Hasso Plattner Institut

IT Systems Engineering | Universität Potsdam

Tipps & Tricks
Scrum and Tools

Softwaretechnik II 2012/13

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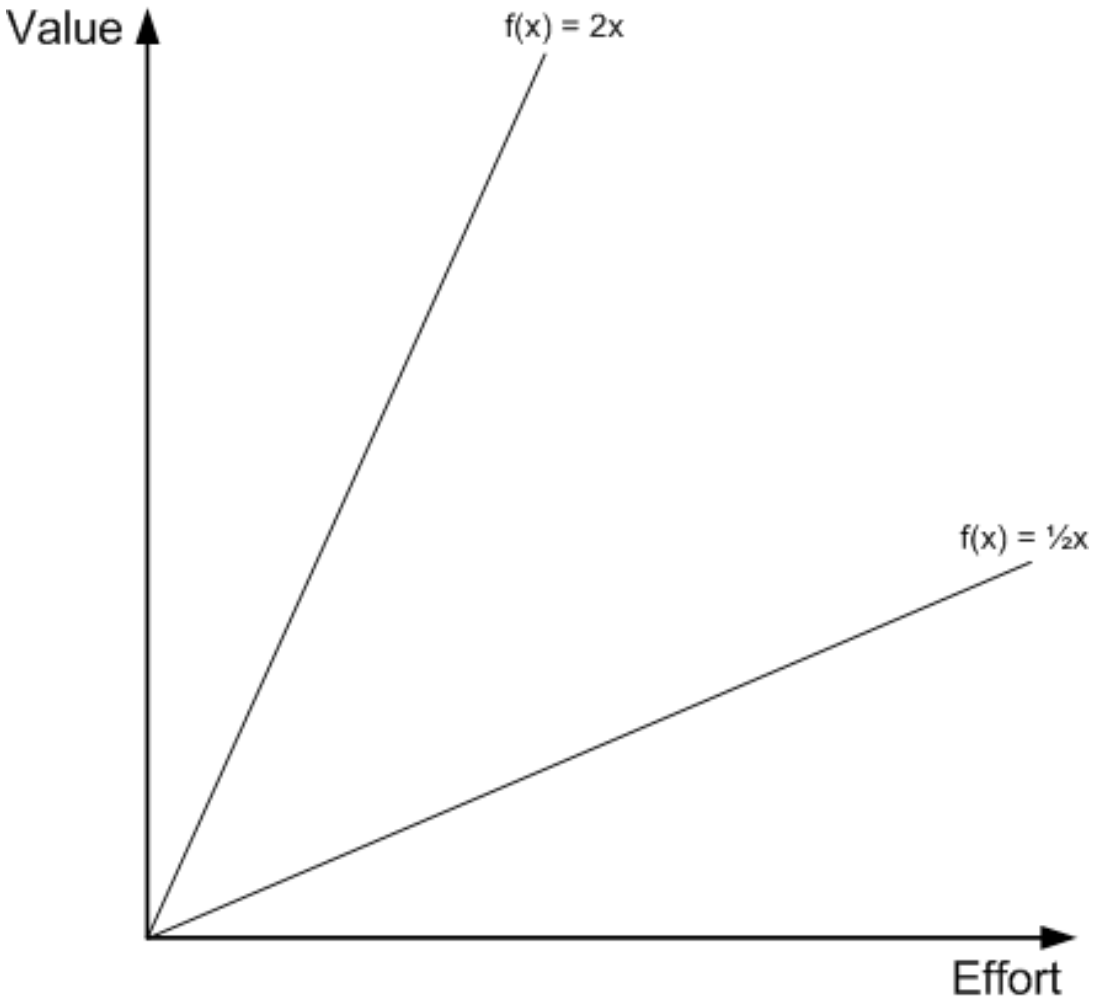
Value-based Requirements Analysis

- Requirements are often analyzed in a value-neutral environment [Boehm, 2006]
- 80% of the value is expressed in 20% of the requirements (Pareto principle) [Koch, 1998]
- A value-oriented approach is more appropriate
- How to do that?
  - Estimate value of a requirement to the stakeholders
  - Estimate effort to implement a requirement

Value-based Requirements Analysis



Implement: Above 2x
Skip: Below 1/2x
In-between: Review

Whole truth?
Beware of dependencies!

