

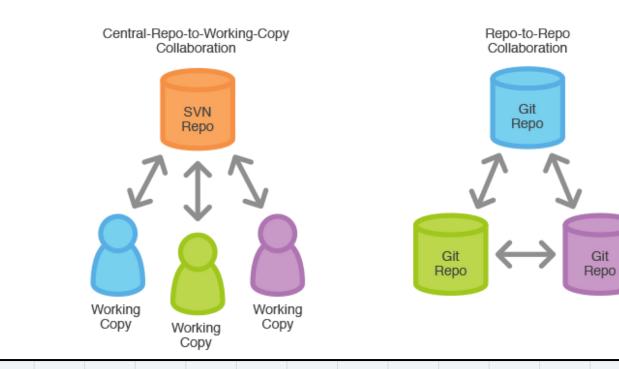
INTRODUCTION

We watched a few videos from the following course on Udacity:

Version Control With Git

- Collaborative software development necessitates a system for source control and versioning!
- A version control system facilitates simultaneous updates to the same software and manages any conflicts created!
- There are a few version control system options
 - CVS Concurrent Versions System
 - SVN Apache Subversion
 - GIT a distributed VCS (not the only one)

L



GIT

- Developed by Linus Torvalds around 2005
- Open source, under the GNU GPL (General Public License)
- Distributed, in that every directory on every computer is a full-fledged repository
- It has a complete history, version-tracking capabilities
- Independent of network access, or a central server
- Use as command-line or via GUI

GIT

- To create a local Git Repo
 - 1. Create a new project directory
 - 2. Move into that new directory
 - 3. Initialize Git repository
 - 4. Create/edit project files
 - 5. Stage files in the project directory git add .
 - 6. Commit tracked files in Git storage git commit -m "a msg"

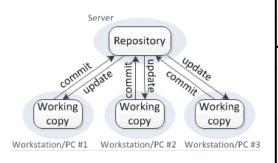
| | Git Repository | | | | | | | |
|---------|----------------|--------------|--|--|--|--|--|--|
| Working | g Directory | Staging Area | | | | | | |
| file1 | file2 | | | | | | | |

mkdir WorkingDir cd WorkingDir

git init

GITHUB

- Web-based Git repository hosting service
- Provides cloud storage, public/private repos, free accounts
- Home to lots of open source software!
- To use Github
 - 1. Access a remote repository on Github.com
 - 2. Pull down the latest version of the code to local git pull
 - 3. Add edited files to the source code
 - 4. Commit edits to the local version git commit -m "short msg"
 - 5. Push the changes out to the server



git add File.java

git push

- Summary of Git Terminology
 - Repo repository
 - Init initialize a repository
 - Commit
 - Push/Pull
 - Clone copy a remote repo locally
 - Branch a separate version of the main repo that allows working on different parts of a project without impacting the main branch.

- Git and Github
 - You can choose how you want to use Git and Github
 - Command line
 - Browser
 - GitHub Desktop
 - IDE

http://github.com

http://desktop.github.com

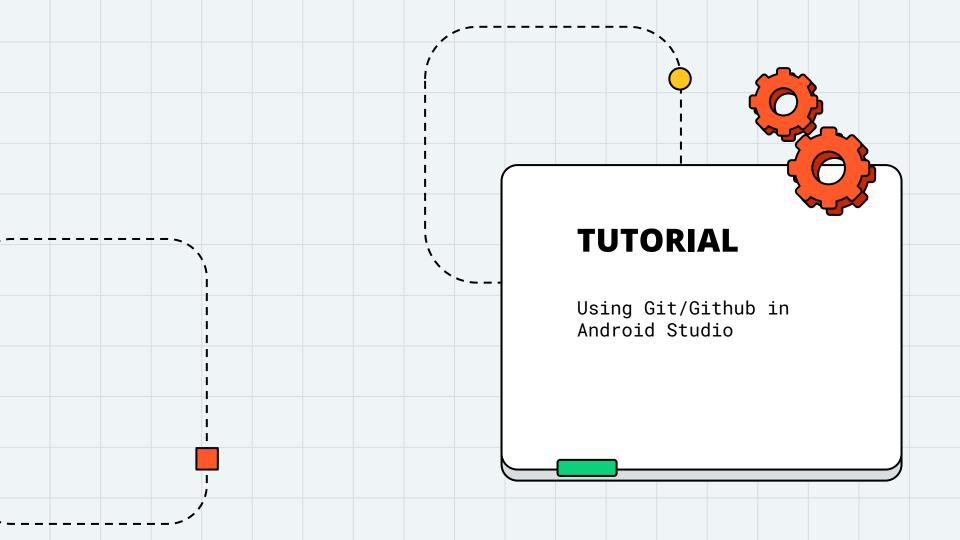
- Some useful resources
 - <u>Hints for using eGit (Eclipse plugin)</u>
 - <u>Resolving merge conflicts</u>
 - Effective Git: <u>https://git-scm.com/book/en/v2</u>
 - Tutorial: <u>https://try.github.io/</u>

