15.453 Finance Research Practicum

Coding Recitation 1: Introduction to Github

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Brain Warm Up

- Using only four ZERO'S (0) and any Mathematical Operations/Symbols, obtain the number 24.

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- Using only four ZERO'S (0) and any Mathematical Operations/Symbols, obtain the number 24.
- $(0! + 0! + 0! + 0!)! = 24$

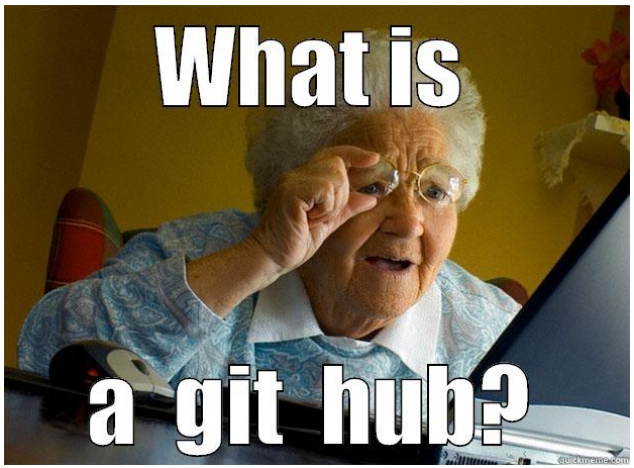
Programming Resources: Week 1

- **DataCamp**: Sign Up Link
  https://goo.gl/QQdWPF
- **DataCamp**: Introduction to Python
  https://www.datacamp.com/courses/intro-to-python-for-data-science
- **DataCamp**: Introduction to R
  https://www.datacamp.com/courses/free-introduction-to-r
- **DataCamp**: Introduction to Git
  https://www.datacamp.com/courses/introduction-to-git-for-data-science
- **Github Lab**: Introduction to Github
  https://lab.github.com/githubtraining/introduction-to-github

Agenda: Week 1

01/09 (Weds),	Intro to Github	5-6 pm	Location: E51-325
01/10 (Thurs),	Intro to R	4-5 pm	Location: E51-325
01/10 (Thurs),	Office hours for R	5-6 pm	Location: E51-325
01/11 (Fri),	Intro to Python	1-2 pm	Location: E51-315
01/11 (Fri),	Office hours for Python	2-3 pm	Location: E51-325

What is Git and Github ?



- **Git**: Most popular version control system[a] (mercurial, svn, perforce...)
- **Github**: allows you to host projects using git.

[a] stores snapshots of a project over time.

Why?

