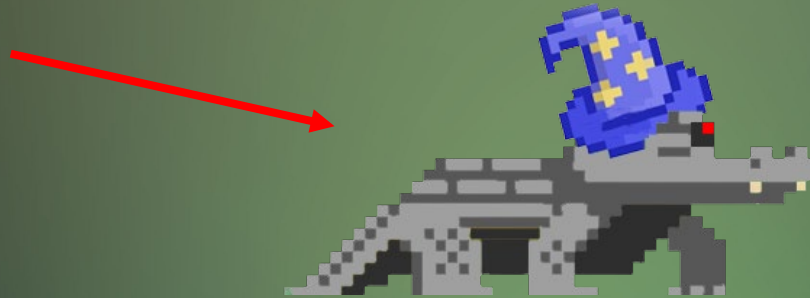


G.W1Z




LS 190

YOU MUST BUILD A BOT

What am I doing here?

Good question; I often wonder the same thing.



- Our goal: make a bot
 - It's more complicated than that
- Learning to read bots as:
 - Art
 - Parody (possibly)
 - Service providers
 - Communications tools

What can I learn just from a bot?

- Python
- API interactions
- Problem solving
- Ethics
- Conceptual thinking
- Art strategies
- Critical information study
- Distributed software development
- & much more

How will we do all that?

- Using a few platforms:
 - Ubuntu (Unix)
 - JupyterLab
 - Python
 - & various “modules”
 - GitHub
- Using a few methods
 - Readings
 - Worksheets
 - Code review

So, who is this person?

- Multi-disciplinary artist working in:
 - Sound
 - “Net art”
 - Computational constraint
- Bots are a part of this work:
 - @general_caution
 - @cfp_bot
 - @fakemrwizard
 - @relativeprob
 - “In the Path of Totality”

Course platforms

GitHub



JupyterLab



GitHub



When I say
“repository,”
I mean this.



“Working”
directory

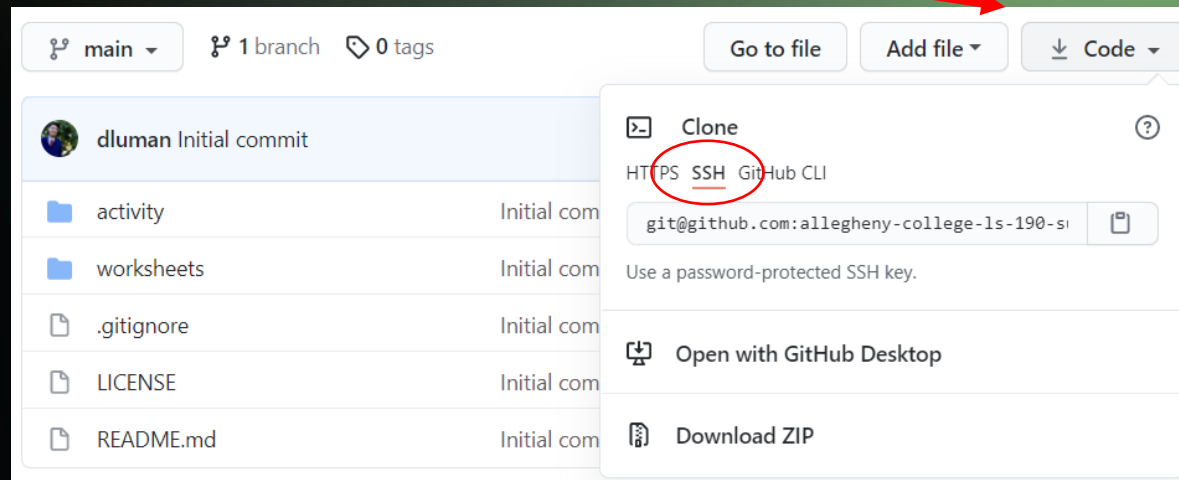
SSH Keys



```
ssh-keygen -t rsa -b 4096 -C "YOUR ALLEGHENY EMAIL"
```

“Downloading” content

- Content is stored in a **repository**
 - Think of it as a fancy “folder”
- We **clone** it from GitHub to establish a link







“Cloning” a repository

Insert link copied
in previous step



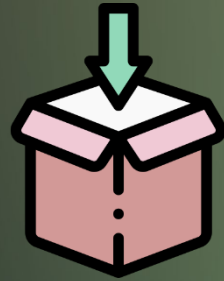
```
git clone ...
```

Unix commands

- 3 basic commands:  There are, like, *thousands*
- `cd` => “change directory”  Can I go to...?
- `ls` => “list directory”  Where can I go?
- `pwd` => “path to working directory”
 Where the heck am I?

Sending changes to GitHub

1



```
git add .
```

Replace everything
in quotes (no {
brackets)

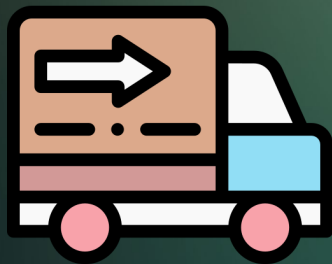
2



```
git commit -m "{COMMIT MESSAGE}"
```

```
git commit -m "Submitting assignment"
```

3



```
git push
```

See next slide, but
generally **descriptive** and
short

A note on “commit messages”

- These should be descriptive and short
- Bad examples:
 - “I’m so confused”
 - “So, ok, there’s a bunch about this I don’t understand and I don’t think committing any more is going to help so what can I do to fix it”
 - “Why doesn’t this work”
- Good examples:
 - “Added code to detect end of sentence”
 - “Changed login procedure to reflect API updates”
 - “Added module to make myself breakfast”

WORKING TIME