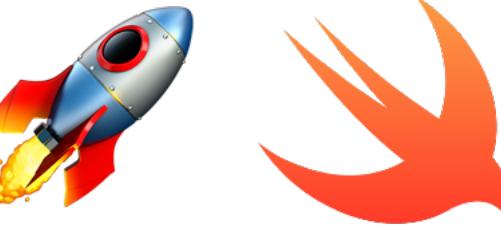


Xcode Cloud & Swift Testing

Integration and Automation for iOS Apps

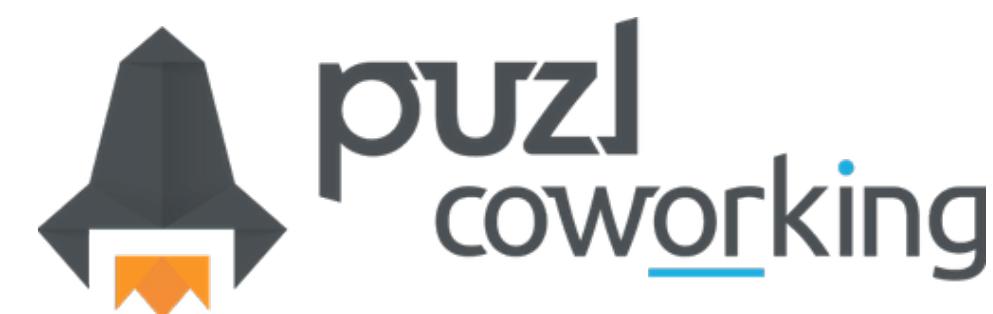
Welcome to our 1st event



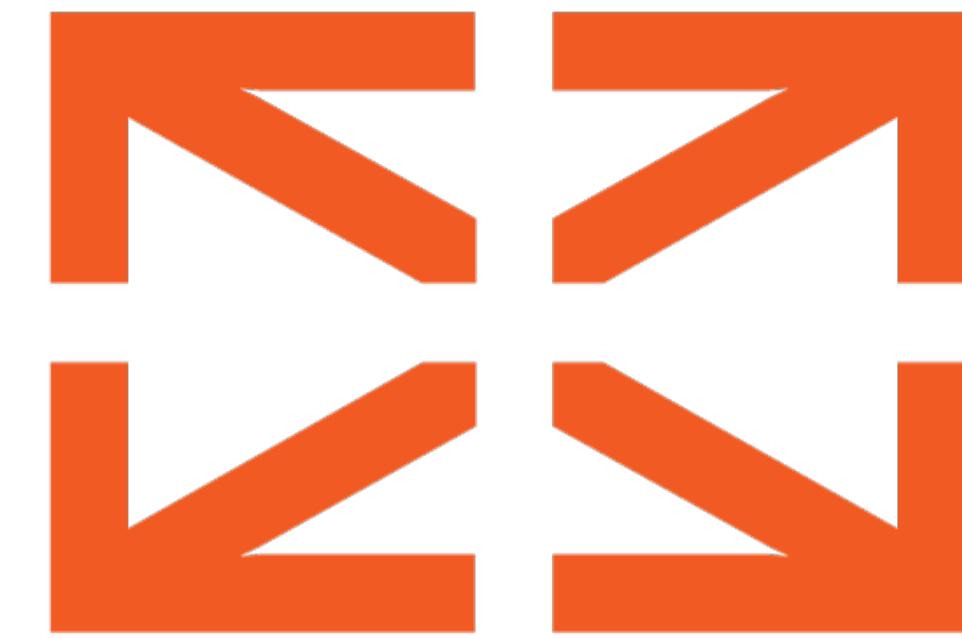
- 19:00 - 19:15 - Welcome
- 19:15 - 19:50 - Xcode Cloud & Swift Testing with Emil Atanasov
- 19:50 - 21:00 - Chat and drinks

Thanks to

BARTER
COMMUNITY HUB



Thanks to



Devexperts

Follow us - Xcoders Sofia



<https://www.facebook.com/profile.php?id=61565246821995>

<https://www.meetup.com/Xcoders-Sofia>

<https://www.linkedin.com/groups/8323933>

Why testing is important?

Testing is critical for your success

- Find problems earlier 🐛
- Fix the problems 💪
- Deliver quality (outstanding products do that!) 💎
- Save time in future
- Tests are investment

Why don't we do it?

