



<u>Unit 1</u>: Introduction to Python and Github

<u>Case Study</u>:

In this lecture we will "download", edit, and "submit" a **Jupyter notebook** to and from **Github repositories** located on our STAT207 **Github Enterprise organization**.

Purpose of this Lecture:

In this lecture we will cover the following topics.

- Overview of data science software and platforms we will use.
- What is version control and why use a version control system, like Git?
- What is a **Git repository?**
- What is a **branch** in a Git repository?
- What is **Github**?
- What is a Github Enterprise Organization?
- Exploring the repositories on our STAT207 Github Enterprise Organization
- How to "initially download" (ie. **clone**) a virtual repository to your local computer.
- How to "download" files/folders (or updates to files/folders) (ie. **fetch** and **merge)** from a virtual repository to a local repository on your computer.
- What is a Jupyter notebook and how do you use and edit one?
- How to "submit" materials from your local computer to your private netid remote repository on Github.

Additional resources: https://www.javatpoint.com/git

Overview of data science software and platforms we will use.

The instructions in your first lab http://courses.las.illinois.edu/spring2021/stat207/labs/01-intro.html

will tell you how to download and get familiar with each of these software and platforms.

Main Purpose in Class	Software/Platform	What is it?	
Coding Lab Assignments in	Anacondas	Distribution of the Python and R programming languages. <u>Allows you to download and run</u> popular Python packages and the <u>Jupyter Notebook</u> Application.	
Python	Jupyter Notebooks	Python application that allows you to <u>write</u> <u>data science reports</u> that also need to be integrated with interactive Python code blocks.	
	Python	A programming language	
	Git	Version control system.	
	Github	Git repository hosting service.	
Version Control: practice of tracking and managing changes to code.	Github Enterprise STAT207 Organization https://github-dev.cs.illinois.edu/stat207- sp21	A collection of user accounts (users=you, your classmates, Dr. Ellison, TAs, and Cas) that owns Github repositories.	
	Command Line Interface	An application that processes commands to a computer program in lines of text.	

WHAT IS VERSION CONTROL AND WHY USE A VERSION CONTROL SYSTEM LIKE GIT?

Version control is a class of ______ responsible for managing ______ to computer programs,

documents, large web sites, or other collections of information.

Git is an open-source distributed version control system.



Tracking changes and being able to revert back to old versions

https://opensource.com/article/18/6/git-reset-revert-rebase-commands

WHAT IS A GIT Ref	POSITORY?			
A git repository is a collect	ion of	as well as a his	story of	
made to these files and sul	ofiles. You can think of a repository	as a		
Example of a Git Repositor	r y:			
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	Using the Hello World guide, you'll start a b	ranch, write comments, and open a pull	request.	
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	I'll send an email when each assignment is posted. When I "post" a new lab ass	gnment the following will happen.	Create a new release	
	 You will see a new link in http://courses.las.illinois.edu/spring/2021/sta20/ specific instructions for how to "download", complete, and "submit" each v any other tasks for the assignment). A new branch will appear in this repository: https://github-dev.cs.illinois.ed corresponds to the lab you will be completing. This branch is like a subfold the materials you need to complete that week's lab. (To switch branches in menu that says "master." 	assignments.html that takes you to reek's assignment (as well as complete u/stat207-sp21/_release that ler in the repository. It will contain the this repository, select the drop down		

WHAT IS A GIT REPOSITORY BRANCH?

A git repository **branch** is a ______ of the repository that diverges from the main working project. You

can think of a git repository branch as a _____

Example: Check out the branches we have so far in the _release repository. Each lab assignment will show up in it's own branch.

