## **GIT**

```
git clone <url>
```

- makes a copy of a repository
- stores it on your computer
- a "fork" creates your own copy of someone else's repository

```
git add
```

- adds a file to staging area
- tells git to include the file in the next revision to the repository
- git add \* adds all changed files

```
git commit -m "message"
```

- saves the changes to repository as a new revision (a "commit")
- records a message
- git commit -am "message" adds and commits in same step

```
git status
```

shows current status of repository

```
git push
```

- sends committed changes to remote repository
- more explicitly, could write git push origin master

```
git pull
```

• to syncronize the latest versions from remote repository to your own local machine

## **Merge Conflicts**

when two different commits can't be automatically merged

need to be resolved

```
git log
```

• show a history of commits and messages

```
git reset
```

- git reset --hard <commit> reverts code back to a previous commit
- git reset --hard origin/master reverts code back to remote repository version

## **Branching**

- allows you, in a single repository, to have a couple differenct kind of versions of the code that are going on simultaneously
- branch is a version of the repository
- each branch has its own commit history and current version

```
git branch
```

- show all branches of code
- create a branch with git branch <br/> sanch name>
- switch to ( *checkout* ) a new branch with | git checkout <br/>branch name>

```
git merge
```

- used to merge two different branches together
- git merge <branch\_name> merges the branch branch\_name with current branch

## **Pull Request**

- let you tell others about changes you've pushed to a branch in a repository on GitHub.
- Once a pull request is opened, you can discuss and review the potential changes with collaborators and add follow-up commits before your changes are merged into the base branch.