We ♥ Swift

@somkiat.cc

บริษัท สยามชำนาญกิจ จำกัด และเพื่อนพ้องน้องพี่

fastlane

scan scan scan

snapshot pilot snapshot

slack sigh

gym

TestFlight deliver

Tests App Store

https://fastlane.tools/

deliver
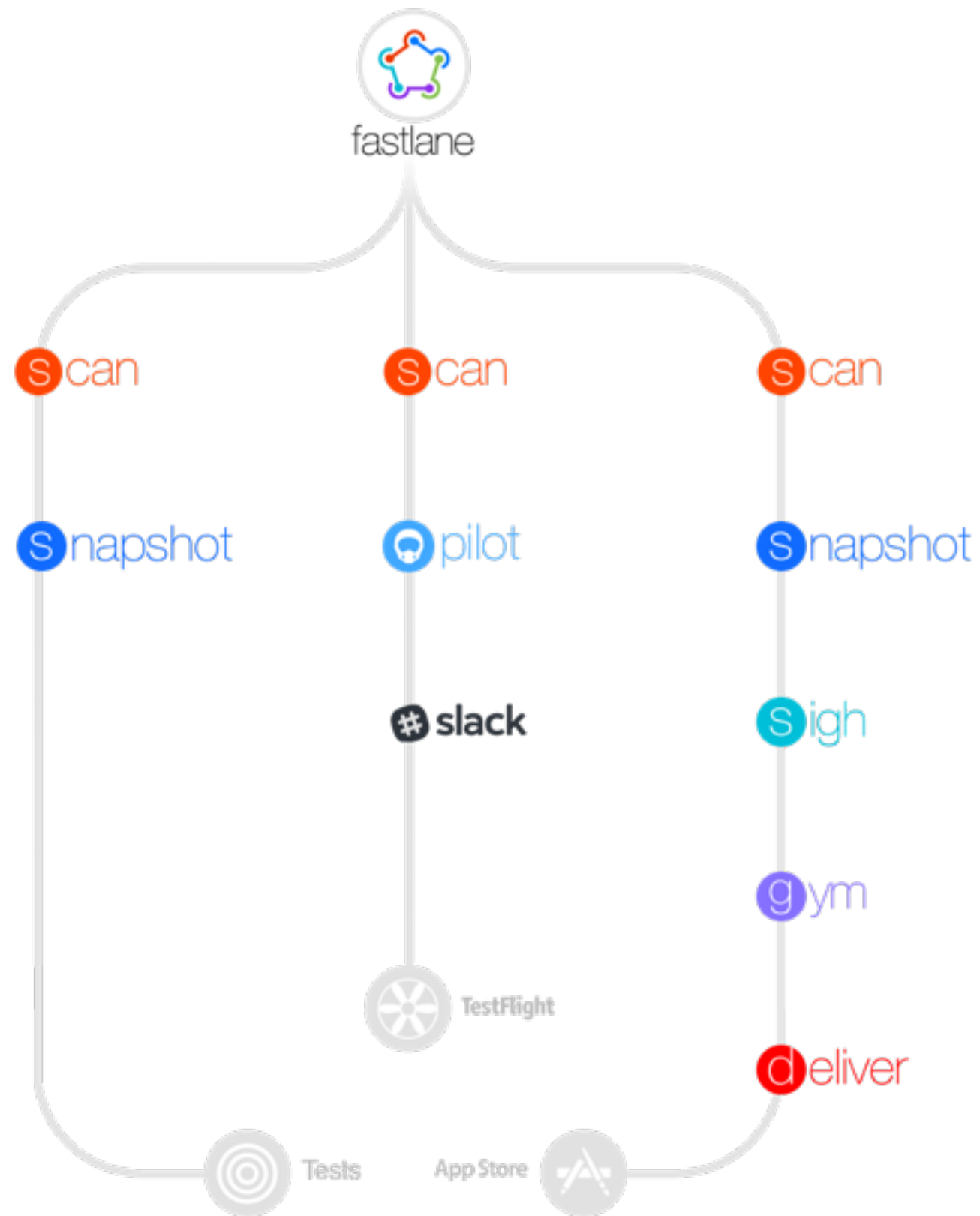
Upload screenshots, metadata and your app to the App Store using a single command.

