

XeTeX/LuaTeX with LGR fonts

The babel option «greek» activates the support for the Greek language defined in the file «greek.ldf» (source «greek.dtx»).

Typesetting Greek texts requires a font containing Greek letters. With the XeTeX or LuaTeX engines, the user must ensure that the selected font contains the required glyphs (the default Latin Modern fonts miss them).

Latin Modern can be combined with the matching CB-Greek 8-bit font. For the setup, see the preamble of this document `test-unicode-lgr.tex`

Caveat: Currently, hyphenation does not work with this setup. Use it only for short Greek quotes or as a last resort.

1 Language Switch

The declaration `\selectlanguage` switches between languages. With XeTeX/LuaTeX and LGR, Unicode input is not possible. Instead, use the Latin transliteration or LICR macros:

Τί φής; Ἰδὼν ἐνθ' ἔδε παῖδ' ἐλευθέρων
τὰς πλησίον Νύμφας στεφανοῦσαν, Σώστρατε,
ἔρῳ ἀπ' ἡλθεῖς εὐθύς;

The macro `\foreignlanguage` sets its second argument in the specified language. This is intended for short text parts like .

2 Font Encoding

Switching to a font encoding supporting the Greek script is possible without switching the Babel language using the declarations `\greekscript` or `\greektext` (always LGR) and the macros `\ensuregreek` or `\textgreek`. These commands do not start a new paragraph.

The Babel core defines the declaration `\latintext` and the command `\textlatin` to switch to the T1 or OT1 font encoding or typeset the argument using this encoding. `greek-fontenc` adds a test for EU1 and EU2, if the TeX engine is XeTeX or LuaTeX. Here, the «latinencoding» is EU1.

With XeTeX or LuaTeX, the macros `\greektext` and `\textgreek` are only defined, if the LGR font encoding is loaded via the `fontenc` package (see `test-unicode-lgr.tex`).

With LGR, Latin characters in Greek text parts are typeset as Greek characters according to the Latin transcription defined in LGR.

Φίλων τοῦ TeX (ΕΦΤ) – Friends (Φίλων) of TeX.

3 MakeUppercase, MakeLowercase

Capital Greek letters have diacritics (except the dialytika and sub-iota) to the left (instead of above) and drop them in uppercase.

Tonos and dasia mark a *hiatus* (break-up of a diphthong) if placed on the first vowel of a diphthong (άι, άυ, έι, έι, έυ, έι). A dialytika must be placed on the second vowel if they are dropped. (Αἶ, Αῦ, Εἶ, Αῖ, Αῦ, Εῖ).

4 LICR Macros

Babel defines macros for several autogenerated strings so that they may appear in the chosen language. *babel-greek* uses LICR macros in order to let the string macros work independent of the font encoding.

Until automatically done by *euenc* for EU1 and EU2 font encodings, the recommended way to load Greek LICR definitions is via the *textalpha* or *alphabetalpha* packages provided with *greek-fontenc* since version 0.10.

4.1 Hiatus

The «hiatus» feature works with macro input:

άυ ↦ Αῦ, έυ ↦ Αῦ, μάι ↦ ΜΑῖ, κέικ ↦ ΚΕῖΚ, άυ ↦ Αῦ.

4.2 Captions

Πρόλογος, Αναφορές, Περίληψη, Βιβλιογραφία, Κεφάλαιο, Παράρτημα, Περιεχόμενα, Κατάλογος Σχημάτων, Κατάλογος Πινάκων, Ευρετήριο, Σχήμα, Πίνακας, Μέρος, Συνημμένα, Κοινοποίηση, Προς, Σελίδα, βλέπε, βλέπε επίσης, Απόδειξη, Γλωσσάρι

Test correct upcasing (dropping of accents):

ΠΡΟΛΟΓΟΣ, ΑΝΑΦΟΡΕΣ, ΠΕΡΙΛΗΨΗ, ΒΙΒΛΙΟΓΡΑΦΙΑ, ΚΕΦΑΛΑΙΟ, ΠΑΡΑΡΤΗΜΑ, ΠΕΡΙΕΧΟΜΕΝΑ, ΚΑΤΑΛΟΓΟΣ ΣΧΗΜΑΤΩΝ, ΚΑΤΑΛΟΓΟΣ ΠΙΝΑΚΩΝ, ΕΥΡΕΤΗΡΙΟ, ΣΧΗΜΑ, ΠΙΝΑΚΑΣ, ΜΕΡΟΣ, ΣΤΥΝΗΜΜΕΝΑ, ΚΟΙΝΟΠΟΙΗΣΗ, ΠΡΟΣ, ΣΕΛΙΔΑ, ΒΛΕΠΕ, ΒΛΕΠΕ ΕΠΙΣΗΣ, ΑΠΟΔΕΙΞΗ, ΓΛΩΣΣΑΡΙ

4.3 Months

4 Ιανουαρίου 2014
4 Φεβρουαρίου 2014
4 Μαρτίου 2014
4 Απριλίου 2014
4 Μαΐου 2014
4 Ιουνίου 2014
4 Ιουλίου 2014
4 Αυγούστου 2014

4 Σεπτεμβρίου 2014

4 Οκτωβρίου 2014

4 Νοεμβρίου 2014

4 Δεκεμβρίου 2014

5 Greek Numerals

See greek.pdf for the formation rules of Greek numerals. Some examples:

α', β', γ', δ', ε', ς', ζ', η', θ', ι', ια', ιβ', κ', τμε', φ', ,αλφζ', ,βιγ',

A', B', Γ', Δ', E', Γ', Z', H', Θ', I', IA', IB', K', TME', Φ', ,ΑΛΦΖ', ,ΒΙΓ',

Ενυμερατεδ λιστς υσε Γρεεκ ζηαραστερς/νυμεραλς ιν τηε σεσονδ ανδ φουρτη λεελ:

1. ιτεμ 1

(α') ιτεμ 1.1

i. ιτεμ 1.1.1

A'. ιτεμ 1.1.1.1

B'. ιτεμ 1.1.1.2

ii. ιτεμ 1.1.2