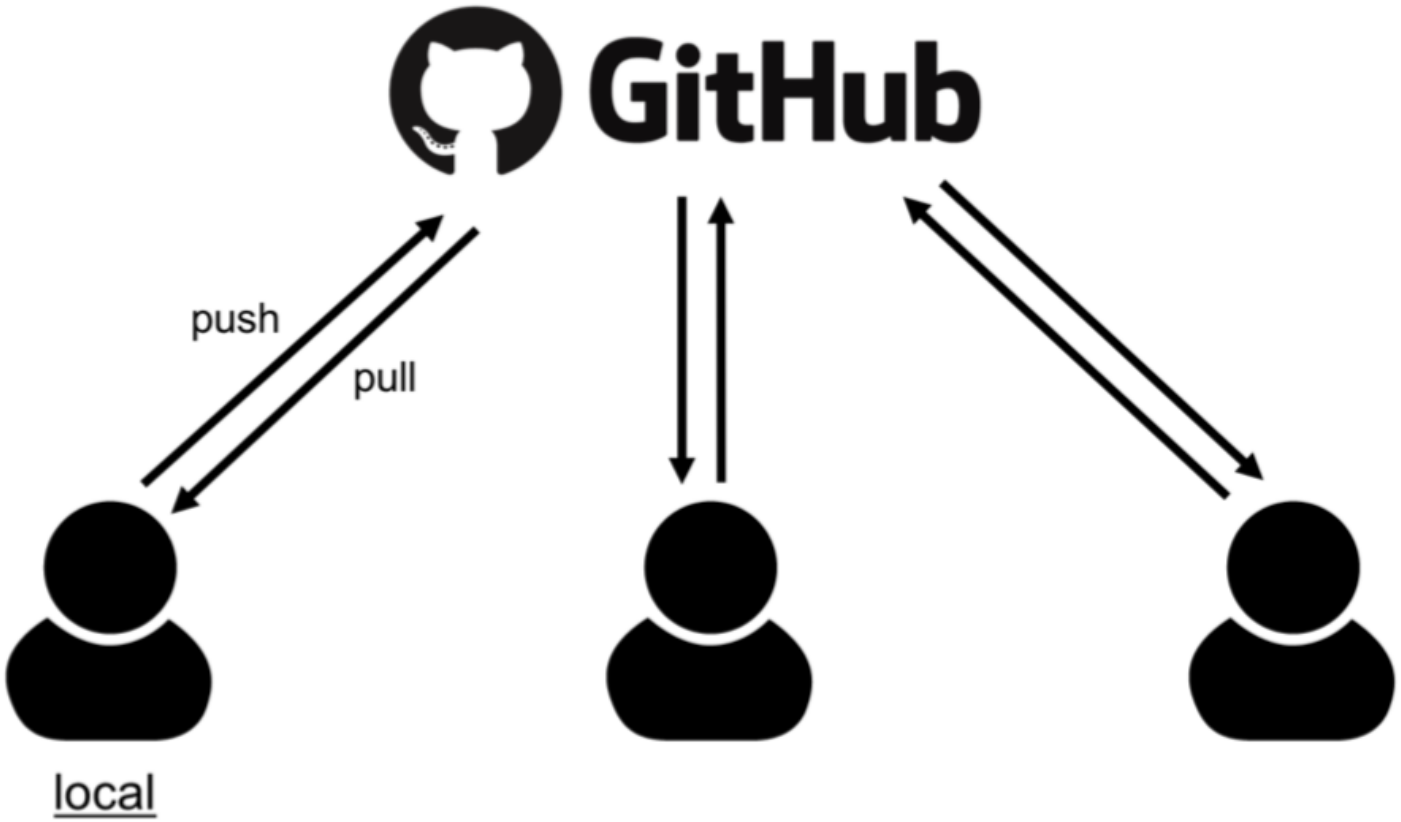
- Everyone uses it.
- Back up in the cloud.
- Granularity
- Collaboration

Glossary[1]

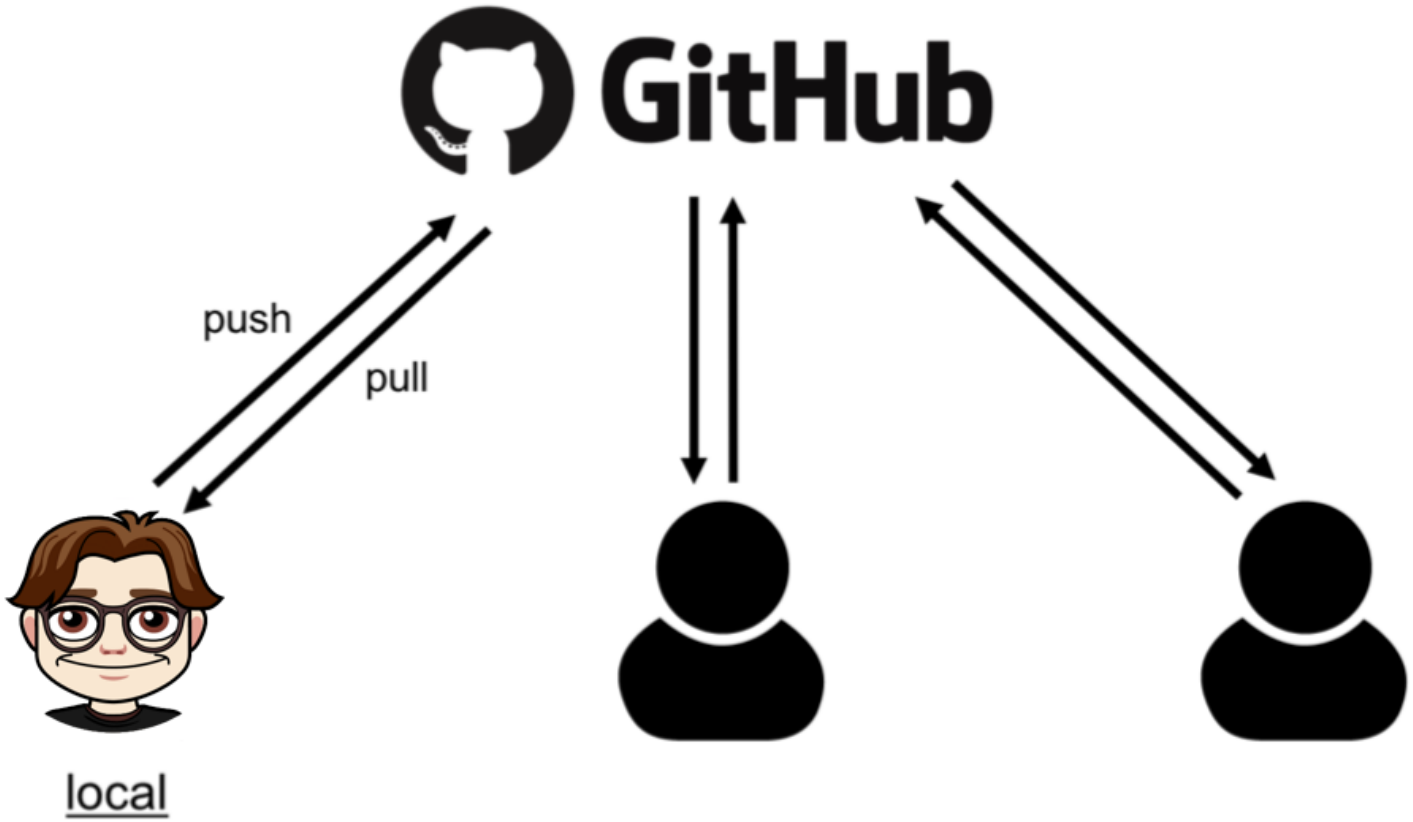
- **Repository**: the project that contains all files.
- **Commit**: individual change to a file (or set of files)
- **Remote**: Repository in Github
- **Local**: Repository in your machine
- **Clone** Copy of a repository that lives on your computer
- **Pull**: fetch in changes and merge them in local repository.
- **Push**: send your committed changes to the remote repository

