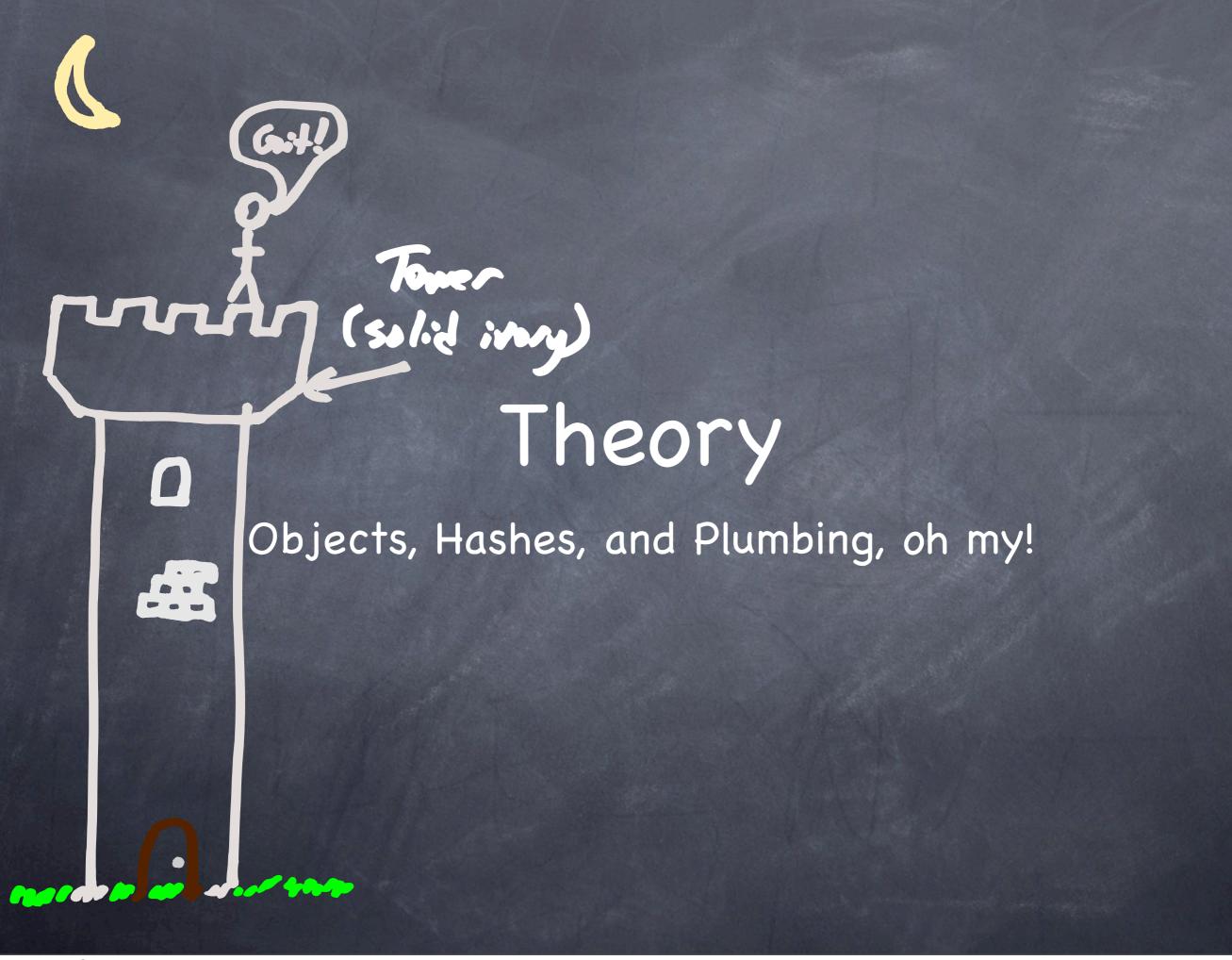


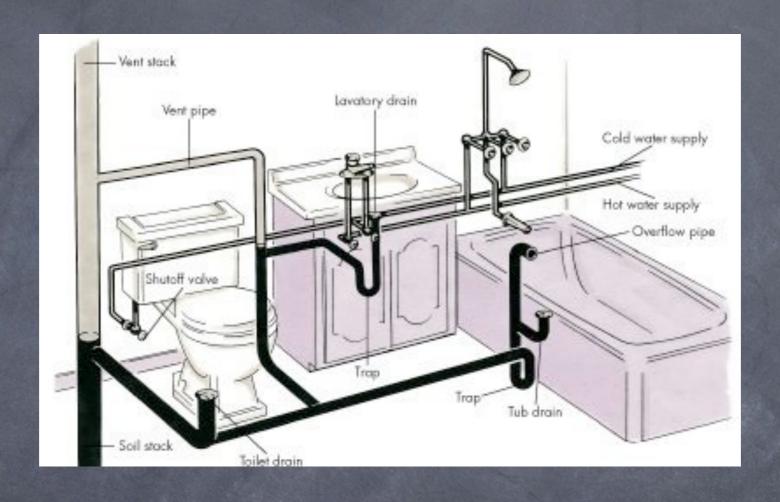
21 Commands to do almost anything in your favorite DVCS

