Introduction to the Data Science Immersive (DSI)



Overview

- Bird's Eye
 - Your Instructors!
 - Daily Schedule
 - 12 Week Schedule
- Details
 - Assignments & Assessments
 - Attendance
- Github Intro with Jancsy

Your instructors!

- Tammy Lee tammy@galvanize.com
- Michael Jancsy michael.jancsy@galvanize.com
- Jeferson Bisconde jeferson.bisconde@galvanize.com
- Natalie Hunt natalie.hunt@galvanize.com
- Zein Tawil zein.tawil@galvanize.com
- Trenton Osborn os.trenton@gmail.com

You can reach us via slack 🗱

Daily Schedule

On most days

9:30 am: Mini-quiz

10:00 am: Lecture

11:00 am: Morning Sprint (individual)

1:00 pm: Lunch

2:15 pm: Lecture

3:15 pm: Afternoon Sprint (pair)

6:30 pm: Day ends, solutions released

12 Weeks in a Flash!

Week 1: Software Engineering & EDA

Week 2: Statistical Inference and Probability

Week 3: Regression and Regularization

Week 4: Supervised Learning

Week 5: Natural Language Processing (NLP)

Week 6: Unsupervised Learning



Break Week (+ Labor Day): 8/31 – 9/7



Week 7: Data Engineering

Week 8: Data Visualization, Fraud Prediction Case study

Week 9 : Capstone Project

Week 10: Capstone Project

Week 11: Capstone Project & Hiring Day

Week 12: Interview Prep

Get acquainted with...

Our Home: https://github.com/zipfian/welcome/tree/SF-July2015-Cohort

Solutions: https://github.com/zipfian/solns-july2015

Slack: https://gschool.slack.com/ #sf_ds_july_2015

Events Calendar: emails + reminders

Assessments

Consist of

- Mini-quizzes (most mornings)
- Individual sprints (individual.md)
- Pair sprints (pair.md)
- Assessments (usually every couple weeks)

To help you track your progress and understanding of the material so that you can focus on the skills you need to improve

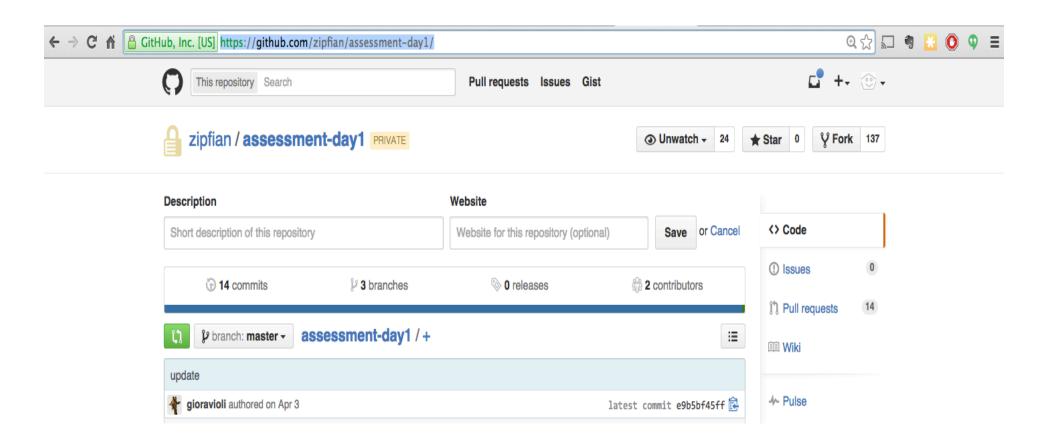
Attendance

- Please do your best to come to class everyday.
 It is an accelerated program that builds on itself!
- Let Tammy know if you won't be here

