

Social Coding

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What is Social Coding?

- Version control
- Collaboration
- Source code browsing
- In-line commenting
- Wiki
- Issue/bug tracker



Common Social Coding Sites

- Github.com (free for public)
- Gitorious.org (open source)
- Sourceforge.net
- code.google.com



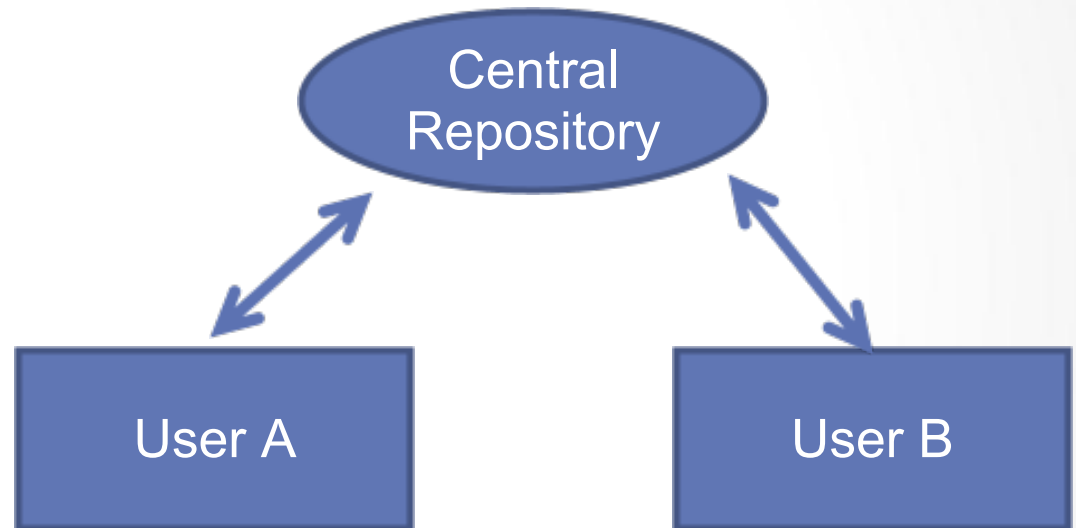
Version Control Systems – A Brief History

- Patches (none)
- CVS/SVN (centralized)
- Git/Mercurial (distributed)



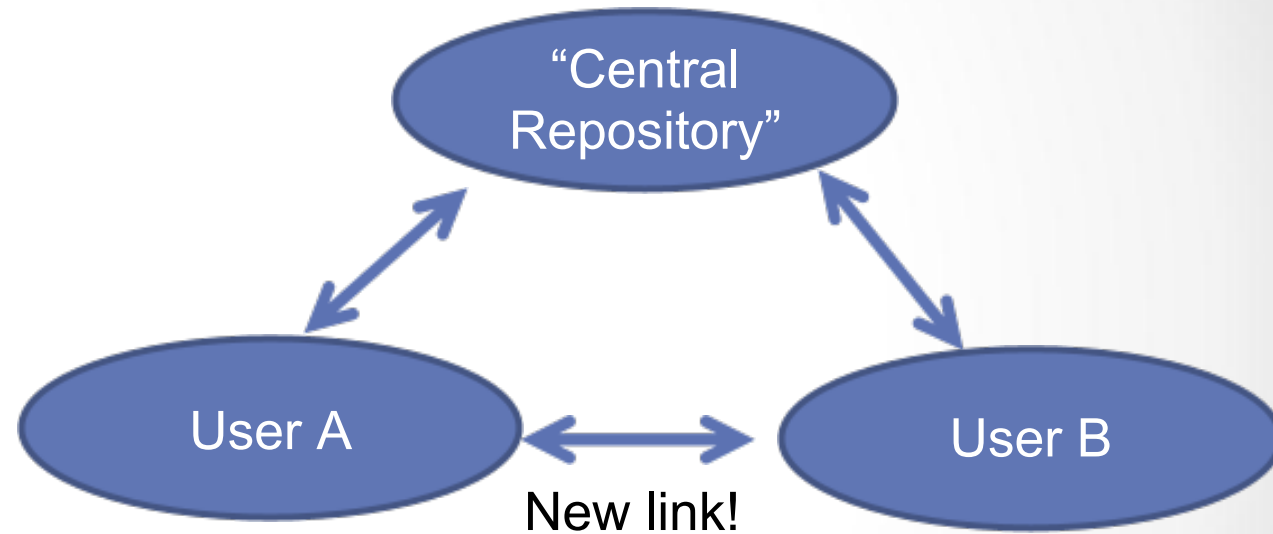
Centralized Version Control

- Users can “publish” code to a central repository
- Users can get the code from the central repository
- CVS and SVN



Distributed Version Control

- There is no “central repository”
- Typically one computer is designated as the “official” computer, but it is no different than any other user
- Git and Mercurial



Branches

- Work on different “projects” without affecting other “projects” in the works
- Submit a branch for easy code review
- Systems like Gerrit

Conflict Resolution

- Usually a manual process
- Commit as frequently as possible to avoid conflicts
- Use clear commit messages

Great step-by-step tutorials

<http://nathanj.github.com/gitguide/tour.html>

<http://help.github.com/win-set-up-git/>