Intro to Git

How to Git Good





What is Git

Git is a **free and open source** distributed version control system designed to handle everything from small to very large projects with speed and efficiency.



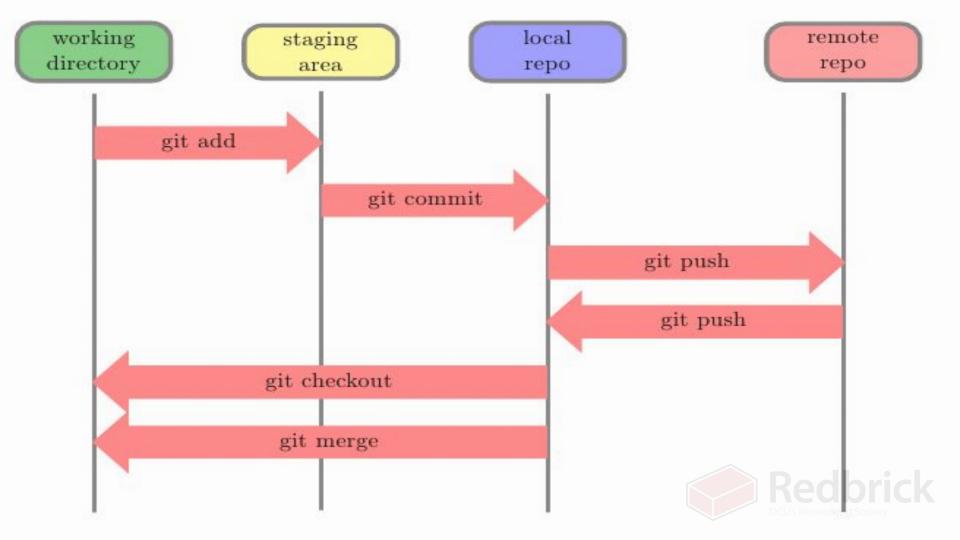
Why is Git good?



Git is scalable, has a small footprint and helps your project stay on target**

-- Linus Torvalds, creator of Git ** this is not a quote





How to Git

- Repo Is the place where all our code is stored
- Fork
 - Creates a new repo with all the same files in it
- Clone
 - cloning is copying the repo locally to work on it
 - git clone http://github.com/redbrickdcu/introtogit.git
- Stage
 - marks a file to go in your next commit
 - git stage \$fileYouChanged
- Commit
 - - git commit -m "Your commit message of what you changed"
- Push
 - pushes your commits to the repo
 - git push
- Pull
 - pulls any new commits from the repo
 - git pull

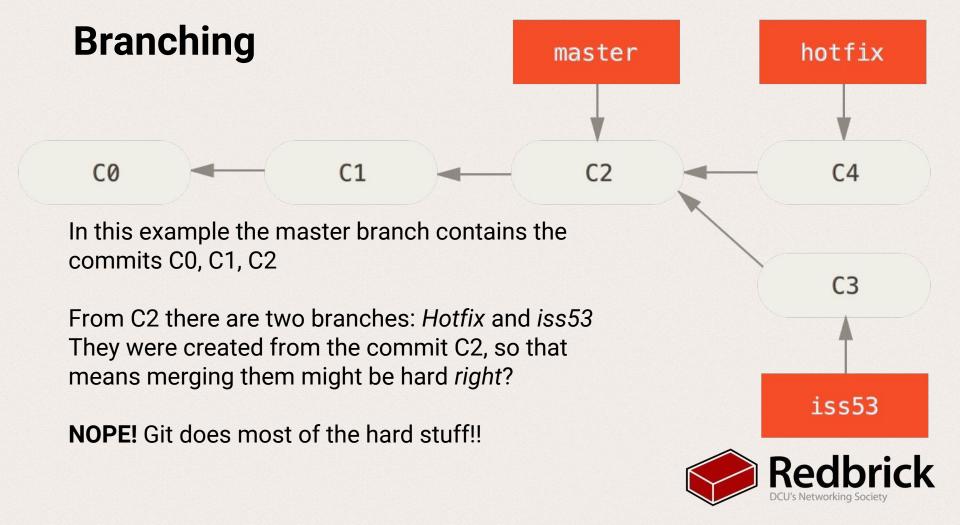


Git advanced

Branching

- Branches are essential to the git workflow
- Essentially a git project is made up of a series of changes to a directory, called commits.
- When you branch a repository you make a copy of those series of commits and then diverge. You can commit to this branch and it won't affect the original stream





Branching

- Checkout
 - Is a way to switch and create branches
 - To create a new branch
 - git checkout -b \$branchname
 - To switch branch
 - git checkout \$branchname
- Merging
 - Join two or more development histories together.
 - First checkout the branch you want to merge into, then run:
 - git merge \$otherbranch



Github

- Github.com
- Public & Private repos
- Issues
 - Labels
- Easily fork
- Easy to create Pull requests and get involved



Workshop

github.com/redbrick/introToGit



Demo Fail

What to do when it breaks



Question



