CALayers

Hands-on Challenges

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Challenge D: Final Challenge

You'll probably have noticed that the avatar's image view appears to bleed outside of the border when a corner radius is applied:



In this final challenge, you will take everything you've learned and put it together to work around this problem. Here are a few hints to get you started, and if you get stuck check out the challenge solution!

Hints

You only need to modify one file: AvatarView.swift.

- 1. Remove the imageView and all corresponding code.
- 2. Replace it with a CAShapeLayer. You're choosing a shape layer so that it will stroke a desired path (the circle).
 - a. Create a property for it and call it layerAvatar.
 - b. In setup(), set the fill color to nil, line width to 10, contents gravity to kCAGravityResizeAspectFill, and add it as a sublayer to the main layer.
 - c. In **configure()**, set its contents based on imageAvatar and set its stroke color based on strokeColor.
 - d. In layoutSubviews(), calculate layerAvatar's height as the bounds height margin the label height. Use this to set the frame to the correct spot. Draw a diagram if necessary.



3. Here's the trick:

- a. Create a second shape layer called <code>maskLayer</code> an oval inside layerAvatar's bounds.
- b. Set layerAvatar's mask to maskLayer. This cuts out everything outside the path.
- c. Set layerAvatar's path to maskLayer's path. This makes the shape layer stroke the circular path.

Build and run, and you should no longer see a bleeding edge!



