



# **PsychHacks**2019

University of Toronto

# Thank you for attending!

## Why are we here?

- 1) Learn and practice coding skills
- 2) Answer interesting questions
- 3) To have fun!



# Meet your organizing committee...



Ariana Youm



Kyle Nealy



Annabel Fan



Rachel Forbes



Bryan Hong



Alex Gordienko

# Special thank you to...



Dr. Katherine Duncan



Dr. Michael Mack



Psychology  
UNIVERSITY OF TORONTO



**PsychHacks2019**  
University of Toronto

# What are we doing?



1 Form your teams



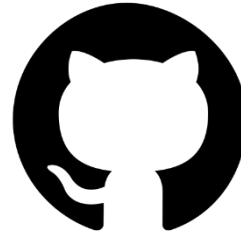
2 Get a dataset



3 Come up with  
research questions



4 Solve those  
questions!



5 Submit to Github



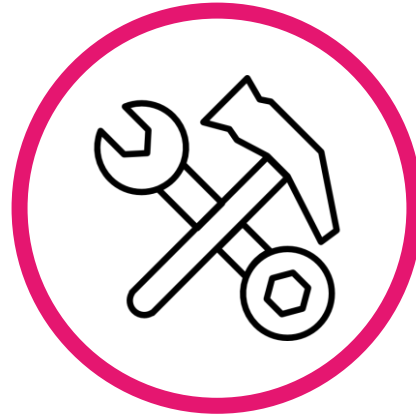
6 Present your findings!

# Judging Criteria



**Design and  
Discovery**

10 points



**Methods**

15 points



**Execution**

10 points

# Awards

## First Prize

\$25 Amazon Gift Card



## Second Prize

\$15 Starbucks Gift Card



# Datasets

What is your team interested in?



General Social  
Survey



VR Spatial  
Navigation



Eyetracking



# Datasets

**What is your team interested in?**

**...or you can choose your own adventure!**

(Nature Scientific Data, Open Science Framework,  
Harvard Dataverse, Google Dataset Search, etc.)

# Schedule

## Friday, May 3

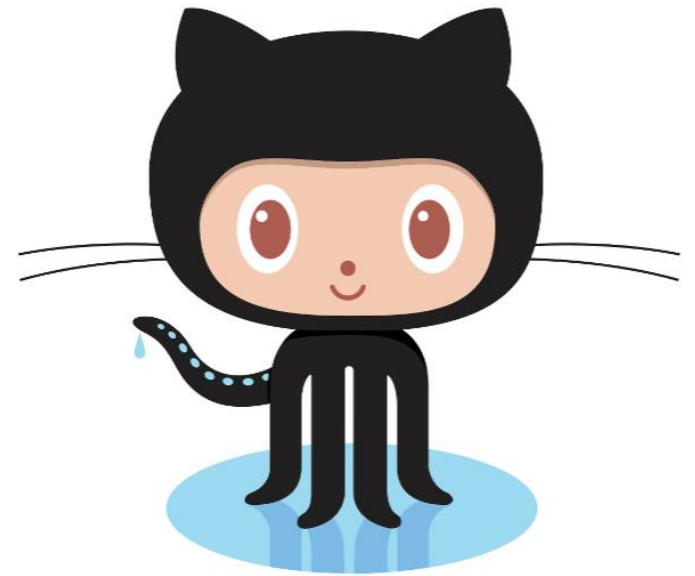
Time	Event
6:00PM	Registration
6:15PM	Hackathon Kickoff
6:30PM	Team Formation
7:00PM	Intro to Git Icebreaker
7:30PM	Hacking Begins/Pizza Party
12:00AM	Midnight Snacks

## Saturday, May 4

Time	Event
9:00AM	Breakfast
11:00AM	Machine Learning Workshop
12:00PM	Lunch
1:00PM	R Markdown Website
4:00PM	Submissions Due
4:30PM	Project Presentations + Awards

