
The UPL Video Lecture Series

euphorically presents ...

git, GitHub, and you



By Leo LOZORD Rudberg

About me*

- Junior undergrad at UW-Madison
- Studies Computer Science and Mathematics
- Interests: SWE sanity, futurism, donuts



*Not this cool IRL

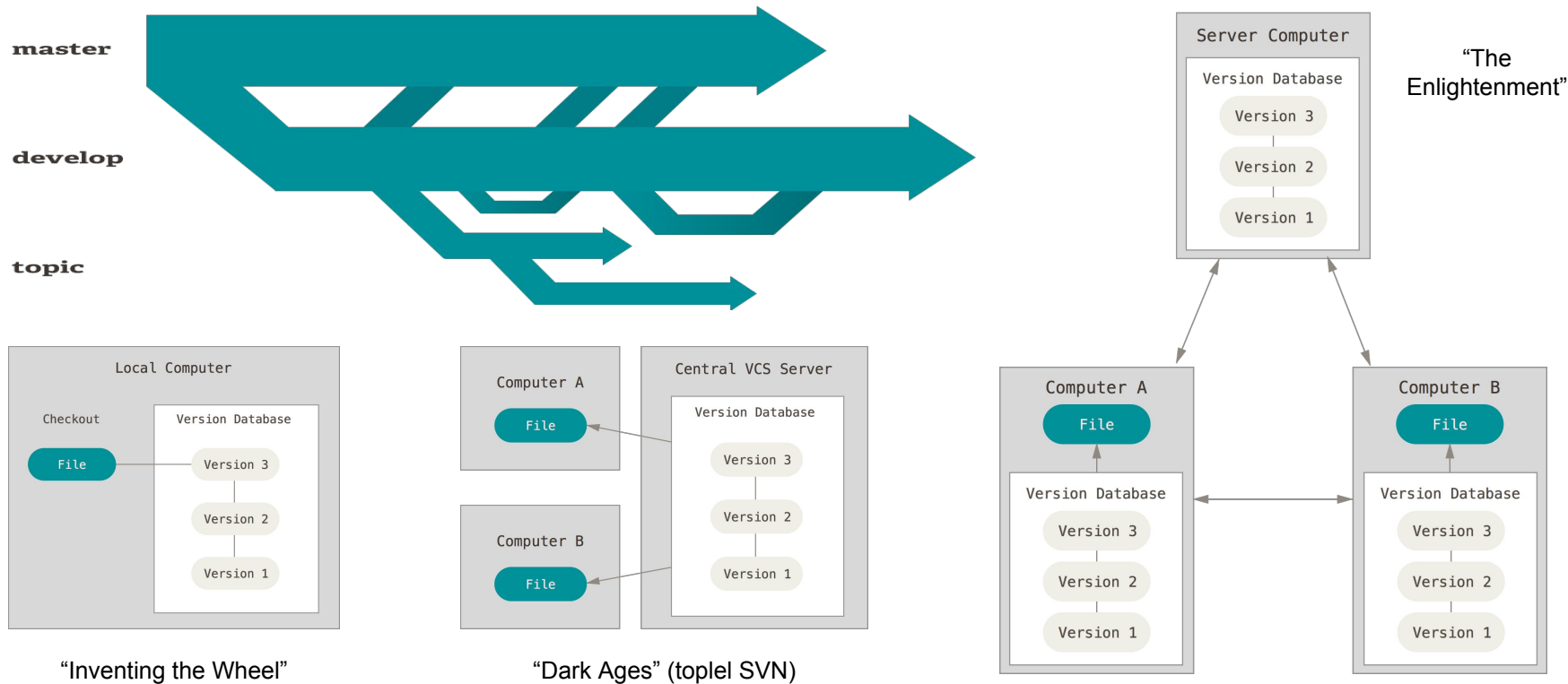
About you

- Likes computers
 - Likes working on software projects
 - Interested in stepping up yo' hacker game
 - Tolerates bad puns and dorky presentations
 - Enjoys learning and practicing powerful concepts and tools
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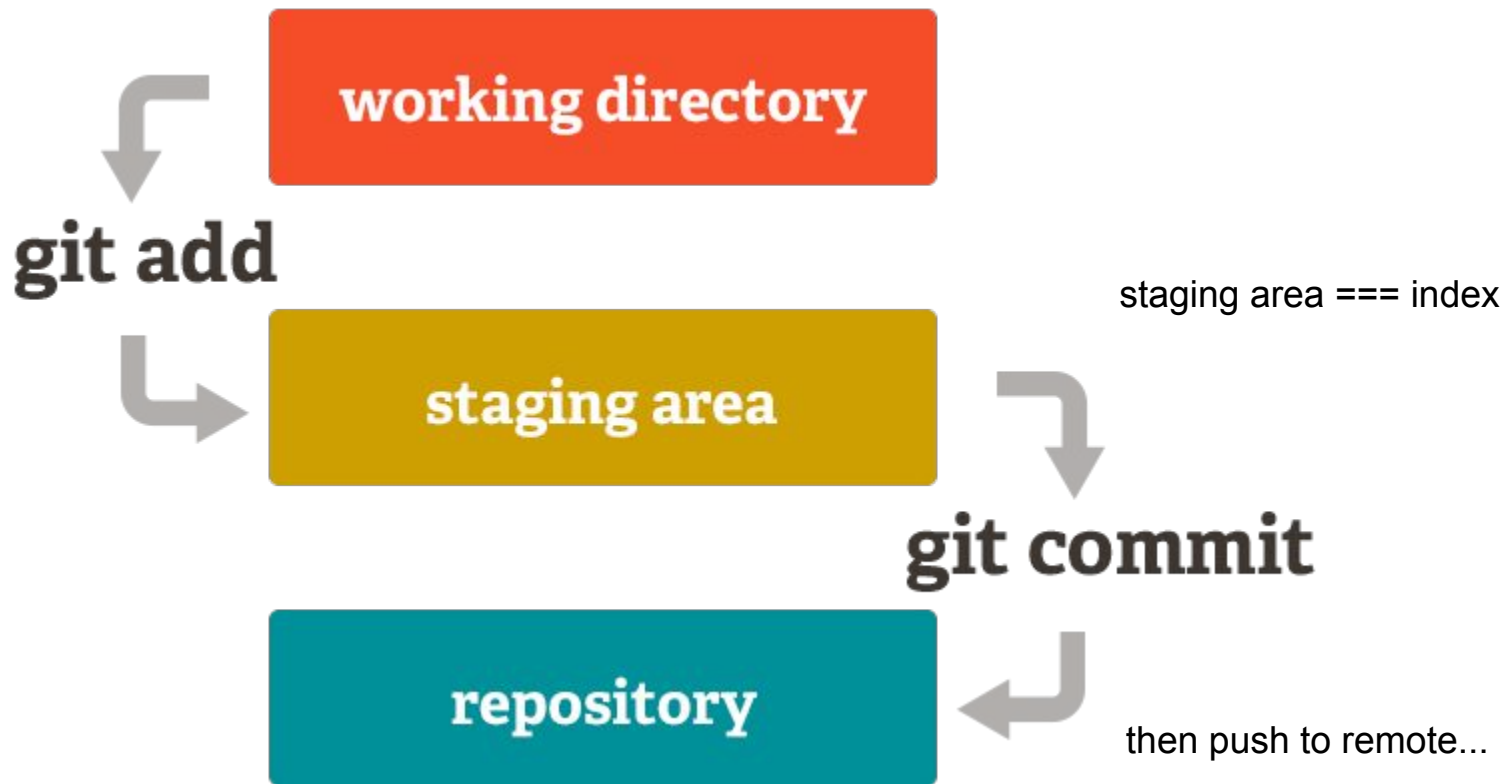
git log --history

- Originally created by Linus Torvalds (Linux guy) in 2005
 - Free and open source under GPL
 - Most popular source control management tool (SCM) tool today (sorry SVN, Hg, etc.)
 - Distributed!
 - git-scm.org is awesome!
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git === distributed



The Workflow



GitHub

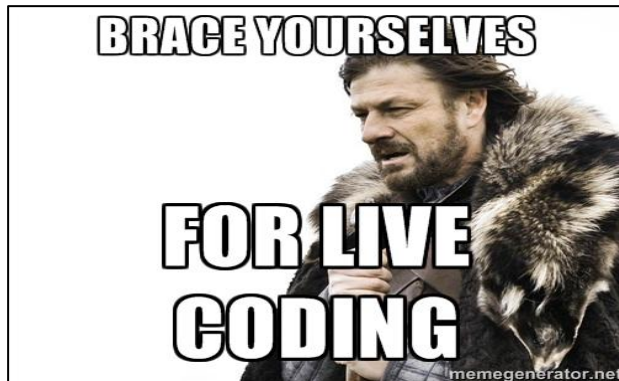
- Began in 2007
 - Layer on top of git
 - Repo (project) and org hosting
 - Free public hosting (and free private options for students!)
 - git GUI for Mac, Linux, and Windows
 - gists, graphs, and more!
 - [Bitbucket](#) is also great!
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How can SCM improve my life?

- Collaboration for school and hack projects
 - “Oh crap” moments
 - History for your project (`git log` and `git blame`)
 - Portability (`git clone`)
 - Different branches
 - Easily integrated into workflow
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Let's get this party init'd!

- Download git (check if you have it first!)
- Stay tuned for live demo! (<https://gist.github.com/LOZORD/3f4271e461f6d8aaa99d>)
- Other great sources:
 - [Try Git](#)
 - [git-scm.org's tutorial](#)
 - [Git - The Simple Guide](#)
 - CS 506 (SWE)
 - Stack Overflow
 - Your friendly neighborhood hacker



Topics:

init, status, add, commit, push, pull, checkout, branch, merge, mergetool, log, reset, clean, gc, clone, blame