

15.453 Finance Research Practicum

Coding Recitation 1: Introduction to Github

Youssef Berrada

January 9, 2019

Brain Warm Up

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

Brain Warm Up

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

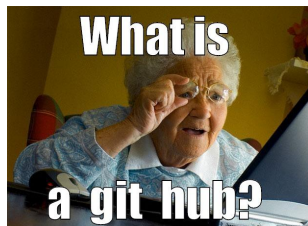
Programming Resources: Week 1

- **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.

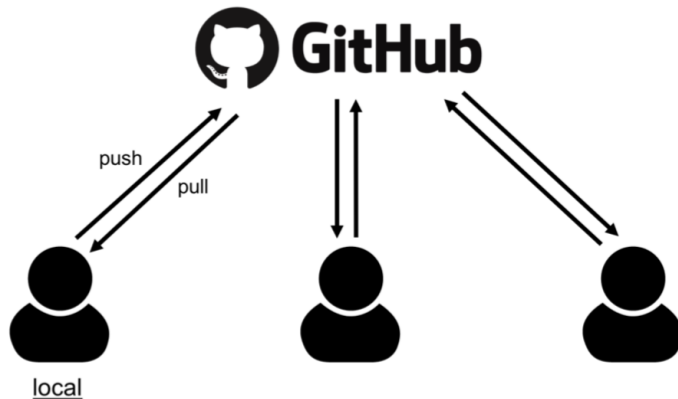
^astores snapshots of a project over time.

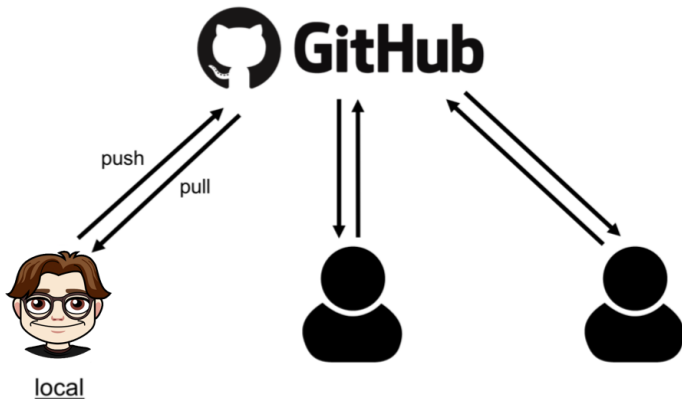
Why?

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

- **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/>






Create a new Repository

The screenshot shows the GitHub interface for the repository 'MIT Sloan Finance Research Practicum'. At the top, there's a navigation bar with links for Pull requests, Issues, Marketplace, and Explore. A search bar is on the left. A warning banner indicates a weak password. The repository profile shows the MIT Sloan logo, name, and description: 'Action Learning opportunities offered by the Finance Group at MIT Sloan School of Management'. Below this are tabs for Repositories (1), People (1), Teams (2), Projects (0), and Settings. A search bar for repositories is present, along with filters for Type and Language. The main content area displays the repository 'python-diagnostic-ucfbrd' as a private Jupyter Notebook created by GitHub Classroom, updated on Dec 1, 2018. On the right, there are sections for 'Top languages' (Jupyter Notebook) and 'People' (Youssef Berrada), with an 'Invite someone' button. The footer contains copyright information for 2019 GitHub, Inc. and various links like Terms, Privacy, Security, Status, Help, Contact GitHub, Pricing, API, Training, Blog, and About.

Search or jump to... Pull requests Issues Marketplace Explore

⚠ The password you provided is weak and can be easily guessed. To increase your security, please [change your password](#) as soon as possible.
Read our documentation on [safer password practices](#).


 **MIT Sloan Finance Research Practicum**
Action Learning opportunities offered by the Finance Group at MIT Sloan School of Management
MIT Sloan School of Management <http://mitsloan.mit.edu/actionlearning/a...>


Repositories 1 People 1 Teams 2 Projects 0 Settings

Find a repository... Type: All Language: All Customize pinned repositories [New](#)





python-diagnostic-ucfbrd Private
python-diagnostic-ucfbrd created by GitHub Classroom
Jupyter Notebook Updated on Dec 1, 2018


Top languages
Jupyter Notebook

People 1 >
 **ucfbrd**
Youssef Berrada
[Invite someone](#)

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Create a new Repository

 Search or jump to... 7 [Pull requests](#) [Issues](#) [Marketplace](#) [Explore](#)   

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[Read our documentation on safer password practices.](#)


Create a new repository

A repository contains all the files for your project, including the revision history.

Owner

Repository name


 MIT-sloan-frp

 / 15.453-Intro-Github 


Great repository names are short and memorable. Need inspiration? [How about special-octo-enigmas.](#)

Description (optional)

Introduction to Github

☒  **Public**


Anyone can see this repository. You choose who can commit.

☐  **Private**


You choose who can see and commit to this repository.

☐ **Initialize this repository with a README**
This will let you immediately clone the repository to your computer. Skip this step if you're importing an existing repository.

Add gitignore: **None**

Add a license: **None** 

Create repository

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[Contact GitHub](#) [Pricing](#) [API](#) [Training](#) [Blog](#) [About](#)

Create a new Repository

The screenshot shows the GitHub interface for creating a new repository. At the top, there's a navigation bar with 'Pull requests', 'Issues', 'Marketplace', and 'Explore'. Below this is a warning message about password security. The repository name 'MIT-sloan-frp / 15.453-Intro-Github' is displayed, along with 'Watch', 'Star', and 'Fork' buttons. The 'Code' tab is selected, showing options for 'Issues', 'Pull requests', 'Projects', 'Wiki', 'Insights', and 'Settings'. A section titled 'Give access to the people you work with' includes a button to 'Add teams and collaborators'. The 'Quick setup' section offers three methods: 'Set up in Desktop', 'HTTPS', and 'SSH', with a text input field for the repository URL. Below this, the '...or create a new repository on the command line' section provides a series of git commands to initialize a new repository. Finally, the '...or push an existing repository from the command line' section shows the commands to add a remote and push the code.