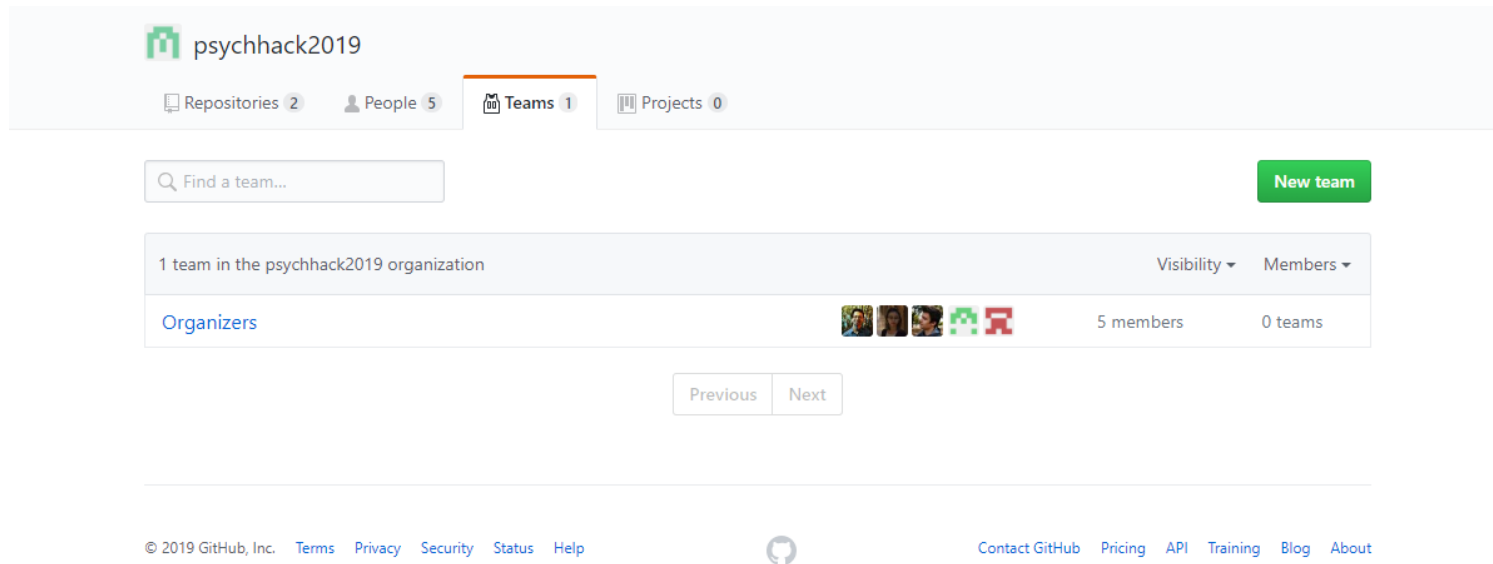
# Make your teams!

# Introduction to GitHub



# Getting started

1. Make a GitHub account <https://github.com/>
2. Join psychhack2019 organization
3. Make a new team



# What is Git(Hub)?

Distributed version control system - Git

Files are stored in a central location (GitHub)

Allows teams to collaborate on files

Branching from the master branch allows for testing of code before changes are merged back to the master

