# Stanford CS193p

Developing Applications for iOS
Spring 2020
Lecture 1

# Welcome

◉ **What is this course about?**

Developing applications for iOS (iPhone and iPad mostly, but applicable to Apple Watch/TV too).

Using SwiftUI (which shipped for the first time a few months ago in iOS 13!).

(If you want to learn UIKit (Swift or Objective-C), see previous CS193p iterations on YouTube.)

◉ **What will I learn?**

Some things will be familiar to you (OOP, C-like programming language, etc.)

But a number of things will likely be very new to some of you ...

Swift Programming Language

Functional Programming

"Reactive" User-Interface Development Paradigm (including MVVM)

Object-Oriented Databases

And this is a great place to experience "real life" applications of numerous CS concepts ...

CHI, API design, Language Design, Animation, Persistence, Networking, Multi-threading, etc.

# Welcome

◉ Coronavirus

   Occasionally, Stanford records CS193p to make it available free to the world.

   Coincidentally (and luckily), this is one of those quarters!

   So you will not miss a minute of exciting lecture action!

   (Though lectures will be weird for me with no one there.)

   Due to potentially huge time-zone differences of students, lectures will not be "live" on line.

   The vast majority of two-way interaction in this course has always been via Piazza anyway.

   That will continue to be true.

   We will certainly miss some things (no questions in lecture, no face-to-face office hours, etc.).

   But overall, I expect (hope?) that CS193p will be one of the less-impacted courses.

   In any case, we'll adjust as needed on the fly!

# Welcome

- How does this course work?
  - Demos (lots and lots)
  - Lecture Slides (for concepts mostly)
  - Reading Assignments (to learn Swift; first 3 weeks only)
  - Programming Assignments (5 or 6 of them in the first 7 weeks)
  - Final Project (last 3 weeks)

- Let's get started!
  - We're going to start by building an application together over the first few weeks
  - Starting right now ...