

SNAPSHOT TESTING

2017-03-22

STRV

SNAPSHOT TESTING

- Visual testing method
- Comparing screenshots
- Record mode - generate snapshots and check then
- Test mode - compare them to check for changes

WHY DO THIS?

- See how your views will look like
- Test wide range of different layers of code and states of the app
- TDD finally makes sense
- Easy to write tests

FBSnapshotTestCase

- Developed and used by Facebook
- Testing mainly in simulator
- Testing multiple devices and screen sizes
- Can show difference in case of failed test
- Customizable to specific workflow
- CI friendly

FBSnapshotTestCase

- Install via CocoaPods
- Set `FB_REFERENCE_IMAGE_DIR` environment variable
- Subclass `FBSnapshotTestCase` instead of `XCTestCase`
- Use `FBSnapshotVerifyView` to check view

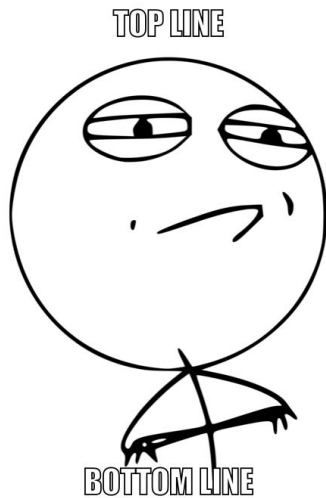
FBSnapshotTestCase

```
class SnapshotTestingTests: FBSnapshotTestCase {  
  
    override func setUp() {  
        super.setUp()  
        isDeviceAgnostic = true  
        // recordMode = true  
    }  
  
    func testMemeDetailViewController() {  
        let vc = R.storyboard.main.memeDetail()!  
        vc.meme = Meme.memes.first  
        FBSnapshotVerifyView(vc.view)  
    }  
}
```

Visual diff

Top line Some funny text

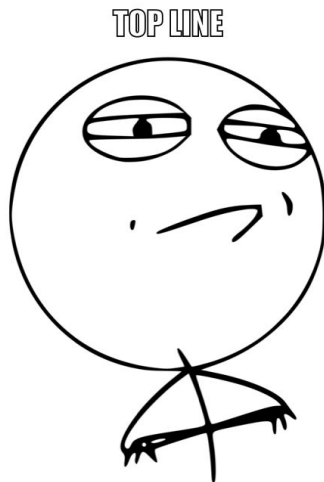
Bottom line Some funny text



Reference

Top line Some funny text

Bottom line Some funny text



Current

BOTTOM LINE

Diff

DEMO

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Gotchas

- 32 & 64 bit devices render text in slightly different way
- `WKWebView` cannot be tested this way
- Toggle `usesDrawViewHierarchyInRect` flag to use UI Appearance, visual effect view and size classes

Resources

<https://github.com/facebook/ios-snapshot-test-case>

<https://www.objc.io/issues/15-testing/snapshot-testing/>

<https://github.com/ashfurrow/Nimble-Snapshots>

THANK YOU

jindra.dolezy@strv.com

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QUESTIONS

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