iOS Crash Course

Session Nine

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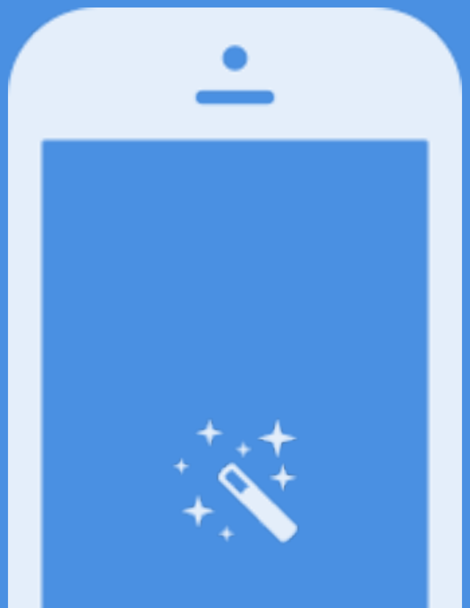

Session 8

- Last Thursday we learned how to add persistence to our to-do app
- NSUserDefaults, NSCoder/NSKeyedArchiver
- Now items persist through app launches
- Source code from S8 will be available on GitHub soon

Session 9

- Today we’re going to take a tangential step from pure iOS development and learn something necessary for development in general:
    - Version Control
    - Specifically, Git
- Few slides, mostly-hands on

Version/Source Control

- Version control is a system that tracks changes and modifications we make to a file (or many files)

- Useful in programming because it allows us to make and save changes in “versions”

- Allows us to look at past changes and revert if necessary

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Version Control

- We’ll be using a specific Version Control System (VCS) called Git

- Some EECS classes may introduce it (?)

- You may be familiar with the term Git (or GitHub), but never actually used it

Version Control

- Being comfortable with Git is not only useful to your personal development, but is often expected if you work as an engineer at a tech company

- Apple, Twitter, Facebook, etc., all use Git (among others VCS occasionally, too)

Git Commands

- Use these next slides as reference

Git Commands

- Create a new git repo: **git init**
- See the repo’s current status: **git status**
- Stage a file to commit: **git add *filename***
    - Or, stage all files: **git add .**
- Create a commit locally: **git commit -m *“Commit Message”***

Git Commands

- See recent commits: **git log**
- Add a remote repo: **git remote add origin https://github.com/*username*/*RepoName*.git**
- Push commits to remote: **git push -u origin master**
    - Or, just **git push** anytime after the 1st commit

Git Commands

- See the changes in a file: **git diff *filename***
- Pull changes from remote: **git pull**
- Revert repo to last commit: **git checkout .**
    - Or, revert one file: **git checkout filename**
- Reset staged files: **git reset**

Git Commands

- Create and switch to a new branch: **git checkout -b *branchname***

- Switch back to master (main) branch: **git checkout master**

- Delete a branch: **git branch -d *branchname***

- Push a branch to remote: **git push origin <*branchname*>**

Great Git Resources

- **Intro to Git:** http://rogerdudler.github.io/git-guide/

- **Interactive Git tutorial:** https://try.github.io/levels/1/challenges/1