Star

snapshot

Automate taking localized screenshots of your iOS app on every device

Star

frameit

Quickly put your screenshots into the right device frames

Star

pem

Automatically generate and renew your push notification profiles

Star

sigh

Because you would rather spend your time building stuff than fighting provisioning

Star

produce

Create new iOS apps on iTunes Connect and Developer Portal using the command line

Star

cert

Automatically create and maintain iOS code signing certificates

Star

scan

The easiest way to run tests of your iOS and Mac app

Star

gym

Building your iOS app has never been easier

Star

match

Easily sync your certificates and profiles across your team using Git

Star

https://fastlane.tools/

Software requirement

- Ruby 2.0+
- Xcode CLI
- Paid Apple Developer Account

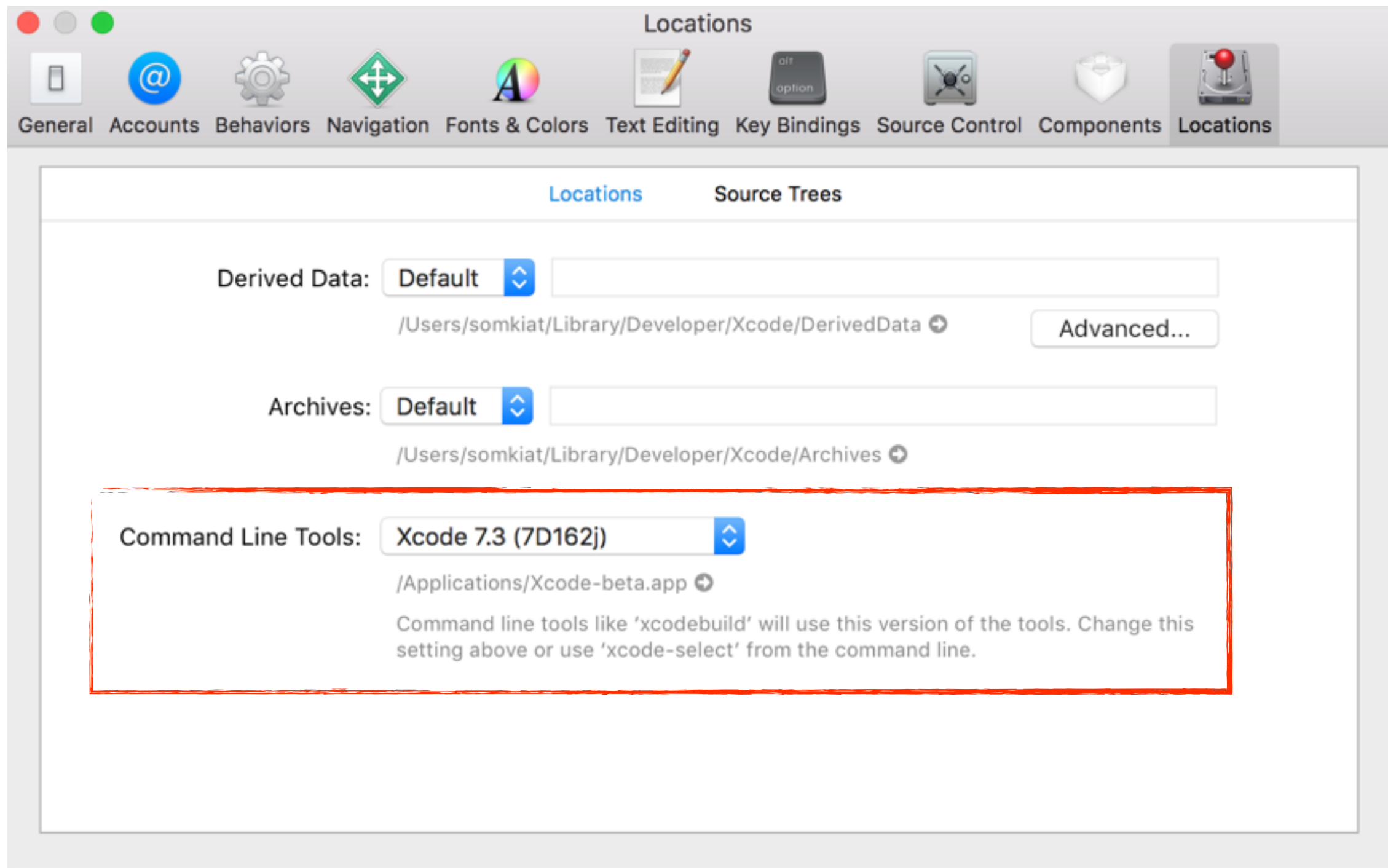# Check Ruby 2.0+

$ruby -v

Check Xcode CLI

$xcode-select --install

Check Xcode CLI

Installation

$sudo gem install fastlane

Let's start

$fastlane init

```
[00:03:17]: Writing to 'fastlane/metadata/secondary_second_sub_category.txt'
[00:03:17]: Successfully created new configuration files.
[00:03:17]: Downloading all existing screenshots...
[00:03:18]: Successfully downloaded all existing screenshots
[00:03:18]: Successfully created new Deliverfile at path 'fastlane/Deliverfile'
[00:03:18]: xcrun xcodebuild -list -project './01-Calculator.xcodeproj'
[00:03:19]: 'snapshot' not enabled.
[00:03:19]: 'cocoapods' not enabled.
[00:03:19]: 'carthage' not enabled.
[00:03:19]: Created new file './fastlane/Fastfile'. Edit it to manage your own deployment lanes.
[00:03:19]: fastlane will send the number of errors for each action to
[00:03:19]: https://github.com/fastlane/enhancer to detect integration issues
[00:03:19]: No sensitive/private information will be uploaded
[00:03:19]: You can disable this by adding `opt_out_usage` to your Fastfile
[00:03:19]: Successfully finished setting up fastlane
```

