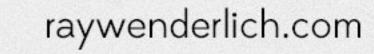
302: Advanced Debugging

Introduction

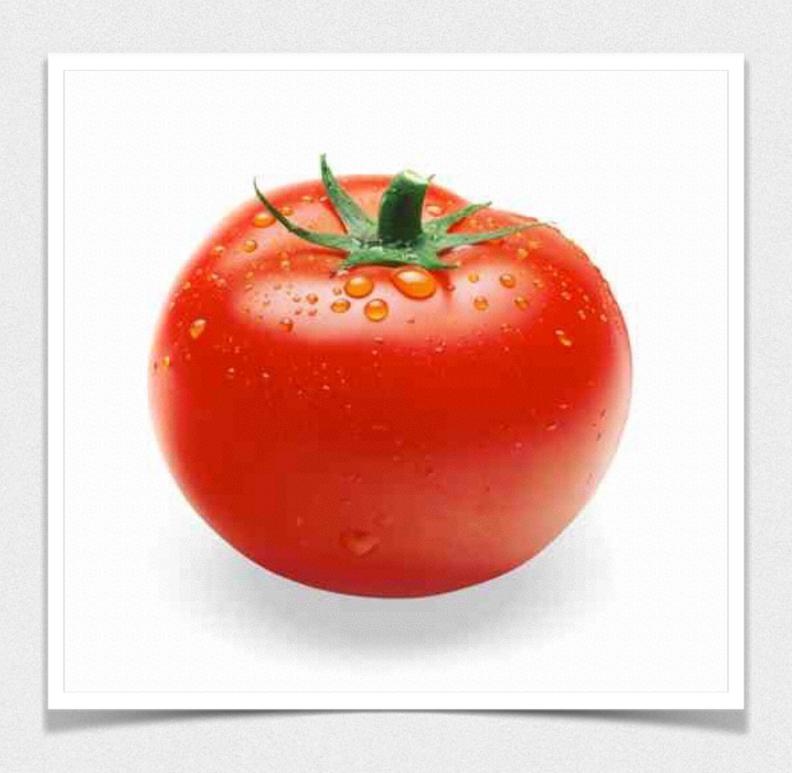
Hello!

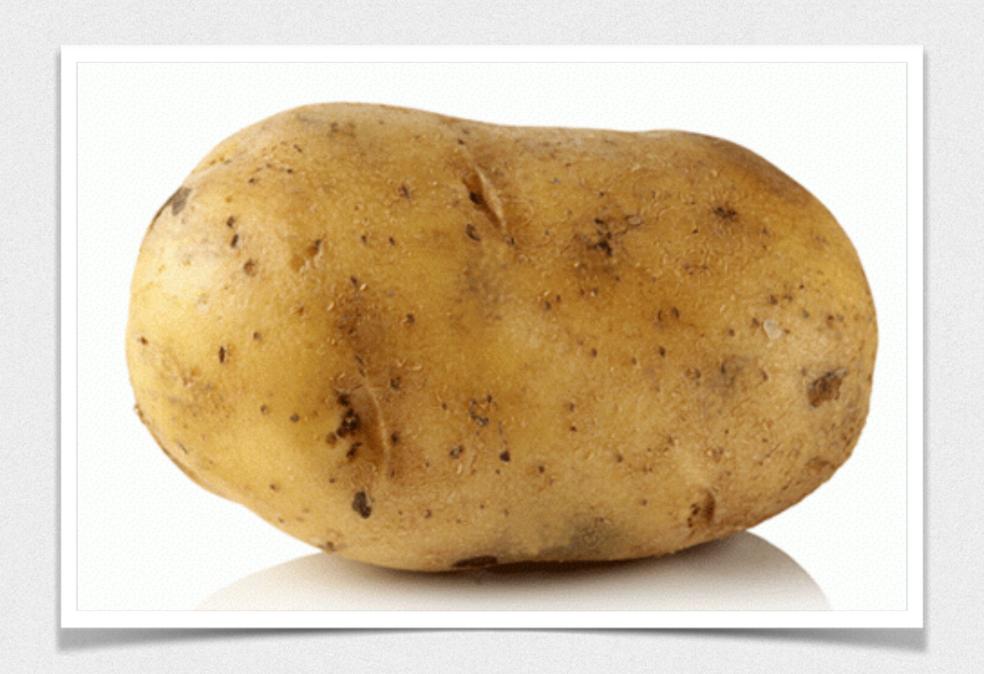
- Richard Turton
- * @richturton
- irturton on Stack Overflow