GitHub keeps a record of individual contributions and changes

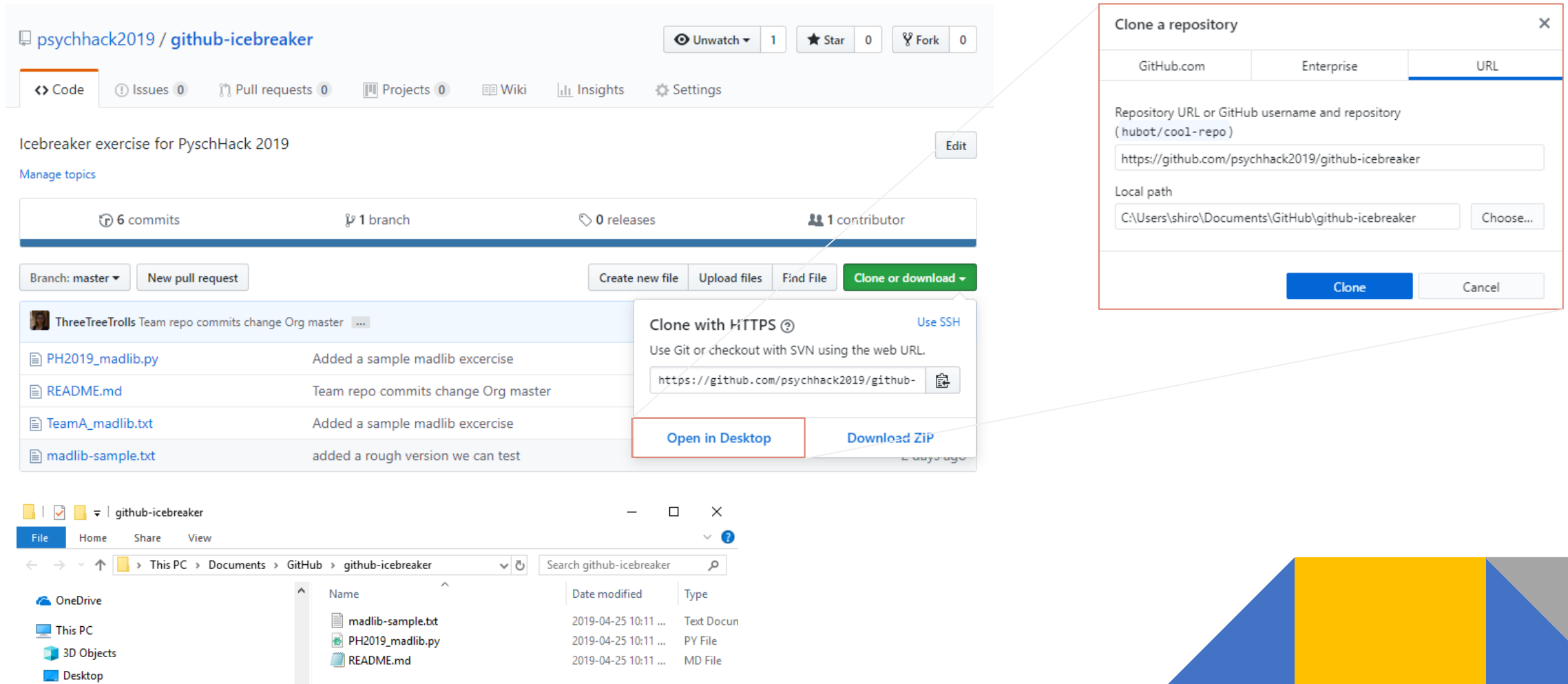


# Using Git

1. Download Git <https://git-scm.com/>  
GitDesktop <https://help.github.com/en/desktop/getting-started-with-github-desktop>
1. Go to this GitHub Classroom link <https://classroom.github.com/q/E7qOcD8z>
1. Join or create new team for your group



