

Welcome to  
OO Project Course 2017  
Joachim von Hacht

# Staff

Lecturer, Course responsible, Examiner

- Joachim von Hacht, [hajo@chalmers.se](mailto:hajo@chalmers.se)

## Assistants

- Adam Waldenberg
- Jacob Jarmar
- Christer Carlsson
- Joel Hultin

# Students

Course has 2 major target audiences

- ChI/IT programme year 1
- GU/CS year 2

Will handle this as a year 1 course!

- Others possibly will find tempo a bit slow

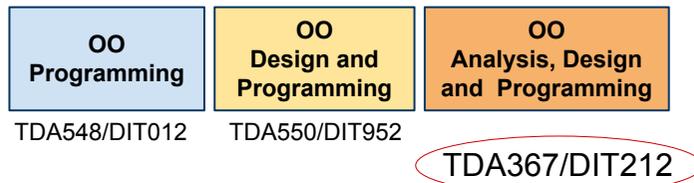
Must have passed TDA548/DIT012 or TDA550/DIT952.

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



Will use knowledge from DAT216 (GUI)

In real life reversed

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

# Course Content

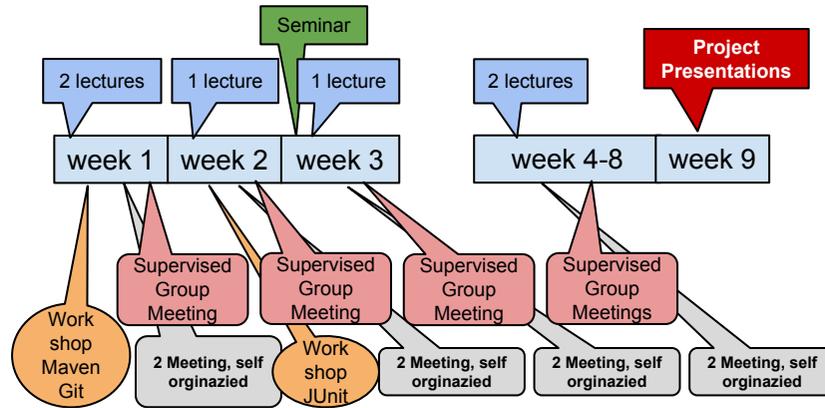


See Course Page  
> Projekt och  
Grupper >  
Projekt PM

Participating in a group (of 4 students) you will follow a software process to deliver an application (of your choice).

- Expected application type is a standalone or mobile with a GUI

# Course Organization



Roadmap on course page

# Lectures

Will run “the course” software process

- Introduces concepts
- Remarks on design ...
- Slides after lecture

Not many new programming concepts

- In this course you should exercise your programming skills (so far)
- More on design: Modules, Dependencies, MVC, ...

# Group Meetings with Assistant

Groups meets assistant 1h/week

- Help with process, advice in design, documentation, etc. ...  
not a bug fixer
- You are supposed to push!
- Any problems: Contact me!

**Meetings Mandatory (and on time)!**

# Group Meetings Self Organized

Groups should have a 2 documented meeting/week

- I will help group, ... keep focus

**Mandatory!**

# Workshops

## Workshops

- Kickstart for tools
- 2h/sessions, optional

## Week 1: Git and Maven

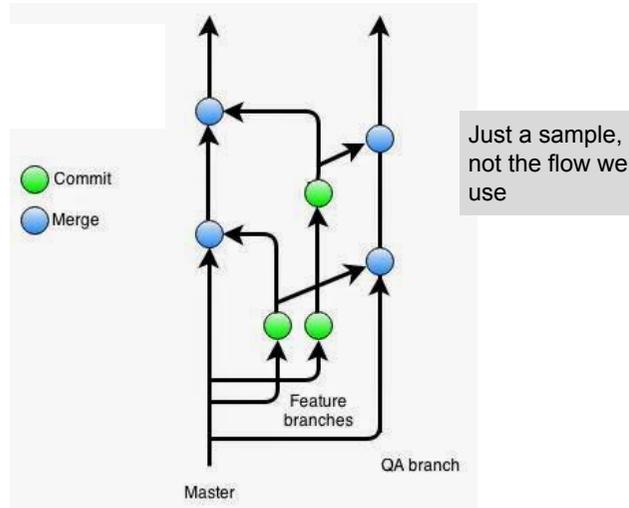
- Use: UTF-8!

## Week 2: JUnit

## Other nice tools (no workshop)

- Quality tools like: STAN, Findbugs, PMD, Jacoco, ...
- Process support: Task lists, UML drawing, etc.

# Git Workflow



Git mandatory.

- Must use Git in a disciplined way
- All members should use a (the same) workflow (more in workshop)

# Maven and Gradle

```
<dependency>
  <groupId>com.thoughtworks.xstream</groupId>
  <artifactId>xstream</artifactId>
  <version>1.4.7</version>
  <type>jar</type>
</dependency>
<dependency>
  <groupId>org.projectlombok</groupId>
  <artifactId>lombok</artifactId>
  <version>1.16.6</version>
</dependency>
<dependency>
  <groupId>commons-io</groupId>
  <artifactId>commons-io</artifactId>
  <version>2.2</version>
</dependency>
</dependency>
```

Modern software development is highly dependent on libraries (API)

- First thing to investigate if some need: Is there a library/API?
- Potentially very complex to handle because of transitive dependencies (libraries depend on other libraries, that depends on ...)
- By using build automation software to handle libraries/APIs needed by our application we greatly reduce the problems!
- We accept: Maven and Gradle

# Seminar

## Seminar

- Early week 3
- All groups present their (first) domain model
- 10 min/group
- Quiz Based (i.e. Guess what this is ...)

# Project Presentation

- Demo run application
- Technical walkthrough
- Answer questions (from audience)
- Act as opponents for other group
- ~ 20 min./group

For IT: In collaboration with LSP 310

# Questions