https://github.com/fastlane/fastlane/tree/master/scan

ทำการ run test ได้ง่ายขึ้น

Run scan

$scan

```
[00:41:05]: ▸ All tests
[00:41:05]: ▸ Test Suite 01-CalculatorUITests.xctest started
[00:41:05]: ▸ _1_CalculatorUITests
[00:41:08]: ▸ ✓ testExample (3.599 seconds)
[00:41:08]: ▸     Executed 1 test, with 0 failures (0 unexpecte
[00:41:08]: ▸
[00:41:08]: ▸ Test Succeeded
+--------------------+-------+
|         Test Results       |
+--------------------+-------+
| Number of tests    | 3     |
| Number of failures | 0     |
+--------------------+-------+

[00:41:09]: Successfully generated report at '/Users/somkiat/d
ulator-unit-test/test_output/report.html'
[00:41:10]: Successfully generated report at '/Users/somkiat/d
ulator-unit-test/test_output/report.junit'
```

Run scan with device

$scan --device "iPhone 6s (9.3)"

List of devices

$instruments -s

```
Known Devices:
MacBook Pro [13CA0FB5-F6C7-5FC4-B3CF-E0572816CA3B]
Apple TV 1080p (9.2) [C6576318-0B48-4002-A4D5-C697299BDB2B] (Simulator)
iPad 2 (9.3) [C61DBED4-F796-4793-A680-E30A29B1B5DE] (Simulator)
iPad Air (9.3) [5990D523-C34C-496D-9FE2-47093B6839FE] (Simulator)
iPad Air 2 (9.3) [16ED67C3-FDA3-48EA-81DD-5CCA100F0897] (Simulator)
iPad Pro (9.3) [27938C50-FE02-410F-A497-C04C20CC20C5] (Simulator)
iPad Retina (9.3) [129D2D6A-E4A0-4960-8D1A-10490123DE71] (Simulator)
iPhone 4s (9.3) [3F5E47A3-0089-4F9A-8836-FD20EB74C7B4] (Simulator)
iPhone 5 (9.3) [04CFFD66-03B8-4DC2-B9B6-E9737BA09D21] (Simulator)
iPhone 5s (9.3) [F20271AC-8920-4966-82B5-D1B35F776EE1] (Simulator)
iPhone 6 (9.3) [45283668-558D-407F-9604-266367396B82] (Simulator)
iPhone 6 Plus (9.3) [6C67B0E9-8A4A-481E-BFB9-AD3D6BC74260] (Simulator)
iPhone 6s (9.3) [EC2B7BB4-8B1F-485D-8D98-A86A0384F5C2] (Simulator)
iPhone 6s (9.3) + Apple Watch - 38mm (2.2) [0885C8DF-0CC6-4B2F-AADB-EA1018EB3197]
iPhone 6s Plus (9.3) [46FCF730-E4E7-4922-AA74-2F85FBDD78A3] (Simulator)
iPhone 6s Plus (9.3) + Apple Watch - 42mm (2.2) [D5898E61-AF78-42E3-8754-6089CDB7
```

