

Dr. Michael Eichberg

Software Technology Group

Department of Computer Science

Technische Universität Darmstadt

Software Engineering

Organization



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The Lecture's Goal



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The goal is to enable you to systematically carry out small(er) commercial or open-source software projects.

Basic Goals

- To get a brief overview of “all” areas of software engineering
- To understand agile software development processes
- To be able to perform object-oriented analysis and design
- To be able to read and create basic UML diagrams
- To perform basic Software Quality Assurance
- To get first hands-on experience and to learn to use basic software development tools
- To be able to use basic design patterns

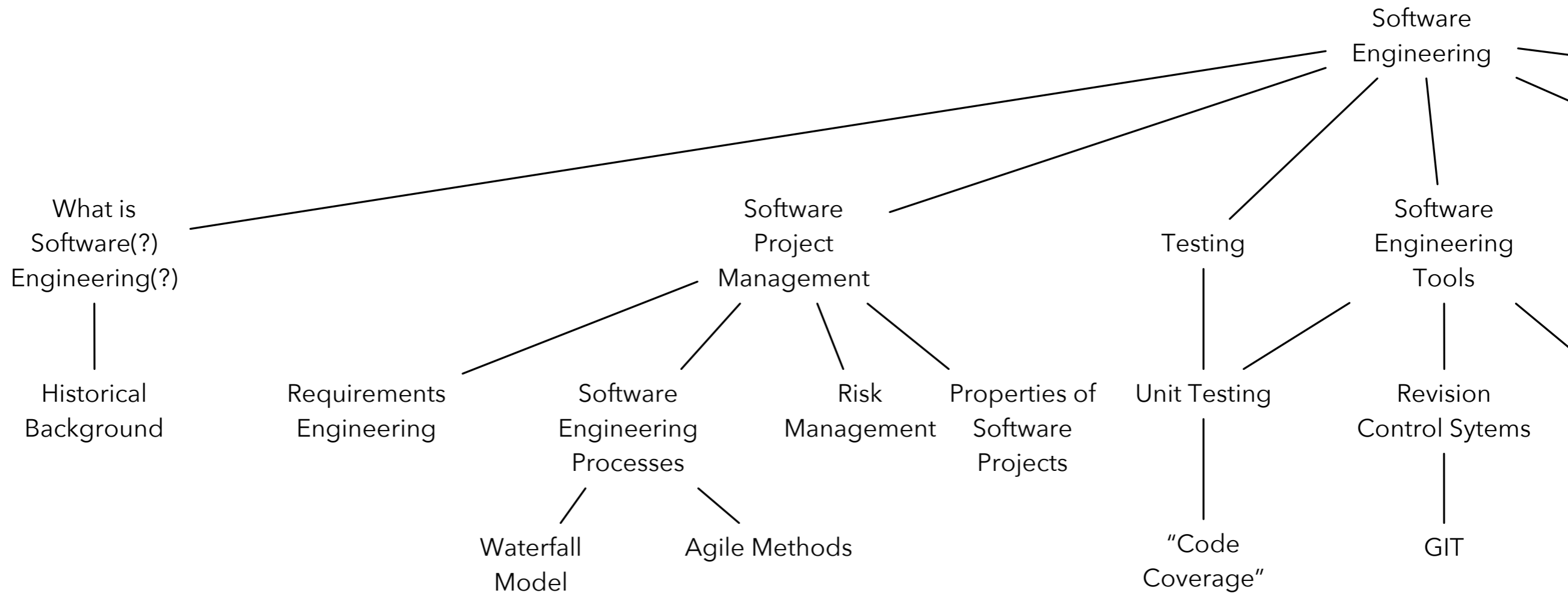
Basic programming skills are required.

