Northeastern University IEEE Git Workshop Reference

**Terminology**

**Repository**: The database storing the files.

**Main** **Copy**: The centralized standard copy.

**Working** **Copy**: The local copy containing current edits.

**Server**: The machine hosting the main repository.

**Client**: The machine hosting the working copy.

**Revision**: A "snapshot" of the repository at one point in time.

**Head**: The latest revision.

**Changelog**: A history of commits to repository.

**Diff**: Represents the difference between two revisions.

**Actions**

$ git **clone** [URL] Clone a repository into a new directory

$ git **add** [file] Add any new files to the local repository

$ git **rm** [file] Remove a file from version control and from the working copy.

$ git **status** View the current status of the working copy.

(modified, added, and removed files)

$ git **checkout** [branch] Move to specified branch

$ git **commit** Push changes from working copy to the repository.

$ git **pull** Update and Merge all the changes to your local repo

$ git **log** View the changelog.

$ git **diff** [file] View differences between commits

$ git **help** Get help.

$ git **fetch** Downloads changes but does not merge

**Git Mergetool:**

git config merge.tool vimdiff

**vimdiff**

To move the cursor around to edit manually:

Ctrl w # move the cursor to different split

Ctrl w + h # move to the split on the left   
 Ctrl w + j # move to the split below  
 Ctrl w + k # move to the split on top  
 Ctrl w + l # move to the split on the right

Or just pick and choose from either Remote, Base, or Local

:diffg RE # get from REMOTE  
 :diffg BA # get from BASE  
 :diffg LO # get from LOCAL

:wqa #save and quit