README FILES

- A code readme file should include dependencies, description of functionality, etc.
- A repo readme file should describe project(s) in the repo, contributors, functionality, license(s), contribution guidelines, known issues,
- A README file is created using <u>markdown</u> language!
- Example: <u>README.md template · GitHub</u>

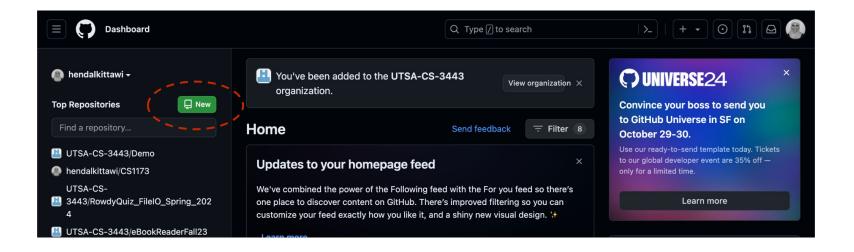
README FILES

- More Readme
 - <u>A Beginners Guide to writing a Kickass README 🚈 | by Akash</u>
 - <u>Top ten reasons why I won't use your open source project |></u>
 <u>Changelog</u>
 - <u>GitHub hackergrrl/art-of-readme: :love_letter: Things I've</u>
 <u>learned about writing good READMEs.</u>
 - How To Write A Great README
 - <u>GitHub jehna/readme-best-practices: Best practices for writing a</u> <u>README for your open source project</u>
 - <u>zalando-howto-open-source/READMEtemplate.md at master</u>



Generate a personal access token and save it somewhere! (Under your Github account > Settings > Developer Settings)

Check the repository created under your team in CS3443 Github organization OR create your own repository under your account





Create a new repository

A repository contains all project files, including the revision history. Already have a project repository elsewhere? <u>Import a repository</u>.

Required fields are marked with an asterisk (*).

Repository template

No template 👻

Start your repository with a template repository's contents.

Owner • Repository name •

Great repository names are short and memorable. Need inspiration? How about ubiquitous-dollop?

Description (optional)

• Public Anyone on the internet can see this repository. You choose who can commit.

You choose who can see and commit to this repository.

Initialize this repository with:

🗹 Add a README file

This is where you can write a long description for your project. Learn more about READMES.

Add .gitignore

.gitignore template: None 👻

Choose which files not to track from a list of templates. Learn more about ignoring files.

Choose a license

License: None 👻

A license tells others what they can and can't do with your code. Learn more about licenses.

This will set *Pmain* as the default branch. Change the default name in your settings.

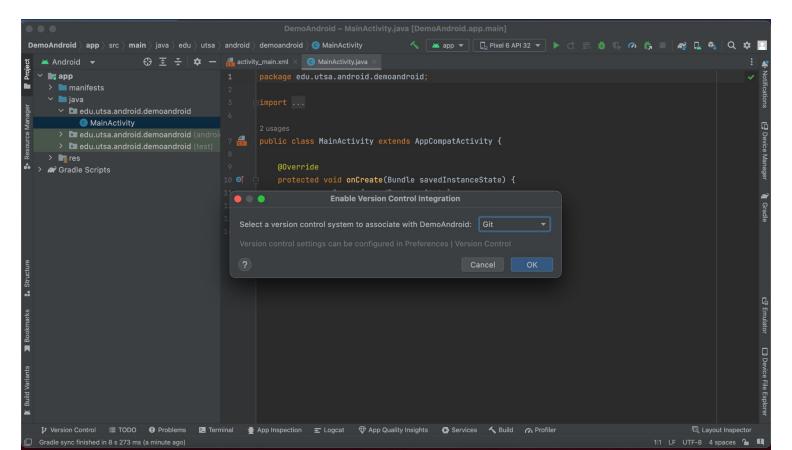
(j) You are creating a public repository in your personal account.



