

# **10-minutes to Git and GitHub**

**by Sam Lau**

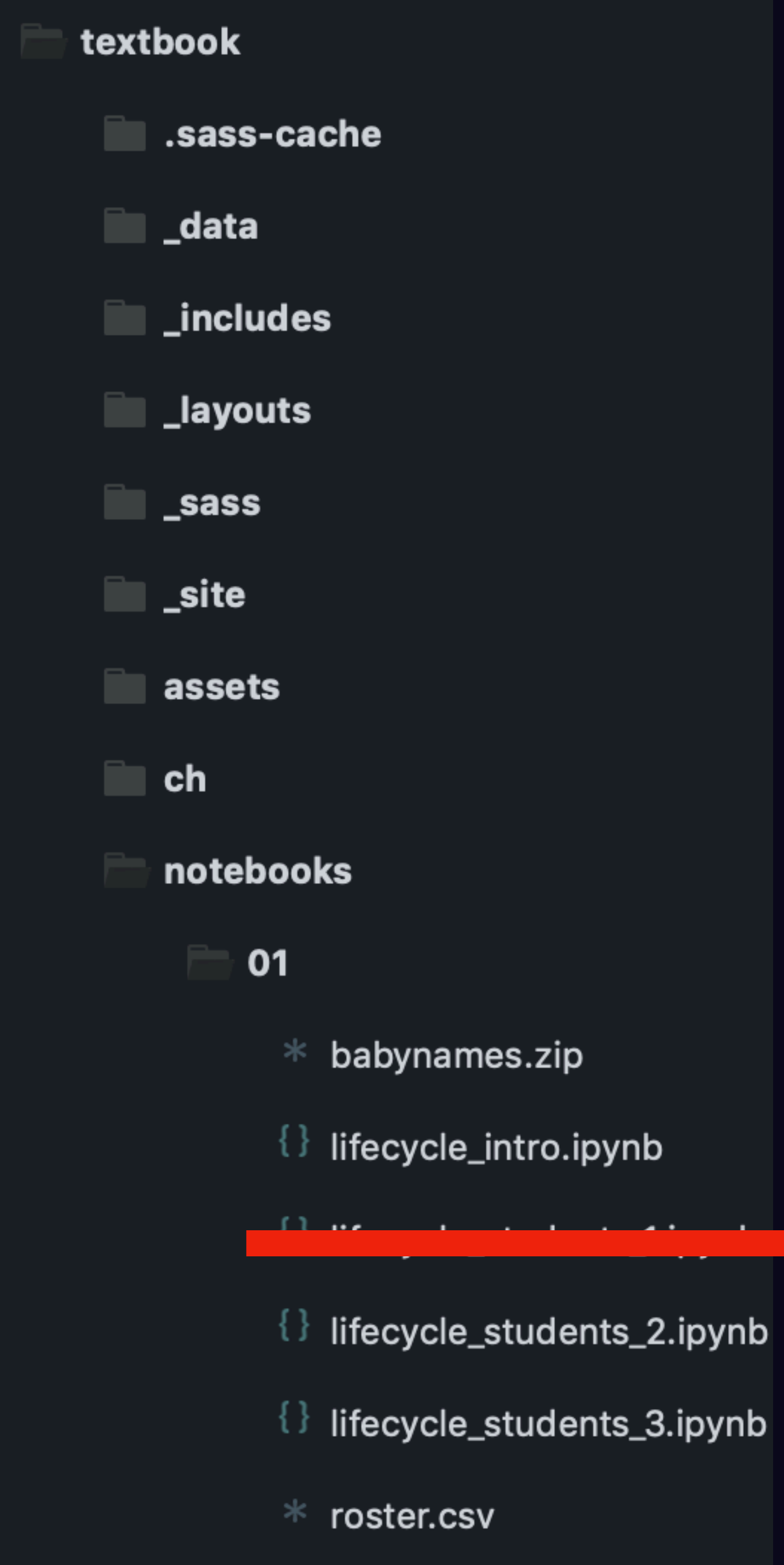


Git is a **free and open source** distributed version control system designed to handle everything from small to very large projects with speed and efficiency.