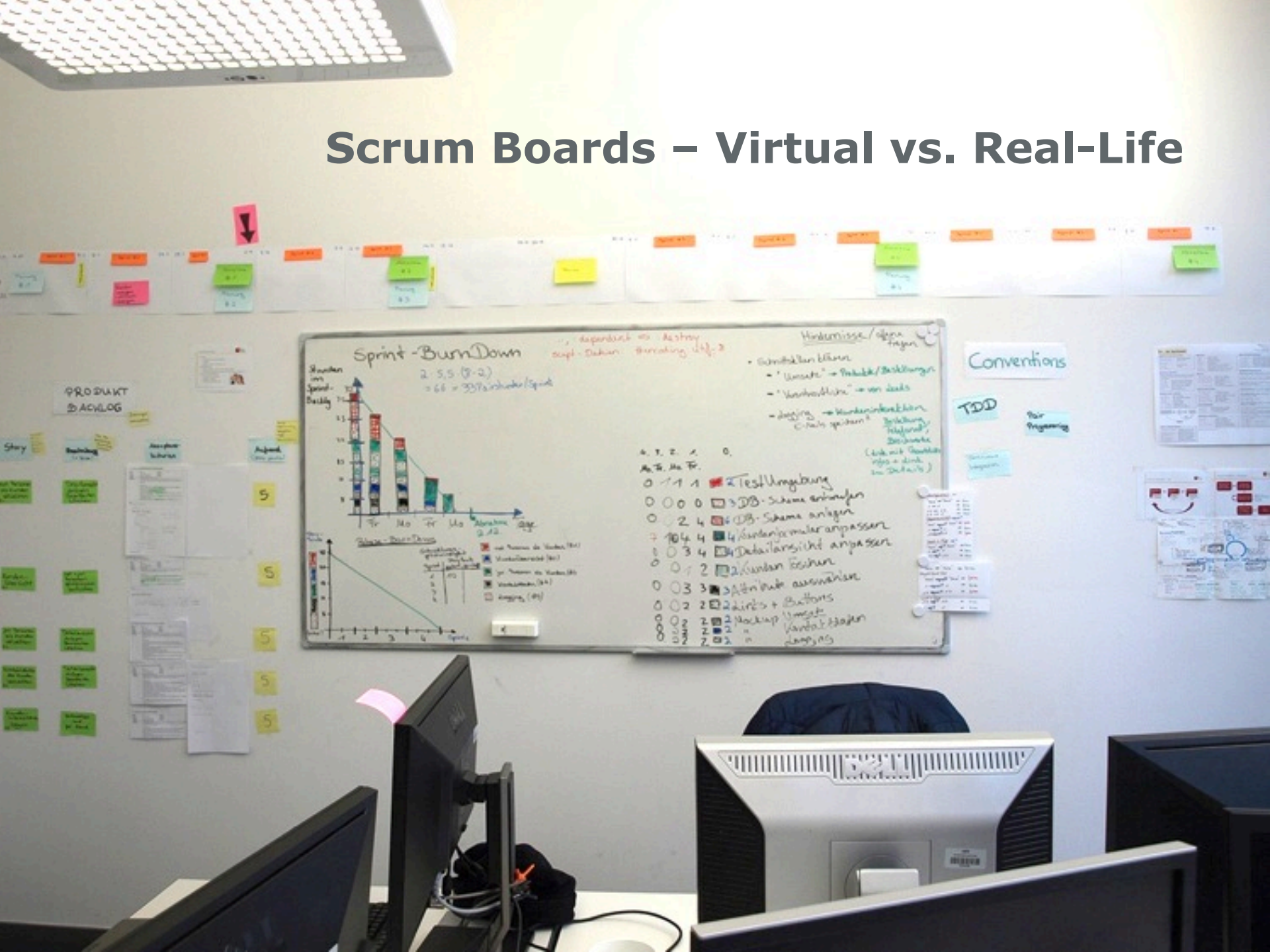
Estimating Large Backlogs

- Bucket Estimation (Jukka Lindström)
  - Create physical buckets based on examples (2-3 per bucket)
  - Assign items to buckets one by one by
    - Comparing & Discussing
    - Planning Poker
- Affinity Estimation (Lowell Lindstrom)
  - Read each story to the entire team
  - Arrange stories horizontally based on size (no talking!)
  - Place Fibonacci numbers above the list
  - Move each story to the preferred number

Ambassadors

- Mutual Exchange of team members
  - Improves efficiency of communications
  - Allows deeper understanding of problems
  - Prevents coordination problems early in the process
- Ambassadors should be fully integrated team members
- Especially useful for API development, Design, etc.

