





#### Maximilian Sölch

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#### Seminar

### Teaching iOS Winter Semester 2022/23 - Info Meeting





#### Prof. Stephan Krusche Christoph Weinhuber



- Participate as tutor in the introduction courses for the iPraktikum (large-scale practical course)
- Learn how to teach Swift and concepts of advanced Software Engineering to students with varying knowledge
- Deepen your knowledge in iOS development
- Have fun 🤤

### Goas







# The Intro Course



11.8

- Course duration: October 10-14 (Homework due October 16)
- Different kinds of sessions •
  - 8 sessions about Swift, Xcode and iOS development
  - 2 sessions about advanced topics
- Learn more about the course here!

## Course Schedule

• We keep the Rechnerhalle open 8:30-18:00 for people to complete their exercises





#### October 2022

	Mon 10	Tue 11	Wed 12	Thu 13	Fri 14	Sat 15	Sun 16
		8:30 AM Lab Time	8:30 AM Lab Time	8:30 AM Lab Time	8:30 AM Lab Time		
9 AM	9:00 AM Getting Ready						
10 AM	09:30 AM Introduction	9:30 AM Swift 2	9:30 AM Swift 3	9:30 AM Swift 4	9:30 AM Swift 5		
						10:00 AM Lab Time	
11 AM					11:00 AM		
	11:30 AM				What now?		
Noon	Mac 101						
	12:30 PM Swift 1	12:30 PM	12:30 PM	12:30 PM	12:30 PM		12:30 PM
1 PM	Swift 1	Арр 2	Арр 3	Арр 4	Advanced Session 1		Lab Time
2 PM							
3 PM		2:30 PM Lab Time	2:30 PM Lab Time	2:30 PM Lab Time			
	3:00 PM App 1				03:00 PM Advanced Session 2		
4 PM							
5 PM	5:00 PM				5:00 PM		
	Lab Time				Lab Time		
6 PM							

### Schedule (Preliminary)



# Our Philosophy

"Tell me and I will forget." Show me and I will remember. Involve me and I will understand. Step back and I will act." (Chinese Proverb)



# Style of the sessions

### 90 min hands-on presentation

- Students immediately exercise the learned concepts in small in-session exercises (instructor walks them through the code)
- A solution is provided

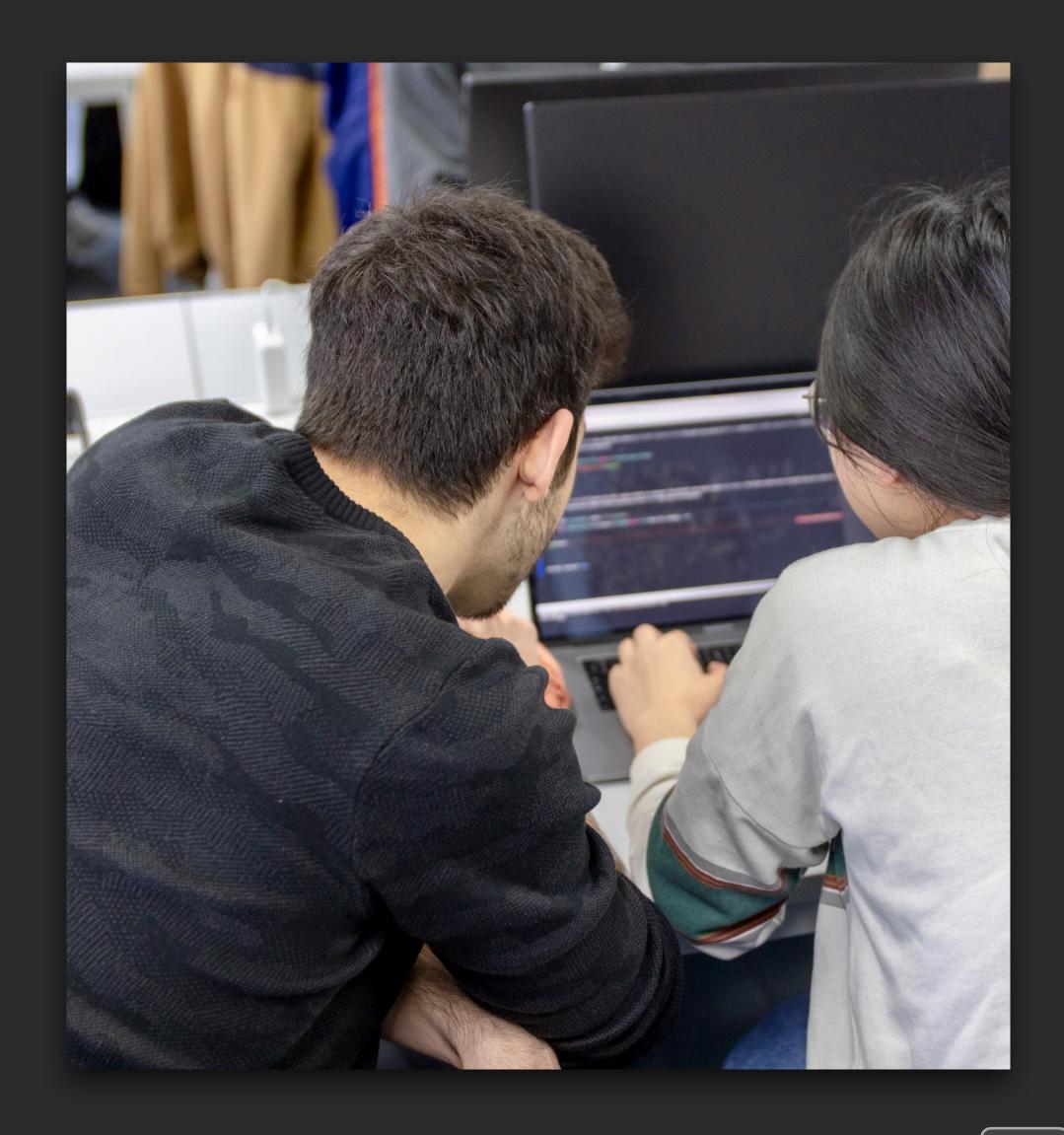
#### Homework

- Summarizes the content of the whole presentation
- The students have to solve it on their own
- You correct the exercise solutions and give feedback to the students