Using Git for Today's Assessment

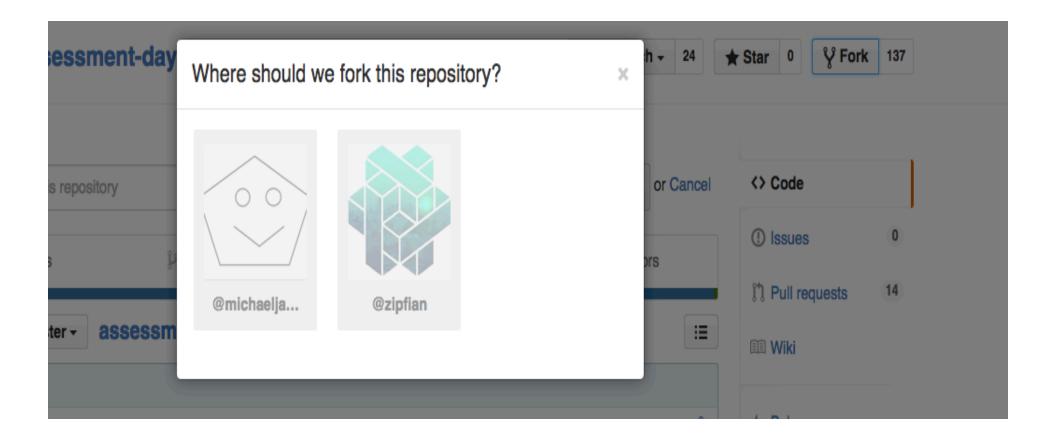
Find the Assessment on GitHub

https://github.com/zipfian/assessment-day1

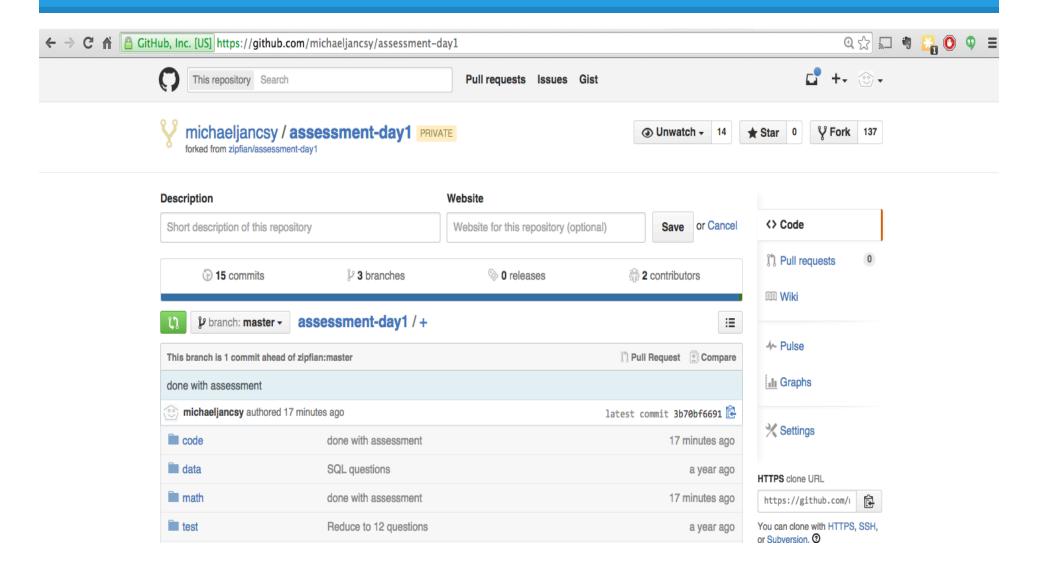


Fork the Assessment Repo

- click the *Fork* button on the top right
- choose your GitHub account

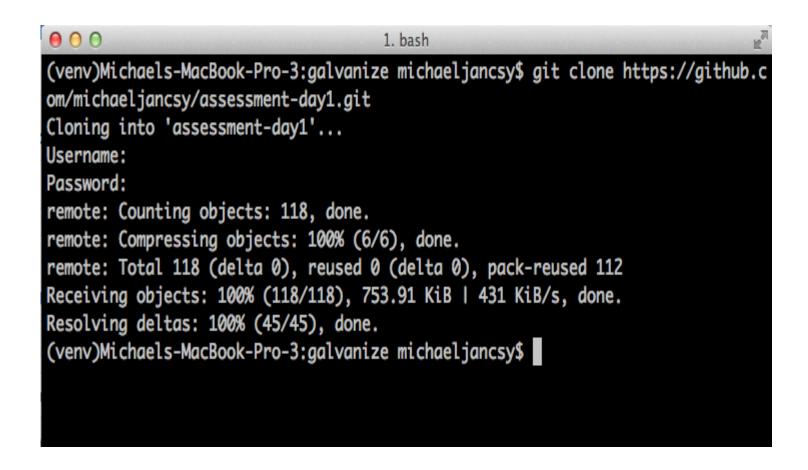


Find the Assessment in Your Account



Clone the Assessment Repo Locally

git clone https://github.com/(your name)/assessment-day1.git



Run Tests in Assessment Directory

Run: make test

If the tests don't run, flag down an instructor or DSR.

