

Welcome to
OO Project Course 2016
Joachim von Hacht

Participants

Lecturer, Course responsible, Examiner

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Assistants

- Adam Waldenberg, adam.waldenberg@gmail.com
- Julie Jarmar, juliajarmar@gmail.com
- Christer Carlsson, carlsson@chalmers.se
- Sebastian Blomberg, seblom@student.chalmers.se

... and of course ...

Students

Course has 2 major target audiences

- IT programme year 1
- GU/CS year 2
- Others, year ... ?

Will handle this as a year 1 course!

- GU/CS have heard some of this, possibly will find tempo a bit slow

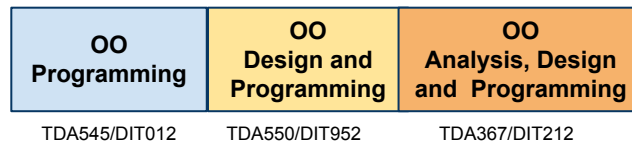
Must have passed TDA545/DIT011 or TDA550/DIT950.

If failed both preceding OO course, this is not a good course to take

- Take any programming (or other useful) course instead!
- IT-program has been informed

Course Position

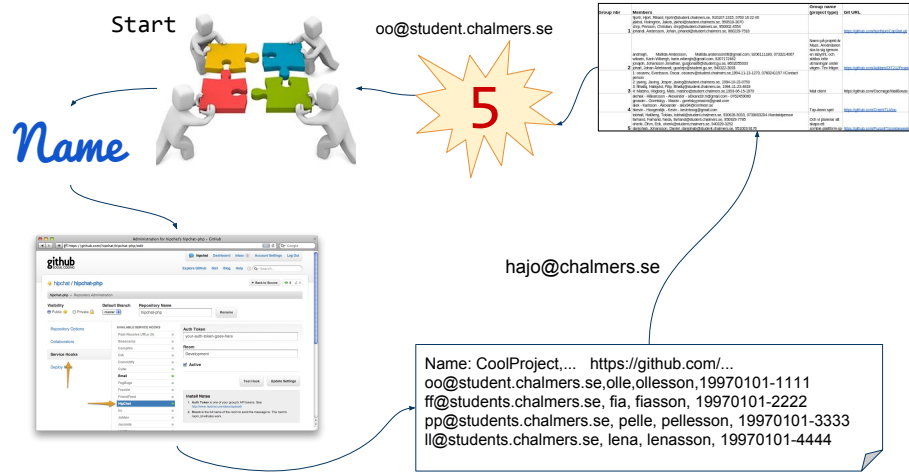
Course is part of the OO-trail



In real life reversed

- First OOA ...
- then OOD...
- and finally OOP

Project Groups



See Course and Project PM for details.

- Must be done NOW (to be able to schedule groups for Thursday)

The Project



You will not be able to finish (you don't need to)

- We expect a prototype (but of course much functionality will impress)
- When is an application finished?

Selected project normally not crucial for the grade

- Almost any project can be "complexified"
- Discuss with assistant
- If in trouble simplify, emulate, ... (should be possible to back to previous version)

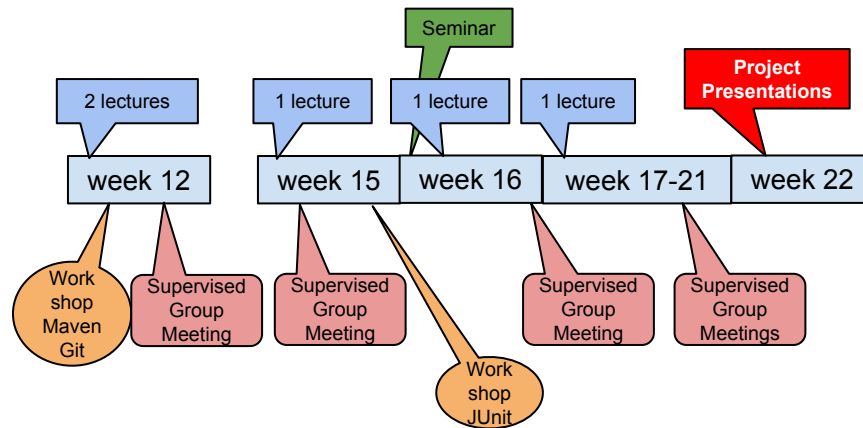
Expected application type is a standalone or mobile with a GUI

- Highest grade can be achieved by this

Of course you may create more technically advanced projects

- But it's not a prerequisite for highest grade

Course Organization



Detailed roadmap on course page (calendar weeks)

Lectures

- The lectures will mostly be a real time demonstration of the software process you are supposed to use
- Some readings to do at home before lecture
- Slides after lecture

Supervised meetings 1h/week. Mandatory!