See report file

Test Results   3 tests   **All** | Failing | Passing

_1_CalculatorTests._1_CalculatorTests

     0.001s   testExample

     0.343s   testPerformanceExample

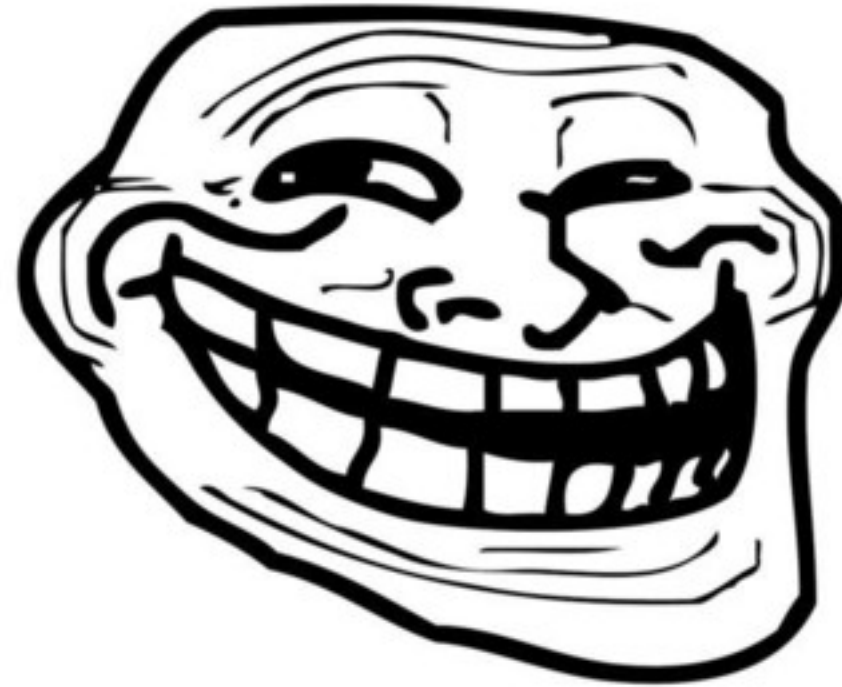**_1_CalculatorUITests._1_CalculatorUITests**

     3.599s   testExample

Report generated with xcpretty

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https://github.com/fastlane/fastlane/tree/master/snapshot

Xcode 7.3

problem?

Work on Xcode 7.2

Init snapshot in project

$snapshot init

```
Successfully created SnapshotHelper.swift './SnapshotHelper.swift'
Successfully created new Snapfile at './Snapfile'
----------------------------------------------------------
Open your Xcode project and make sure to do the following:
1) Add the ./fastlane/SnapshotHelper.swift to your UI Test target
   You can move the file anywhere you want
2) Call `setupSnapshot(app)` when launching your app

   let app = XCUIApplication()
   setupSnapshot(app)
   app.launch()

3) Add `snapshot("0Launch")` to wherever you want to create the screenshots

More information on GitHub: https://github.com/fastlane/snapshot
```

Modify UI Test

```
override func setUp() {
    super.setUp()

    continueAfterFailure = false
    let app = XCUIApplication()
    setupSnapshot(app)
    app.launch()
}
```

Modify UI Test

```swift
func testExample() {
    //Arrange

    snapshot("01CalculateScreen")

    let app = XCUIApplication()
    let first = app.textFields["first"]
    first.tap()
    first.tap()
    first.typeText("2")
    let second = app.textFields["second"]
    second.tap()
    second.typeText("5")

    snapshot("02CalculateScreen")

    //Act
    app.buttons["calculate"].tap()

    snapshot("03CalculateScreen")

    //Assert
    let result = app.staticTexts["result"].label
    XCTAssertEqual(result, "7")

}
```

Run snapshot

$snapshot

```
+-------------------+-------------+
|         snapshot results        |
+-------------------+-------------+
| Device            | en-US       |
+-------------------+-------------+
| iPhone 6 Plus     |  💚         |
+-------------------+-------------+
```

Run snapshot with parameters

$snapshot --devices 'iPhone 6' --languages 'en-US'

