

Circle Elapsed Widget

A circle drawing animation which shows how long time till an expected change occurs. This widget will have a transparent background and will only draw the outer bounds of the circle.



Circle is drawn in initial color

25% -> 50% -> 75% -> 100% (on 101% change to secondColor)

125% -> 150% -> 175% -> 200% (on 201% change to lateColor)

225% -> 250% -> 275% -> 300% (on 300% and above circle stays the same)

Parameters

Color initialColor // The color which the widget starts to draw with

Color secondColor // The color which is used on second iteration of animation

Color lateColor // The color which is used on third and final iteration of animation

int expectedSeconds // How many seconds a full one color draw should take

double diameter // Diameter of the circle

double outerBoundsRadius // How much of the outer bounds should be drawn. If this is half of diameter then circle should not have transparent center.

String trackingTag // When tracking tag is changed then the animation starts anew with the initial color.

Description

Circle starts as totally empty, then draws the circle with only the rim visible, circle is painted with the initialColor.

When secondsOpenTime has elapsed then the drawing process starts again but with a different color, determined by the secondColor param.

When secondsOpenTime has elapsed the second time, then the drawing process starts again but with a different color, determined by the lateColor.

When trackingTag changes then the animation starts again. This will be handled by Flutter since when tracking tag changes then the parameters to the widget are changed, but the widget needs to be disposed of properly.

Example of usage:



Here the widget is used in the top left to elapsed duration since 'block' changed.

If the parameters given were:

```
initialColor = Green  
secondColor = Orange  
lateColor = Red  
expectedSeconds = 10  
diameter = 28  
outerBoundsRadius = 3
```

Then this would mean that the 175% of expected seconds had elapsed so 17.5 seconds. Since it is 75% drawn and is on its second iteration, shown by the widget being drawn in orange.