#### Overview

- Theory
- Some Things to Know
- Basic Commands
- Working in a Repository
- Working with Remotes
- Tools
- GitHub
- A Little More Advanced
- Resources

21 commands
are hore.





# plumbing

#### Objects

- BLOB
  - The Files
- Tree
  - References other trees or blobs (like a directory)
- Commit
  - References a specific tree
- Tag
  - Named reference to a specific commit. May contain annotated data, including a signed key

## The Hash is King

- All objects in Git have a hash
- A hash is a 40 character SHA1 hash
- They are effectively unique
- This is why Git is superdeyduperdey fast
- You can easily shorthand a hash by typing the first few characters of the hash

# Some (potentially) Confusing Terms

- Git Directory
  - This is where Git keeps all of its stuff
- Working Directory
  - This is your file system
- Staging (Index)
  - This is where changes are stored before they are committed
- **HEAD** 
  - This is the last commit on any branch



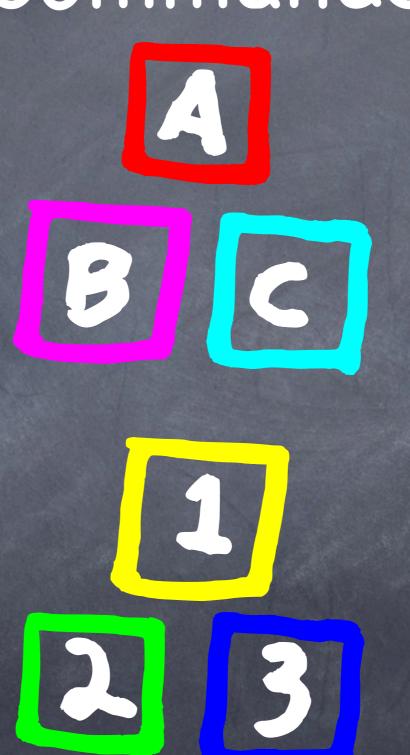
## Some Things to Know

- Configuring
- Line Endings
- Ignoring Files
- Tooling



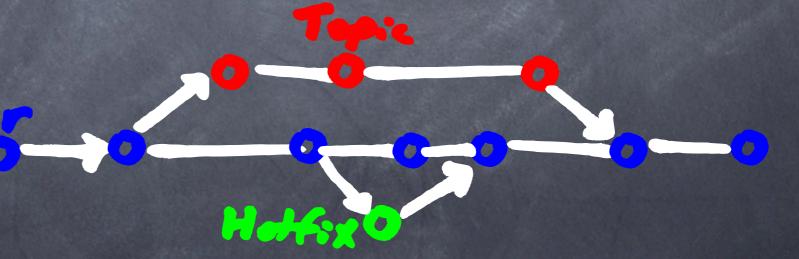
### Basic Commands

- ø git init
- ø git status
- git commit
- git add
- ø git log
- git show
- ø git reset
- ø git clean