Open Assessment Folder in Sublime

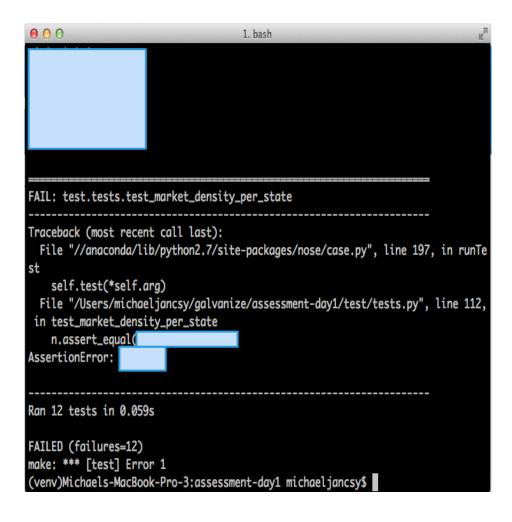


Fill in Your Answers in Sublime

assessment.py and math.txt

Test Your Code

make test



Check that your files have changed

git status

```
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                                      1. bash
(venv)Michaels-MacBook-Pro-3:assessment-day1 michaeljancsy$ git status
# On branch master
# Changes not staged for commit:
    (use "git add <file>..." to update what will be committed)
    (use "git checkout -- <file>..." to discard changes in working directory)
        modified:
                    code/assessment.py
        modified:
                    math/math_assessment.txt
no changes added to commit (use "git add" and/or "git commit -a")
(venv)Michaels-MacBook-Pro-3:assessment-day1 michaeljancsy$
```

Add Your Changes

git add .

```
000
                                     1. bash
(venv)Michaels-MacBook-Pro-3:assessment-day1 michaeljancsy$ git status
# On branch master
# Changes not staged for commit:
    (use "git add <file>..." to update what will be committed)
    (use "git checkout -- <file>..." to discard changes in working directory)
        modified:
                  code/assessment.py
        modified:
                    math/math_assessment.txt
no changes added to commit (use "git add" and/or "git commit -a")
(venv)Michaels-MacBook-Pro-3:assessment-day1 michaeljancsy$ git add .
(venv)Michaels-MacBook-Pro-3:assessment-day1 michaeljancsy$
```

Commit Your Changes

git commit -m "done with assessment"

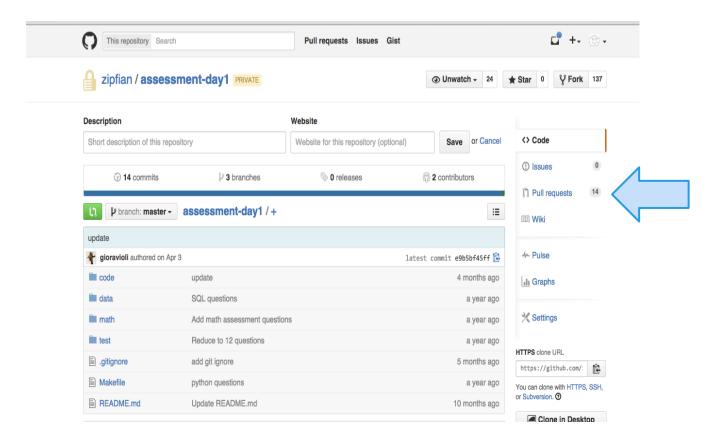
```
\Theta \Theta \Theta
                                      1. bash
(venv)Michaels-MacBook-Pro-3:assessment-day1 michaeljancsy$ git status
# On branch master
# Changes not staged for commit:
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    (use "git checkout -- <file>..." to discard changes in working directory)
        modified:
                    code/assessment.py
                    math/math_assessment.txt
        modified:
no changes added to commit (use "git add" and/or "git commit -a")
(venv)Michaels-MacBook-Pro-3:assessment-day1 michaeljancsy$ git add .
(venv)Michaels-MacBook-Pro-3:assessment-day1 michaeljancsy$ git commit -m "done
with assessment"
[master c4edf9b] done with assessment
 2 files changed, 2 insertions(+), 2 deletions(-)
(venv)Michaels-MacBook-Pro-3:assessment-day1 michaeljancsy$
```

