

Measuring Text

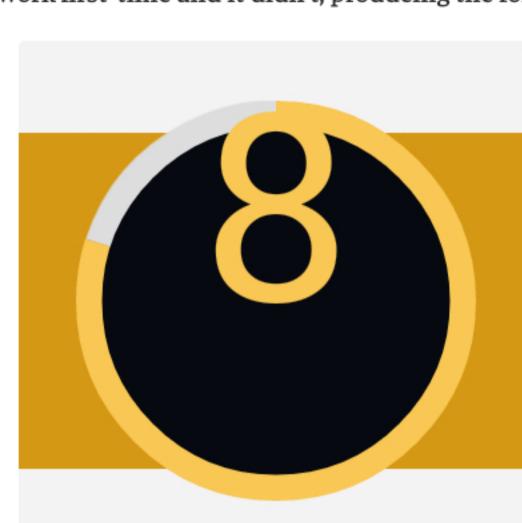
27 Mar 2014

If you start manually drawing things to Android's Canvas, you will probably start to draw text as well.

When doing so you need to know where to position the text when you draw, and to do that you will need to measure the text before drawing it, to compute the starting x/y values.

In an app recently I needed to draw some text centered both vertically and horizontally on the Canvas. So I started off with the following code:

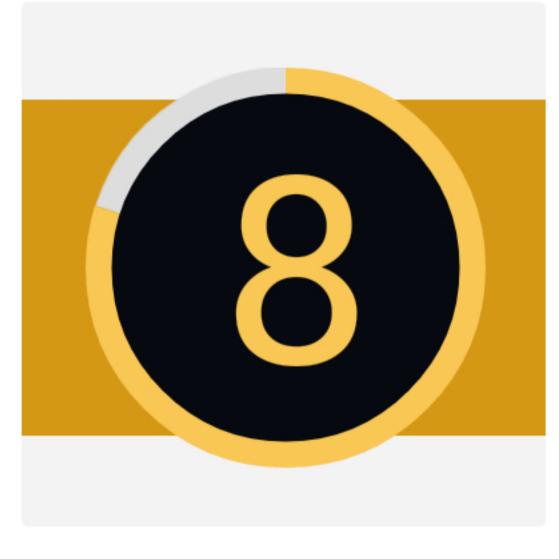
I didn't expect this to work first-time and it didn't, producing the following:



Measuring text

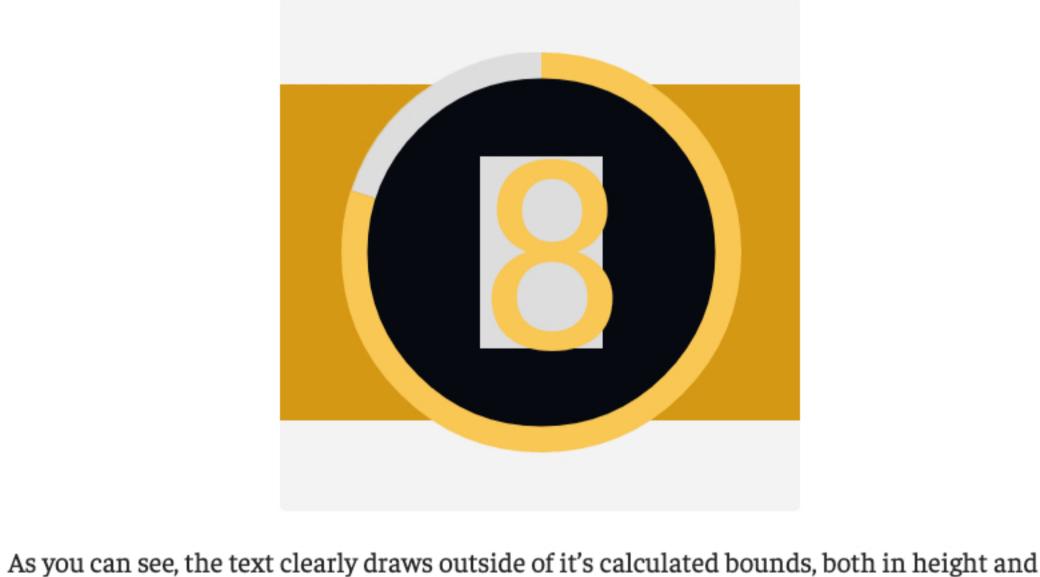
Next I tried to position the text, calculating the text's height/width and modifying the drawing X and Y values appropriately:

This time we're getting much closer, but as you can see that it's not quite centered correctly.



the text, with the exact bounds calculated with Paint.getTextBounds().

To make sure that I wasn't seeing things, I added an extra call to draw a rectangle behind



width.

It was at this point where I saw that Paint has another method for calculating text width: Paint.measureText()

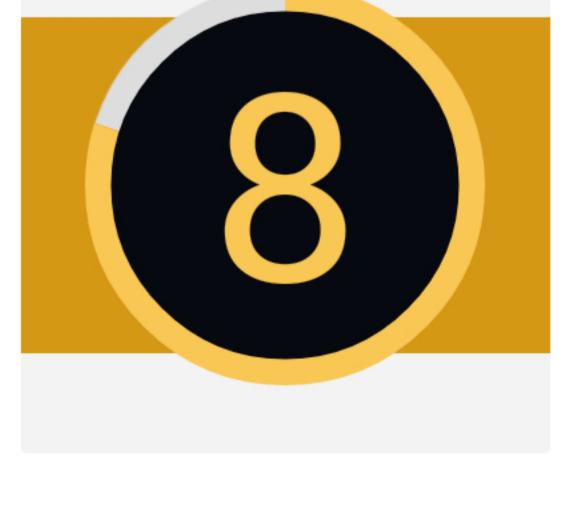
methods:

Another text measuring method

This method only calculates the width and not the height, so I next tried combining the two

int mTextWidth, mTextHeight; // Our calculated text bounds
Paint mTextPaint = new Paint();

// Now lets calculate the size of the text
Rect textBounds = new Rect();
mTextPaint.getTextBounds(mText, 0, mText.length(), textBounds);
mTextWidth = mTextPaint.measureText(mText); // Use measureText to calculate



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