Search or jump to... [Pull requests](#) [Issues](#) [Marketplace](#) [Explore](#)

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MIT-sloan-frp / 15.453-Intro-Github Watch 0 Star 0 Fork 0

Code Issues 0 Pull requests 0 Projects 0 Wiki Insights Settings

Give access to the people you work with
You should give access to the collaborators and teams you need to work with.
[Add teams and collaborators](#)

Quick setup — if you've done this kind of thing before

[Set up in Desktop](#) or [HTTPS](#) [SSH](#)

Get: Set up MIT-sloan-frp/15.453-Intro-Github using [an existing file](#). We recommend every repository include a [README](#), [LICENSE](#), and [.gitignore](#).
[GitHub Desktop](#)

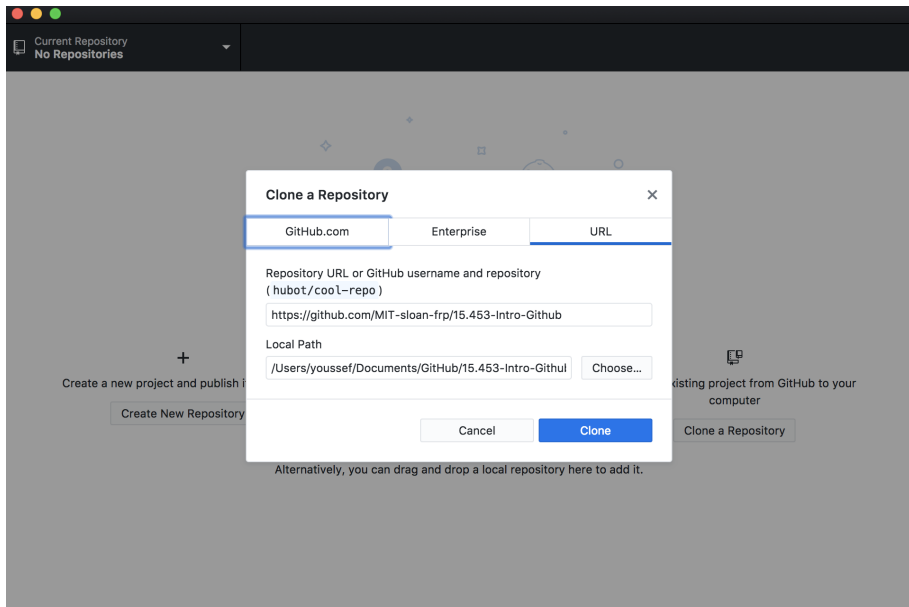
...or create a new repository on the command line

```
echo "# 15.453-Intro-Github" >> README.md
git init
git add README.md
git commit -m "first commit"
git remote add origin https://github.com/MIT-sloan-frp/15.453-Intro-Github.git
git push -u origin master
```

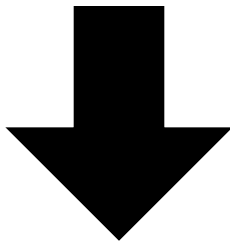
...or push an existing repository from the command line

```
git remote add origin https://github.com/MIT-sloan-frp/15.453-Intro-Github.git
git push -u origin master
```

Create a new Repository

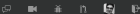


<https://classroom.github.com/a/rGnZEvRZ>




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

Create a new Assignment

GitHub ClassroomGitHub Education

MIT Sloan Finance Research Practicum 2019

@MIT-sloan-frp

 Join the classroom roster

Your teacher has configured this classroom to pair GitHub accounts with identifiers. Please select yourself from the list below. You can also skip this step for now.

emails

hiharvt@mit.edu

SteveJH@mit.edu

sbawa@mit.edu

audpa@mit.edu

beltont@mit.edu

berjdx@mit.edu

chianovf@mit.edu

Skip

Create a new Assignment

Search or jump to... Pull requests Issues Marketplace Explore

⚠ The password you provided is weak and can be easily guessed. To increase your security, please [change your password](#) as soon as possible.
Read our documentation on [safer password practices](#).

MIT-sloan-frp / intro-to-github-ucfbrd Watch 0 Star 0 Fork 0

Code Issues 0 Pull requests 0 Projects 0 Wiki Insights Settings

Quick setup — if you've done this kind of thing before

[Set up in Desktop](#) or [HTTPS](#) [SSH](#) `https://github.com/MIT-sloan-frp/intro-to-github-ucfbrd.git`

Get started by [creating a new file](#) or [uploading an existing file](#). We recommend every repository include a [README](#), [LICENSE](#), and [.gitignore](#).

...or create a new repository on the command line

```
echo "# intro-to-github-ucfbrd" >> README.md
git init
git add README.md
git commit -m "first commit"
git remote add origin https://github.com/MIT-sloan-frp/intro-to-github-ucfbrd.git
git push -u origin master
```

...or push an existing repository from the command line

```
git remote add origin https://github.com/MIT-sloan-frp/intro-to-github-ucfbrd.git
git push -u origin master
```

...or import code from another repository

You can initialize this repository with code from a Subversion, Mercurial, or TFS project.

[Import code](#)

DEMO

Conclusion: Meme Theory 101

