

Stacking with Combining Diacritics

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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. In the problem cases, the stacked letter is shown in red and bolded to make the shift of the diacritic easier to see. In the other cases, the stacked letter is in green.)

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. Which may be irritating, but is not problematic.
3. But in some cases (indicated by an ←) the combining mark is over or under the *following* letter. Thus producing something very different from what was intended.

Ariel Courier New

a a	a a	Latin Small Letter A + Combining Macron Below
e e	e e	Latin Small Letter E + Combining Macron Below
g g	g g ←	Latin Small Letter G + Combining Tilde
i i	i i	Latin Small Letter I + Combining Macron Below
m m	m m	Latin Small Letter M + Combining Cedilla
n n	n ¨n	Latin Small Letter N + Combining Diaresis
o o	o ,o	Latin Small Letter O + Combining Cedilla
o o	o o	Latin Small Letter O + Combining Macron Below
r r	r ˜ ←	Latin Small Letter R + Combining Tilde
o o	o ¨o	Latin Small Letter Open O + Combining Diaresis
o o	o o ←	Latin Small Letter Open O + Combining Macron Below

ë	ë	←	Latin Small Letter Open E + Combining Diaresis
ē	ē	←	Latin Small Letter Open E + Combining Macron Below
ëē	ëē	←	Latin Small Letter Open E + Combining Diaresis + Combining Macron Below
ï	ï̃	←	Latin Small Letter I with Stroke + Combining Tilde
ũ	ũ̃	←	Latin Small Letter U with Bar + Combining Tilde
è	ėè	←	Latin Small Letter E with Dot Below + Combining Grave Accent
é	ėé	←	Latin Small Letter E with Dot Below + Combining Acute Accent
ò	ȯò	←	Latin Small Letter O with Dot Below + Combining Grave Accent
ó	ȯó	←	Latin Small Letter O with Dot Below + Combining Acute Accent
ô	ô̇		Latin Small Letter O with Circumflex + Combining Dot Below
ò	ò̇		Latin Small Letter O with Dot Below + Combining Circumflex
ơ	ơ̇		Latin Small Letter O with Horn + Combining Dot Below
ơ	ợ̇		Latin Small Letter O with Dot Below + Combining Horn

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.