Create your project in Android Studio then create a local Git repo (Android Studio > VCS > Enable Version Control Integration, select Git)

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Create your project in Android Studio then create a local Git repo (Android Studio > VCS > Enable Version Control Integration, select Git)



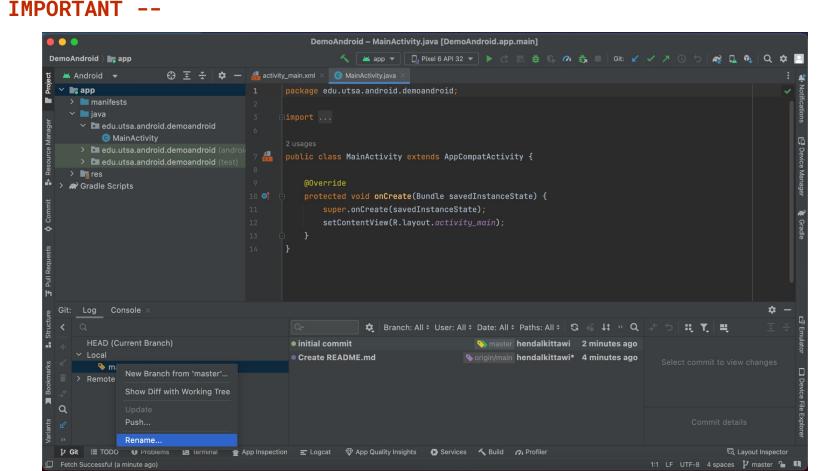
Stage files (Right click on app > Git > Add)

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Commit to local repo (Right click on app > Git > Commit Directory...) and add the unversioned files

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Rename local branch to main (to match the remote branch name)



Copy the https URL for the remote repo

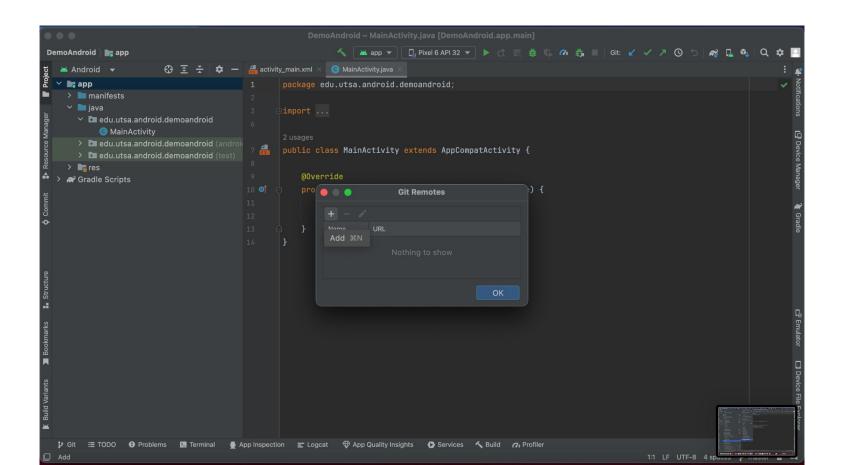
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Packages

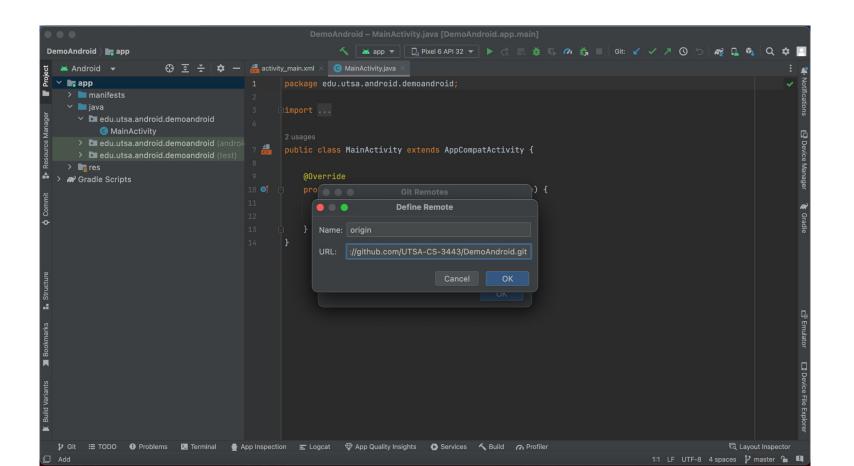
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Add the remote repo