Code () issues 11 Puil requests () Projects	🖽 Wiki 🗠 Insights 🚳 Settings	
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	Find or create a branch	
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	demo_branch	
	lab_01	
	View all branches	
	 I'll send an email when each assignmen You will see a new link in http://cor specific instructions for how to "do any other tasks for the assignment A new branch will appear in this re corresponds to the lab you will be the materials you need to complet menu that says "master." 	It is posted. When I "post" a new lab assignment the following will happen. urses.las.illinois.edu/spring2021/stat207/assignments.html that takes you to ownload", complete, and "submit" each week's assignment (as well as complete). pository: https://github-dev.cs.illinois.edu/stat207-sp21/_release that completing. This branch is like a subfolder in the repository. It will contain the e that week's lab. (To switch branches in this repository, select the drop down

Example: Notice how the demo branch branch has different files in it than the master branch. The master branch is the default, and Git will assume that this is the branch you are referring to unless you specify otherwise.

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				ipynb_checkpoints	new additions	now
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WHAT IS GITHUB?

Github is a web-based service that hosts ____



WHAT IS A GITHUB ENTERPRISE ORGANIZATION?

A **Github Enterprise Organization** is a set of shared accounts and repositories, that is managed by owners and administrators.

For example: You can find our STAT207 Github Enterprise organization here: <u>https://github-dev.cs.illinois.edu/stat207-sp21</u>

Below is an example of what students will see (after you have clicked on <u>https://edu.cs.illinois.edu/create-ghe-repo/stat207-sp21/</u> to create your **private netid repository** in the STAT207 Github Enterprise organization).

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What the TAs and I will see...

EXPLORING THE REPOSITORIES ON OUR STAT207 GITHUB ENTERPRISE ORGANIZATION

How does these three class repositories work and what will they be used for?

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Note: Your private netid repository starts out with just one branch: **master** (ie. the default). To keep things easier in this class, you should probably not try to create additional branches in your netid repository. The TAs will be looking in your **master branch** for your lab assignment submissions.

HOW TO "INITIALLY DOWNLOAD" (IE. **CLONE)** A VIRTUAL REPOSITORY TO YOUR LOCAL COMPUTER.

In general:

To make a copy of a repository on your local computer you can use **git clone <insert repository link>** in the command line in the folder you would like to store it in.

Example: Clone your *netid repository*

The instructions in your first lab assignment will discuss this in more detail (http://courses.las.illinois.edu/spring2021/stat207/git.html).

Local folder

You will edit and download your STAT207 materials in this folder on your local computer here.

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\$ \$	Name	^	Date modified	Туре	

In Command Line...

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Users\\	vellison\Desktop>cd sta	t207				
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Whatever was in your *netid repository* (ie. nothing if you just created it) will show up in this folder named with your netid.

The instructions in your first lab assignment will discuss this in more detail (<u>http://courses.las.illinois.edu/spring2021/stat207/git.html</u>).

In Command Line...

C:\Users\vellison\Desktop\stat207>cd vellison

C:\Users\vellison\Desktop\stat207\vellison>git remote add release https://github-dev.cs.illinois.edu/stat207-sp21/_relea se.git

C:\Users\vellison\Desktop\stat207\vellison>

Once you are in the cloned local repository, the **git remote add <insert nickname> <insert repository link>/<repo_name>.git** command creates a nickname for the specified repository.

HOW TO "DOWNLOAD" FILES/FOLDERS OR UPDATES TO FILES/FOLDERS (IE. FETCH AND MERGE) FROM A VIRTUAL REPOSITORY TO YOUR LOCAL REPOSITORY ON YOUR COMPUTER.

<u>General Commands</u>: (these commands only work after you have **cloned** a repository and your git command line is in that repository).

- git fetch <insert repository name>
 - Transmits the *"whole version" of the REMOTE repository* to your LOCAL computer.
 - git merge <insert repository name>/<insert branch name> -m "notes about merge"
 - Merges just the *changes made to the specified* **branch** of the remote repository.

For example: In the command line code below we **fetch** the virtual **_release repository**. And then we **merge** the following:

- what is in the <u>demo_branch</u> branch of the <u>virtual</u> **_release repository**
- what is in the <u>master</u> branch of your <u>local</u> **netid repository.**

These changes will show up in the folder that your <u>local</u> netid repository resides in.