[1] https://help.github.com/articles/github-glossary/

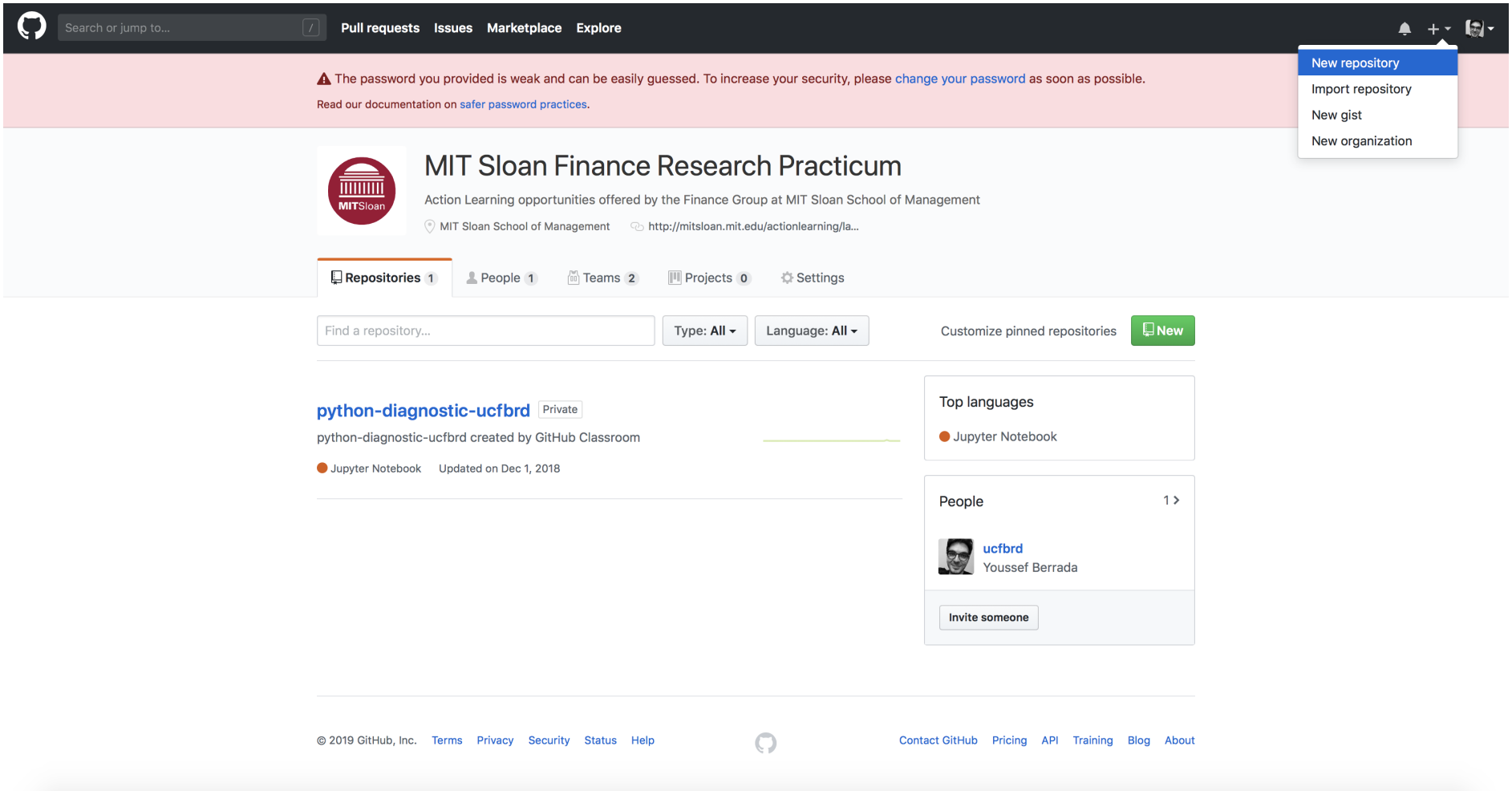
Workflow



Workflow



Create a new Repository



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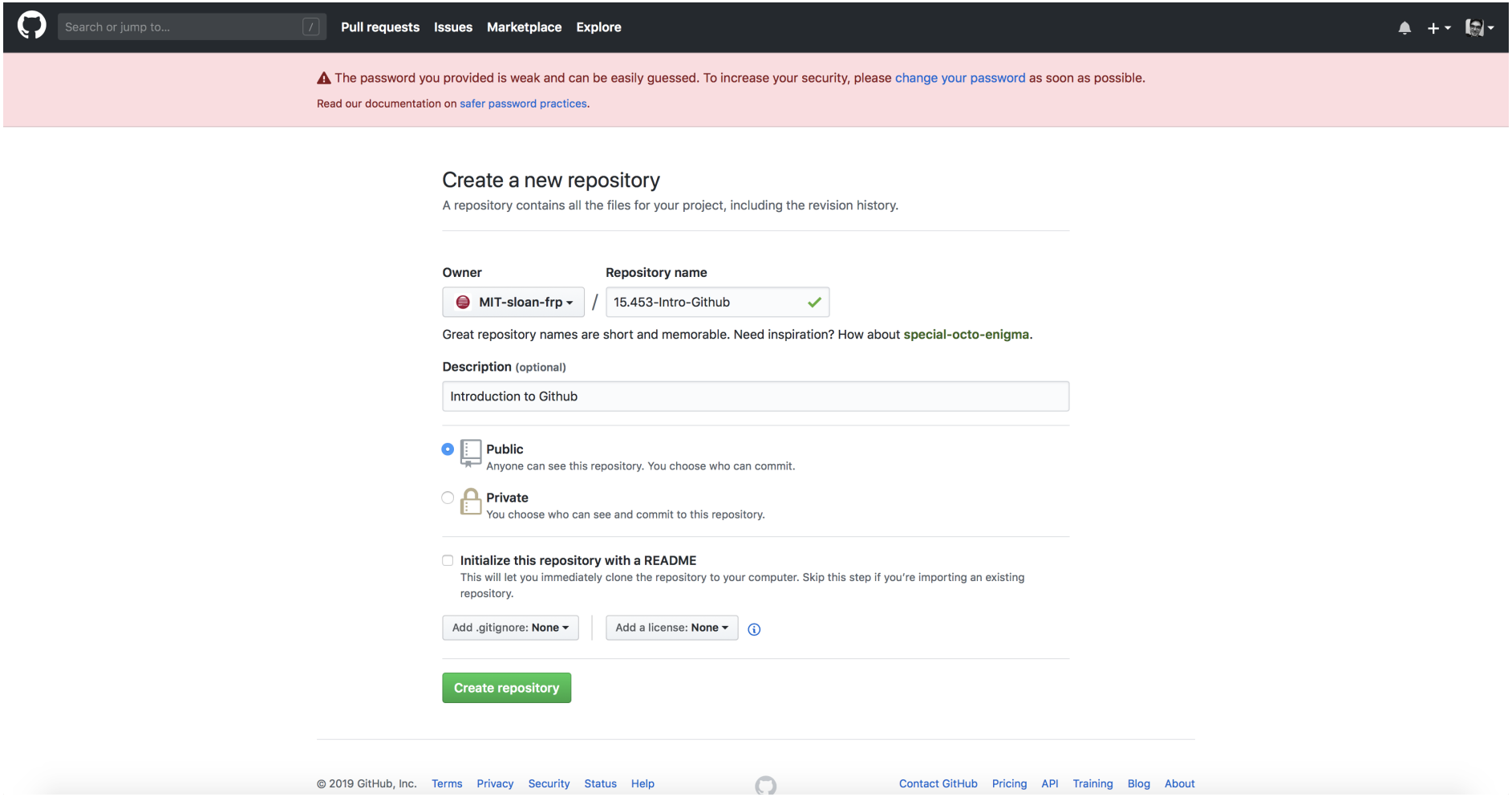

