Git Overview

- Fast, small, distributed
  - All local (can work offline)
  - Compressed
  - Every clone is a full copy
  - Snapshot-based
- Common commands
  - `git clone`
  - `git checkout -b newbranch`
  - `git checkout branch`
Initial Commands

- Setup
  - `git config --global user.name "Doug Blank"`
  - `git config --global user.email "dblank@bmc.edu"`
  - `git config --global user.email 'emacs'`
  - `git config user.name`

- New Repository
  - `cd folder; git init`
  - `git add .`
  - `git commit -m "Message about commit"`
Cloning

- Over git:
  - `git clone git://github.com/schacon/munger.git`
  - `cd munger`
  - `Ls`
- Over http:
  - `git clone http://github.com/schacon/munger.git`
- Either on github
Git Workflow

- checkout the project
- stage files
- commit
Git commands

- `git diff` – See differences made
  - `git diff --staged` – See just staged differences
- `git status` – See the current state
- `git add` – Add files and directories
- `git commit` – Commit staged changes
- `git commit -a` – Commit all staged and unstaged changes
Managing a Form

- Get a github account, github.com
- At github on the UPennalizers site, click Fork
  - https://github.com/UPenn-RoboCup/UPennalizers
- You can clone and make copies to your own version
- If you have a change you'd like to suggest that the UPenn incorporate:
  - Make a “Pull Request”
Bring your Fork up-to-date with Original

And Accept!