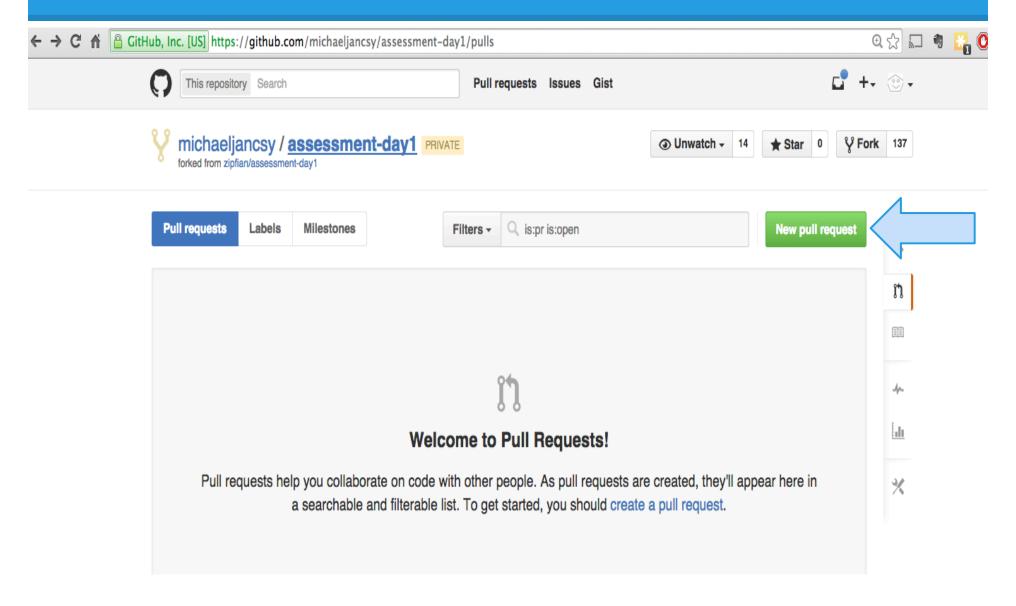
Push Your Changes to Your Account

git push

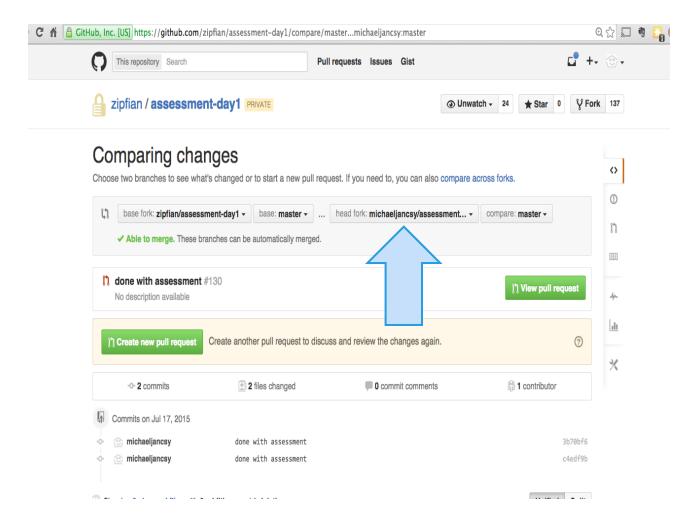
```
(venv)Michaels-MacBook-Pro-3:assessment-day1 michaeljancsy$ git push
Username:
Password:
Counting objects: 11, done.
Delta compression using up to 8 threads.
Compressing objects: 100% (6/6), done.
Writing objects: 100% (6/6), 541 bytes, done.
Total 6 (delta 4), reused 0 (delta 0)
To https://github.com/michaeljancsy/assessment-day1.git
    3b70bf6..c4edf9b master -> master
(venv)Michaels-MacBook-Pro-3:assessment-day1 michaeljancsy$
```

- Pull requests are how assessments and assignments are submitted
- To begin, go to github.com/(your username)/assessment-day1
- Click on "Pull requests"