## What we expect during the course

- You help run the intro course
  - You attend all the sessions
  - You support the participants by answering their questions
  - You correct the exercise solutions of a group of "your" students
  - You take turns being present during lab times (8:30-18:00)





## What we expect during the course

- Your deliver different sessions
  - You update existing presentations & exercises

### • You prepare yourself to present the topics in front of all students





## Sessions

### Topics

- 5 Swift sessions (Swift 1-5)
- 4 App sessions (App 1-4)
  - Xcode app
  - Server-side Swift
- "What now?"

Teach the concepts needed in the following App session

Everyone works on the same application throughout the whole Course



## What we additionally expect

#### Before the intro course

- You help us assessing Swift Challenge Apps
  - iPraktikum students can skip the intro course by submitting a sophisticated app with predefined requirements

#### After the intro course

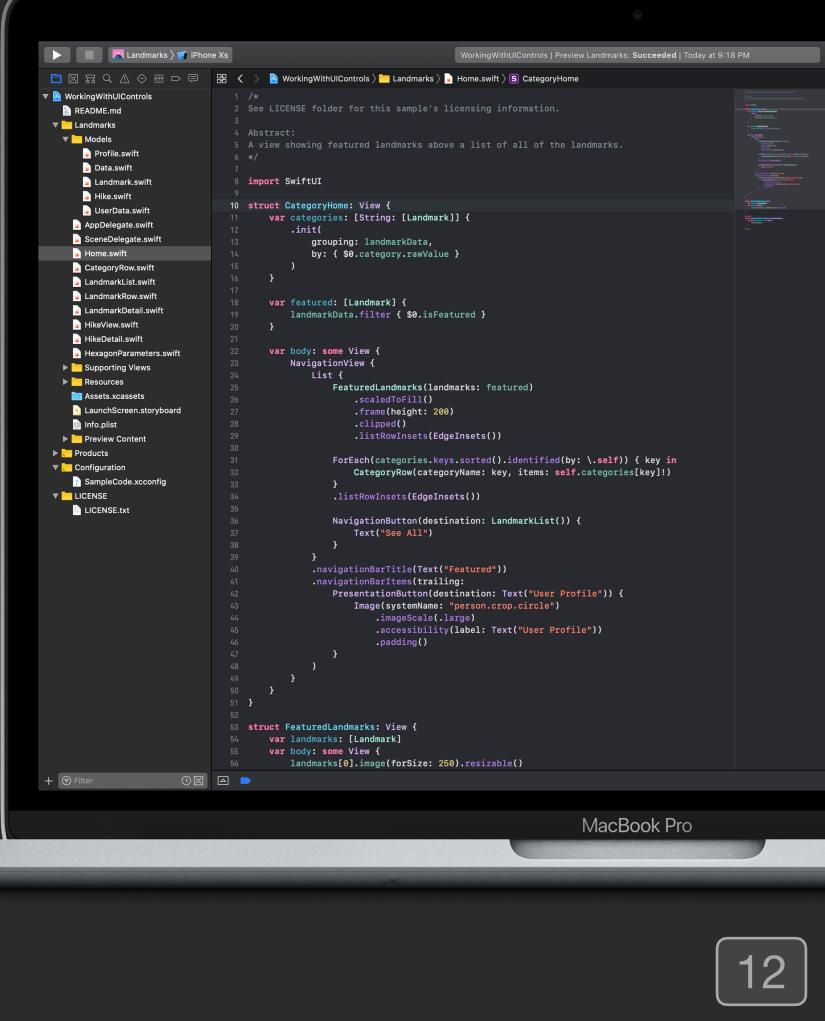
 You remain a contact person for technical questions during the iPraktikum



## Prerequisites

- You have experience in iOS development
  - Good knowledge in Swift
  - Experience with Objective-C is a plus
- You are highly motivated to take this course — no other obligations and flexibility during the full duration of the intro course (except repeat exams/obligatory university courses)

• You are familiar with the concept of object-oriented languages



## Milestones

- Early/Mid September: Updated Presentations & Exercises
- October 04: Assess Swift Challenge Apps
- October 05-07: Dry Run & Feedback
- October 09: Final Slides & Exercises
- October 10: Start of Intro Course



• August 9, 10:00 - 12:00am: Kickoff





## How we grade

- Presentation (40%)
- Support (30%)
- Exercise correction (30%)



# Registration process



Express your intention by filling out the form at <u>http://ase.in.tum.de/teachingios</u> Latest: July 22



We invite you to a personal interview taking place on July 25 (9:00-18:00)



After we have accepted you, prioritize the Seminar "Teaching iOS" in the department's <u>matching system</u> Latest: July 27



### Questions? ios@in.tum.de