Scrum Boards – Virtual vs. Real-Life



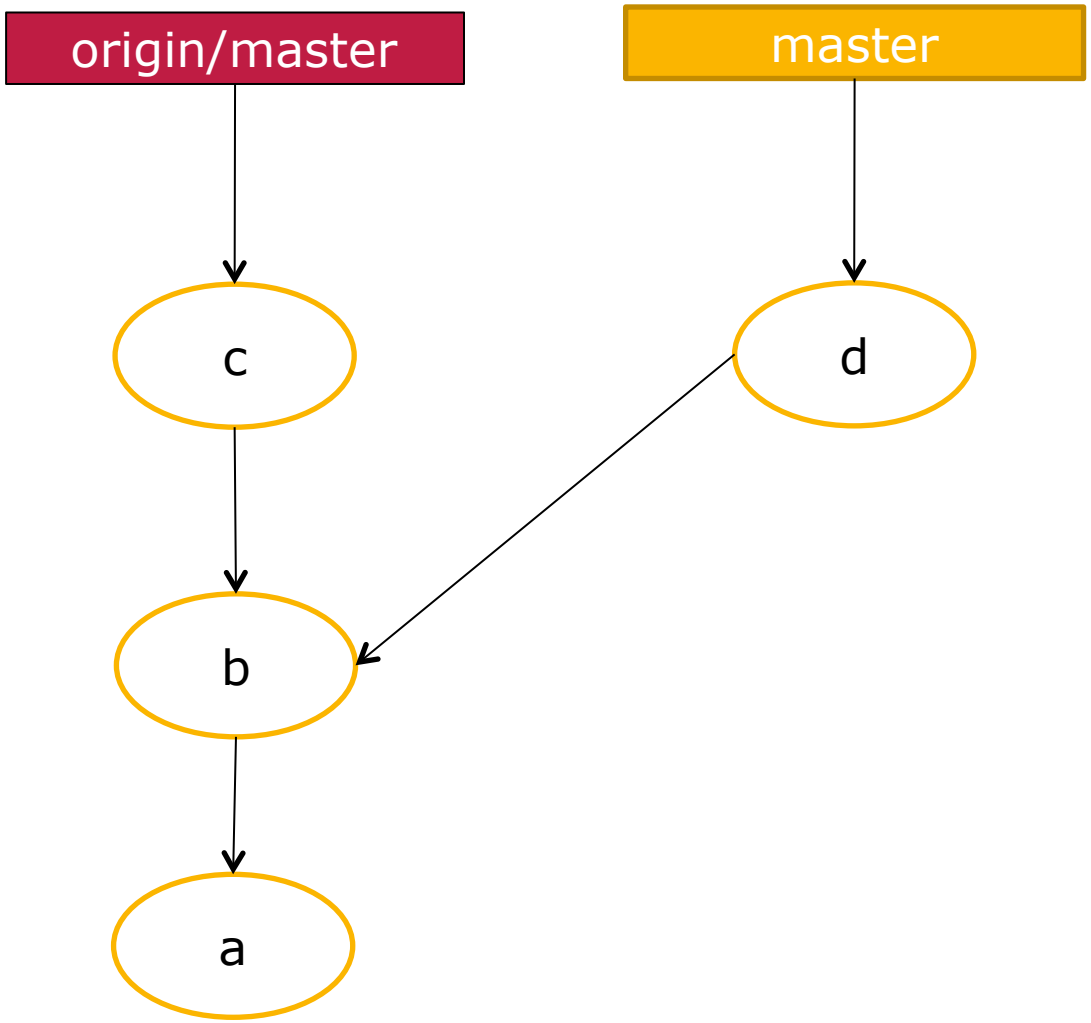
Tooling suggestions

- GIT
  - GitX, TortoiseGit, SourceTree, Tower, SmartGit
- Editors/IDEs
  - TextMate, Emacs, Vim, Aptana, Sublime
- Convenience Tools
  - Mylyn, JenkinsMobi, IRC
- Others?