## 3a. Clone or download a local copy of the repository



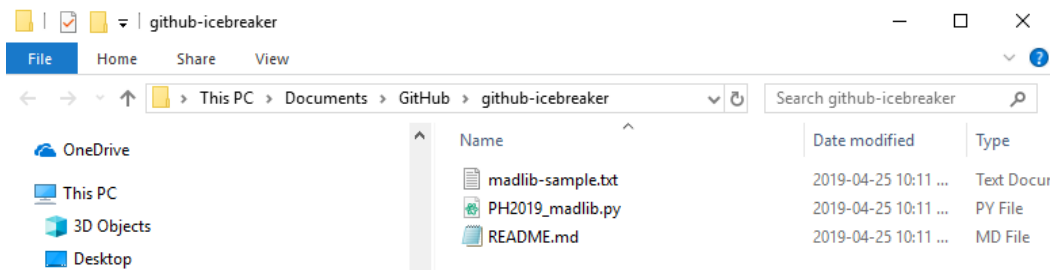
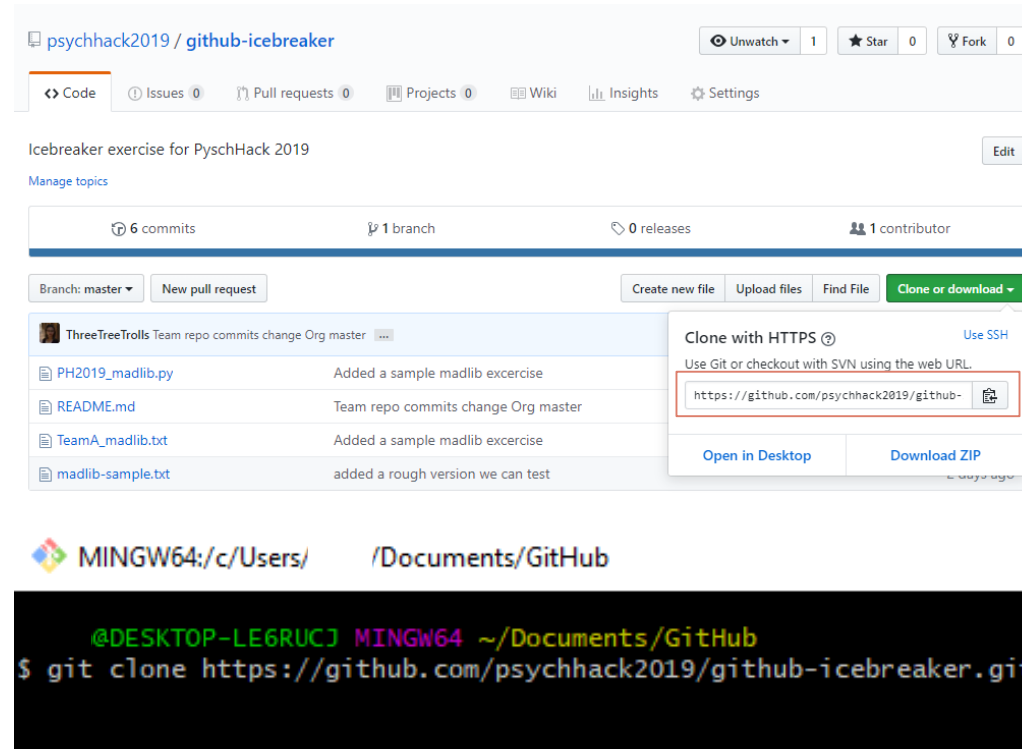
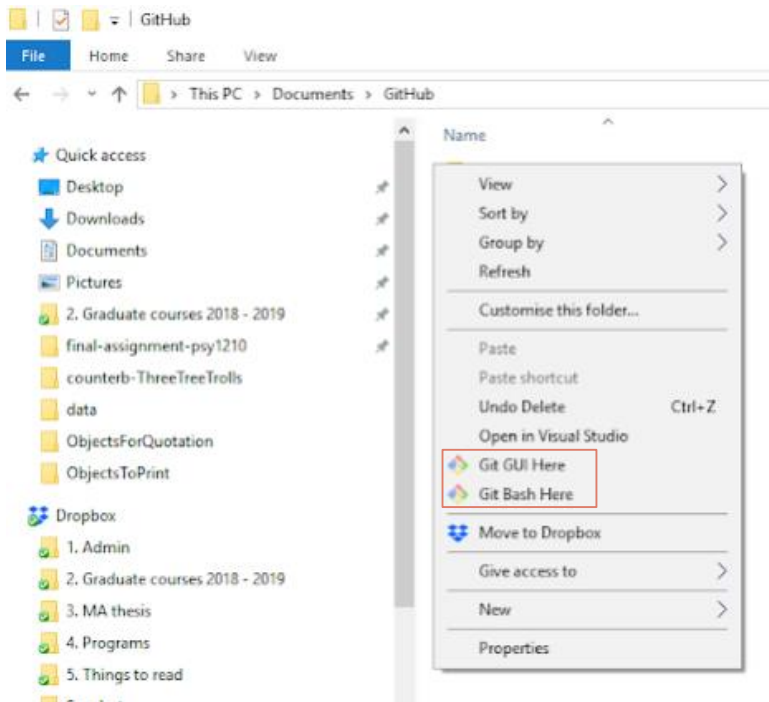
The screenshot displays the GitHub interface for the repository `psychhack2019 / github-icebreaker`. The repository description is "Icebreaker exercise for PyschHack 2019". The repository statistics show 6 commits, 1 branch, 0 releases, and 1 contributor. The "Clone or download" button is highlighted in green. A "Clone a repository" dialog box is open, showing the "URL" tab with the repository URL `https://github.com/psychhack2019/github-icebreaker` and a local path `C:\Users\shiro\Documents\GitHub\github-icebreaker`. Below the dialog box, a "Clone with HTTPS" dialog box is shown with the URL `https://github.com/psychhack2019/github-` and buttons for "Open in Desktop" and "Download ZIP".

