



# Seminar Teaching iOS

Info Meeting (January 19, 2015)



# Goals

- Participate as tutor in the Swift introduction courses for the iOS Praktikum 2015 (approx. 100 students)
- Learn how to teach advanced software engineering concepts
- Deepen your knowledge in iOS development
- Have fun :-)



# 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)

# iOS Praktikum 2014/15

**Program Management**

Lukas Alperowitz Program Manager  
 Stephan Krusche Program Manager  
 Bernd Bruegge Program Manager Methodologist  
 Dora Dzvonyar Program Manager

**Infrastructure**

Helma Schneider Head of Technology Administration  
 Franz Bellmaler Technical Administration  
 Monika Markl Chair Secretary  
 Ruth Demmel Head of Movie Team

 <b>B/S/H/</b> Ivan Jurisic BMW Jörg Schneider B/S/H/ Project Management Lukas Alperowitz Project Leader Bernd Bruegge Project Leader Isabel Max Team Coach Klemens Mang Team Coach Development Team Marco Probst Dansen Zhou Zhechko Zhechev Valentin Rüchardt Marius Schulz Stefan Christoph Keller Mariella Mischinger Antoniya Atanasova Sebastian Baur David Otter Tobias Radspieler Hesham Massoud Valentin Ziegemeier Ivan Petrov		 Prof. Dr. Swanje Duthweiler LS Pflanzenverwendung Project Management Barbara Reichart Project Leader Rana Alkadhi Project Leader Johannes Flemke Team Coach Patrick Hiesel Team Coach Development Team Pranav Tomar Jitendra Kasauthan Tobias Hahn Muhammad Aslam Paul Tolstoi Chetan Basuray Jenny Cheng Ciprian Lucaci Hafiz Javed Ele Bozkir		 Vitus Holzner BMW Project Management Stephan Krusche Project Leader Patrick Hiesel Team Coach Development Team Patrick Sattler Christoph Wimberger Tobias Schwan Shivan Agrawal Josias Montag Ahmed Mustafa Alexander Bielski Camille Mainz Hannes Wächter Elias Arnold Louis Brenner Jan Göbel Louis Brenner Özge Akin Minh Chau Lu		 Dr. Asa MacWilliams Siemens CT Dr. Timo Wolf Siemens CT Project Management Jan Knobloch Project Leader Bernd Bruegge Project Leader Constantin Scheuermann Project Leader Stefan Nosovic Project Leader Jan Knobloch Project Leader Stefan Nosovic Project Leader Marko Latic Team Coach Michael Wang Team Coach Alexander Potapov Florian Fittschen Manuel Munoz Rajendra Kharbuja Ute Schiehlen Thomas Krex Aiham Taleb Simon Lang Daniel Richter Omar Faruki Kelvin Ting Martin Mihaylov Derek Chung Richard Voigt		 Dr. Andreas Braun Allianz Dr. Pouya Tafti Allianz Project Management Jan Knobloch Project Leader Stefan Nosovic Project Leader Michael Wang Team Coach Nadine von Frankenberg Team Coach Alexander Potapov Florian Fittschen Manuel Munoz Rajendra Kharbuja Aiham Taleb Simon Lang Daniel Richter Omar Faruki Kelvin Ting Martin Mihaylov		 Dr. Rafal Kobylinski Incapptic Project Management Nitesh Narayan Project Leader Dominique d'Argent Team Coach Michael Niedermeyer Florian Schuale Behroz Sikander Enrico Gigantiello Jan Philipp Bernius Sebastian Stein Syed Najeebullah		 Daniel Seidl Innoactive Project Management Yang Li Project Leader Merican Yigin Team Coach Nicolai von Enzberg Christian Fröhau Florian Schuale Martin Schwoerer Jasmín Vu Magnus Jahnen Manuel Burghard Stephan Krusche Daniel Merke Dominique d'Argent Alexander Galtsev Anuradha Ganapathi Arian Avini Lukas Sporer Veensagaran Rajalingam		 Stefan Verclas T-Systems Project Management Richard Hiermeier DE Software & Control Constantin Scheuermann Project Leader Dominik Henze Team Coach Martin Schwoerer Divya Joseph Magnu Jahnen Manuel Burghard Stephan Krusche Daniel Merke Dominique d'Argent Alexander Galtsev Anuradha Ganapathi Arian Avini Lukas Sporer Veensagaran Rajalingam		 Dr. Jürgen Höber Praxis für Sporttraumatologie Project Management Markus Fink Praxis für Sporttraumatologie Juan Haladjian Project Leader Diana Xhymshli Team Coach Lukas Alperowitz Stephan Krusche Dora Dzvonyar Coach Instructors Release Management Lukas Alperowitz Daniel Merke Jan Ole Johanßen Modeling Dora Dzvonyar Dominic Henze Nadine von Frankenberg Architecture and Code Quality Stephan Krusche Daniel Merke Dominique d'Argent Michael Wang Michael King	
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# Course Schedule

- Between **April 8** and **April 22** (preliminary)
- **3 courses** with **10 sessions** each
- About **30 students** in each course
- We hold **6 sessions** about Swift, Xcode and iOS development
- The tutors hold **2 - 4 sessions** about advanced topics

# Style of the sessions

## 90 min hands-on presentation

- Students immediately exercise the learned concepts in small examples
- A solution is provided

## 30 min Exercise

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

# Prerequisites

- You are familiar with the concept of object oriented languages
- You have experience in iOS development
  - Good knowledge in Objective-C
  - First experience with Swift is a plus
- You are highly motivated to take this course

# What we expect during the course

- You attend all your sessions of your assigned course
- You support the participants by answering their questions
- You check the exercise solutions
- You prepare your own presentation/exercise and tutorial for an advanced topic
- You present the topic in all three courses



# Introduction Topics

- Introducing Swift
- Your First iOS App
- Intermediate Swift
- Storyboarding
- Advanced Swift
- Model View Controller

# Possible topics for tutors

- Data Serialization
- RESTful Services
- Core Data (optional)
- Branch Management
- Release Management

# Milestones

- You create the structure of your presentation and tutorial until the **end of February**
- You create a presentation and the exercise until **mid March**
- **End of March** you hold a dry run of your presentation in front of us
- You include the feedback and deliver the final slides and exercises until the **beginning of April**

# How we grade

- Presentation (40%)
- Tutorial (20%)
- Support (20%)
- Exercise / TrafficWatch correction (20%)

# Registration process

- 1** Apply via email (Details [www1.in.tum.de/ios](http://www1.in.tum.de/ios) (-> Teaching iOS)  
**Until:** *January 27*
- 2** We invite you to a personal interview  
**Latest:** *February 2*
- 3** If accepted prioritize the Seminar „Teaching iOS“ in the matching system  
**Between:** *January 30 - February 3*

Questions?