# Software Engineering and Architecture Agile Development Tools

Olivier Liechti HEIG-VD olivier.liechti@heig-vd.ch





# Planning

Date		Theory	Practice
20.09.12	agile	Introduction to agile & scrum	
27.09.12	agile	Agile development tools	Agile development tools
04.10.12	agile	User Stories	Guest speaker (Lotaris)
11.10.12	agile	The Product Owner	Presentations Agile Development Tools
18.10.12	agile	Lean Development	Guest speaker (Octo)

01.11.12	agile	Continuous Delivery	Lab
08.11.12	architecture	Development in and for the Cloud	Guest speaker (Cloudbees)
15.11.12	architecture	Behavior Driven Development (BDD)	BDD lab
22.11.12	architecture	BDD lab	BDD lab
29.11.12	evolution	Software Evolution	Guest speaker (Sonarsource)
06.12.12	evolution	00 Reengineering	Presentations BDD
13.12.12	evolution	Intro to Repository Mining Lab	Repository Mining Lab
20.12.12	evolution	Repository Mining Lab	Repository Mining Lab

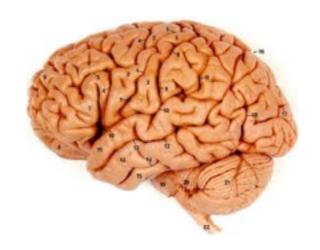
10.01.13	architecture	Domain Specific Languages	Lab
17.01.13	architecture	The design of APIs	Guest speaker (Evrythng)
24.01.13	evolution	Repository Mining Presentations	Repository Mining Presentations



# Common needs of software development teams...

- You need to keep track of features and requirements.
- You need a way to manage your code base and related artifacts.
- You need to keep track of issues and bugs.
- You need a way to automatically build, test, deploy your software.
- You need a way to document the various elements of your software and development process.





keep track of features

manage your code base

document various elements



## Atlassian

#### Who is Atlassian?

- A company established in 2002, which offers an integrated suite of software development tools.
- "We are 400 geeks, beer drinkers, nerf herders, fraggers, and Wolverine-wannabes. Come on in and say hi."
- http://www.atlassian.com/

### Why Atlassian?

- The core projects, which include Jira, Confluence and Greenhoper are extensively used in the industry and in open source communities.
- The products can be deployed **on premise** or used **in the cloud**. Doing an **evaluation** is quick and easy.



## Atlassian Products





Collaboration tool for teams to create, share, and discuss rich content - docs, files, ideas, specs, diagrams, mockups, anything.





Store all of your Git and Mercurial source code in one place, in the cloud, with free unlimited private repositories. Includes issue tracking, wiki, and pull requests.



#### TreenHopper AGILE PROJECT MANAGEMENT

Agile project management for Scrum or Kanban teams.



Project tracking for great product teams. Track anything issues, bugs, tasks, deadlines, code, hours - to stay on top of every team's activity.



#### BROWSE & SEARCH CODE

Browse, search, and track your source code repositories.



#### CONTINUOUS INTEGRATION

Continuous integration, continuous deployment, and release management.



# Instructions for next week (1)

- Explore the online documentation & demo (1 hour):
  - Watch the **JIRA demo** (23:32) at <a href="http://www.atlassian.com/software/jira/demo">http://www.atlassian.com/software/jira/demo</a>.
  - Explore the Jira and Greenhoper pages. When you read the description of the features, think about what we have seen about Scrum.
  - Go through the **Confluence** pages on the web site.
- Register and setup an evaluation account (hosted)
  - You can evaluate Confluence, Jira and Greenhoper for free, using their OnDemand offering. You need to provide credit card information, but if you cancel your subscription you will not be charged.
  - Doing a local installation takes about 15 minutes and is also possible.



# Instructions for next week (2)

- Prepare a 15' presentation focusing on Greenhoper (and Jira), with a demo:
  - Imagine that you have to convince your management that Greenhoper will be useful for your team.
  - Explain the product concepts and show how they work.
  - Note: your management may not be very familiar with Scrum, so you need to capture the essence of the process in your talk).
  - Think of a demo scenario and prepare some data (you'll need to show a backlog, story cards, charts, etc.).
  - You may also look for some open source projects that use Jira & Greenhoper to have some data.
- We will listen to a few of your presentations on October 11th.