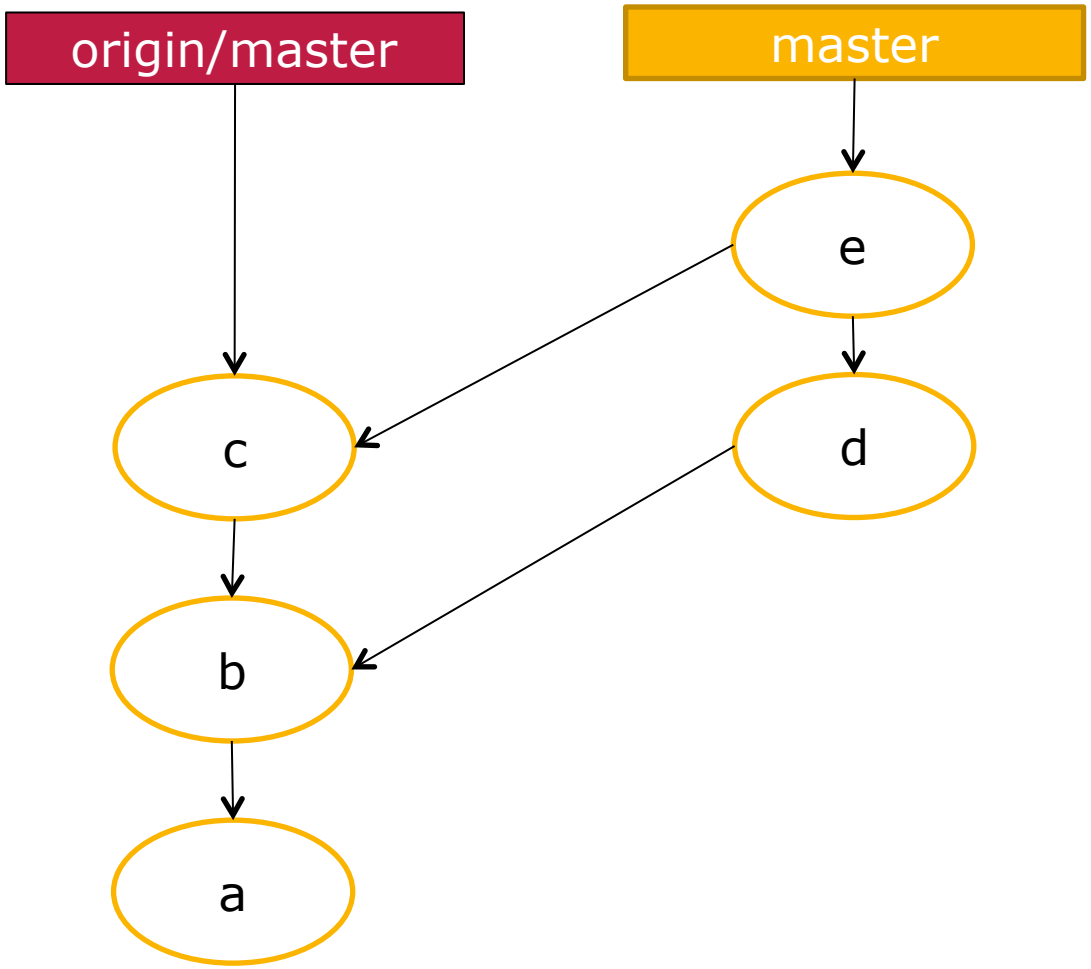
Mylyn How-To

- Install Mylyn
  - Help -> Install New Software -> Add Site
  - http://download.eclipse.org/mylyn/releases/latest
- Install Redmine Mylyn Plugin
  - http://redmin-mylyncon.sourceforge.net/update-site/N/
- Enter Task Repository View and add new Task Repository
  - Window -> Show View -> Task Repositories
  - Right Click -> Add Task Repository
- Enter Redmine Data and Create Queries
  - Redmine -> My Account -> API Access Key
  - Task List: Window -> Show View -> Task List
  - Right Click -> New -> Query …