# **In English:**

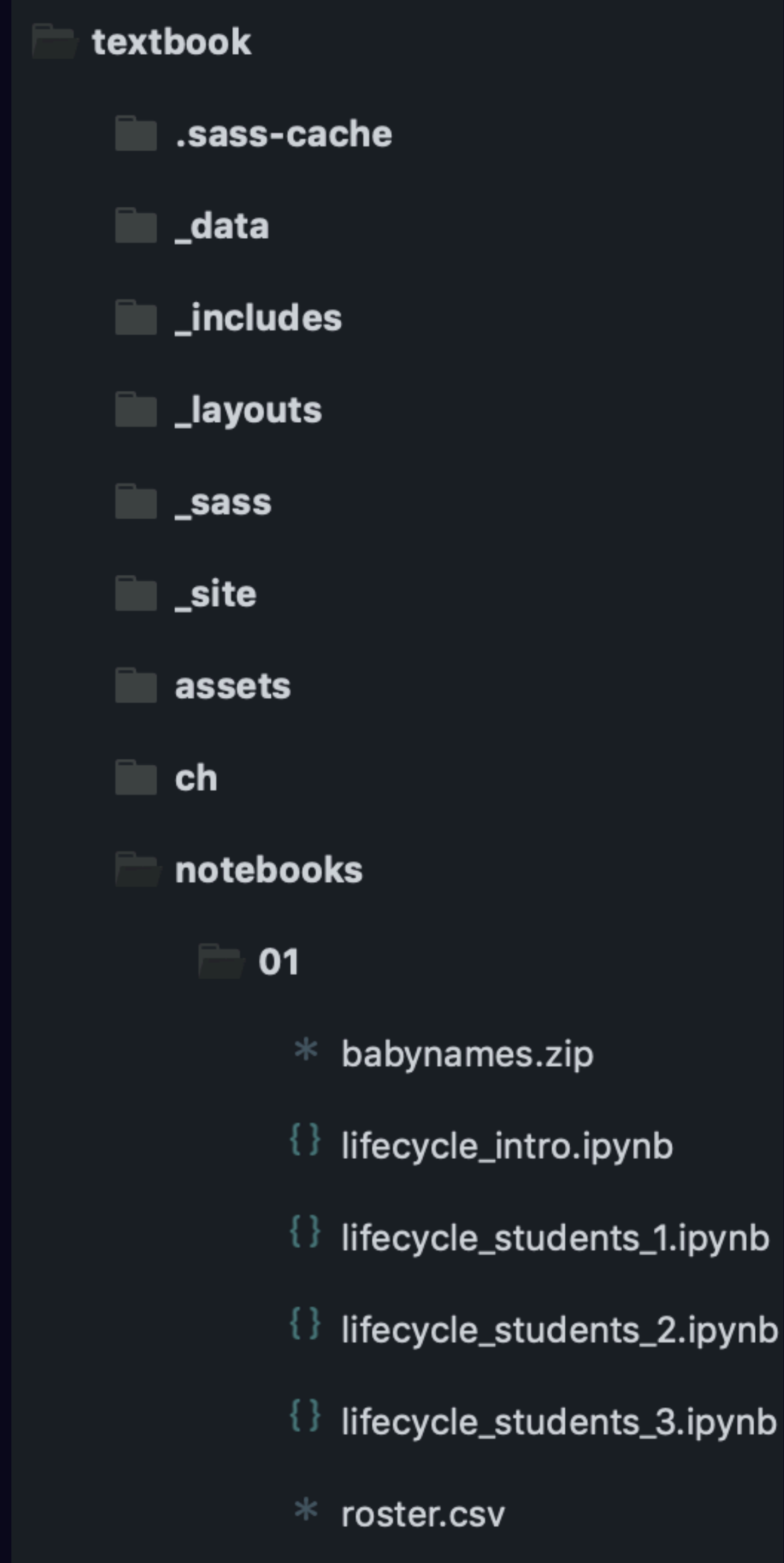
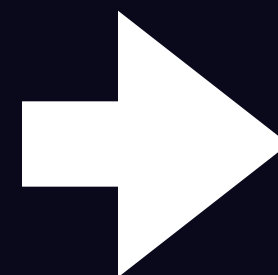
**git makes checkpoints for your code projects.**

**You can go back to a checkpoint anytime.**



Oops!

git revert



# Making a Commit


Command	Description
<code>git status</code>	<b>Displays changed files</b>
<code>git add -A</code>	<b>Stages all changed files</b>
<code>git commit -m "Finish hw1"</code>	<b>Makes commit</b>

# **So what is GitHub?**

**GitHub is a website that stores your project  
and its commits.**

**(git is the tool that makes commits)**



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

COGS108 / Tutorials Watch

<> Code

Issues 2

Pull requests 0

Projects 0

Wiki

Insights

Tutorial notebooks for hands-on data science, following along with the course topics.

python

data-science

tutorial-code

notebook

tutorial

105 commits 2 branches 0 releases 1 environment

Branch: master New pull request Create new file Upload

TomDonoghue replace git images

files	NLP
img	Update images
.gitignore	Fix up gitignore
00-Introduction.ipynb	replace git images
01-JupyterNotebooks.ipynb	update all links with alert-link, and put in quotes
02-DataAnalysis.ipynb	update all links with alert-link, and put in quotes
03-Python.ipynb	update all links with alert-link, and put in quotes
04-DataSciencePython.ipynb	update all links with alert-link, and put in quotes
05-DataGathering.ipynb	update all links with alert-link, and put in quotes
06-DataWrangling.ipynb	update all links with alert-link, and put in quotes
https://github.com/COGS108/Tutorials/issues	update all links with alert-link, and put in quotes



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Screenshots Applications cogs108