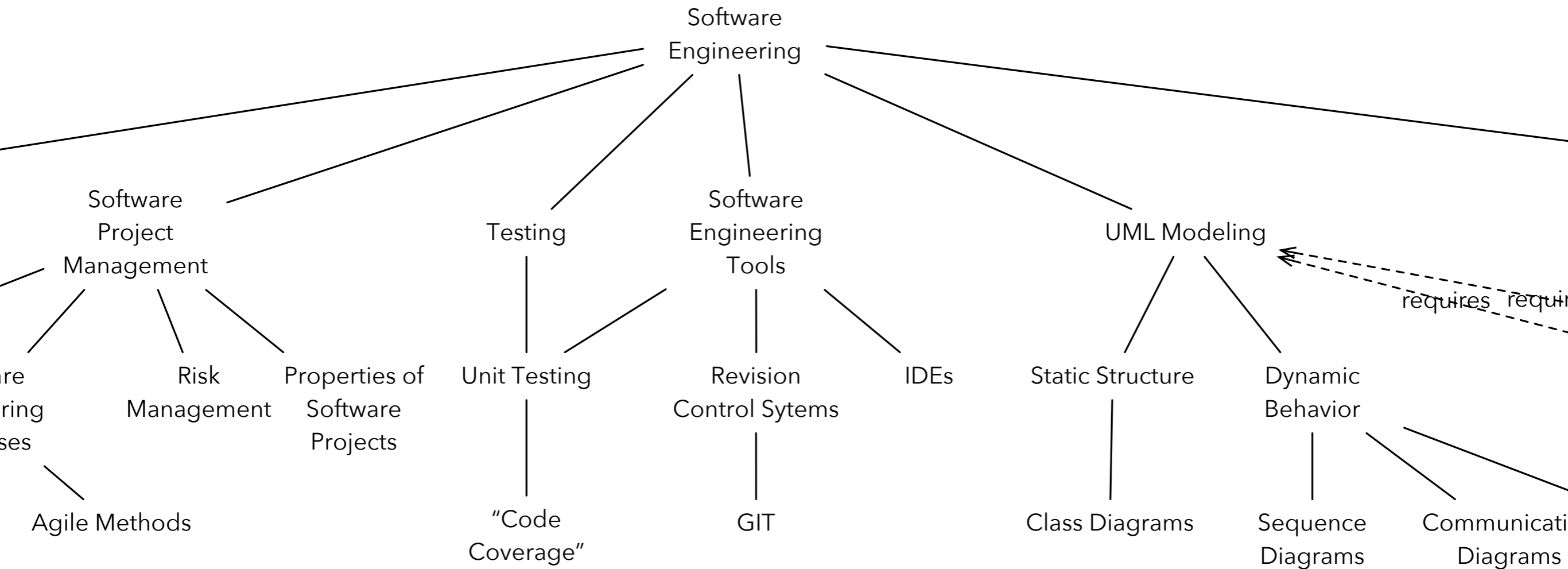
- Basic knowledge of object-oriented programming concepts is necessary
I.e., you should readily understand the following terms:
 - **class, interface**
 - **object**
 - **inheritance**
 - **polymorphism**
- Working knowledge of the Java programming language
- We are going to use Java 8