Tests are burden

- Hard to create tests (time and resource consuming)
- Hard to organise them
- Hard to keep them up to date
- Not sure in the their return
- Hard to motivate the business to invest in tests

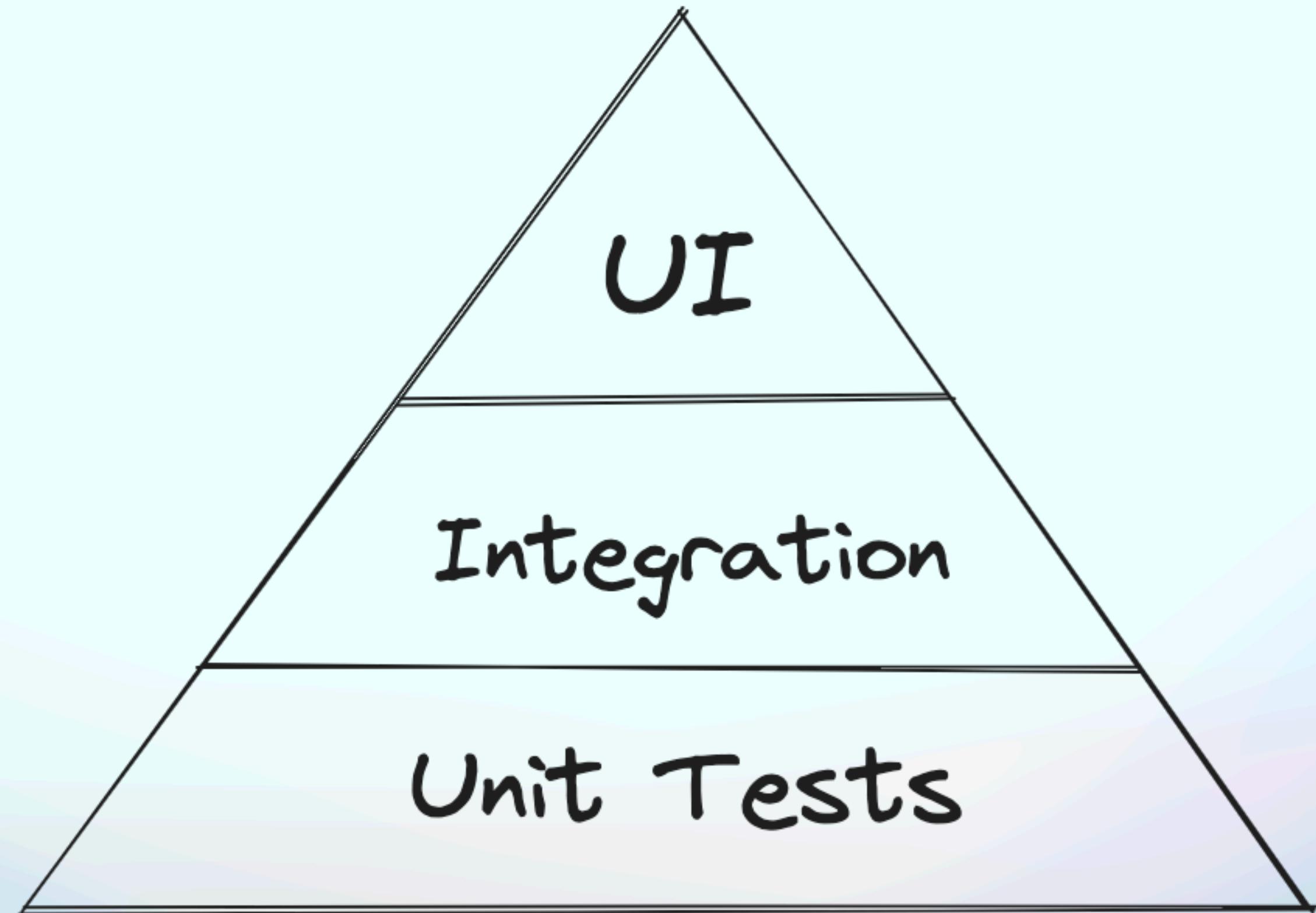
Why don't we do it?

Challenges

- Readability of the tests code
- Code coverage
- Organization
- Unexpected errors

What kind of tests do I need?

