Here are the notes for tomorrow’s git tutorial so you can study beforehand or use them as your structure to add to tomorrow:

**GIt tutorial**Goal: Review 2 basic git flows to follow - using linux commands

**Prerequisite:**

* If you are using a pc - have gitbash installed
* You should have git installed on your computer as well

**Agenda:**

* Putting Git into context
* Setting up for the exercise
* Initializing a git within a local repository and connecting it to a remote repository
* Update an existing repository
* Trials and errors I’ve learned when working with git in the workplace
* Resource to learn git more in depth:
* Git commands:
* <https://www.atlassian.com/git/tutorials/atlassian-git-cheatsheet>
* <https://phoenixnap.com/kb/git-commands-cheat-sheet>
* <https://www.freecodecamp.org/news/git-cheat-sheet/>
* Learn by doing:
* <https://try.github.io/>
* Learn by reading:
* <https://try.github.io/>
* <https://git-scm.com/docs/gittutorial>
* Gitlab: <https://docs.gitlab.com/ee/gitlab-basics/start-using-git.html>
* Learn by watching:
* <https://www.youtube.com/watch?v=SWYqp7iY_Tc>
* <https://www.youtube.com/watch?v=HVsySz-h9r4>
* <https://www.youtube.com/watch?v=8JJ101D3knE>
* Linux command cheat sheet: <https://cheatography.com/davechild/cheat-sheets/linux-command-line/>
* Bash cheat sheet: <https://www.educative.io/blog/bash-shell-command-cheat-sheet>

**Outline:**

* What is GIT and why is it important?
* A visual of a local repository and remote repository
* An example of using git in the work place
* Set up for today’s exercise
* Git recipe #1 - creating a new local and remote repository

1. mkdir {directory name}
2. cd into directory in terminal
3. Open up GitHub and create a new repository
4. Go back to your terminal and go into your new folder add in the first set of commands - now you are connected and created a readme file!
5. Refresh GitHub to see your remote repo updates
6. git status
7. Add a word to your README file to simulate making a change locally
8. git status
9. git add .  ***-or-*** git add {file name}
10. git status
11. git commit -m “Present tense message to explain what you did”
12. git status
13. git push
14. Now check your repo within GitHub

* Git recipe #2 - Updating a remote repository

1. git pull to see if there are any new changes to your branch - very helpful when sharing a branch
2. Add another word to your file
3. git status
4. git add .  **-or-**git add {file name}
5. git commit -m “Present tense description”
6. git push

* Trials and errors I’ve learned when working with git in the workplace
* Key takeaways: Practice working collaboratively now and communicate as much as possible

Extra practice:

* Buddy up with someone from class and share your GitHub repo links
* Clone/download their repo on your local repository
* Make a change and push it up - let them know when you push yup a change
* Then on their end - git pull to get the latest changes and add a change
* Go back and forth and communicate as you do it to get a feel for working collaboratively

Even more extra practice ideas:

* Make a new branch on their code and work on that branch.
* Then when you are ready, practice making a pull request to the main owner of the remote repo to simulate what it’s like to work on a team using the same main code base

Some helpful git commands for the extra practice:

* git branch
* git checkout {branch name}
* git checkout -b feature/{new branch name}