Below the GitHub interface, a Windows File Explorer window is open, showing the local copy of the repository files. The path is `This PC > Documents > GitHub > github-icebreaker`. The files listed are:

Name	Date modified	Type
<code>madlib-sample.txt</code>	2019-04-25 10:11 ...	Text Docun
<code>PH2019_madlib.py</code>	2019-04-25 10:11 ...	PY File
<code>README.md</code>	2019-04-25 10:11 ...	MD File

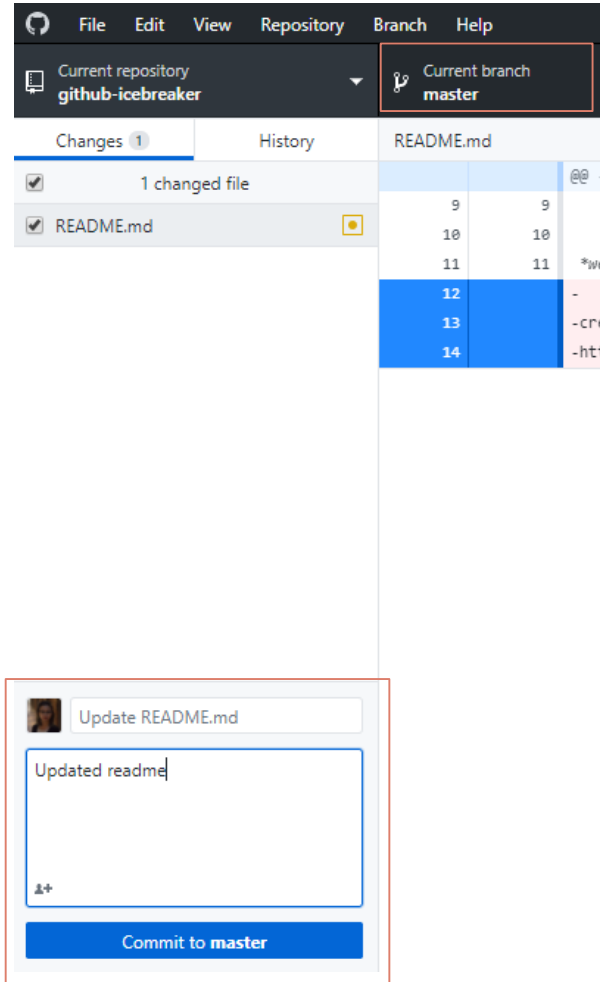


## 3b. Clone or download a local copy of the repository



4. Make changes to local files

5a. Commit and push changes to desired branch



The screenshot shows the Visual Studio Code interface. The top menu bar includes File, Edit, View, Repository, Branch, and Help. The 'Current repository' is 'github-icebreaker' and the 'Current branch' is 'master'. The 'Changes' panel on the left shows '1 changed file' and 'README.md'. The 'History' panel shows a list of commits with line numbers 9 through 14. A commit dialog is open at the bottom left, with the title 'Update README.md' and the message 'Updated readme'. The 'Commit to master' button is highlighted.

## No local changes

You have no uncommitted changes in your repository! Here are some friendly suggestions for what to do next.



### Push 1 commit to the origin remote

You have one local commit waiting to be pushed to GitHub

Always available in the toolbar when there are local commits waiting to be pushed or

Ctrl P

Push origin

Icebreaker exercise for PsychHack 2019

Edit

[Manage topics](#)

