iOS NIGHTS

COMMUNICATION

- We have a Slack workspace
- iosnightsstrv.slack.com

- General messages/questions -> #general
- Lecture-related questions -> #week-{WEEK_NUMBER}
- Extensive questions -> DM to your mentor

YOUR MENTORS

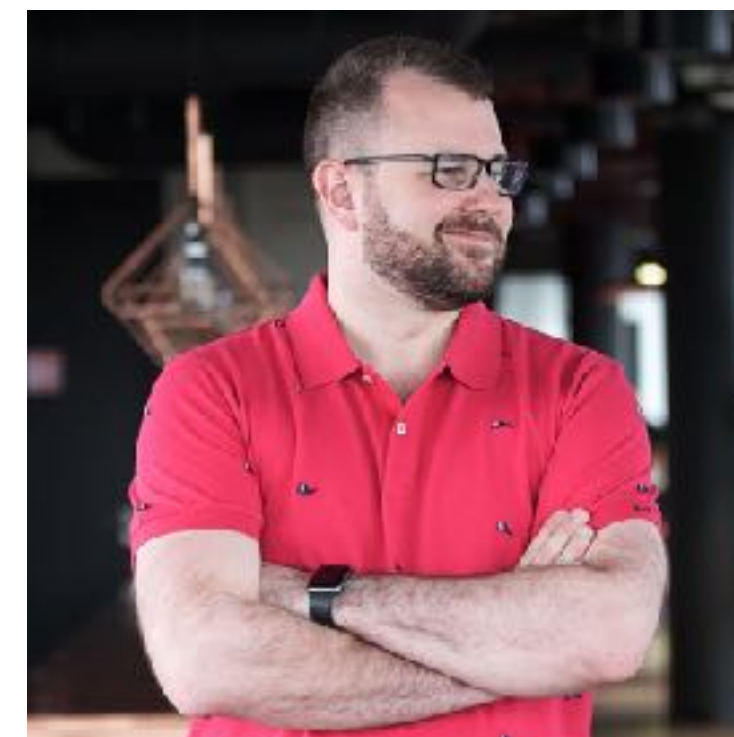Gleb Arkhipov

Jakub Vodák

David Aldorf

Tomáš Čejka

Jiří Ostatnický

Jan Pacek

Jan Kaltoun

Jan Schwarz

WHEN

- March 7 - May 9
- Thursday 6:30 PM
- 10 lectures, ~2,5 hours
- 80% attendance
- 3 afterparties

WHAT

- Build an app from scratch
- https://invis.io/SKPDB7QDZ2W

HOW

- Learning by coding
- Each lecture has a separate topic
- Build a simple app after 10 lectures

LECTURES

1. Swift I – Jan Schwarz
2. Xcode – Jan Kaltoun
3. Basic UIKit – Jiří Ostatnický
4. Intermediate UIKit – Jakub Vodák
5. Advanced UIKit – Jan Schwarz
6. Lifecycles and architectures – Jan Pacek
7. Swift II – Jan Kaltoun
8. Networking – Tomáš Čejka
9. Layers and animations – Gleb Arkhipov
10. Asynchronicity and testing – David Aldorf

CODE

- Code is on Github
- https://github.com/strvcom/ios-nights-2019

- Up-to-date codebase
- Slides
- Homework implementation

HOMEWORKS

- Optional but recommended
- DM your solution to your mentor
- Homework implementation in Github before a next lecture

GOALS

- Complete the course successfully
  - At least 80% attendance
- Gain knowledge to
  - Build a simple iOS app
  - Write Swifty code
  - Create scalable and maintainable codebase
  - Pass iOS test project

SWIFT I

Jan Schwarz, iOS Platform Lead at STRV

STRV

SWIFT ROADMAP

- Before 2014 dark times when Objective-C ruled the world
- Version 1.0 released on September 9, 2014
- Open sourced under Apache 2.0 on December 3, 2015 - https://swift.org
- Current version 4.2
- Version 5.0 expected in September, 2019

SWIFT IS...

- Compiled language
  - Longer compile time
  - Less run-time errors
- Statically typed language
  - All variables must have a type
  - Once a variable type is declared or inferred it cannot change
- Strongly typed language
  - You cannot pass a string to a function that expects an integer

SWIFT IS...

- Language that uses Automatic Reference Counting
  - Compile-time in contrast to garbage collectors
  - Still there can be memory leaks
- Functional-friendly language
  - Evaluation of mathematical functions that avoids states and mutable data
  - Especially when working with arrays

LET'S CODE|

STRV

LANGUAGE GUIDE

- https://docs.swift.org/swift-book/LanguageGuide/TheBasics.html