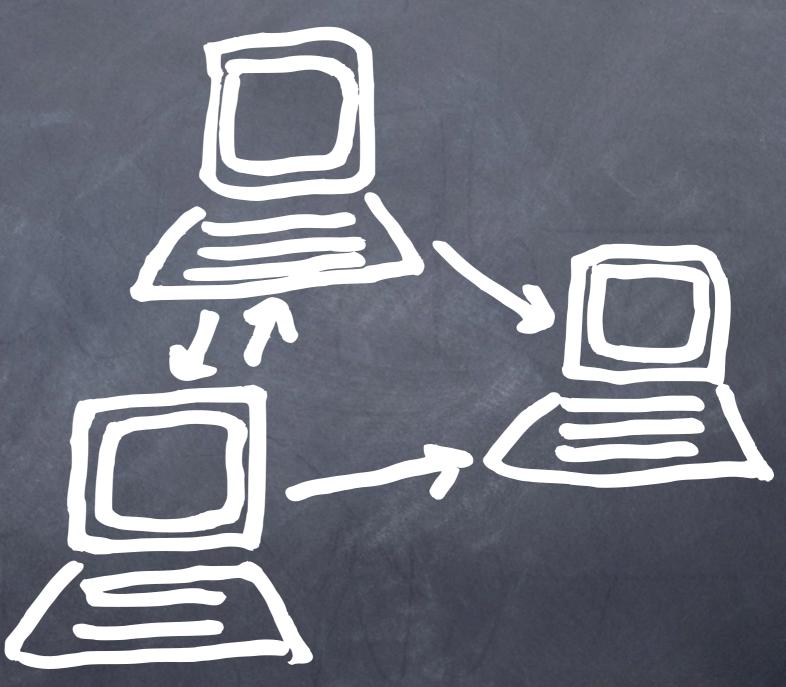
## Working in a Repository

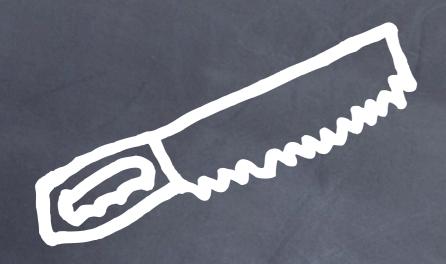
- ø git branch
- git checkout
- git diff
- ø git merge
- ø gitk
- ø git rebase
- ø git stash



# Working With Remotes

- ø git clone
- ø git remote
- git fetch
- git pull
- git push





#### Tools





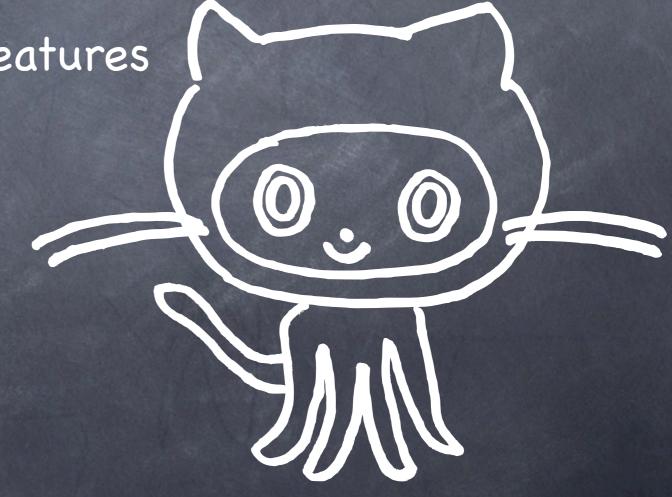
- gitk Graphical branch representation
- git gui a crutch that will result in you never mastering the command line and consequently always being less productive
- git citool a visual commit manager... sometimes useful if the commit is particularly complex
- TortiseGit a port of a port of something that wasn't that good in the first place
- GitHub Mac Just like Github, but it does less and you have to download it

#### GitHub

Public and Private Git Repositories

Many Value Added Features

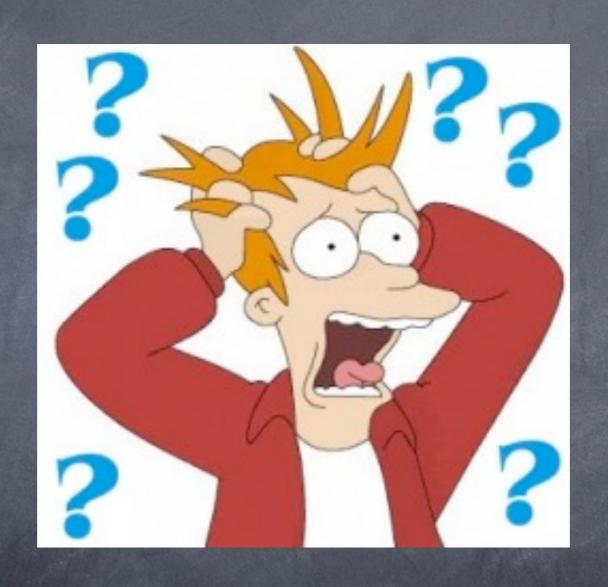
- Forking
- @ Pull Requests
- @ ACL



# A Little More Advanced Stuff

- ø git archive
- ø git gc
- ø git bundle
- git am
- git bisect
- git cherry-pick
- git grep
- others





questions

#### Resources

- Github
- Git Commands
- Git Community Book
- Pro Git
- Git Homepage
- My Github Account
- This Presentation
- @AntiArchitect That's me on the Twitters
- me@michaelmeadows.com I'd be glad to help