- Group + Assistant.
- Role of assistant is to help on an overall level (process, design, extensions, simplifications, ...)
- Not a bug fixer (assistants don't know all graphics libraries/physics engines...)
- You are supposed to push ... collect questions
- Any problems: Contact me

Workshops

- To get you going with some tools (Maven, JUnit, Git)
- Some scheduled lab session but should be self instructing
- **Maven Git mandatory, must be presented.**

Begin of study week 3 you will present a preliminary domain model for your application, more to come...

- Short ca 10 min.
- What are we going to do...
- Overview of the analysis model (more to come)

Project presentation (during exam week)

- Presentation is a part of the learning (and the grading)
 - Will give you perspective on your project.
- About 20 min
- See ProjectPM

Grading

“What we appreciate is a well
designed, smart application with
as much functionality as
possible. The look is second as
is overly technical solutions.”
// ProjectPM

Step 1: The project

- The project will get an overall grade
- For criteria see Project PM (course page)

Step 2: Individual

- Each individual will get a grade
- Mostly project and individual grade will be the same but if we see big differences they can vary
- If varying grades the project mean should hold (or be close to)

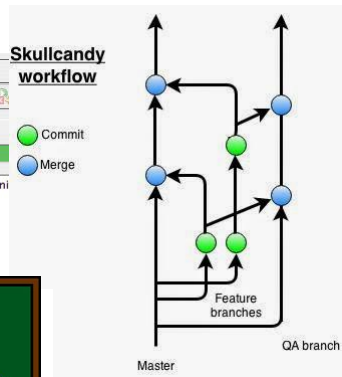
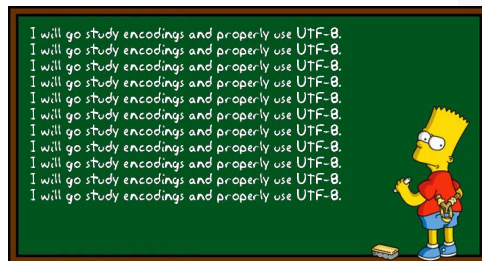
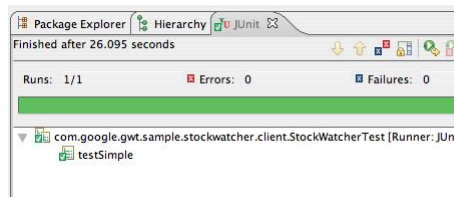
What we expect from each individual

- Actively contribute to the process, attending meetings etc.
 - Ok, with different ambitions, group decide, speak out!
- About 800 SLOC
 - If less add some documentation to explain (hard problems, advanced techniques ... etc.)
- You (and we) must be able to confirm your contributions!
 - Use [gitinspector](#) to check?

Some advices

- **Take turns** when committing to code version handling system
- Annotate classes with **@author** and use "revised by..."
- Document in agendas: Who is responsible for ...
- You must make it possible for us to trace your participation and activity.

Basic Tools



Basic tools involved

- NOTE: All should set default file encodings to UTF-8
- Any IDE supporting Maven projects. Our standard IDE is: [NetBeans](#) 8.x.x. Many tutorials on the Web.
 - To start Netbeans in STUDAT (in terminal, Linux):
`/chalmers/groups/ws-devel/netbeans-8.0.2/bin/netbeans`
- [Maven](#), a project management and comprehension tool. Mandatory (bundled with NetBeans)
- [Gradle](#), also a project management tool (optional)
- [Git](#), a distributed version control systems (VCS). Mandatory
 - Being able to handle Git may be critical to the project (disasters may happen)
- [JUnit](#), unit test framework. Mandatory (bundled with NetBeans)
- More optional tools later ...

Questions