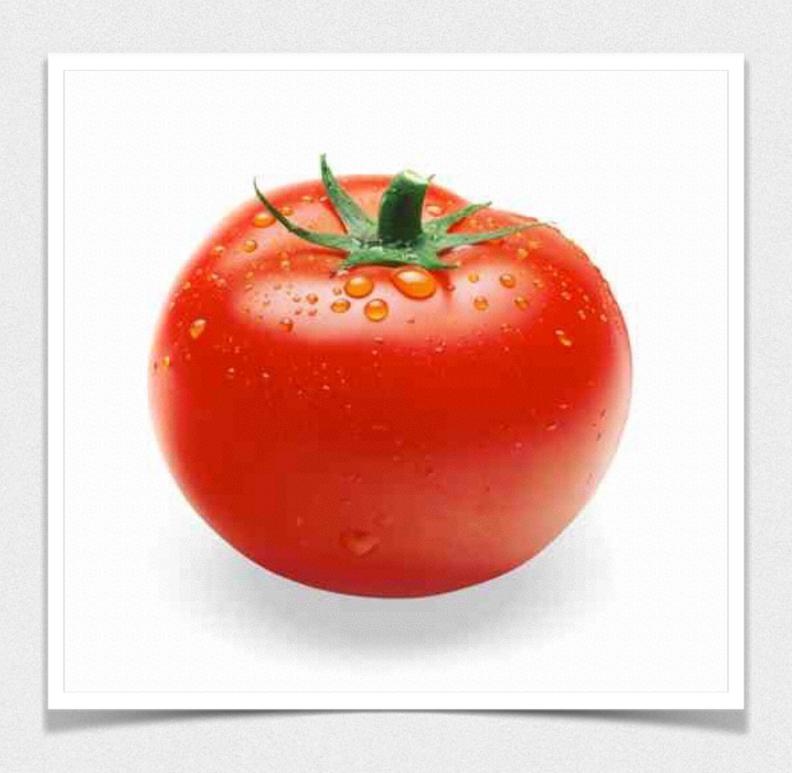


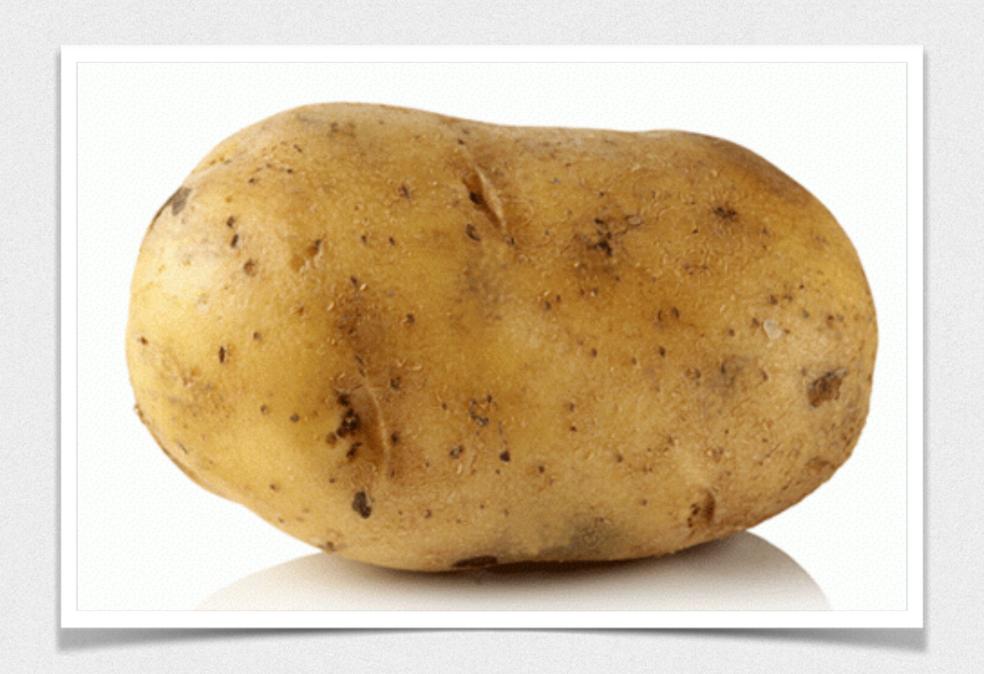


Hello!











```
colorBar.backgroundColor = newValue
} else {

let colorBar = UIView(frame: CGRect(x: 0.0, y: height: 4.0))

colorBar.autoresizingMask = .FlexibleBottomMarg colorBar.backgroundColor = newValue
colorBar.backgroundColor = newValue
colorBar.aboveSubview(colorBar.aboveSubview: self insertSubview(colorBar.aboveSubview: self insertSubview: self insertSubview(colorBar.aboveSubview: self insertSubview: self insertSubview(colorBar.aboveSubview: self insert
```

Advanced Debugging

- Easy crashes are easy
 - Find and fix yourself
- Weird stuff reported by users or QA is hard
 - You've never seen it
 - Can't remember how it works
 - Hard to reproduce
- # Fun?