See Report

Cert   Sigh

https://github.com/fastlane/fastlane/tree/master/cert

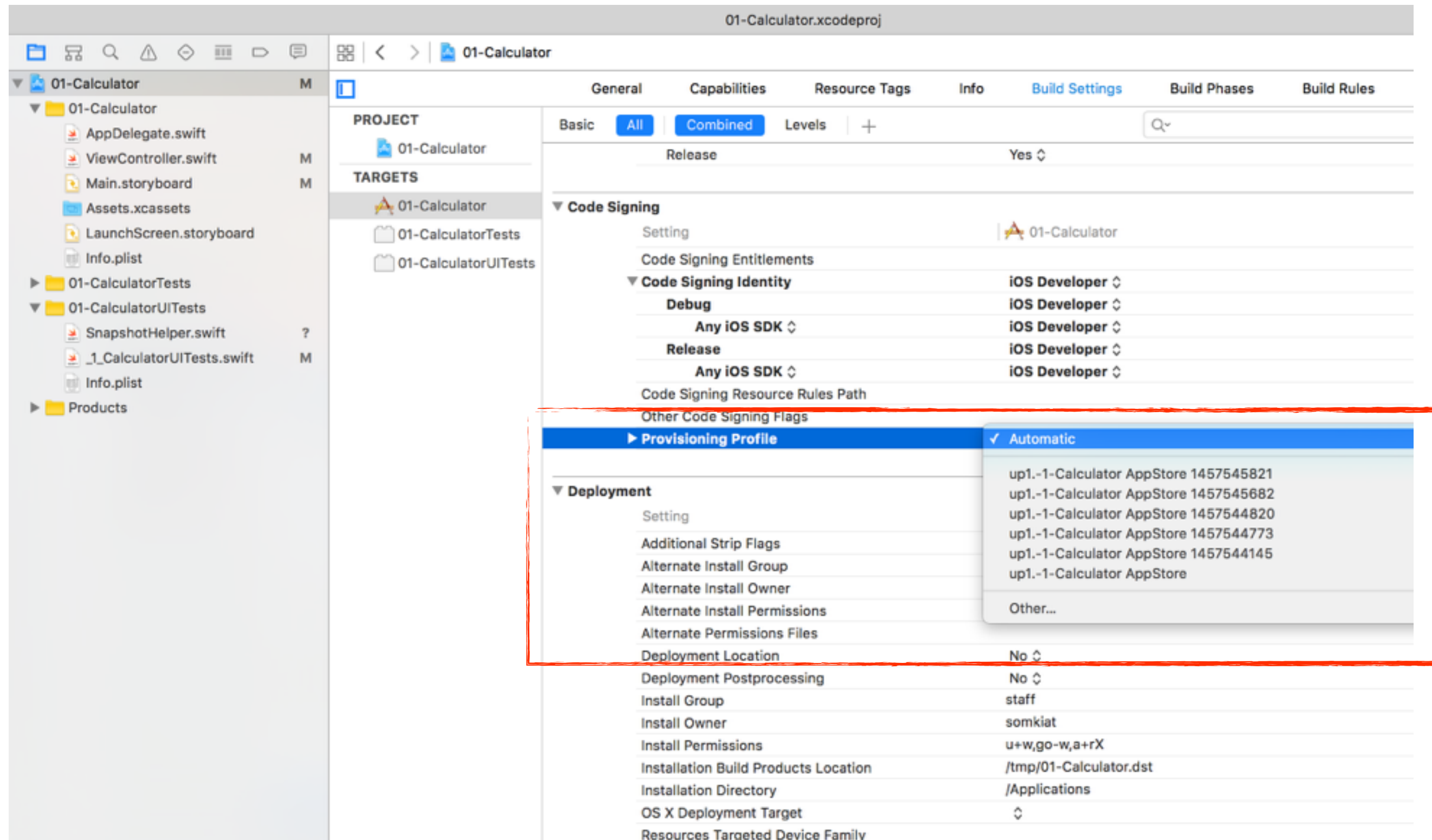https://github.com/fastlane/fastlane/tree/master/sigh