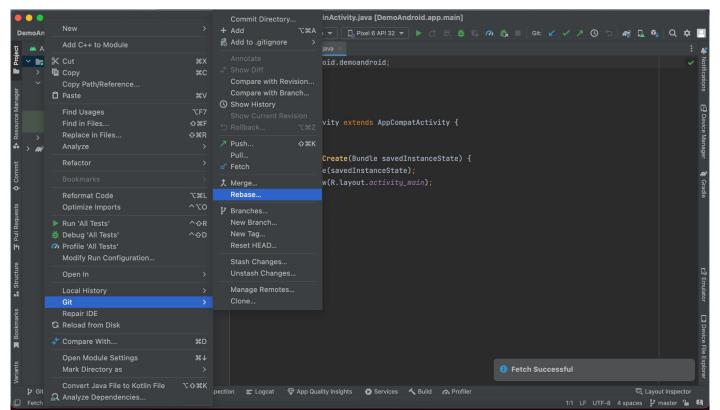
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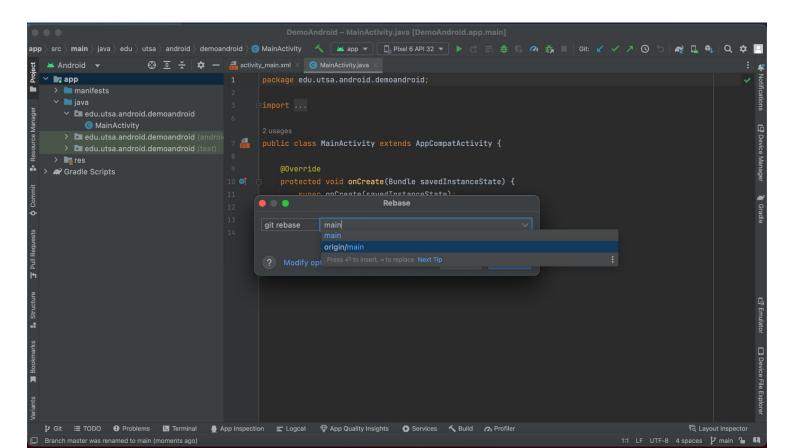
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Note: Since we added a README to the remote repo we need Rebase before we Pull. You do not need to Rebase before you Pull if you did not create a README in the remote repo - you can skip slides 27 and 28.



Rebase (we are just using it here because our local and remote repos initially do not have a "common history")



Pull from remote repo

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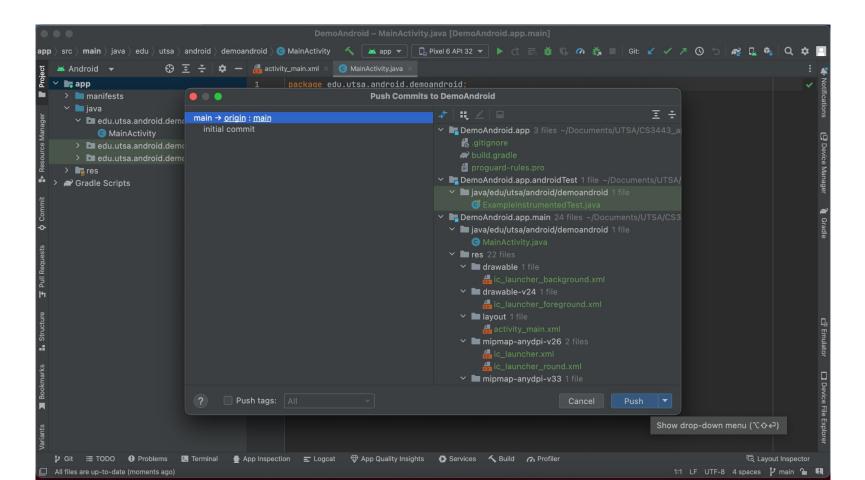
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Push to remote repo

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Push to remote repo



Modify file(s) on Github (similar to if someone else modifies the files)

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| <pre>import android.os.Bundle; 6</pre> | |
| <pre>7 public class MainActivity extends AppCompatActivity { 8 9 @Override</pre> | |
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| n @ 2023 GitHub Inc. Terms Privacy Security Status Docs Contact GitHub Pricing API Training | |

Pull changes to local repo

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Modify file(s) locally

Stage, commit and push to remote repo (like above)

Check the remote repo

