

QND Computer Science Day 8

Mr. Schmidt

DOWNLOAD SWIFT PLAYGROUNDS

We'll need it today!



Agenda

- Behind the Scenes
- Swift Playgrounds
- Making an app!

Behind The Scenes

- Replit did a bad thing
- We're winging it

Swift Playgrounds

- Apple-made app
- Learn Swift
- 3 major modes

Playgrounds

- Very similar to our Replit environments!
- Write Swift code and run it
- Cannot receive input from the user 😡

Lessons

- Interactive environments
- Guided coding
- Some of the best self-teaching materials
- Free!

Apps

- Develop actual iOS apps on iPad
- Release on the App Store!
 - No need for Xcode

iOS

- Operating System for iPhones, iPads



iOS Apps

- App Store launched in 2008 alongside the iPhone 3G
- Originally written in Objective-C using UIKit
- Apple released Swift in 2014 as a more modern alternative
- Added SwiftUI in 2019

SwiftUI

- UI = User Interface
- "Declarative"
- Simpler to write
- Works across iOS, tvOS, watchOS, macOS, and visionOS

SwiftUI

- Simple building blocks
- Common experience across all apps
 - No need to reinvent the wheel for each app
- Built-in accessibility

Let's Get Coding

- Views
- Text
- Buttons
- View Modifiers
- Numbers