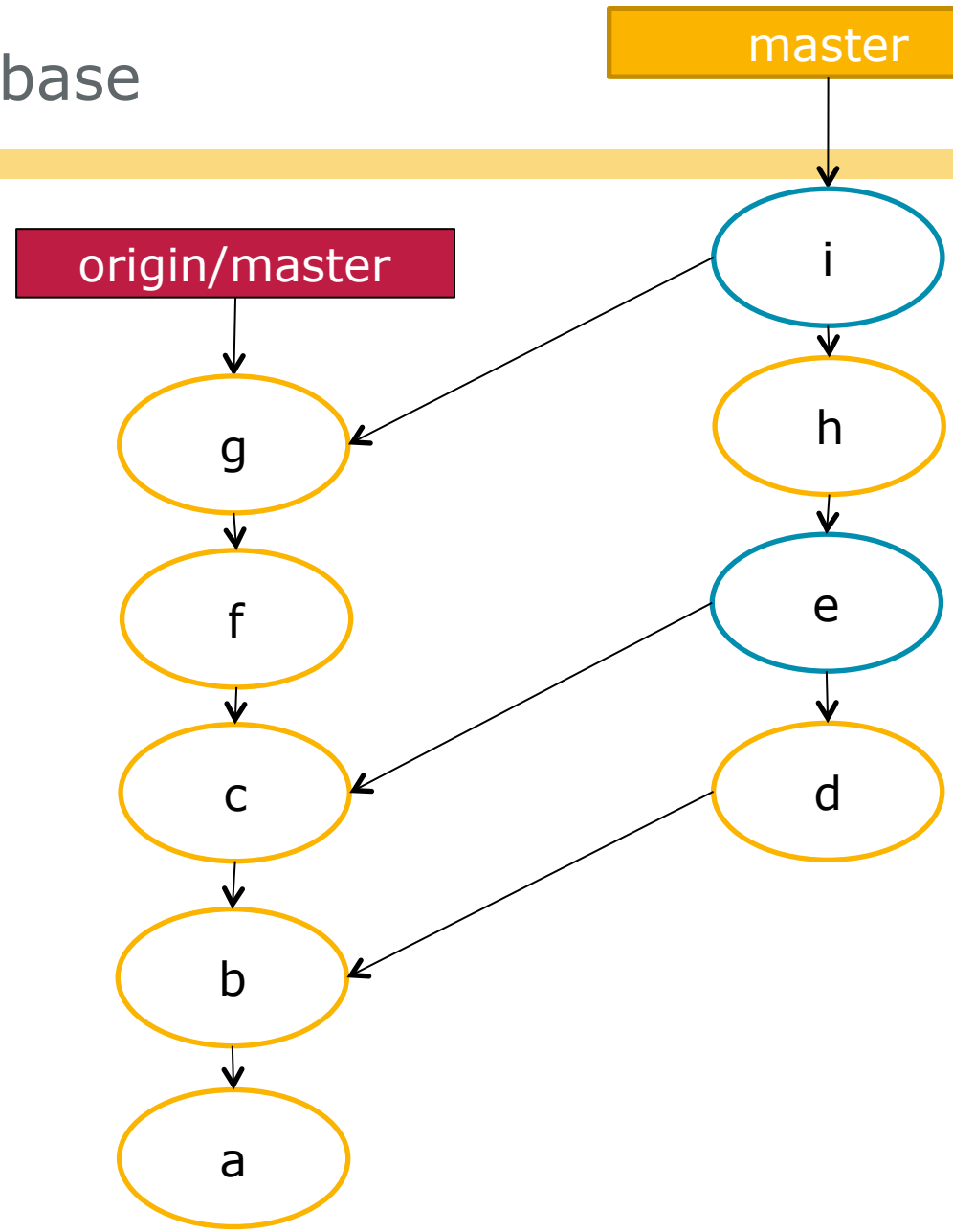
Git Rebase



Git Rebase

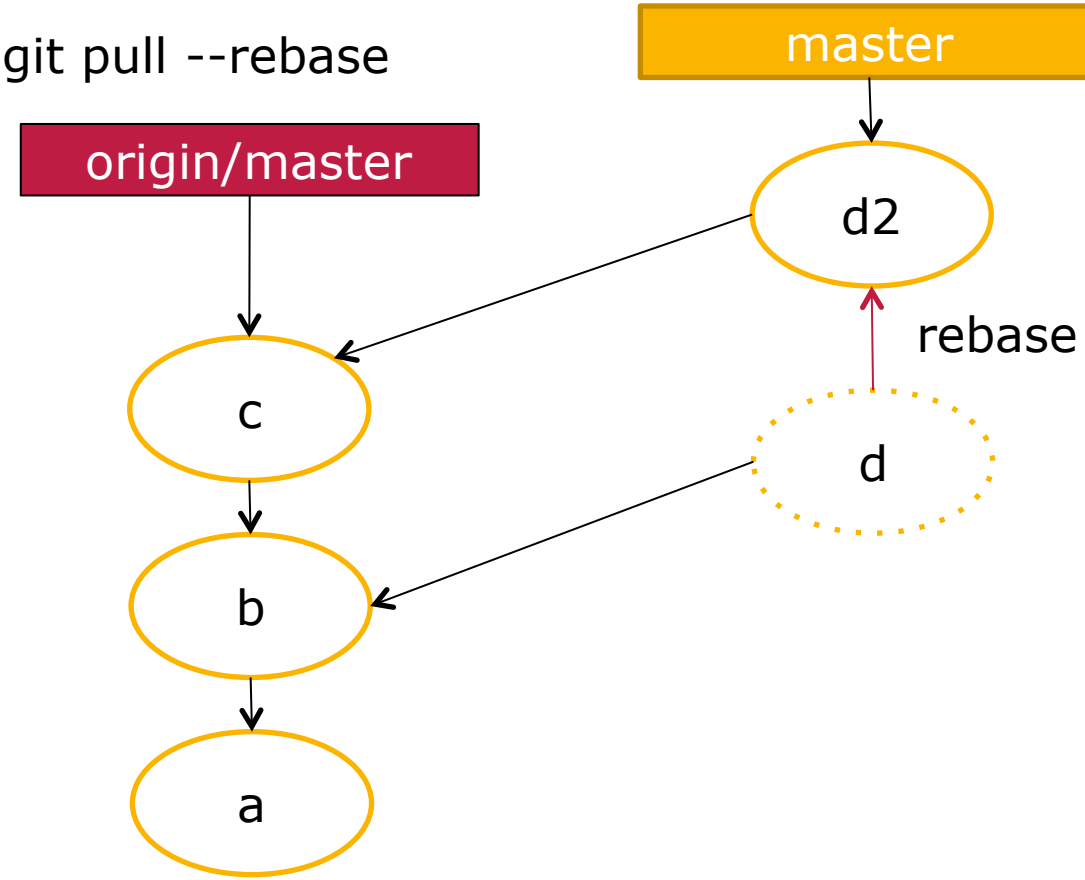


Git Rebase



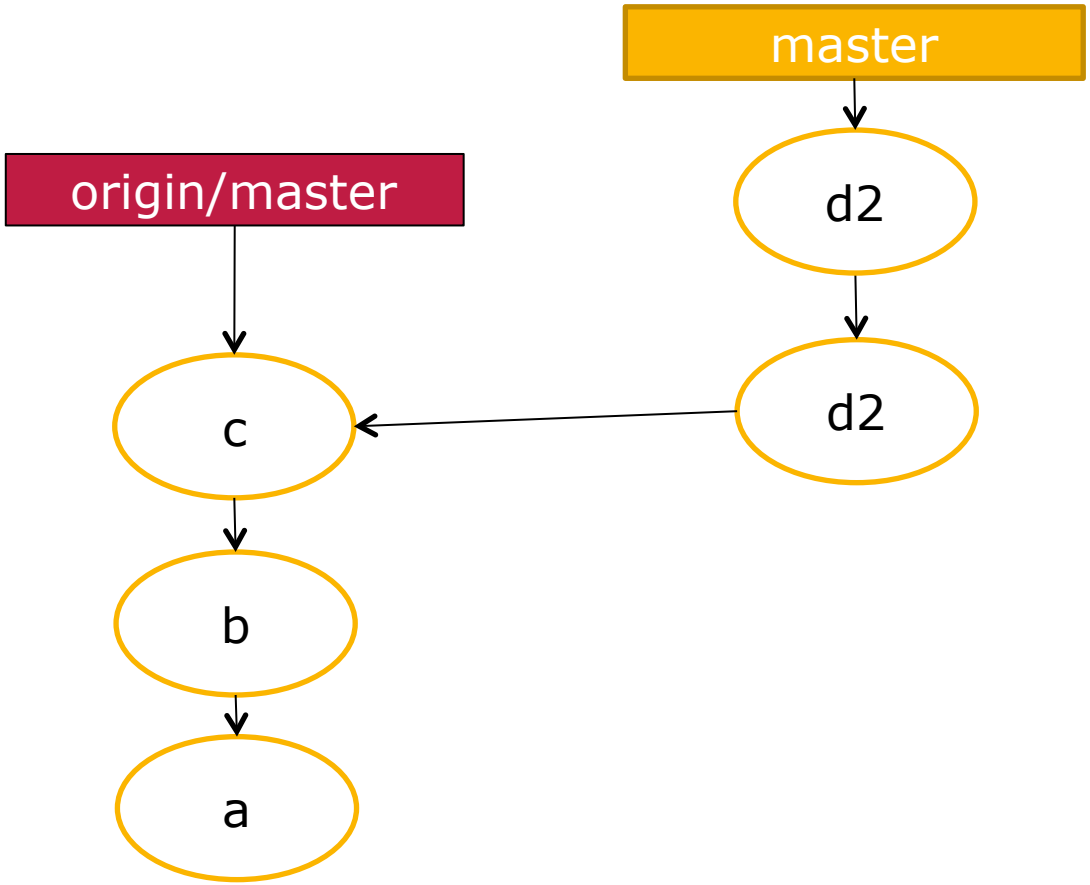
Git Rebase