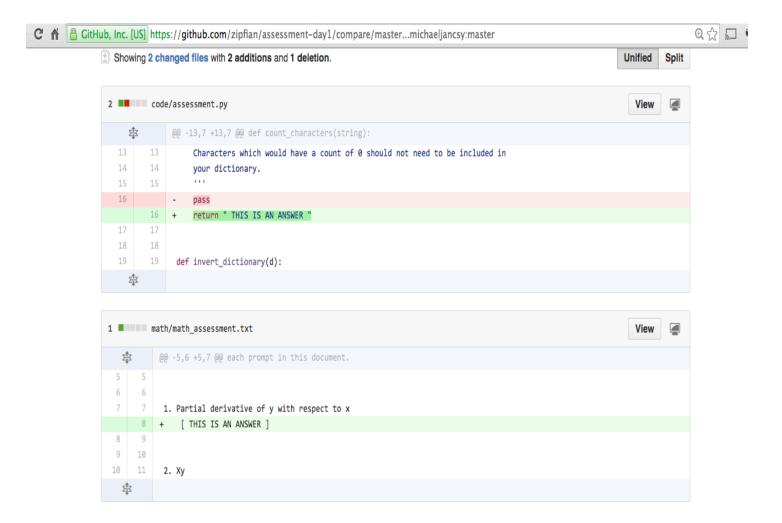




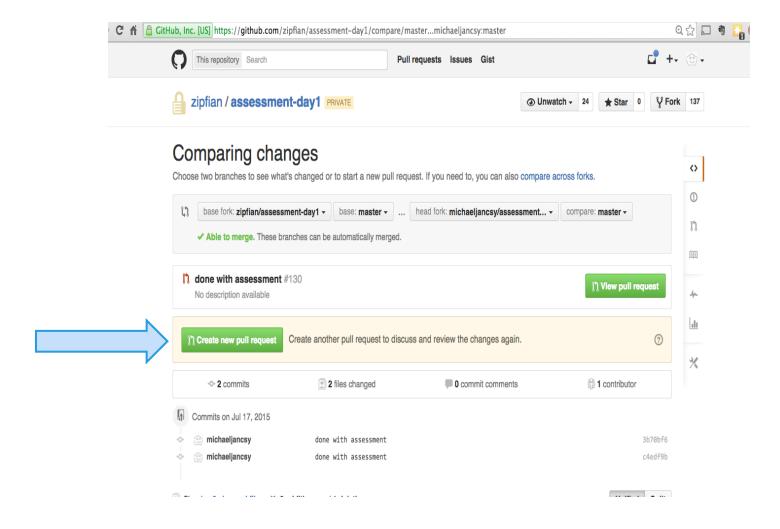
Select your fork as the "head fork"



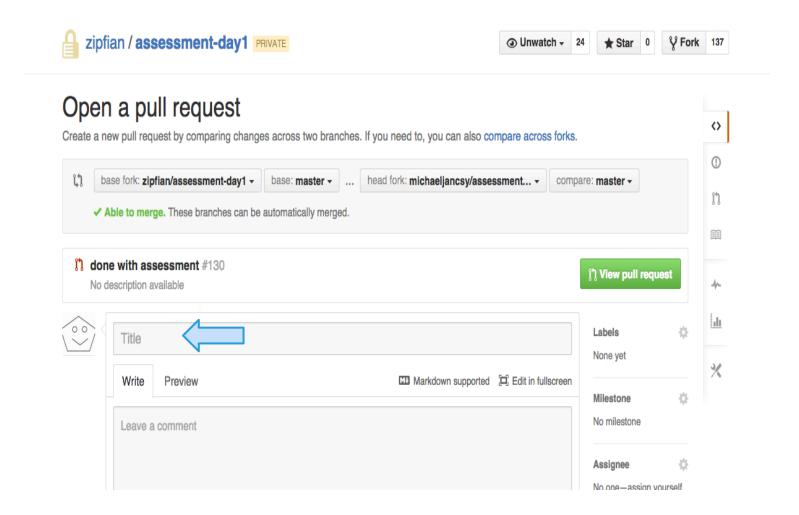
Scroll down to see the changed files



Click "Create a new pull request"



Type your full name as the title



Click "Create pull request"