Favorites

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Screenshots

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Recents

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papers

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Projects

neuro201

math181a

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iCloud

iCloud Drive

Desktop

Documents

Locations

Remote Disc

Network

Tags

Purple

Gray

Yellow

Green

Blue

Red

Work

Name	Date Modified	Size	Kind
Assgn_Dev	Jan 10, 2019 at 2:57 PM	--	Folder
Assignments	Yesterday at 1:19 PM	--	Folder
Grading	Jan 10, 2019 at 3:03 PM	--	Folder
Lectures	Yesterday at 12:00 PM	--	Folder
Tutorials	Yesterday at 12:35 PM	--	Folder
00-Introduction.ipynb	Yesterday at 12:35 PM	14 KB	Document
01-Jupyte...oks.ipynb	Yesterday at 12:01 PM	9 KB	Document
02-DataA...lysis.ipynb	Jan 7, 2019 at 10:26 AM	47 KB	Document
03-Python.ipynb	Jan 7, 2019 at 10:26 AM	6 KB	Document
04-DataS...thon.ipynb	Jan 7, 2019 at 10:26 AM	31 KB	Document
05-DataG...ring.ipynb	Jan 7, 2019 at 10:26 AM	19 KB	Document
06-DataW...ling.ipynb	Jan 7, 2019 at 10:26 AM	12 KB	Document
07-DataCl...ing.ipynb	Jan 7, 2019 at 10:26 AM	26 KB	Document
08-DataP...tion.ipynb	Jan 7, 2019 at 10:26 AM	12 KB	Document
09-DataVi...tion.ipynb	Jan 7, 2019 at 10:26 AM	181 KB	Document
10-Distributions.ipynb	Jan 7, 2019 at 10:26 AM	47 KB	Document
11-Testing...ions.ipynb	Jan 7, 2019 at 10:26 AM	56 KB	Document
13-Ordina...ares.ipynb	Jan 7, 2019 at 10:26 AM	43 KB	Document
14-Linear...dels.ipynb	Jan 7, 2019 at 10:26 AM	130 KB	Document
15-Clustering.ipynb	Jan 7, 2019 at 10:26 AM	74 KB	Document
16-Dimen...tion.ipynb	Jan 7, 2019 at 10:26 AM	61 KB	Document
17-Classif...tion.ipynb	Jan 7, 2019 at 10:26 AM	89 KB	Document
18-Natura...sing.ipynb	Jan 7, 2019 at 10:26 AM	73 KB	Document
A1-Pytho...ages.ipynb	Jan 7, 2019 at 10:26 AM	5 KB	Document
A2-Git.ipynb	Jan 7, 2019 at 10:26 AM	11 KB	Document
files	Jan 7, 2019 at 10:26 AM	--	Folder
img	Jan 7, 2019 at 10:26 AM	--	Folder
LICENSE	Jan 7, 2019 at 10:26 AM	1 KB	TextEdi...cument
README.md	Jan 7, 2019 at 10:26 AM	2 KB	Markdo...ument

git clone <https://github.com/COGS108/Tutorials>

# What the fork?

The image illustrates the process of forking a repository on GitHub. It shows two screenshots of a GitHub repository page for **COGS108 / MyFirstPullRequest**.

**Top Screenshot (Original Repository):**

- Repository name: **COGS108 / MyFirstPullRequest**
- Buttons: Watch (0), Star (0), Fork (125)
- Navigation tabs: Code, Issues (0), Pull requests (87), Projects (0), Wiki, Insights
- Description: To be used for the assignments in Cogs 108
- Stats: 2 commits, 1 branch, 0 releases, 1 contributor
- Buttons: Branch: master, New pull request, Create new file, Upload files, Find file, Clone or download
- Commit history: ckeown Update README.md (Latest commit 5289f8a 5 days ago)
- File list: README.md (Update README.md 5 days ago)

**Bottom Screenshot (Forked Repository):**

- Repository name: **SamLau95 / MyFirstPullRequest** (forked from COGS108/MyFirstPullRequest)
- Buttons: Watch (0), Star (0), Fork (126)
- Navigation tabs: Code, Pull requests (0), Projects (0), Wiki, Insights, Settings
- Description: To be used for the assignments in Cogs 108
- Stats: 2 commits, 1 branch, 0 releases, 1 contributor
- Buttons: Branch: master, New pull request, Create new file, Upload files, Find file, Clone or download
- Message: This branch is even with COGS108:master. (Pull request, Compare)
- Commit history: ckeown Update README.md (Latest commit 5289f8a 5 days ago)
- File list: README.md (Update README.md 5 days ago)






# git push

## My computer:

▼	MyFirstPullRequest	Today at 12:34 PM	--	Folder
	hello_world.txt	Today at 12:34 PM	Zero bytes	Plain Text
	README.md	Today at 12:34 PM	64 bytes	Markdo...

## Make a commit

`git push origin master`

This branch is 1 commit ahead of COGS108:master.			<a href="#">Pull request</a>	<a href="#">Compare</a>
	SamLau95	Make text file	Latest commit 5c21133 just now	
	README.md	Update README.md	5 days ago	
	hello_world.txt	Make text file	just now	

Command	Description
<code>git clone &lt;URL&gt;</code>	<b>Downloads project from GitHub</b>
<code>git commit -m "Finish hw1"</code>	<b>Makes commit</b>
<code>git push origin master</code>	<b>Pushes commits to GitHub</b>
<code>git pull origin master</code>	<b>Pulls commits from GitHub</b>

**Go git 'em!**