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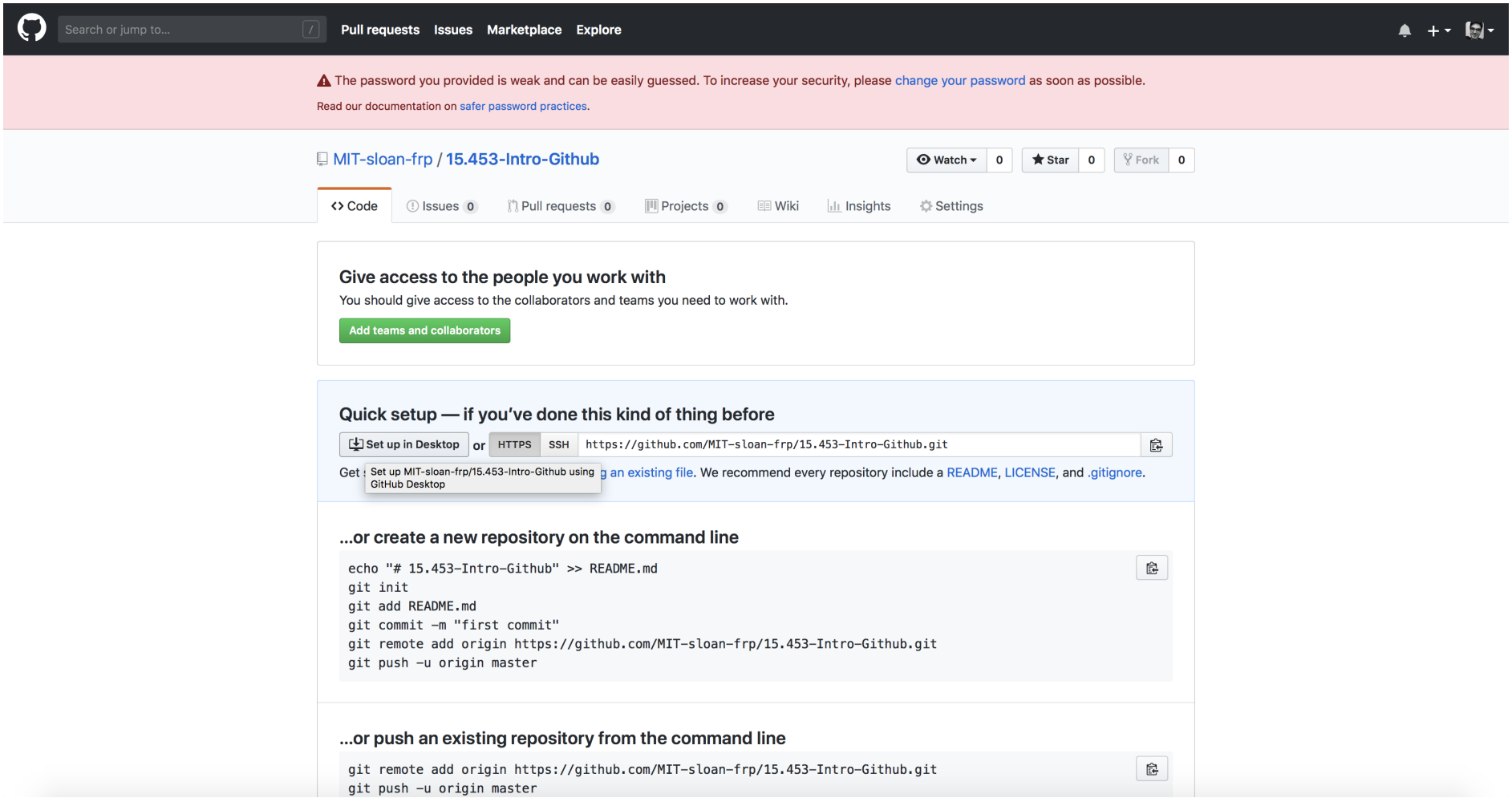

