Greek diacritics with standard accent macros

lgrxenc.def is a comprehensive font encoding definition file. Diacritics can be input using an extension of the standard macro commands. Composite diacritics are input as backslash followed by the LGR transliteration.¹

The example in greek-usage.pdf:

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

is 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:

- Accents can be placed on any character:² κ λ μ ν ὁ π g ²
- Kerning is preserved roman italic cbleipzig accent macro: $\alpha \dot{\upsilon} \tau \delta \zeta$ $a \dot{\upsilon} \tau \delta \zeta$

Kerning only works with pre-composed glyphs: $A\mathring{\Upsilon}A \to A\mathring{\Upsilon}A$ (like in any font encoding: $AVA \to A\tilde{V}A$).

• 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 ΑΫ́ΛΟΣ³ μάινα \mapsto ΜΑΪΝΑ, χέιχ, \mapsto ΚΕΪΚ, ἀυπνία \mapsto ΑΫ́ΠΝΙΑ.
```

Composite diacritics can be specified as backslash + LGR transliteration⁴ or combined accent macros, e. g. $\tilde{\alpha}$ can be written as

$$\arraycolored a$$
, $\arraycolored a$, or $\arraycolored a$.

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

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

```
Τί φήις; Τί φήις;
Ίδὼν ἐνθέδε παῖδ
```

 $^{^1 \}text{This}$ makes it easy to follow the advise in teubner-doc: "typeset your paper with the regular accent vowel ligatures and $[\dots]$ substitute them in the final revision with the accented vowel macros only in those instances where the lack of kerning is disturbing".

²Babel's *polutonikogreek* option re-defines $\$ (even for Latin with $\$ textlatin). This document reverts the babel definition in the preamble to make the tilde/perispomeni-accent work as usual in both, English (ν i $\tilde{\nu}$ õ ni \tilde{n} õ) and Greek (ν i $\tilde{\nu}$ õ ni \tilde{n} õ).

 $^{^3}$ Fails if written as \>' in polutonikogreek (which changes the \uccode of \>): ἄυλος \mapsto ΑΥΛΟΣ

⁴However, \MakeUppercase fails, if a non-escaped tilde character (like in \sim a) is used in a document which does not define the *greek* or *polutonikogreek* language.