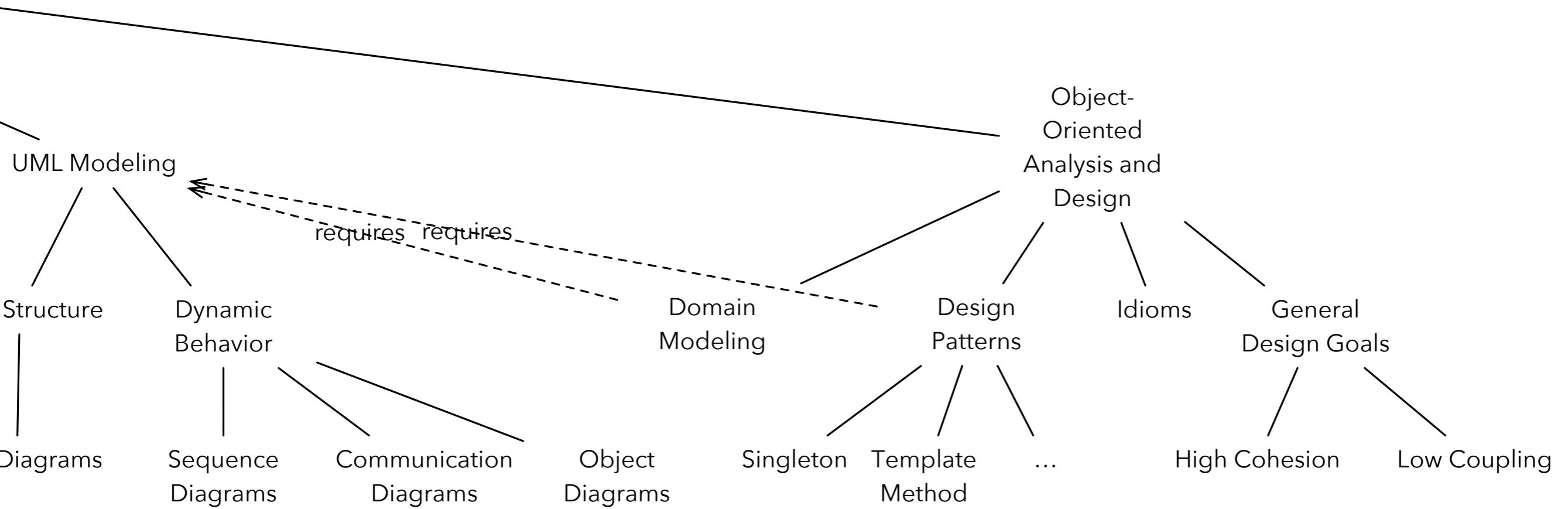
The Lecture's Structure



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The Team



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The Team



Dr. Michael Eichberg



Leonid Glanz



Sven Amann

Contact

WWW

http://www.stg.tu-darmstadt.de/teaching/teaching_iverview.en.jsp

Forum

<http://www.d120.de/forum/>

→ kanonische Einführungsveranstaltungen

→ Einführung in Software Engineering

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Lecture

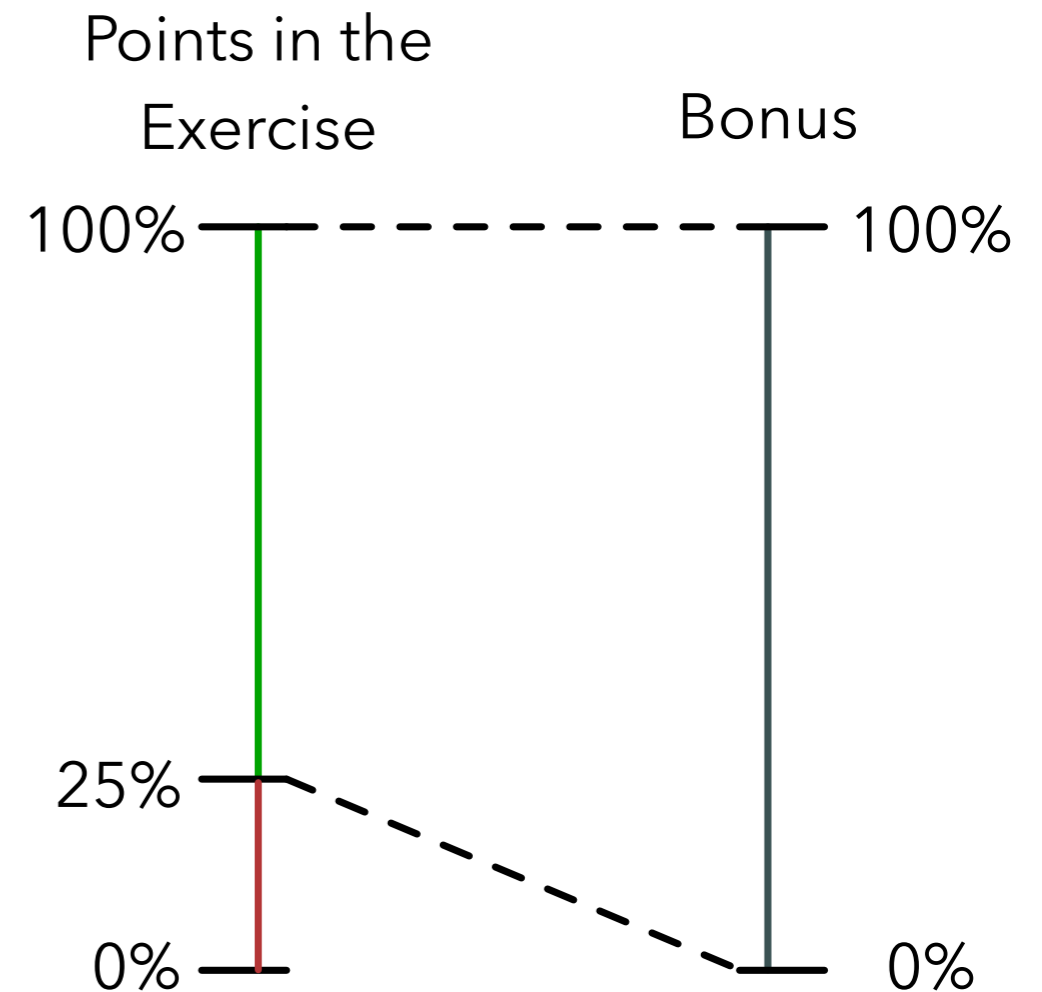
- Thursdays 13:30-15:00 in S2 02 | C205 and C110
- The slides are in English
(Key terms will be translated into German.)
- The slides will generally be available after the lecture
(I will try hard to make a preliminary version available the day before the lecture.)
- The slides can be found at
<http://stg-tud.github.io/eise/>