- Problem: History is becoming cluttered with merge commits
- Solution: git rebase <branch>
- Tip: git pull --rebase



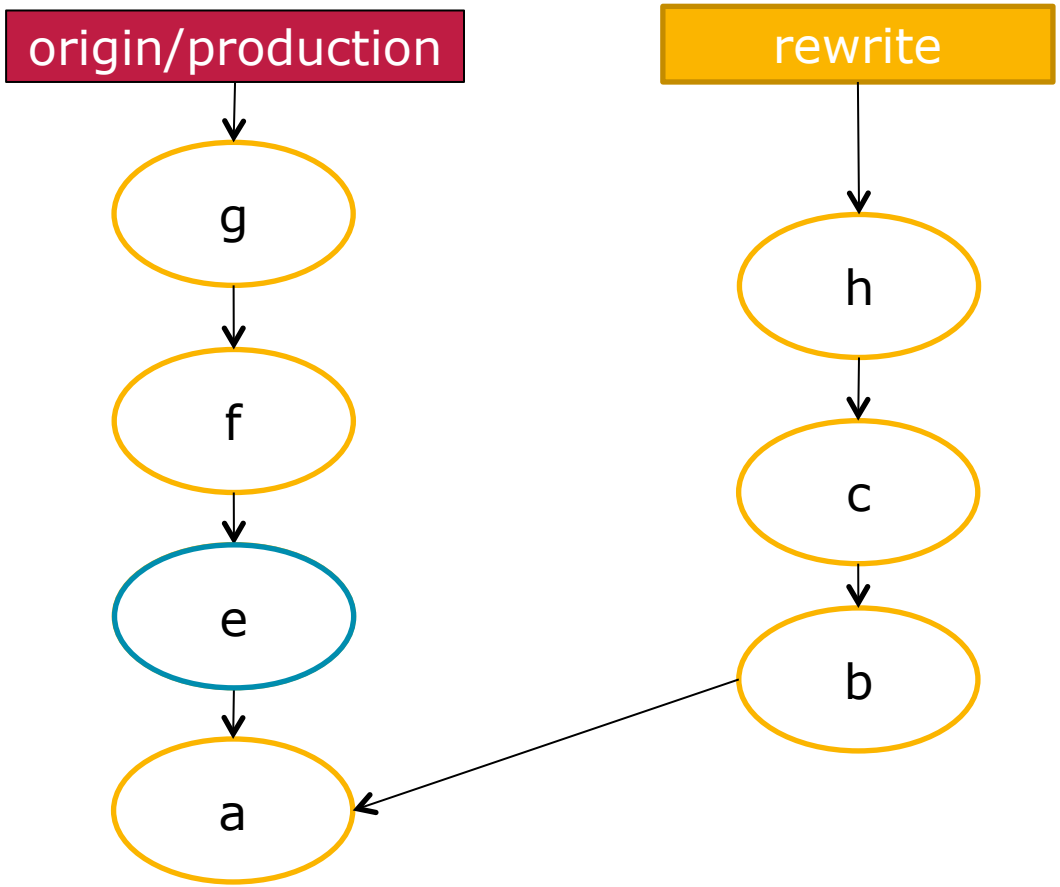
Git Rebase

- Don’t rebase branches that other people have created commits upon -> extra work guaranteed



git cherry-pick

- Problem: How to get changes from other commits without having to merge entire branches



