then
945                     local fontparameters = fonts.hashes.parameters[current.font]
946                     local spacing_node
947                     if leftspace and fontparameters then
948                         local prev = get_prev(current)
949                         local space_exception = false
950                         if prev then

```

We do not add space after left (opening) brackets and between question/exclamation marks:

```

951                             space_exception = someleftbracket(prev)
952                             or question_exclamation_sequence(prev, current)
953                         while somespace(prev) do
954                             head = remove_node(head, prev)
955                             prev = get_prev(current)
956                         end
957                         if somepenalty(prev, 10000) then
958                             head = remove_node(head, prev)
959                         end
960                     end
961                     spacing_node = get_kern_node(leftspace * fontparameters.quad)

```

```

962             if not space_exception then
963                 head = insert_node_before(head, current, spacing_node)
964             end
965         end
966         if rightspace and fontparameters then
967             local next = get_next(current)
968             local space_exception = false
969             if next then

```

We do not add space before right (closing) brackets:

```

970                 space_exception = somerightbracket(next)
971                 local nextnext = get_next(next)
972                 if somepenalty(next, 10000) and somespace(nextnext) then
973                     head, next = remove_node(head, next)
974                 end
975                 while somespace(next) do
976                     head, next = remove_node(head, next)
977                 end
978             end
979             spacing_node = get_kern_node(rightspace * fontparameters.quad)
980             if not space_exception then
981                 head, current = insert_node_after(head, current, spacing_node)
982             end
983         end
984     end
985 end
986 elseif id == math_code then
987     current = end_of_math(current)
988 end

```

The following line does not cause an error even if current is nil.

```

989     current = get_next(current)
990 end
991 return head
992 end

```

Now we define the actual amount of space for the relevant punctuation characters. For ecclesiastical Latin (and sometimes for Italian) a very small space is used for the punctuation. The ecclesiastic package, a predecessor of the current babel-latex, used a space of 0.3\fontdimen2 , where \fontdimen2 is an interword space, which is typically between $1/4$ and $1/3$ of a quad. We choose a half of a \thinspace here, i. e., $1/12$ of a quad.

```

993 local hairspace = 0.08333 -- 1/12
994 local function space_left(char)
995     left_space[char] = hairspace
996 end
997 local function space_right(char, kern)
998     right_space[char] = hairspace
999 end
1000 space_left('!')
1001 space_left('?')
1002 space_left('!!')
1003 space_left('??')
1004 space_left('?!')
1005 space_left('!?!')
1006 space_left('?') -- U+203D (interrobang)

```

```
1007 space_left(':')
1008 space_left(';')
1009 space_left('»')
1010 space_left('>')
1011 space_right('«')
1012 space_right('<')
```

The following functions activate and deactivate the punctuation spacing.

```
1013 local function activate()
1014     tex.setattribute(punct_attr, 1)
1015     for _, callback_name in ipairs{ "pre_linebreak_filter", "hpack_filter" } do
1016         if not in_callback(callback_name, "ecclesiasticallatin-punct.process") then
1017             add_to_callback(callback_name, process, "ecclesiasticallatin-punct.process")
1018         end
1019     end
1020 end
1021 local function deactivate()
```

Though it would make compilation slightly faster, it is not possible to safely remove the process from the callback here. Imagine the following case: you start a paragraph by some spaced punctuation text, then, in the same paragraph, you change the language to something else, and thus call this function. This means that, at the end of the paragraph, the function won't be in the callback, so the beginning of the paragraph won't be processed by it. So we just unset the attribute.

```
1022     tex.setattribute(punct_attr, -0x7FFFFFFF) -- this value means "unset"
1023 end
```

For external access to the activation and deactivation of the punctuation spacing, we define a table `ecclesiasticallatin` containing two functions. We return this table.

```
1024 ecclesiasticallatin = ecclesiasticallatin or {}
1025 ecclesiasticallatin.activate_spacing = activate
1026 ecclesiasticallatin.deactivate_spacing = deactivate
1027 return ecclesiasticallatin
```

Change History

0.99		shorthands 4
	General: Added shorthands for breve	Simplified shorthands for
	and macron 4	etymological hyphenation 7
	Added shorthands for etymological	
	hyphenation 7	2.0e
	First version, from <code>italian.dtx</code> (CB) . . 1	General: Introduced the language
1.2		attribute 'withprosodicmarks';
	General: Added suggestions from	modified use of breve and macron
	Krzysztof Konrad Żelechowski	shorthands in order to avoid
	(CB) 1	possible conflicts with other
		packages 4
2.0a		2.0k
	General: Revised by JB 1	General: Inserted the various
2.0b		'November' Latin spellings to the
	General: Language attribute <code>medieval</code>	proper 'extras' macros 12
	declared 5	3.0
	Modified breve and macro	General: Added modifier for classical

spelling and hyphenation	5		
3.5 General: Added the modifier for the ecclesiastic Latin variety	5		
4.0 General: Additional shorthands for guillemets and accented letters for all language variants; additional shorthands for ligatures for medieval and ecclesiastical Latin . . .	7		
Basic support for plain \TeX	8		
Complete revision by KW	1		
Declare <code>\FrenchGuillemetsFrom</code> , <code>\ToneGuillemets</code> , <code>\og</code> , and <code>\fg</code> (defined by the ecclesiastic package) obsolete	29	4.1	
Declare <code>\SetLatinLigatures</code> and <code>\ProsodicMarks</code> obsolete	29		
Deprecate the <code>classic</code> , <code>medieval</code> , and <code>ecclesiastic</code> modifiers	5		
Do not load the ecclesiastic package for the ecclesiastic modifier, use an internal implementation instead	27		
Do not use small caps for the day of month	12		
Document activation of the <code>liturgicallatin</code> hyphenation patterns	6		
Document incompatibilities with other packages	7	4.2	
Keep the default values of <code>\clubpenalty</code> , <code>\@clubpenalty</code> , <code>\widowpenalty</code> , and <code>\finalhyphendemerits</code> for Latin . . .	9		
Make ecclesiastical Latin work with $X_{\text{L}}\text{A}^{\text{M}}\text{T}_{\text{E}}\text{X}$ and $\text{Lua}^{\text{M}}\text{A}^{\text{M}}\text{T}_{\text{E}}\text{X}$	1		
			New babel languages <code>classiclatin</code> , <code>medievallatin</code> , and <code>ecclesiasticlatin</code> , replacing the respective modifiers 2
			New modifiers <code>usej</code> , <code>lowercasemonth</code> , and <code>ecclesiasticfootnotes</code> 4
			New shorthands for diphthongs with macron 4
			Remove commands <code>\LatinMarksOn</code> and <code>\LatinMarksOff</code> 9
			General: Improved shorthand implementation also working within tabbing environments . . . 13
			Mapping <code>ú</code> , <code>û</code> , and <code>ü</code> to <code>́</code> , <code>̂</code> , and <code>̃</code> , respectively, instead of just <code>V</code> , for <code>classicallatin</code> and <code>medievallatin</code> if a Unicode engine is used 11
			Renaming <code>classiclatin</code> and <code>ecclesiasticlatin</code> to <code>classicallatin</code> and <code>ecclesiasticallatin</code> for the sake of philological correctness, but also keeping <code>ldf</code> files with the old names for backwards compatibility 2
			General: Document incompatibility with <code>ucharclasses</code> package 8
			Ensure compatibility with <code>luainputenc</code> 11
			Save $X_{\text{L}}\text{A}^{\text{M}}\text{T}_{\text{E}}\text{X}$ character classes when changing to ecclesiastical Latin . . . 24