

Revision Control

(short version)

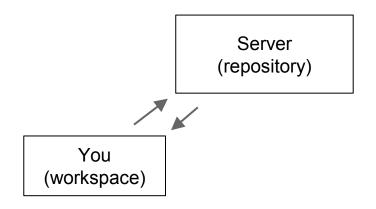
Andrew Haydn Grant Technical Director MIT Game Lab September 10, 2014



TLAs

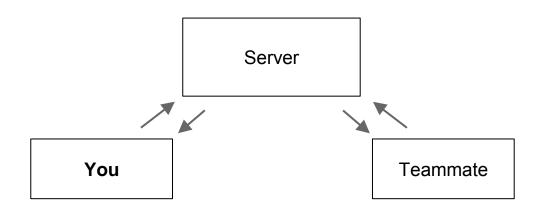
- RCS Revision Control System
 - aka Source Control Management (SCM)
 - aka Source Control
 - aka Version Control
- cvs Concurrent Versions System
- svn Subversion
- p4v Perforce
- git Git
- hg Mercurial





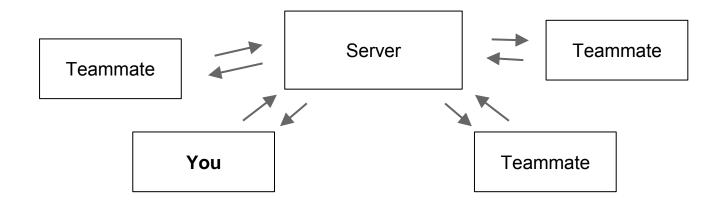
- You copy files from a central server
- You make changes to your local files
- You copy files to the central server





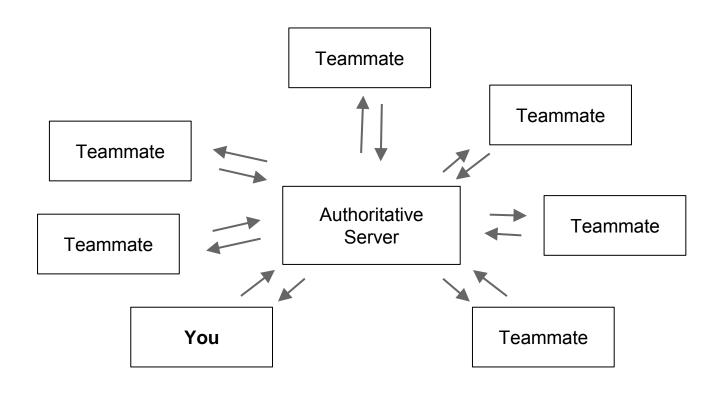
- You copy files from a central server
- You make changes to your local files
- You copy files to the central server





- You copy files from a central server
- You make changes to your local files
- You copy files to the central server







- A backup system
- A way to share code
- A history of your project
- An undo button
- A way to simultaneously edit the same files



- Copy from server
- Submit changes to server
- Check status of local files
- Lock files so no one else can change them
- Compare different versions of the same file
- Merge changes by two different people



- Copy from server
 - aka get update pull checkout revert (down)
- Copy changes to server
- Check status of local files
- Lock files so no one else can change them
- Compare different versions of the same file
- Merge changes by two different people



- Copy from server
- Copy changes to server
 - o aka submit commit put push checkin (up)
- Check status of local files
- Lock files so no one else can change them
- Compare different versions of the same file
- Merge changes by two different people



- Copy from server
- Copy changes to server
- Check status of local files
 - aka status
- Lock files so no one else can change them
- Compare different versions of the same file
- Merge changes by two different people



- Copy from server
- Copy changes to server
- Check status of local files
- Lock files so no one else can change them
 aka lock
- Compare different versions of the same file
- Merge changes by two different people



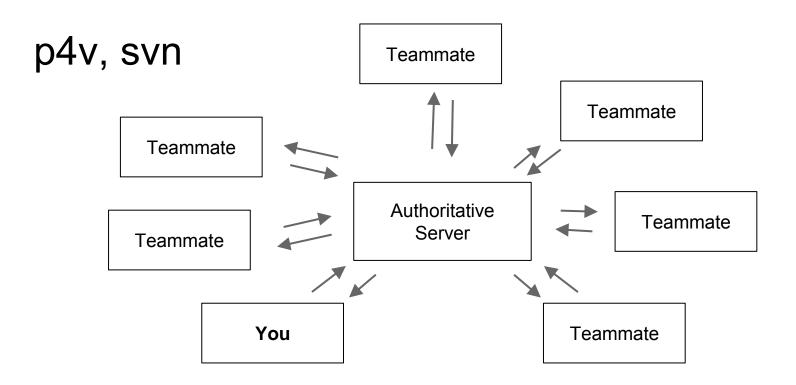
- Copy from server
- Copy changes to server
- Check status of local files
- Lock files so no one else can change them
- Compare different versions of the same file
 - aka diff
- Merge changes by two different people



- Copy from server
- Copy changes to server
- Check status of local files
- Lock files so no one else can change them
- Compare different versions of the same file
- Merge changes by two different people
 - merge and then resolve

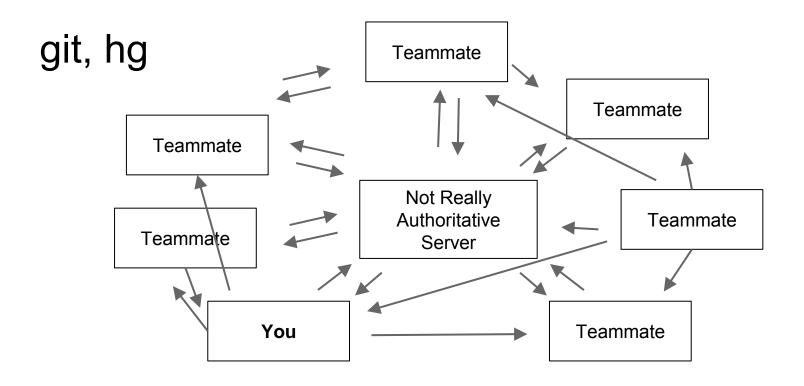


Remember this?





Distributed Source Control





Don't Break The Build!!!

- The version of the project in your authoritative server should always build and run.
- With 0 errors.
- And 0 warnings.
- Use a check build



Tips

- ignore unneeded files
 - o don't submit object files!
- lock binary files





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