Core Graphics

Part 2: Paths

Core Graphics Hands-On Challenges

Copyright © 2016 Razeware LLC.

All rights reserved. No part of this book or corresponding materials (such as text, images, or source code) may be reproduced or distributed by any means without prior written per- mission of the copyright owner.

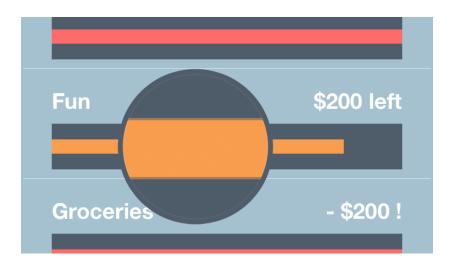
This book and all corresponding materials (such as source code) are provided on an "as is" basis, without warranty of any kind, express or implied, including but not limited to the warranties of merchantability, fitness for a particular purpose, and noninfringement. In no event shall the authors or copyright holders be liable for any claim, damages or other liability, whether in action of contract, tort or otherwise, arising from, out of or in connection with the software or the use or other dealings in the software.

All trademarks and registered trademarks appearing in this book are the property of their respective owners.



Challenge: Fix Off-pixel Line

You'll now fix up the blurry line on the budget view.



The line appears to be blurred because at the edge, only half the pixel is being filled. When this happens, the device will do anti-aliasing, and fill the pixel with a different shade.

In **BudgetView.swift** in drawRect(_:), round the height and add 0.5 points to the Y position. Change:

```
path.moveToPoint(CGPoint(x: 0, y: rect.height/2))
```

to:

```
path.moveToPoint(CGPoint(x: 0, y: round(rect.height/2)+0.5))
```

and

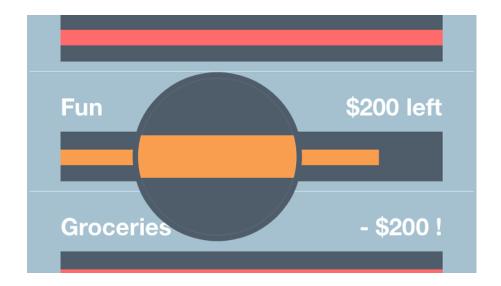
```
path.addLineToPoint(CGPoint(x: end, y: rect.height/2))
```

to:

```
path.addLineToPoint(CGPoint(x: end, y: round(rect.height/2)+0.5))
```



Test on all devices at a 100% scale. The line should be crisp and sharp on all of them.



To make the bar rounded, change the line cap style of the path before stroking the path:

path.lineCapStyle = .Round



Run the app and see your finished bars.