Exercises

- Every week, we will have an exercise, starting today
- Exercises are expected to be solved in teams of 3 students
- The content of the exercise is relevant for the exam
- Sign-up as a team; if you don't have a team, we will assign you to a team
- The content of the exercise is relevant for the exam

Exercises - Bonus

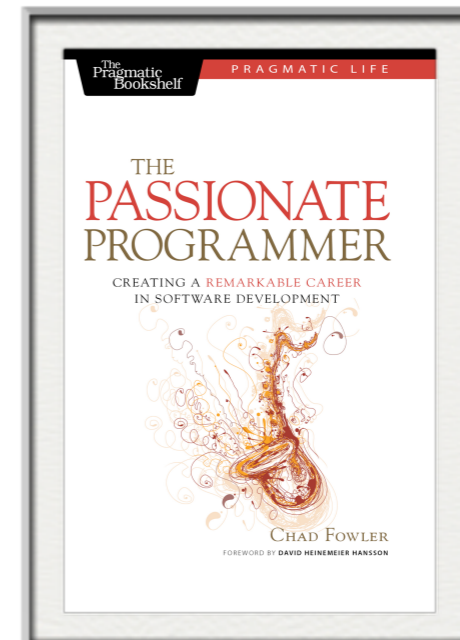
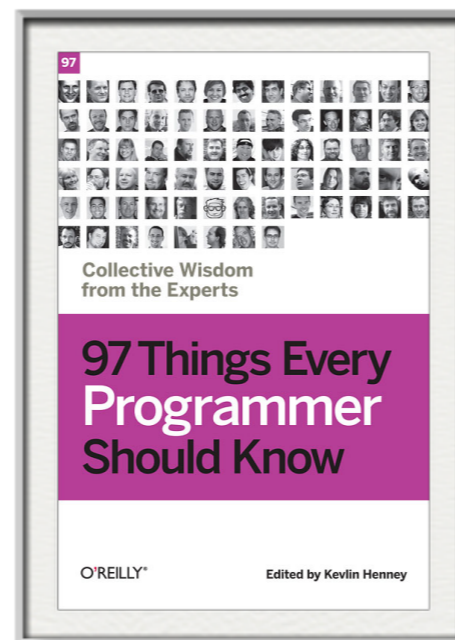
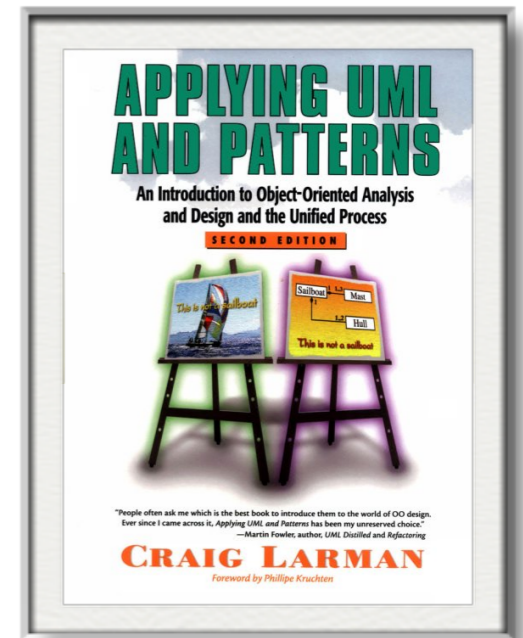
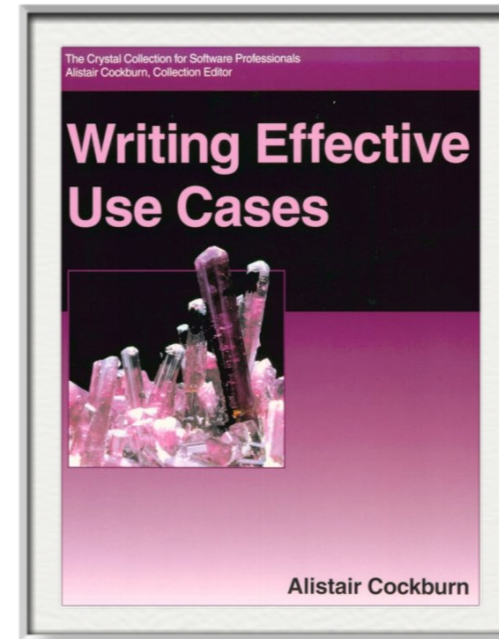
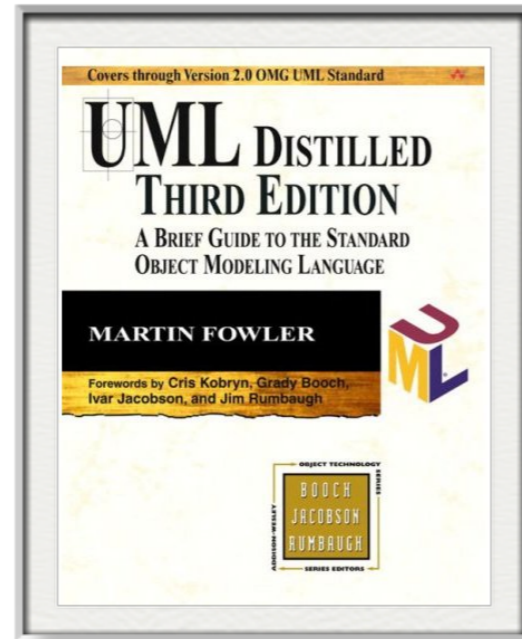
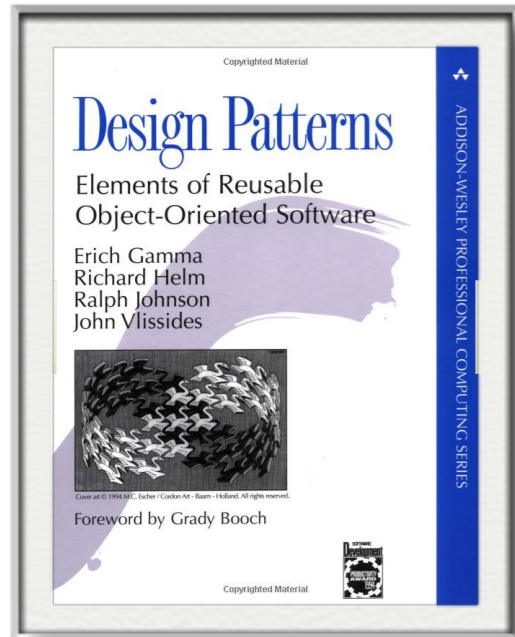
- You can get a bonus by successfully completing the exercise.
- The maximum bonus is equivalent to a full grade (e.g., 2,0 => 1,0).
- You need to achieve at least 25% of all exercise points to get some bonus.
- The bonus cannot be used to pass the exam.