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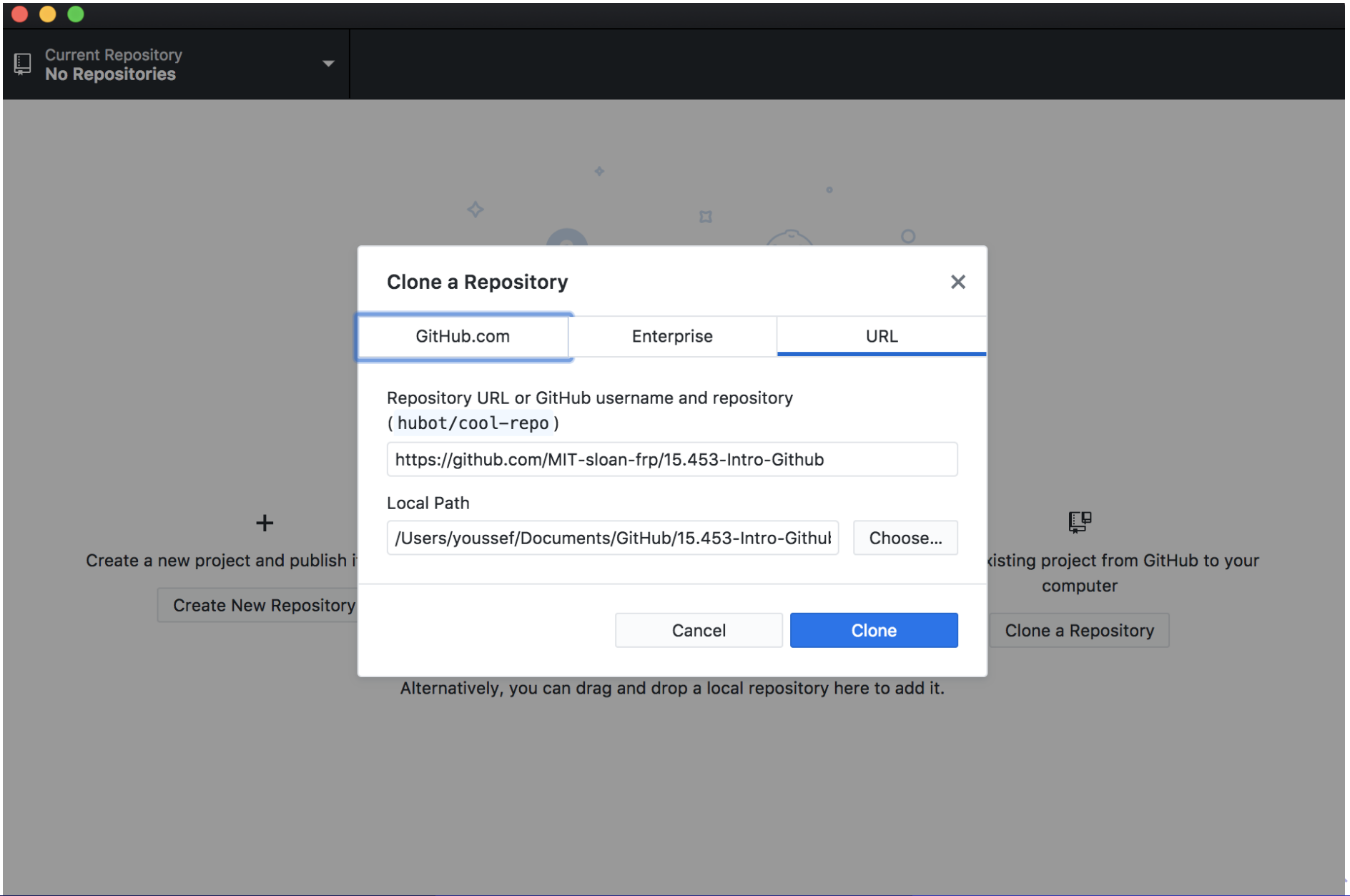
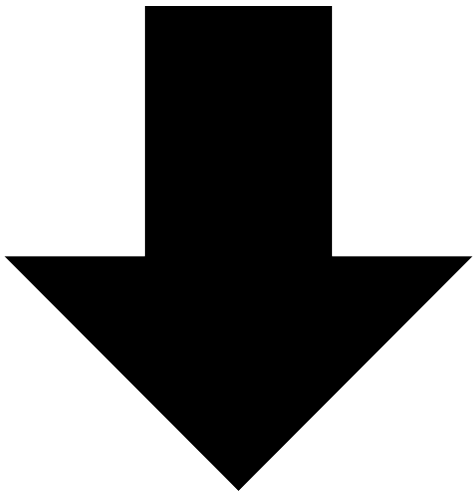


