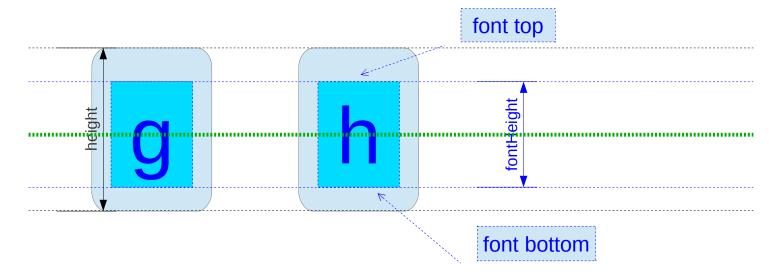
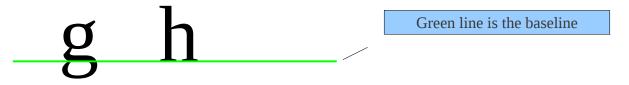
Why old solution does not work:

We use the height of the font to calculate the center of the text. All the characters in a font share the same font height. The following figure showing why the "g" is not in the center (green line) of the popup.



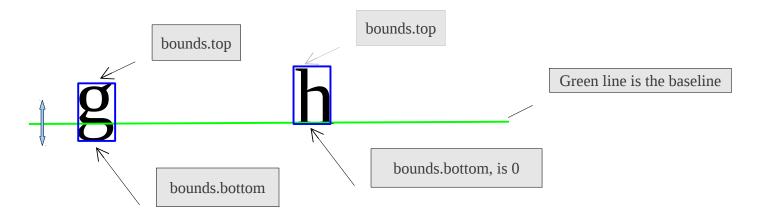
How drawText() and getTextBounds() work:

If y is 100, the "g" and "h" will be drawn by drawText() method as the following figure:



getTextBounds() method can return the smallest rectangle that encloses all of the character.

The left, top, right and bottom values of the rectangle are **the offsets to the baseline**.



New solution:

y = height / 2 + (0 - bounds.top) / 2

height: the height of the PopupWindow.