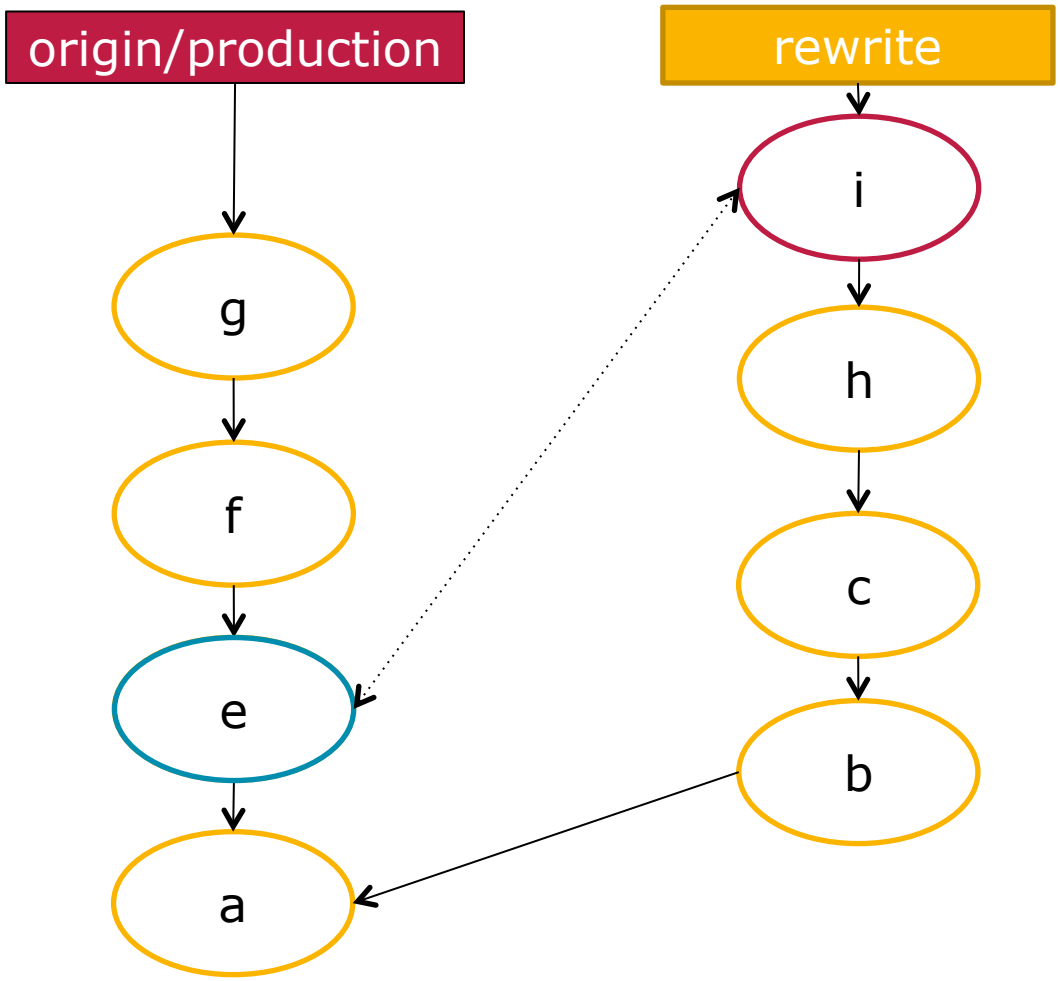
git cherry-pick

$> git log

```
commit 2fbe69ff6cf26d8f152a8b9e538fbcbe581482ce
Author: Thomas Kowark <thomas.kowark@googlemail.com>
Date:   Mon Oct 1 17:13:34 2012 +0200

    fixed plugins

commit a9f17fab655ad6ef60a168d0c77915209e1f76f5
Author: Thomas Kowark <thomas.kowark@googlemail.com>
Date:   Thu Sep 20 15:36:28 2012 +0200

    fixed nasty bugs in name obfuscation
```

$> git cherry-pick 2fbe69f

git cherry-pick



Outlook

- Dec 21, time for exercise
- Jan 4, time for exercise
- Jan 11, Application Deployment, Performance Testing, Code Reviews
- Jan 18
  - 1st lecture: Co-located Sprint planning
  - 2nd lecture: Mason Womack, Immobilienscout 24

Thanks for your effort and see you next year!