Written Exam

- The exam will be on February, 25th 2016 - 14:30 - 16:00
(The rooms will be announced in the forum. The exam will take 90min.)
- You need to register for the exam in TUCaN
(There are no further prerequisites; "everyone" can attend the exam.)
- The exam will be an open book exam
- The very best students are expected to be able to solve the entire exam

Related Bibliography



Essential Bibliography

- **Design Patterns - Elements of Reusable Object-Oriented Software;** Erich Gamma, Richard Helm, Ralph Johnson, John Vlissides; Addison-Wesley, 1995
- **Applying UML and Patterns - An Introduction to Object-oriented Analysis and Design;** Craig Larman; Prentice Hall

The screenshot shows a web browser window with the URL www.se-radio.net. The page features the **Software Engineering Radio** logo and tagline "The Podcast for Professional Software Developers". A navigation menu includes links for Home, About SE-Radio, Be A Host, Praise, Team, Contact, and Legal. The main content area is titled "Recent Episodes" and highlights "Episode 211: Continuous Delivery on Windows with Rachel Laycock and Max Lincoln", dated September 30, 2014. It includes a photo of the hosts and a brief description of the episode's topics. A sidebar on the right contains an RSS feed icon, the IEEE Computer Society logo, and a promotional box for IEEE Software magazine, which is a proud sponsor of SE-Radio. A search bar is visible at the bottom of the page.



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Recent Episodes

Episode 211: Continuous Delivery on Windows with Rachel Laycock and Max Lincoln

Filed in Episodes by SE-Radio on September 30, 2014 • 0 Comments



Johannes talks with Rachel Laycock and Max Lincoln from ThoughtWorks about continuous delivery on Windows. The outline includes: introduction to continuous delivery; continuous integration; DevOps and ChatOps; decisions to be taken when implementing continuous delivery on windows; build tools on windows; packaging and deploy on windows; infrastructure automation and infrastructure as code with chef, puppet [...]

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Episode 210: Stefan Tilkov on Architecture and

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