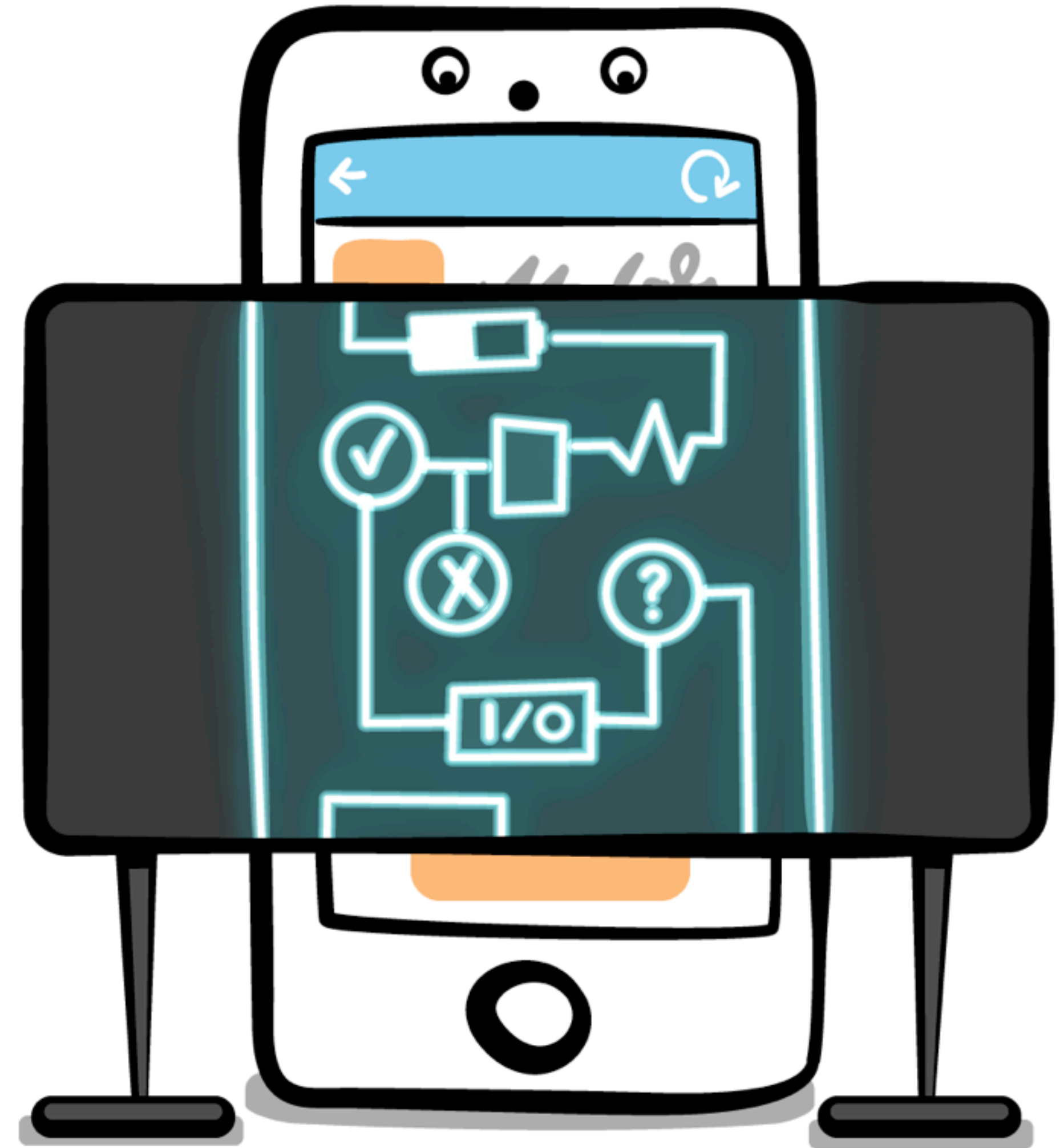
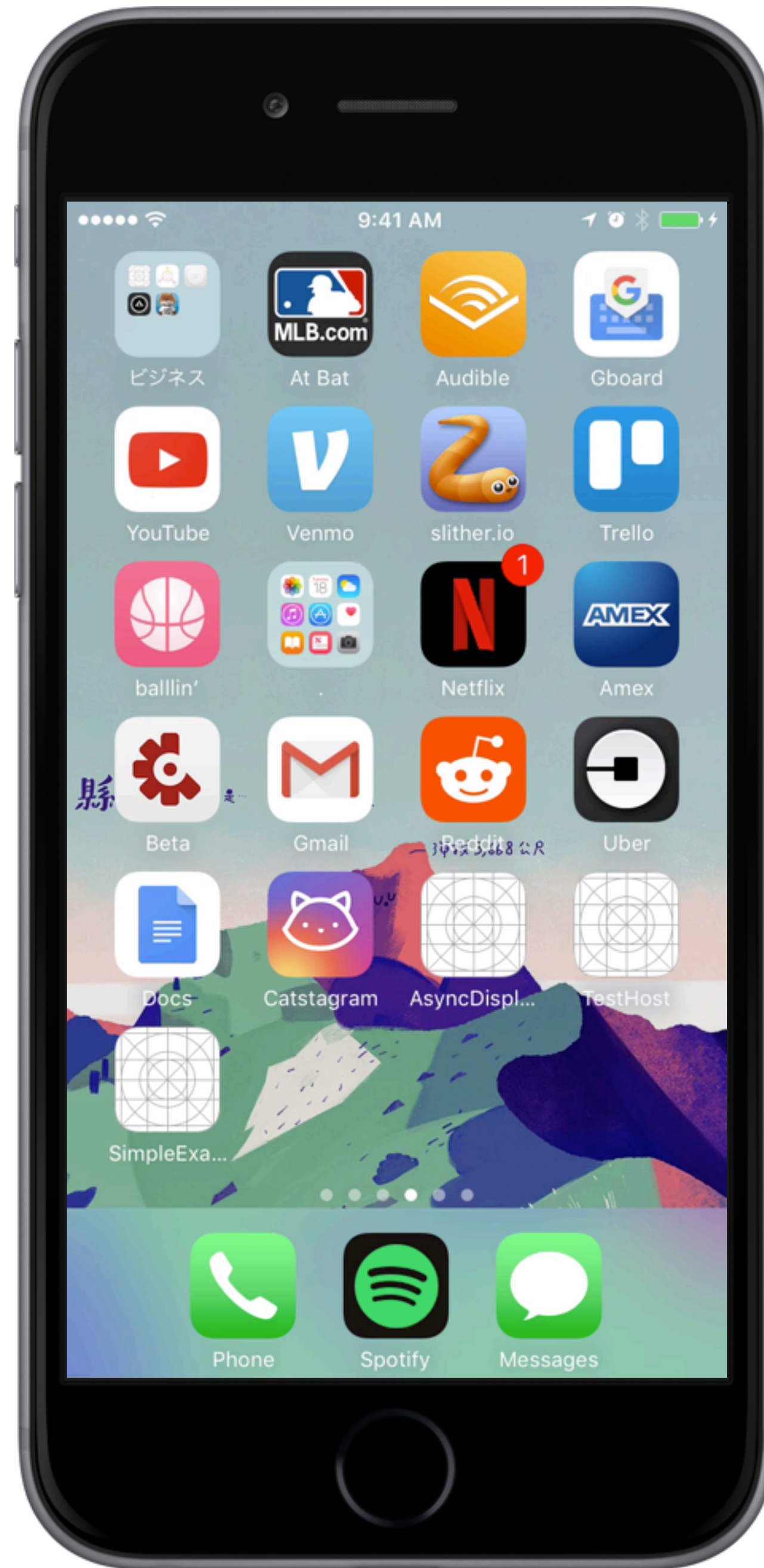
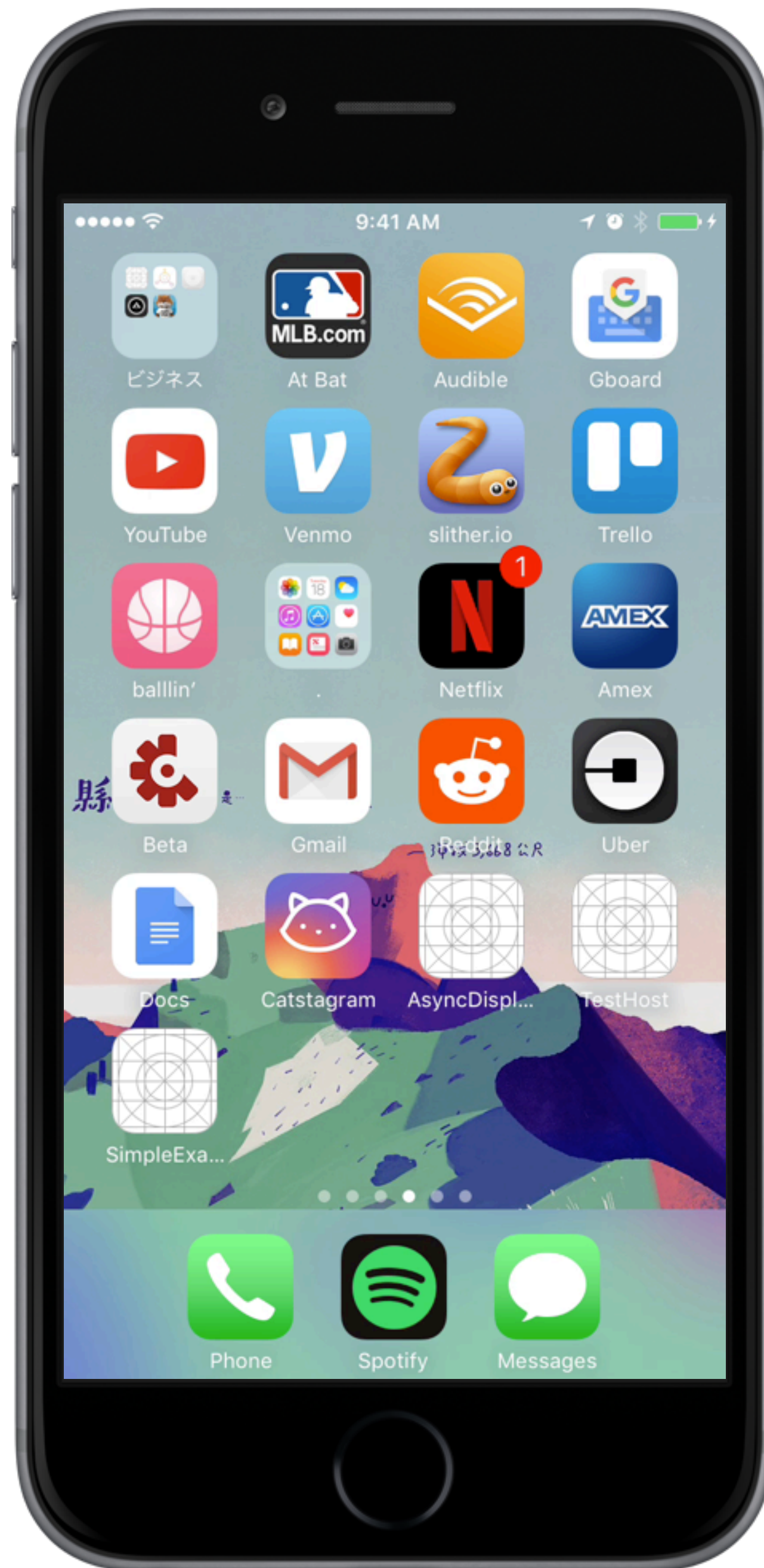


PRACTICAL INSTRUMENTS



PART 4: OPTIMIZING LAUNCH



USER EXPECTATIONS

- ⚙ Apps should be fast!
 - ⚙ Amazon page loads contributed significantly to revenue
- ⚙ Users will abandon apps after 2 crashes
- ⚙ Users expect 2s launches (Apple expects 0.4s)



COLD VS. WARM STARTS

⚙️ Cold Launches:

- ⚙️ When the app hasn't been launched in long time
- ⚙️ When the device has been rebooted

⚙️ Warm Launches:

- ⚙️ Some dylibs an app needs still reside in the device's disk cache



WHAT'S GOING ON?

- ⚙ *Before main()*
 - ⚙ Dylib Loading
 - ⚙ Rebase/Binding
 - ⚙ Obj-C Setup
 - ⚙ Initializers



DEMO PART 1



WHAT'S GOING ON?

- ⚙ *After main()*
 - ⚙ UIApplicationMain()
 - ⚙ application(_:willFinishLaunchingWithOptions:)
 - ⚙ applicationDidFinishLaunching(_:)
- ⚙ The system thinks you're done launching when the first CATransaction is committed.

DEMO PART 2



CHALLENGE TIME!

