Getting Started at Hackathons

Track 1: Gitting Started

Hi, I'm Eric Jiang

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First of all, what is git?



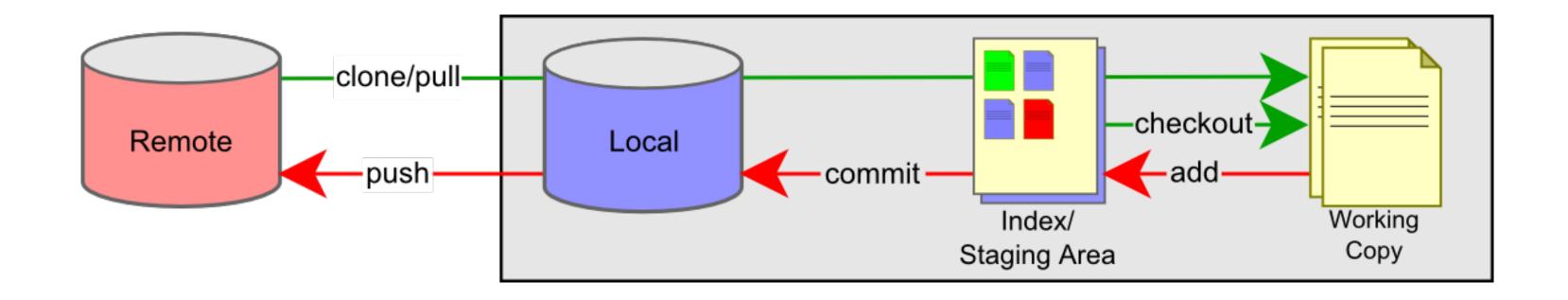
Git

Git is a version control system for tracking changes in computer files and coordinating work on those files among multiple people

Git SCM Website



How Git Works



Some Basic Commands

| Command | Description |
|------------|--|
| git clone | Clones a repository locally |
| git add | Stages changes to file(s) for a commit |
| git commit | Creates a commit (set of changes) |
| git push | Push changes to the hosted repo |



Advanced Git

Well, working with teams am may be hard. There are generally two ways you can work off a repository.

- Using Branches
- Using Forks

Option 1: Use Branches 🌳 for Versioning Control

- 1. Make a branch with the feature name or your own username
- 2. Every time you commit and push up
- 3. Make a Pull Request
- 4. Merge the pull request

One of the best workflows is known as GitFlow



GitFlow - Used with monPlan Git Workflow

- master: branch is the key branch, everytime for release
- develop: unstable, most of the PRs should go here
- 'feature/*', 'fix/*, etc.: are 'for purpose' branches, these branches are for development
- deploy (not shown), is for manual deployments to prod

This slide has been adapted from my CI-CD talk

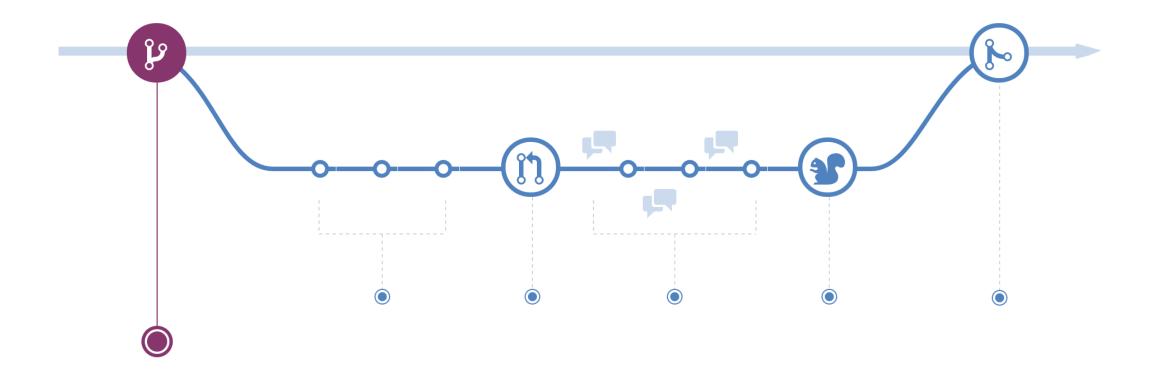


So how does it work?

Create a branch

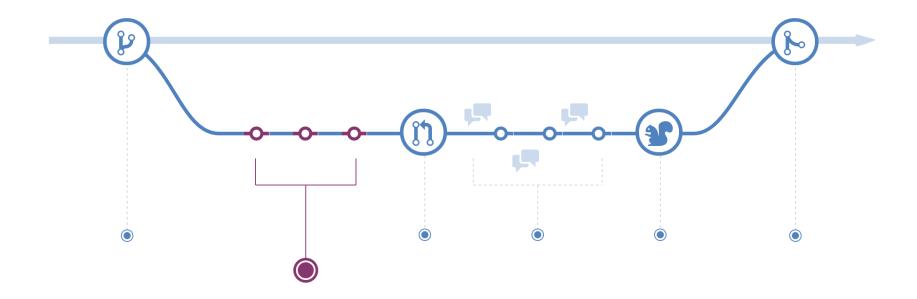
ProTip: It's easier for your branch name to follow a simple pattern, typically we use something like fix/, feature/, refactor/*

```
# we create a new branch
git branch feature/demo-branch
# we make the new branch the new working branch
git checkout feature/demo-branch
```





