IS 543 Fall 2023

Mobile Platform Development
MVVM Demo
Dictionaries
First Look at Concurrency

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Today

- We'll spend most of the time exploring MVVM based on HW6
- Also: dictionaries in Swift
- And a first peek at how to run code in the background

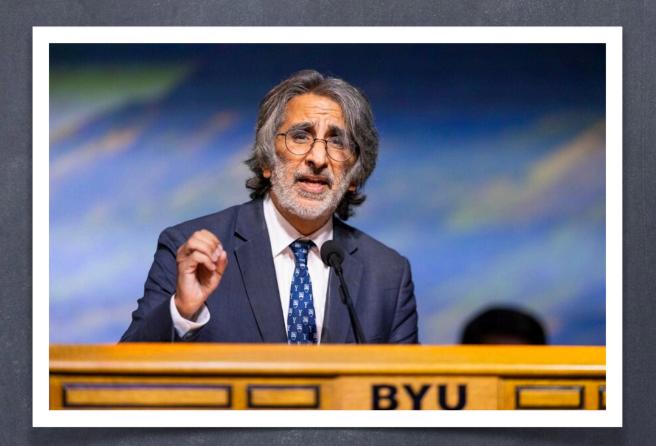
Last Tuesday's Forum

Dr. Akhil Reed Amar

We are extraordinarily diverse: we don't have a shared religion, race, geography, language or politics

What we have in common is the U.S. Constitution

We need to know our "Constitutional narratives"



Fun Facts

Public accountability! Here's where I am in the <u>HundredPushups.com</u> program and in Pushups for Kyle

I'm on Week 6 of the workout program

The last day (tomorrow) looks like this: Sets of 26, 26, 33, 33, 26, 26, 22, 22, 60+ (Rest 45 seconds between each set, longer if needed; I usually need longer!)

I'm getting my flu shot this afternoon, so we'll see if that messes with my ability to do the workout tomorrow

We need to adjust the accounting rule
Richard agreed that I could count extra reps over two days



HW6 Debrief

What did you learn from HW6?

How did you enable/disable sound in your UI?

What are the Model elements you decided you need?

What are the ViewModel elements you decided you need? (Model Accessors and User Intents)

Calculator Demo

We'll spend most of the rest of today on demo
Along the way we'll see a lot of interesting concepts
Building a real MVVM architecture
Using Swift's Dictionary type
Performing long-running operations (like playing sound) in the background
Practical applications of enums, tuples, and much more

Homework 7 for Tuesday

I will post some videos I want you to watch and code along with Certainly the remainder of the calculator app Probably more progress on the pushup tracker app too

Coming soon:

Assign Project 1
Property wrappers and how/why to use them
How to read/write data (persistence between launches of your app)
How to send web requests and process responses
How to use concurrency in Swift
Demo of a card game (concentration) with animation and lots of good things
Demo of an app to map in real-time all airplanes over the state of Utah

Also, note that I'll be gone the week after next and those days are listed as Project 1 Lab Days I will record some videos to help you — there will be plenty of material for that week!