

An Introduction to Git Version Control



February 4, 2014

Clarissa Garvey, Emory University



EMORY
UNIVERSITY

Contents:

- 1 What is Git?
- 2 Why you should use Git
- 3 How Git works
- 4 Getting Git
- 5 Basic Git commands
- 6 Popular Git hosting websites
- 7 Questions



What is Git?

- Version Control Systems (VCSs)

“Using a VCS (...) means that if you screw things up or lose files, you can generally recover easily.”

- Backup
- Revert state
- Collaborate
- Low overhead

- Git is a Distributed VCS

- Each user has a local repository



Why you should use Git

- Easy to quickly change back to old versions of a file
- Easy to see differences between file versions
- Enables experimentation on source code
- Easy collaboration, even in the same file
- Allows advisers to easily see progress in projects
- Easy to share work with others
- Allows for quick annotation of changes to files
- It's **great!**