What you'll learn

- My process and mindset for fixing bugs
- A few tips and techniques
 - Tactical use of breakpoints
 - Breakpoint actions
 - Instruments



Sample project

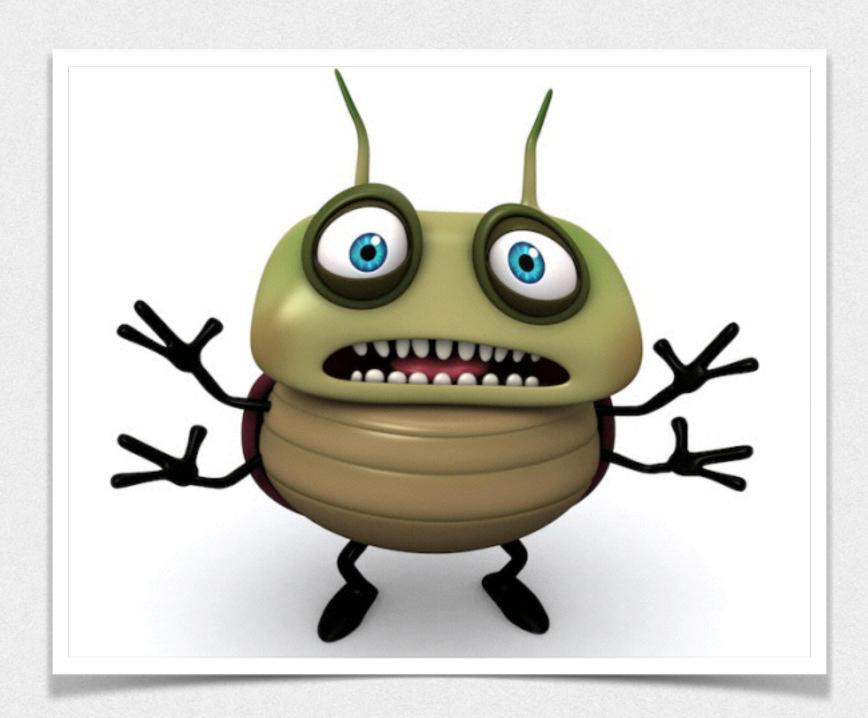
- Simple tableview, fetched results controller, core data
- In-memory store
- Deliberate bugs
- Accidental bugs?





My debugging process

- 1. Reproduction
- 2. Location
- 3. Root cause
- 4. Fix
- 5. Verify



My debugging mindset

- Don't take it personally
- Don't add "debugging" code
- Don't get sidetracked
- One bug fix one commit



Advanced Debugging

Demonstration

Advanced Debugging

Lab

Advanced Debugging

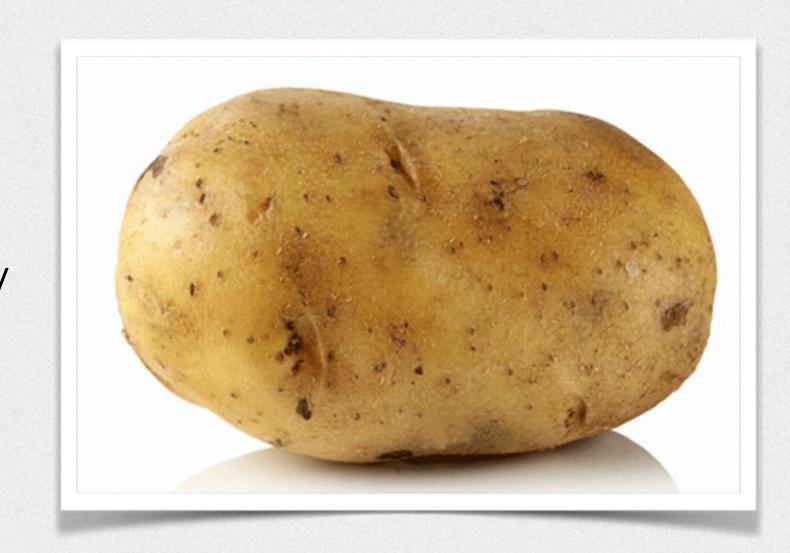
Challenge

Advanced Debugging

Conclusion

What have you learned?

- Debugging is fun!
- Follow the process:
 - Reproduction, Location, Root Cause, Fix, Verify
- Keep focus
- Potatoes are always called potatoes



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