


Introduction  
Android Smartphone Programming

University of Freiburg

Matthias Keil  
Institute for Computer Science  
Faculty of Engineering  
University of Freiburg  
19. Oktober 2015



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Outline

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- 1 General Information
- 2 Organizational Matters
- 3 Submissions



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Topics

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Android Smartphone Programming

ESE/ Informatik Bachelor Projekt (4/ 5/ 6 ECTS)

- Seven exercise sheets
  - 1-2 topics per exercise sheets
  - 2-3 weeks time to work per exercise sheets
- Sixth exercise sheet only for 5 ECTS
- Sixth and seventh exercise sheet only for 6 ECTS

Tasks

- Solve exercise sheets
  - Programming tasks
  - Java knowledge is required
  - Comments/ Report



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## Time and Place

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### Meetings

- Monday, 2pm - 4pm
- Room SR 00-019, Building 079

- No weekly meeting
- Meeting weeks
  - Discussion of the last exercise sheet
  - Introduction/ presentation of the next exercise sheet
- Free weeks
  - Free time to work
  - Consultation-hour
- Class attendance is not mandatory
- Weekly room reservation
  - Time for free work



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4 / 13

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## Organizational Matters

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### Assistant / Tutor

#### Matthias Keil

Address Room 00-013, building 079  
Email keilr@informatik.uni-freiburg.de  
Phone +49 (0)761 203 8060

#### Julian Jarecki

Email julian.jarecki@neptun.uni-freiburg.de

Webpage [proglang/teaching/androidpracticum/2015/](http://proglang/teaching/androidpracticum/2015/)



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## Registration of Participants

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Email to Matthias Keil until  
Thursday, 22.10.2015 12:00 (midnight)

- name, prename
- email address
- tf username (pool account)
- study program/ required ECTS points



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6 / 13

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## Preliminary Timetable

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- 1) 19.10.2015 Introduction to Android, Android User Interface
- 2) 26.10.2015
- 3) 02.11.2015 **Android Components**
- 4) 09.11.2015
- 5) 16.11.2015
- 6) 23.11.2015 **Android Components 2**
- 7) 30.12.2015
- 8) 07.12.2015
- 9) 14.12.2015 **Android Locations**
- 10) 21.12.2015
- 11) 28.12.2015 *Christmas break*
- 12) 04.01.2016 *Christmas break*
- 13) 11.01.2016 **Android Telephony**
- 14) 18.01.2016
- 15) 25.01.2016
- 16) 01.02.2016 **Android and OpenGL**
- 17) 08.02.2016



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## Submissions

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### Exercise

- *Android Studio Project* for each exercise (e.g. *exercise1*)
- Use package names (e.g. *androidlab.exercise1*)
- One *folder* for each exercise

### Deadline

- Deadline: 12:00 (noon)
- Submit your solution to the subversion repository



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## Grading

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- No fine-grained grading system
  - Because of individual solutions
- Exercise gets divided in *features*
- Points for required *features*
  - Points deduction for errors
  - Efficiency and clear code is required
  - You are strongly encouraged to test your solution
- The exercises have to be done by yourself
  - Team work is not allowed
  - You are not allowed to copy source code
- Used foreign code (e.g. classes, libraries) has to be marked



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9 / 13

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## Comments

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- Provide your source code with comments, *if required*
- Clear and understandable style is required
- **Comments do not explain it the code**
- Comments clarify its intent

### Bad style

```
1 // declare name
2 // concatenates uid and nr
3 String name = uid + nr;
```

### Good style

```
1 // declares the username used for ...
2 String name = uid + nr;
```



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10 / 13

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## Report

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- Formal description of the implemented program
  - Intent, structure, problems
- Limited to one page
- Either in German or in English
- Clear and understandable style is required



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## Questions

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Questions ?



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Attendance !

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