C:\Users\vellison>cd desktop C:\Users\vellison\Desktop>cd stat207 C:\Users\vellison\Desktop\stat207>cd vellison C:\Users\vellison\Desktop\stat207\vellison>git fetch release remote: Enumerating objects: 20, done. remote: Counting objects: 100% (20/20), done. remote: Compressing objects: 100% (14/14), done. remote: Total 20 (delta 4), reused 5 (delta 1), pack-reused 0 Unpacking objects: 100% (20/20), 2.75 kiB 8.00 KiB/s, done. From https://github-dev.cs.illinois.edu/stat207-sp21/_release * [new branch] demo_branch -> release/demo_branch * [new branch] lab_01 -> release/lab_01 * [new branch] master -> release/master C:\Users\vellison\Desktop\stat207\vellison>git merge release/demo_branch -m "Merging initial files"	- Git CMD
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WHAT IS A JUPYTER NOTEBOOK AND HOW DO YOU USE AND EDIT ONE?

- 1. First, check out the instructions in your first lab <u>http://courses.las.illinois.edu/spring2021/stat207/labs/01-intro.html</u> for how to download **minicondas** software which contains the **Jupyter notebook application.**
- 2. Start your Jupyter notebook application

Best match	
Jupyter Notebook	\rightarrow
Documents - This PC (14+)	
Folders (1+)	

 This will open a browser which displays your computer's file system. Use this file system display like you would on your computer to navigate to the folder on computer where your recently downloaded Jupyter notebook (.ipynb) is located. Click on the file in this screen to open and edit the notebook.

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4. Edit the notebook.

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5. Save any changes made to the notebook.

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HOW TO "SUBMIT" MATERIALS (OR CHANGES TO MATERIALS) FROM YOUR LOCAL COMPUTER BACK TO A REPOSITORY.

In general



Example: Push your local changes back to your remote netid repository.

Your first lab <u>http://courses.las.illinois.edu/spring2021/stat207/labs/01-intro.html</u> talks about how to do this in more detail.

🚸 Git CMD	—	×
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C:\Users\vellison\Desktop\stat207\vellison>git commit -m "any message you want about what changes you made" [master 185e142] any message you want about what changes you made Committer: ELLISON <vellison@illinois.edu> Your name and email address were configured automatically based on your username and hostname. Please check that they are accurate. You can suppress this message by setting them explicitly. Run the following command and follow the instructions in your editor to edit your configuration file:</vellison@illinois.edu>		
git configglobaledit		
After doing this, you may fix the identity used for this commit with:		
git commitamendreset-author		
2 files changed, 52 insertions(+)		
C:\Users\vellison\Desktop\stat207\vellison>git push origin master Enumerating objects: 30, done. Counting objects: 100% (30/30), done. Delta compression using up to & threads Compressing objects: 100% (24/24), done. Writing objects: 100% (30/30), 3.85 KiB 1.28 MiB/s, done. Total 30 (delta 6), reused 0 (delta 0), pack-reused 0 remote: Resolving deltas: 100% (6/6), done. To https://github-dev.cs.illinois.edu/stat207-sp21/vellison * [new branch] master -> master		
C:\Users\vellison\Desktop\stat207\vellison>_		

Check your remote repository to double check that your changes were submitted.



github-dev.cs.illinois.edu/stat207-sp21/vellison/blob/test12/First%20Notebook.ipynb

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				First Notebook				
				Fori created this Jupyter notebook on 1/11/21 2:10pm.				
			In [1]:	c = 1+3 print(c)				
				4				
			In [2]:	d=c+5 print(d)				
				9				
			In [3]:	#Student 2 has added more Python code to this notebook. print(C+d)				
				13				
			In [1]:	13 print('hello world')				
			In [1]:	13 print('hello world') hello world				