

# Mobile Apps Development for Journalists

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# Agenda

- Teal Pumpkin App Design Exercise
- Introduction to Version Control and Git
- Introduction to GitHub
- Hello World with GitHub

# Trick or Treat App

- What if you took on a Halloween Challenge and designed a trick or treat app? What would it look like?
- For instance, <https://www.foodallergy.org/education-awareness/teal-pumpkin-project>

# User Research

- For the trick or treat app, where would you find users to test this on?
- Who would those users be?
- What would be some questions you would ask them?
- How would you demo your prototype?

# Intro to Version Control

- What is Version Control?
- Why do software developers use it?
- Who else can use it?
- Does it really save any time?

# Intro to Git

- Git is the most common source control system in 2019
- Open Source
- Common Providers - GitHub, Bitbucket, GitLab
- Built into Android Studio and Xcode

# Git Concepts

- Repository - decentralized copy of the source code and all of the changes that led up to this. Local or remote
- Git command line - lets you type git commands from Windows, Mac, or Linux
- Visual Tools - Android Studio, Xcode, SourceTree, others

# Git Commands

- `git add README.txt` - takes the changes you've made to this file since the last commit and **stages** them
- `git commit -m "My Message"` - takes all of the staged changes (for all files) and creates a **commit** with a descriptive message
- `git push` - sends this change up to the remote repository (like GitHub)

# More Git Concepts

- Branches - each developer should work in a new branch for each feature. That way you can **add**, **commit**, and **push** to this branch and not affect the main branch...
- Master branch - each branch can be merged into other branches. The master branch should be what's currently working, or in production

# Introduction to GitHub

- <https://www.github.com>
- Who has an account? Create one if you don't have one
- GitHub for Education - not needed for this
- <https://www.youtube.com/watch?v=noZnOSpcjYY>

# GitHub Concepts

- Pull Requests - best way to collaborate with a team for merging branches
- Fork - create a copy of another repository
- Markdown and README.txt - documentation for our repos

# GitHub Exercise

- <https://guides.github.com/activities/hello-world/>

# More about GitHub

- Open Source - let's discuss what this means
- GitHub as a resume for developers
- Nothing wrong with other solutions - Bitbucket and GitLab