Unit, Integration and UI tests

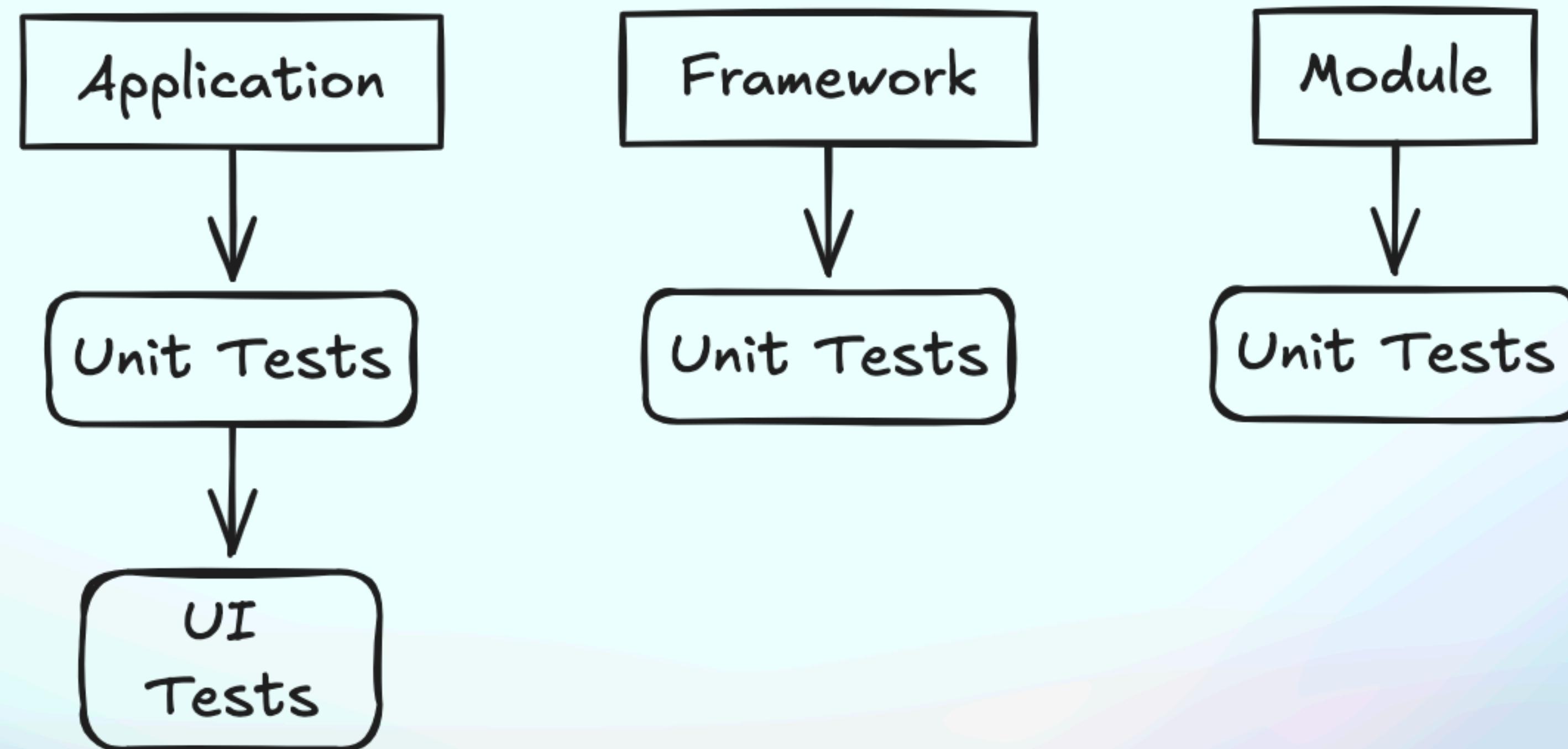


Testing Tools in iOS development

You should know them to use them

- XCTest
 - Unit tests
 - UI tests
- Swift Testing (Xcode 16 *)
 - Unit tests

How to use those tools?



