GIT - Two word introduction

Luigi Capogrosso Jasin Atipi

November 10, 2018

What is version control?

• Version control is a tool that allows you to...

What is version control?

- Version control is a tool that allows you to...
- Collaborate
 Creating anything with other people, from academic papers to entire websites and application

What is version control?

- Version control is a tool that allows you to...
- Collaborate
 Creating anything with other people, from academic papers to entire websites and application
- Track and revert changes
 Mistakes happen. Wouldn't it be nice if you could see the changes that have been made and then go back in time to fix something that went wrong?

• Fast! Access information quickly and efficiently

- Fast! Access information quickly and efficiently
- Distributed! Everyone has her own local copy

- Fast! Access information quickly and efficiently
- Distributed! Everyone has her own local copy
- Scalable! Enables potentially thousands (millions!) of developers to work on a single project

- Fast! Access information quickly and efficiently
- Distributed! Everyone has her own local copy
- Scalable! Enables potentially thousands (millions!) of developers to work on a single project
- Branches! Keep your coding experiments separate from code that is already working

- Fast! Access information quickly and efficiently
- Distributed! Everyone has her own local copy
- Scalable! Enables potentially thousands (millions!) of developers to work on a single project
- Branches! Keep your coding experiments separate from code that is already working
- Every one has a local copy of the shared files and the history

Git has its own vocabulary

• A repository is where you keep all the files you want to track

Git has its own vocabulary

- A repository is where you keep all the files you want to track
- A branch is the name for a separate line of development, with is own history

Git has its own vocabulary

- A repository is where you keep all the files you want to track
- A branch is the name for a separate line of development, with is own history
- A commit is an object that holds information about a particular change

GitHub

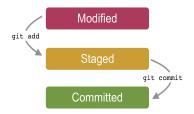
- Online git repository
- Free for open source projects



git clone \$url
 copy the whole repository and it's story on the local machine



- git add \$file
- git commit -m "\$message" the new release in confirmed and locked in the local repository



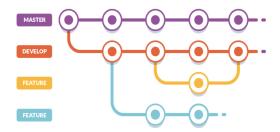
 git push sends the committed files from the remote repository



 git pull downloads the updated files from the remote repository



 git branch list all available branches



git checkout \$branchname
 switch from the current branch to \$branchname

Questions?

THIS IS GIT. IT TRACKS COLLABORATIVE WORK ON PROJECTS THROUGH A BEAUTIFUL DISTRIBUTED GRAPH THEORY TREE MODEL.

COOL. HOU DO WE USE IT?

NO IDEA. JUST MEMORIZE THESE SHELL COMMANDS AND TYPE THEM TO SYNC UP. IF YOU GET ERRORS, SAVE YOUR WORK ELSEWHERE, DELETE THE PROJECT, AND DOWNLOAD A FRESH COPY.