Add Commits

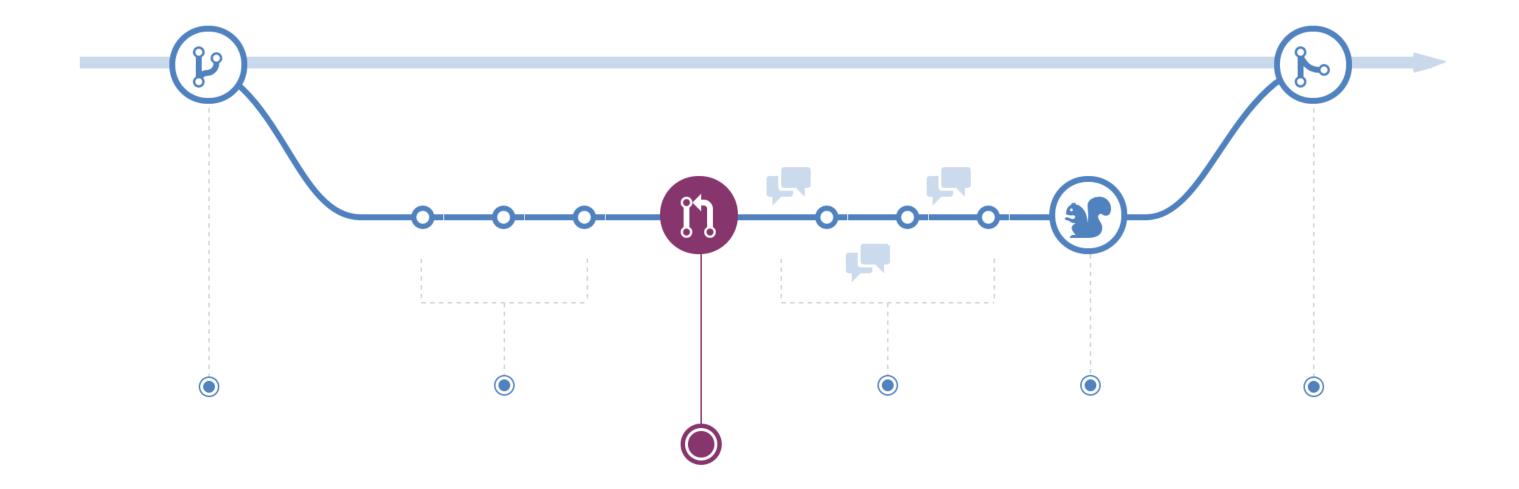


We make our changes and then

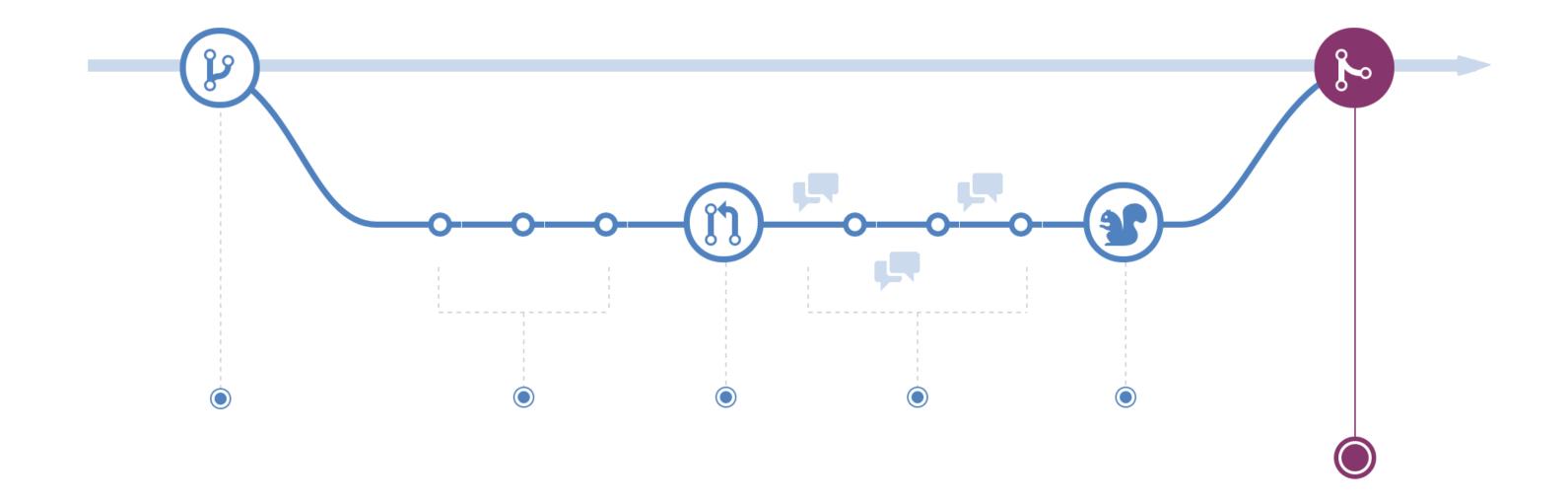
```
git add .
git commit -m "new commit"
git push
```



Make a PR



Discuss and merge



Option 2: Using Forks 🚶 for Versioning Control

The best way to image a fork, is image a copy of the main repository that you own that you can pull, merge and apply changes to.

Questions?







Goodbye Track 2: Firebase + ReactJS for Hacks coming soon