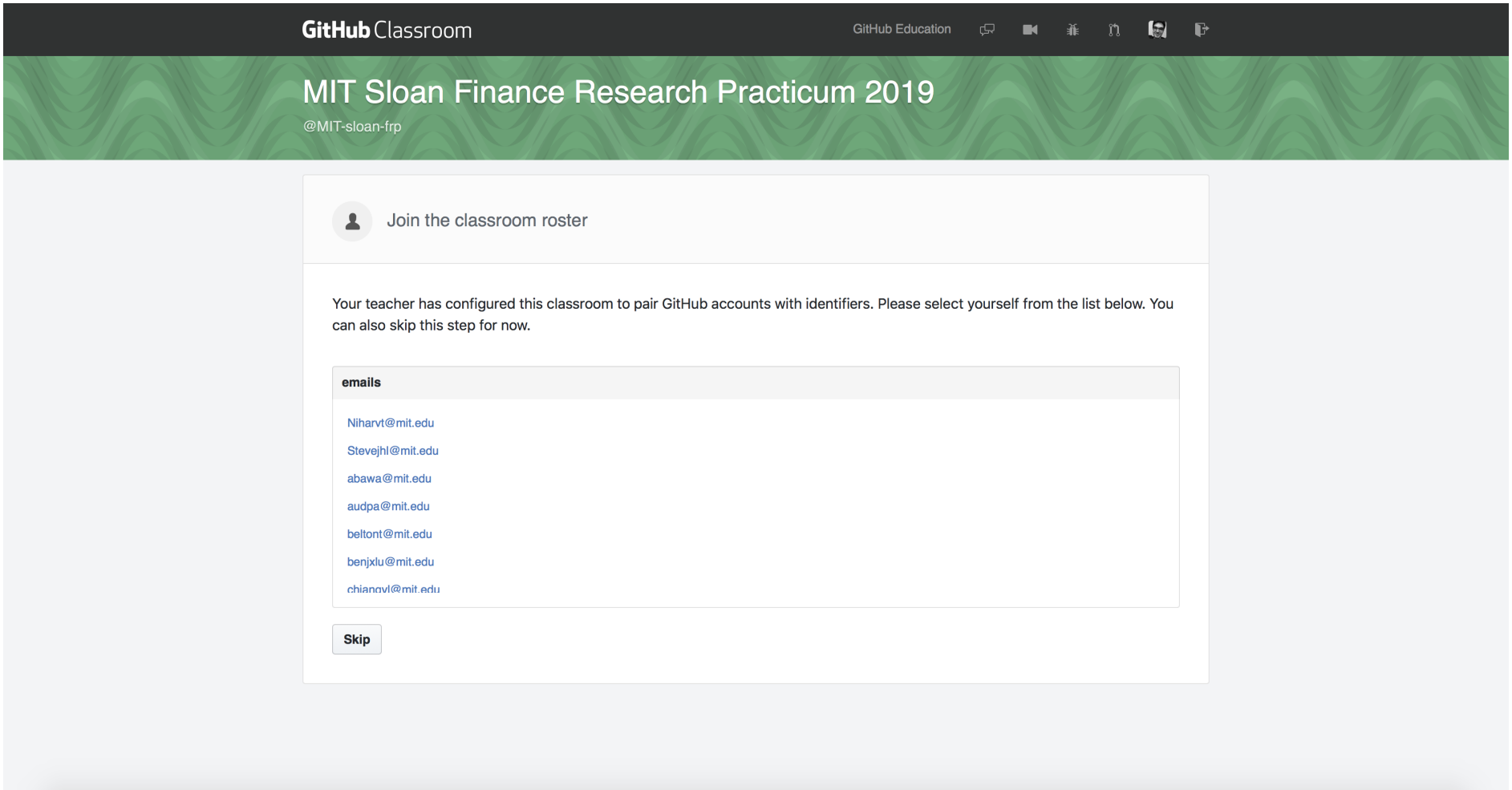
Github Classroom:Workshop

https://classroom.github.com/a/rGnZEvRZ



https://github.com/MIT-sloan-frp/15.453-Intro-Github