8 commits

1 branch

0 releases

1 contributor

Branch: master

New pull request

Create new file

Upload files

Find File

Clone or download

ThreeTreeTrolls Update README.md

Latest commit 6d1d1c5 a minute ago

## 5b. Commit and push changes to desired branch

```
MINGW64:/c/Users/annab/Documents/GitHub/github-icebreaker
(use "git add <file>..." to include in what will be committed)

__pycache__/
madlib.py
story.py
teamA_madlib.txt

annab@PSY-CANTFlex14 MINGW64 ~/Documents/GitHub/github-icebreaker (master|MERGIN
G)
$ git add -A
warning: LF will be replaced by CRLF in madlib.py.
The file will have its original line endings in your working directory.
warning: LF will be replaced by CRLF in story.py.
The file will have its original line endings in your working directory.

annab@PSY-CANTFlex14 MINGW64 ~/Documents/GitHub/github-icebreaker (master|MERGIN
G)
$ git commit -m"Updated icebreaker files"
[master e0c6a3f] Updated icebreaker files

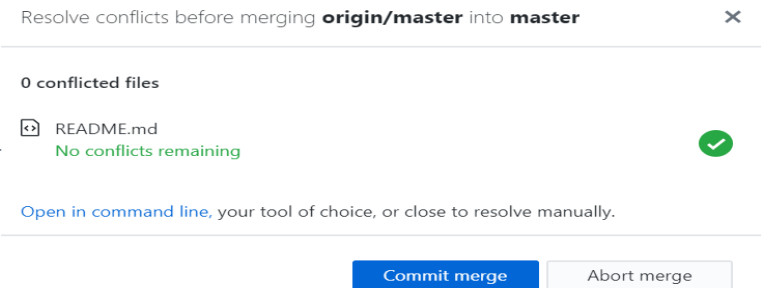
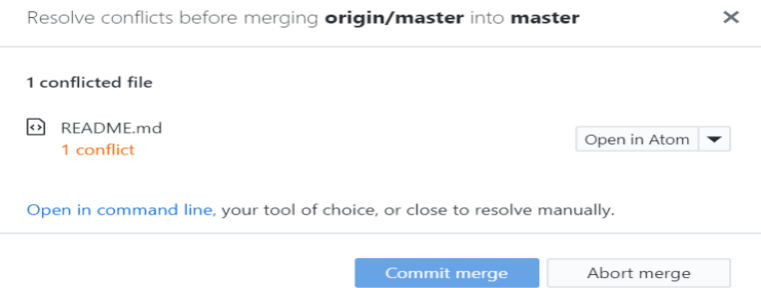
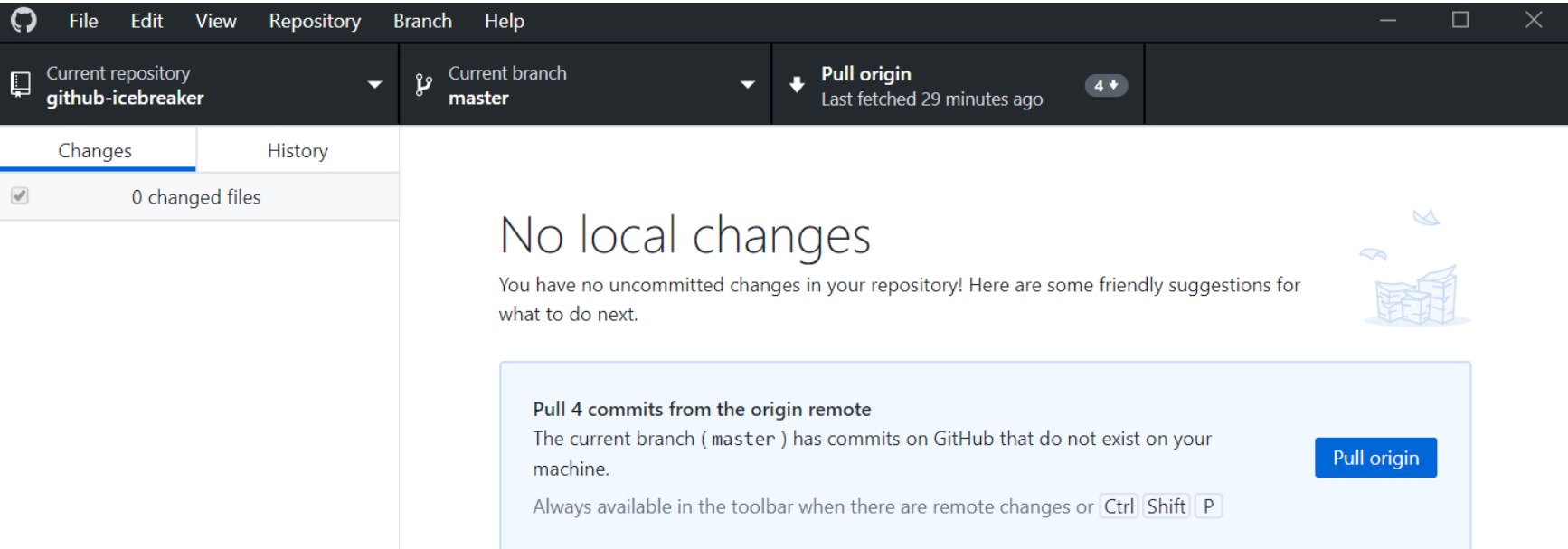
annab@PSY-CANTFlex14 MINGW64 ~/Documents/GitHub/github-icebreaker (master)
$ git push
Enumerating objects: 18, done.
Counting objects: 100% (18/18), done.
Delta compression using up to 8 threads.
Compressing objects: 100% (13/13), done.
Writing objects: 100% (14/14), 3.15 KiB | 645.00 KiB/s, done.
Total 14 (delta 6), reused 0 (delta 0)
remote: Resolving deltas: 100% (6/6), completed with 2 local objects.
To https://github.com/psychhack2019/github-icebreaker.git
6d1d1c5..e0c6a3f master -> master
```

