

ackee
nedu

We know how
We know how
We know how

OK

ackee

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nedu





BI-IOŠ

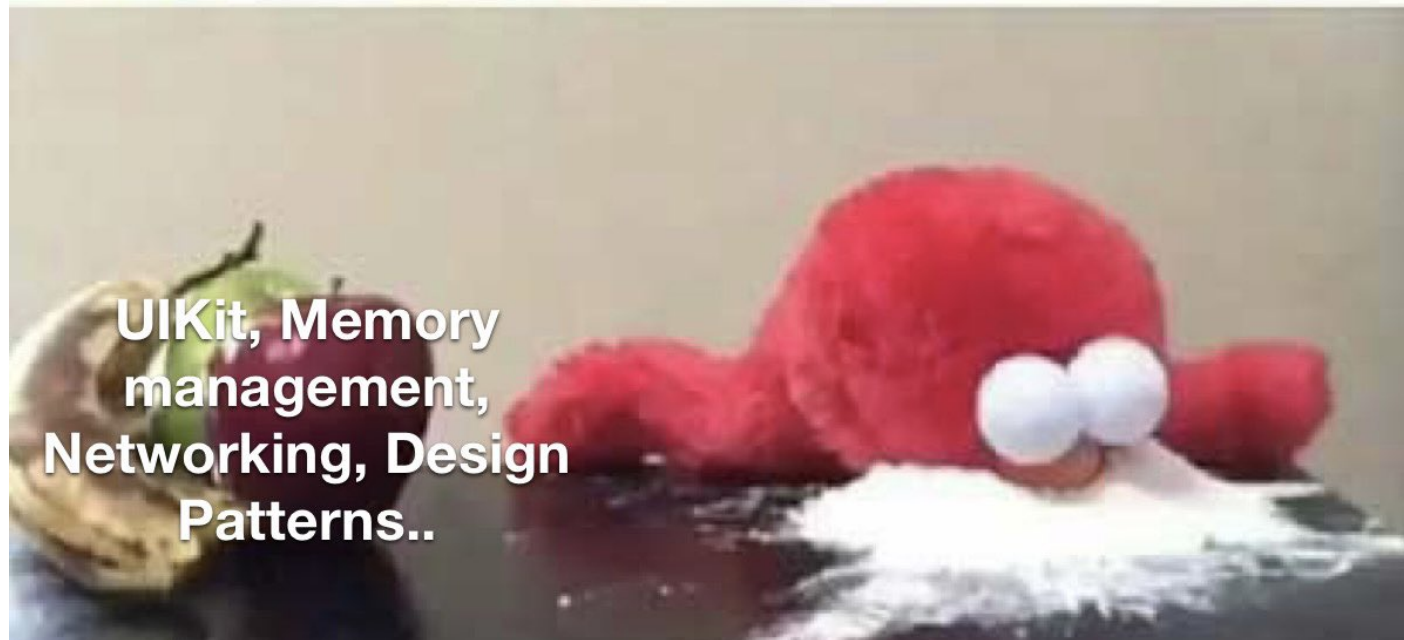
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Lecture 5 - Navigation

Good To Know Resources

- 📄 [Swift.org](https://swift.org)
- 📄 [The 100 Days of Swift](#)
- 📄 [The 100 Days of SwiftUI](#)
- 📄 [SwiftUI Fundamentals | Beginner Friendly](#)
- 📄 [John Ackeeseed \(@JohnAckeeseed\) / X](#)



@State

Allows us to modify values inside a struct, which would normally not be allowed because structs are value types

Effectively moves storage out from our struct and into shared storage managed by SwiftUI

Invalidates the View whenever wrappedValue changes

SwiftUI can destroy and recreate our struct whenever needed without losing the state

.sheet

Used to modally present new views over existing ones

Is presented when a binding to a Boolean value that you provide is true

Can be dragged down to dismiss

Dismiss can be handled in multiple ways

`.fullScreenCover`

Full screen modal presentation

Cannot be dragged down to dismiss

Let's code! 🧐

Questions?



@State



.sheet



.fullScreenCover

@Binding

Bindings are all about having a single source of truth

A value that is bound to something else (another View)

Is able to get/set the value of the wrappedValue from some other source

Invalidates the View whenever bound-to value changes

@Environment

Specifically there to work with SwiftUI's own pre-defined keys

Great for reading out fixed properties that come from the system

Presentation mode, device dark/light mode, size class, etc.

.alert

When you want the user to act in response to the state of the app

Nice, native look

Customizable since iOS 16

View `Alert` deprecated !

Let's code! 🧐

Questions?



@Binding



@Environment



.alert

NavigationStack

Allows present a stack of views over a root view.

Can use `NavigationLink` to navigate through the app (push and pop screens)

Target is defined by `DestinationView`

Since iOS 16, replaced deprecated `NavigationView` !

.toolbar

Provides immediate access to frequently used commands and controls

NavigationPath

Improved programmatic navigation using `NavigationPath`

Type-erased list of data representing the content of a navigation stack

TabView

Most user-intuitive approach to separate app logic/flow

Items have their own labels and images and lead to separate screens

Has maximum of 5 items

Let's code! 🧐

Questions?



NavigationStack



.toolbar



NavigationPath



TabView



Let's get rid of hardcoded images 🎉



Yeah!



Questions?



RemoteImage

Optional Bonus Task

Basic user profile

- ❑ Circular photo, first + last name
- ❑ Bio, posts (3 columns)

2 bonus points

Deadline: 6. lesson

igor.rosocha@ackee.cz or invite to repository (branch, commit)

Before Next Lesson

BI-OSY

- ❑ Přednáška 2: Procesy a vlákna. Časově závislé chyby. Kritické sekce
- ❑ Přednáška 3: Synchronizace vláken

HTTP protocol - methods, status codes

RESTful API



Thank you very much,
see you next week!