Create a new Assignment



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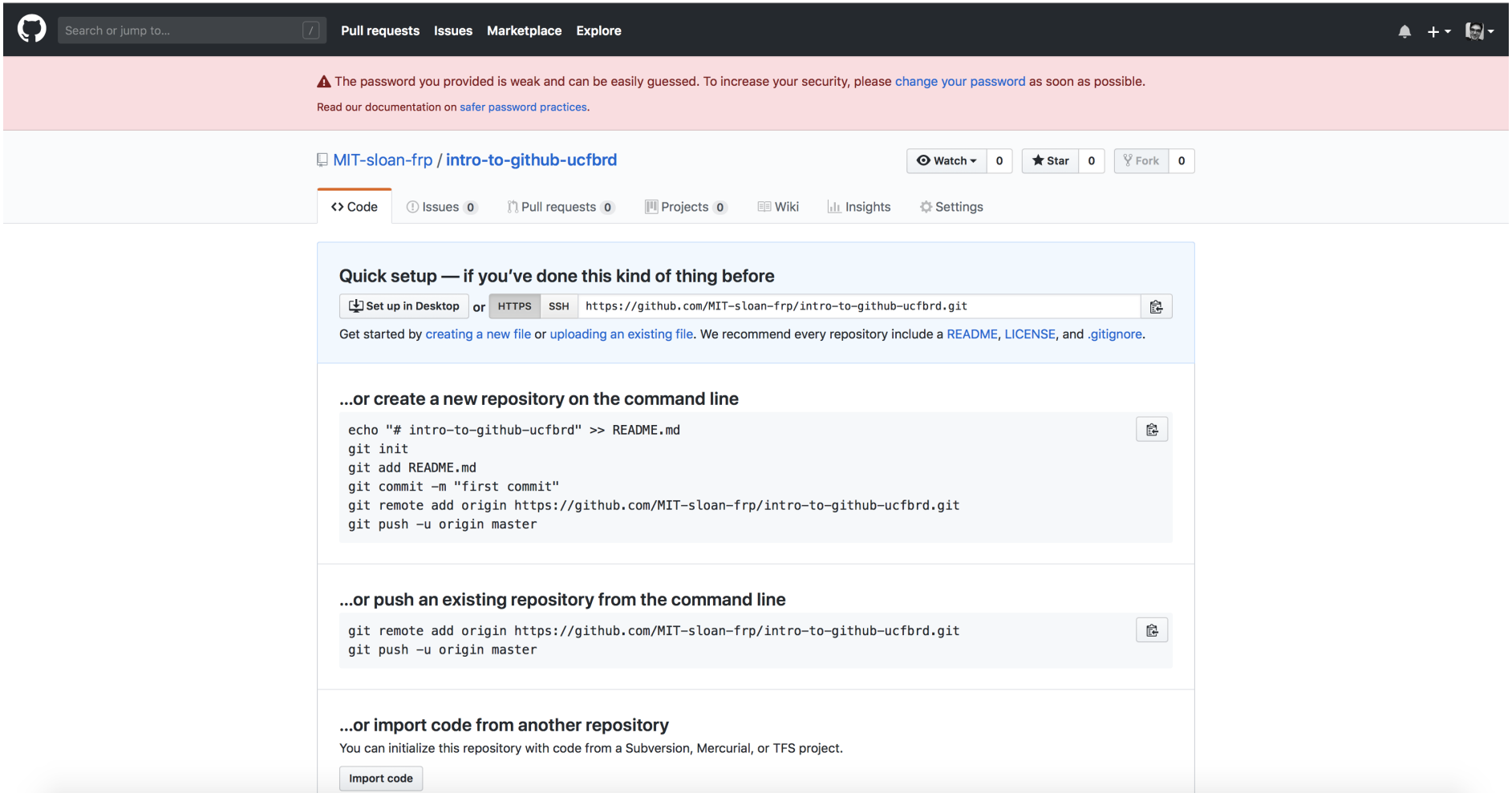

Workshop Solution

DEMO

Conclusion: Meme Theory 101