## Greek diacritics with standard accent macros

The font encoding definition file lgrenc.def defines LICR macros for all non-ASCII characters in the LGR font encoding. Greek accent macros have names starting with \acc followed by the Greek accent name as used in the Unicode standard (e.g. \acctonos). The standard symbol accents \' \' \~ behave according to Greek typography if used in the LGR font encoding.

The textalpha or alphabeta packages define the symbol macros  $\$  and  $\$  as alias for the breathings (Dasia and Psili). With this, all diacritics can be input as backslash followed by the LGR transliteration.

The example in greek-usage.pdf:

```
Τί φήις; Ίδὼν ἐνθέδε παῖδ' ἐλευθέραν τὰς πλησίον Νύμφας στεφανοῦσαν, Σώστρατε, ἐρῶν άπῆλθες εὐθύς;
```

can be input as

```
T\'i f\'hic? \<Id\'wn \>enj\'ede pa\~id''
\>eleuj\'eran t\'ac plhs\'ion N\'umfac stefano\~usan,
S\'wstrate, \>er\~wn \'ap\~hljec e\>uj\'uc?
```

Improvements over the ligature-based approach in LGR:

• Accents can be placed on any character:  $^3$   $\ddot{\lambda}$   $\dot{\mu}$   $\ddot{\nu}$   $\dot{\delta}$   $\ddot{\pi}$   $\dot{g}$   $\ddot{-}$ 

```
• Kerning is preserved roman italic cbleipzig accent macro: αὐτός αὐτός αὐτός αὐτός τransliteration: αὐτός αὐτός αὐτός
```

Like in any font encoding, kerning only works with pre-composed glyphs:  $A\tilde{\Upsilon}A \neq A\tilde{\Upsilon}A$ ,  $AVA \neq A\tilde{V}A$ .

- Compatible with hyperref (see greekhyperref.pdf).
- Following Greek typesetting convention, diacritics (except the dialytika) are placed to the left of capital letters and and dropped by \MakeUppercase:

```
άντροπος \mapsto ΑΝΤΡΟΠΟΣ, ἄντροπος \mapsto ΑΝΤΡΟΠΟΣ, Αχιλλέας \mapsto ΑΧΙΛΛΕΑΣ, ἀχιλλεύς \mapsto ΑΧΙΛΛΕΥΣ.
```

The dialytika is printed even in cases where it's not needed in lowercase:

```
άυλος \mapsto ΑΫ́ΛΟΣ, ἄυλος \mapsto ΑΫ́ΛΟΣ, μάινα \mapsto ΜΑΪΝΑ, κέιχ, \mapsto ΚΕΪΚ, ἀυπνία \mapsto ΑΫ́ΠΝΙΑ.
```

Composite diacritics can be specified as named macro, backslash + LGR transliteration, or combined accent macros, e.g.  $\tilde{\alpha}$  can be written as

```
\accpsiliperispomeni{a}, \accpsiliperispomen
```

However, braces in composite accents ( $^{{\a}}$ ,  $^{{a}}$ , or  $^{{\a}}$ ) lead to errors.

\MakeUppercase works with most input variants but fails with a tilde in a document which does **not** define the greek or polutonikogreek language (where the tilde is an active character denoting a \nobreakspace). Combining "symbol macros" (\>\~) or reversing the order (\~>) is safe:  $\check{\alpha} \mapsto A$ .

Accent macros can start with  $\a$  instead of  $\$  when the short form is redefined, e.g. inside a *tabbing* environment. This also works for the new-defined Dasia and Psili shortcuts ( $\a<$  and  $\a>$ ):

```
Τί φήις; Τί φήις; 
Ἱδὼν ἐνθέδε παῖδ
```

<sup>&</sup>lt;sup>1</sup>This makes it easy to follow the advise in *teubner-doc*: "typeset your paper with the regular accent vowel ligatures and [...] substitute them in the final revision with the accented vowel macros only in those instances where the lack of kerning is disturbing".

<sup>&</sup>lt;sup>2</sup>The definition of the macros \< and \> was moved from the font definition file greek-fontenc.def to textalpha.sty in order to avoid clashes with local definitions of this macros in documents using the LGR font encoding via fontenc or babel.

 $<sup>^3</sup>$ In babel-greek versions < 1.4, Babel's *polutonikogreek* option re-defined  $\sim$ (even for Latin with  $\sim$ textlatin). This document reverted the babel definition in the preamble to make the tilde/perispomeni-accent work as usual in both, English ( $\nu$ i $\sim$ 0 niñ $\sim$ 0) and Greek .