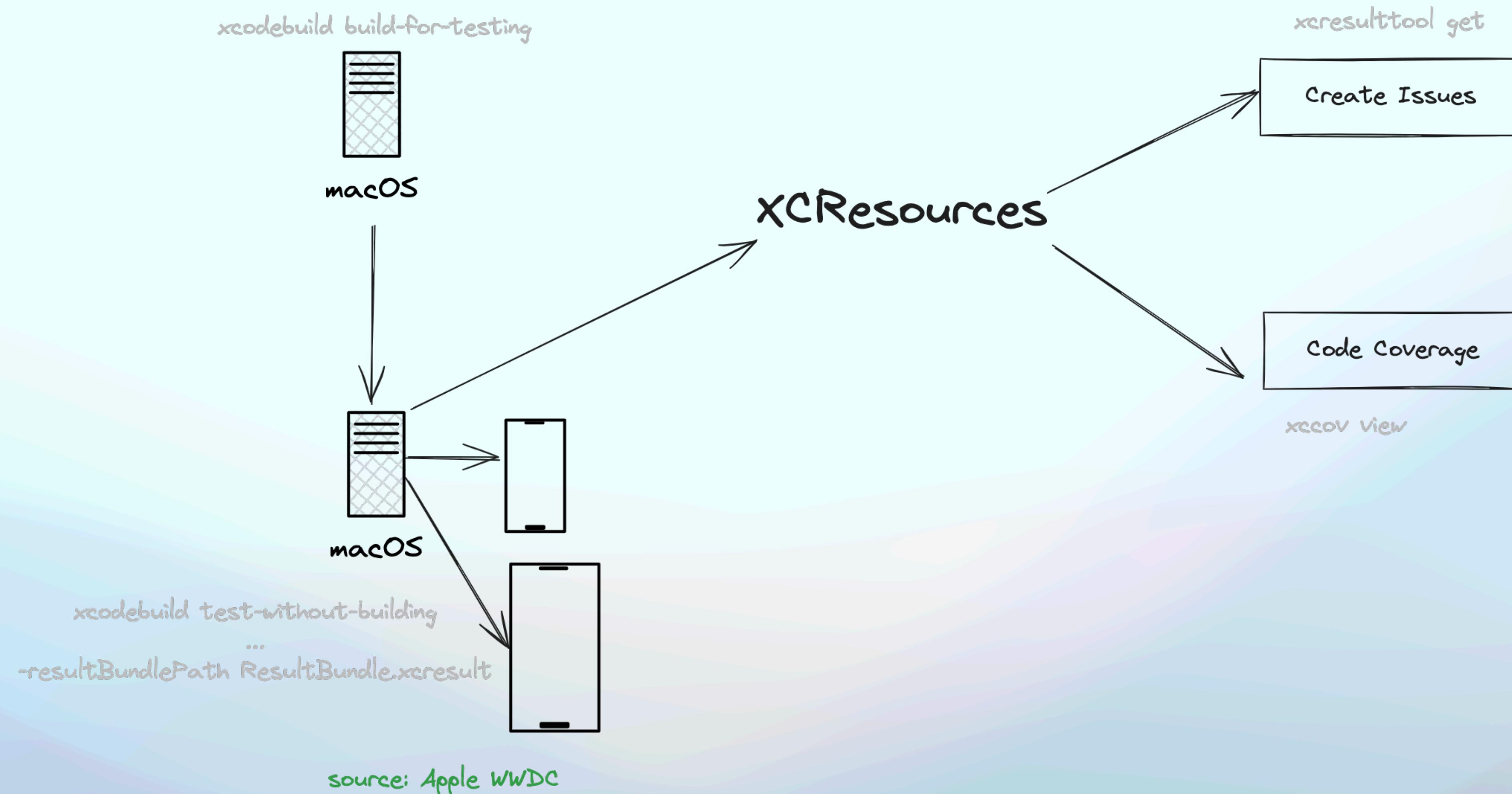
Swift Testing

Demo

- A sample project with model

How to create own CI?

CI simplifies testing once done right



Xcode Cloud

25 hours free with each subscription

How to configure it?

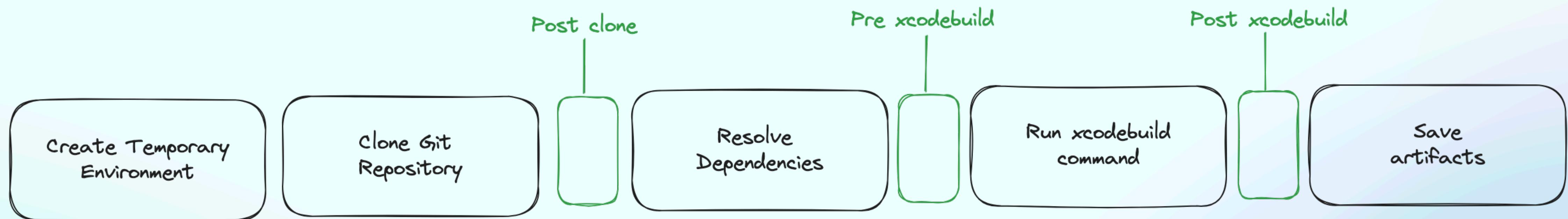
- You need a paid Apple Dev account
- You need a git repository, that can be authorised
- You have to create a workflow (done from Xcode)
 - Manually triggered
 - Automated (upon commit)

How to configure a workflow?

Demo

How to extend a workflow?