Run snapshot

$cert & sigh

Provisioning

```
desc "Creating a code signing certificat
lane :provision do
  produce
  cert
  sigh(force: true)
end
```
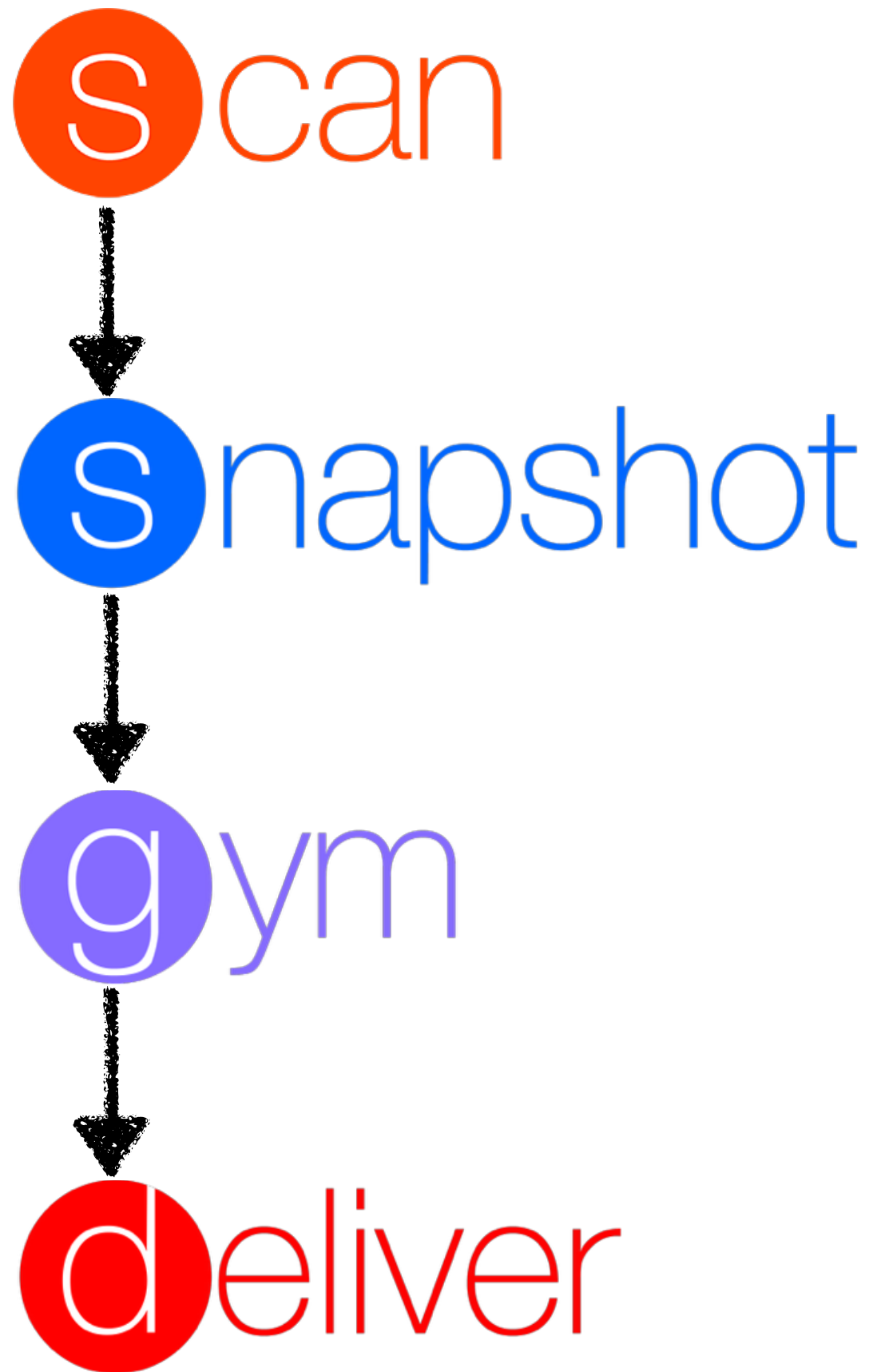
Provisioning profile

https://github.com/fastlane/fastlane/tree/master/gym

Run gym

$gym

https://github.com/fastlane/fastlane/tree/master/deliver

Run deliver

$deliver

scan

snapshot

gym

deliver

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Edit Fastfile

Edit Fastfile

```ruby
desc "Creating a code signing certificate and provisioning profile"
lane :provision do
  produce
  cert
  sigh(force: true)
end

desc "Create ipa"
lane :build do
  gym
end
```

Edit Fastfile

```
desc "Upload to App Store"
lane :upload do
  deliver
end
```

Edit Snapfile

```
devices([
    "iPhone 6"
])

languages([
    "en-US"
])
```

Run Fastlane

$fastlane **test**

$fastlane **screenshot**

$fastlane **provision**

$fastlane **build**

$fastlane **upload**