

Stacking with Combining Diacritics

Latin GP Member: Bill Jouris

We have seen that, with precomposed code points, there is no stacking problem. However, when we have not had a precomposed code points available, and have had to use combining diacritics, the situation changes. In particular, when using the Courier New font (which is one of our three standard fonts for analysis), there is sometimes a problem.

In each case below, the letter is followed by another letter (or two, in the case of two combining marks). (In each case shown, the letters were simply copied, then the font changed.)

We have three types of outcomes.

1. In some cases, the combining mark is right where it should be.
2. In some cases, the combining mark is to the right, but the following letter is an additional space to the right.
3. But in some cases (indicated by an \blackleftarrow) the combining mark is over or under the following letter. Thus producing something very different from what was intended.

Ariel Courier New

āa	a_a	Latin Small Letter A + Combining Macron Below
ēe	e_e	Latin Small Letter E + Combining Macron Below
ǧg	gǧ \blackleftarrow	Latin Small Letter G + Combining Tilde
īi	i_i	Latin Small Letter I + Combining Macron Below
ḿm	m,m	Latin Small Letter M + Combining Cedilla
ñn	n¨n	Latin Small Letter N + Combining Diaeresis
õo	o,o	Latin Small Letter O + Combining Cedilla
ōo	o_o	Latin Small Letter O + Combining Macron Below
řr	rř \blackleftarrow	Latin Small Letter R + Combining Tilde
öo	o¨o	Latin Small Letter Open O + Combining Diaeresis
ȝo	o_o \blackleftarrow	Latin Small Letter Open O + Combining Macron Below
ëe	e¨e	Latin Small Letter Open E + Combining Diaeresis

ɛ̇e	ɛ_e ←	Latin Small Letter Open E + Combining Macron Below
ëëe	ε''_ee ←	Latin Small Letter Open E + Combining Diaeresis + Combining Macron Below
ĩ	ı̇ı̇ ←	Latin Small Letter I with Stroke + Combining Tilde
ũu	u̇u̇ ←	Latin Small Letter U with Bar + Combining Tilde
èe	ẹ̀e ←	Latin Small Letter E with Dot Below + Combining Grave Accent
ée	ẹ́e ←	Latin Small Letter E with Dot Below + Combining Acute Accent
òo	ọ̀o ←	Latin Small Letter O with Dot Below + Combining Grave Accent
óo	ọ́o ←	Latin Small Letter O with Dot Below + Combining Acute Accent

The ideal solution, of course, would be for the Unicode folks to create new pre-composed code points for these problem cases. But I suspect there is little chance of them doing so before our report is due. So we will have to figure out an alternate approach to recommend.