> git add

> git commit -m "notes"

> git push

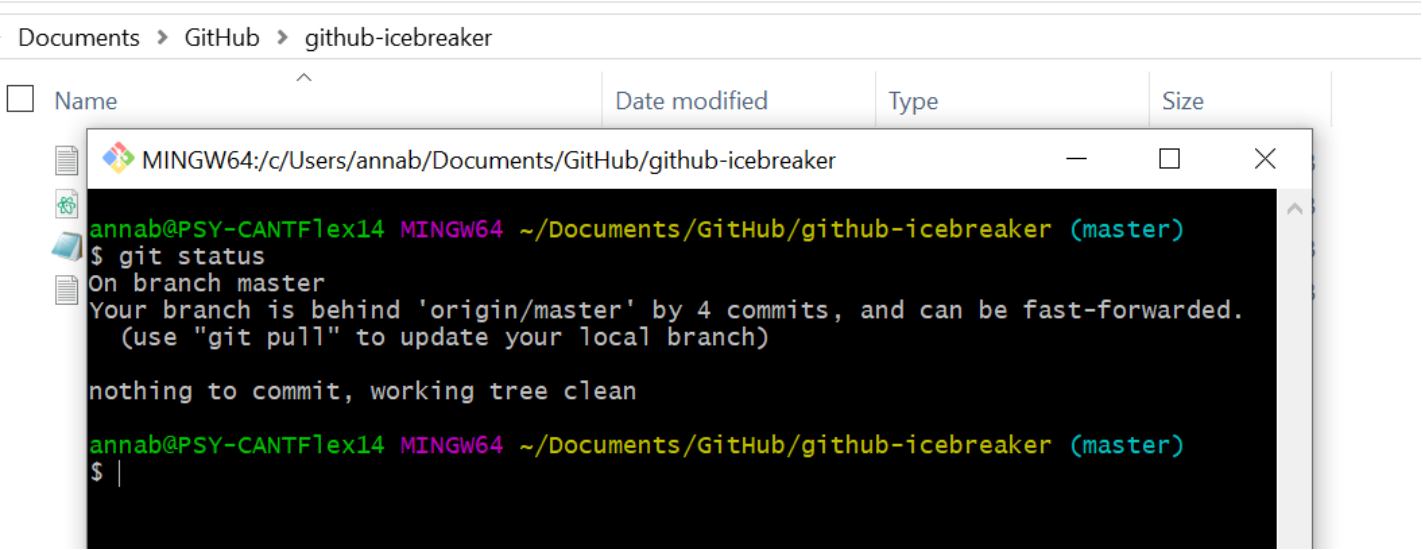
# 6a. Pull changes from the master



# 6b. Pull changes from the master

> git status

> git pull



```
<<<<<< HEAD
credit for sample
https://www.theodysseyonline.com/an-open-letter-to-the-people-who-dont-tip-their-servers
```

```
=====
*we can also cycle through each round = 1 word if we have less words
>>>>>> 6d1d1c53655539a7a0b7cc4b449609b4d655f440
```

```
<<<<<< HEAD
credit for sample:
https://www.theodysseyonline.com/an-open-letter-to-the-people-who-dont-tip-their-servers
```

```
=====
*we can also cycle through each round = 1 word if we have less words
>>>>>> 6d1d1c53655539a7a0b7cc4b449609b4d655f440
```

make new  
changes

delete conflict  
markers  
& unnecessary  
changes



# Madlib relay!

You and your teammates will work together to complete a madlib story

1. Accept the invitation to the GitHub Classroom assignment
2. Make edits to the file, commit, and push in a team relay race
3. When your team is done editing madlib.py have the last person run it
4. Check that the story text file has been generated successfully
5. Once your team is finished, have everyone sit back down

How the relay will work:

person 1: edit, commit, push > person 2: pull, edit, commit, push...

