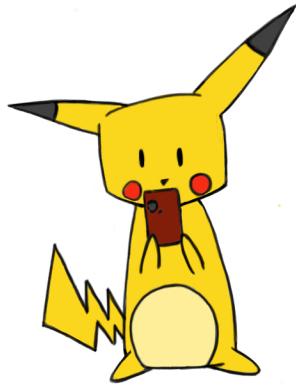
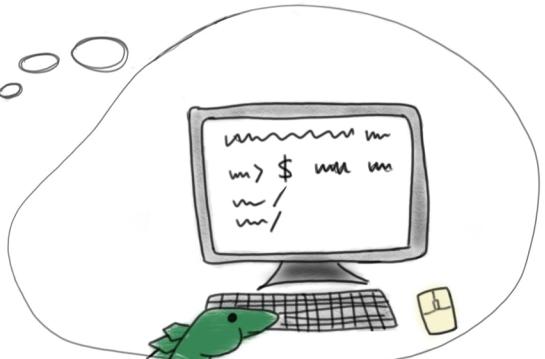
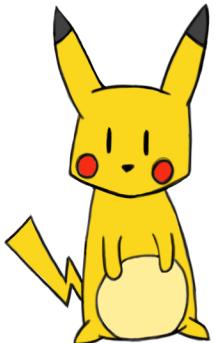


# Emailing files? Use git!



Pikachu has been working on some data analysis with her friend, Chubbycheeks.



She decides to email him to find out what he's been up to.

**There are several ways to access git:**  
You can host public or private repositories online at [github.com](https://github.com) or [gitlab.com](https://gitlab.com). If you have a GitHub account, you can use it to access GitLab.

GitHub has an app you can use for managing repos on GitHub:  
<https://desktop.github.com>

Visual Studio code has a built-in system for managing repositories.

You can access git protocols from your computer terminal. This allows you to create repositories on your own network!  
(Guide on using git in a shell:) <https://docs.gitlab.com/ee/gitlab-basics/start-using-git.html>

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She was quite disheartened,



But then Ralph told her about git!

They go back and forth...



Until Pikachu finds out that some of the code she wrote had already been written by Chubbycheeks.

Now, not only is it easy to send and receive updates,



It's also easy to get help from more friends!

# git started!

Command line commands will be provided. Execute these while in the directory you cloned to. GUI clients will follow the same general steps, but how to do them will depend on the client.

## install

GitHub Desktop: <https://desktop.github.com/>

Lots of other GUI clients exist as well. Look around for one you like!

Using Command Line:

Installing Git in Command Line:

If you're using command line, you may already have git installed. Check for an install with

```
git --version
```

You will need to be given editing privileges for the repository.

Steps for getting access will depend on where the repository is kept.

Join GitHub: <https://github.com/join>

Join GitLab: [https://gitlab.com/users/sign\\_up](https://gitlab.com/users/sign_up)

Using ssh:

You'll be asked for credentials when you try to do something that requires them, so don't worry if you aren't sure where they come in just yet.

## clone

```
git clone https://link.to/repository.git
```

If you are able to ssh to another computer, you can clone from that computer - repositories don't necessarily have to be hosted on the web.

Creating Repos: <https://help.github.com/en/articles/create-a-repo>

## git checkout branchname

## Now Don't Break It

Talk to your teammates about which branch to work on. If no one has any preferences, it's safe to stick to the default (master) branch.

Branches are often used to ensure that certain kinds of breaks in code aren't sent to everyone - for example, if the master branch is where your program is released, you want to be sure that version of the program runs!

## Record Your Changes

### add commit

```
git add filename : Add a single file to the repository
git add * : Add all files in current directory to the repo
git commit file : Confirm your saved changes for a single file
git commit : Confirm your saved changes for the repo
```

## Get Access log in

**Send changes :** `git push`  
**Receive Changes :** `git pull`

## Share Your Code!

`push`  
`pull`

`git status` will let you see how your files compare with the origin (the place the original repository is stored).

Pushing and pulling often will mean having to merge changes less!