Using shell scripts



source: Apple WWDC

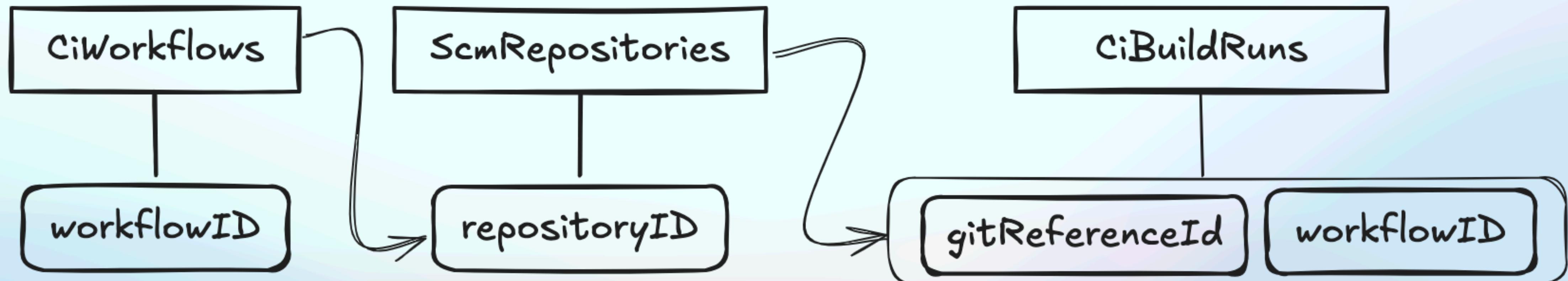
How to write a script?

Demo

- Create a folder called ci_scripts
- Add one or more shell scripts (the names are fixed)
 - ci_post_clone.sh
 - ci_pre_xcodebuild.sh
 - ci_post_xcodebuild.sh
- You can use any other the environment variables from the docs

How to connect with external service?

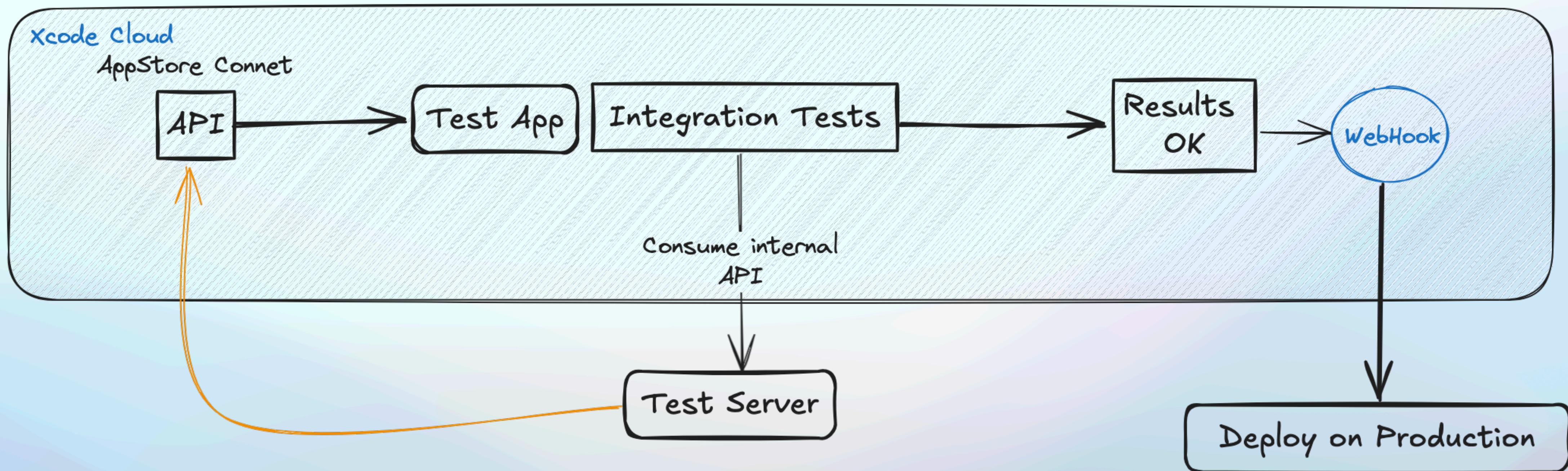
- Trigger a build when an external event is fired
 - We have to use [AppStore Connect API](#)



source: Apple WWDC

How to react on result?

- Xcode cloud supports web hooks



source: Apple WWDC

Q&A



Swift Concurrency

The good, the bad and the ugly

w/ Radoslav Radenkov

DATE

19 Nov 2024, Tuesday
19:00

VENUE

Barter Community Hub
47 Cherni Vrah Blvd, Sofia

Feedback



<https://forms.gle/6g3Je61WHbEbnF1u6>