

August 8, 2022

# Program Introduction

Welcome to Data Science!

// FLATIRON SCHOOL

# Agenda

- Your campus DS Team
- Course Structure
- Day-to-day expectations
- Program tools
- Assessment details
- Setting yourself up for success

# Your DS Squad

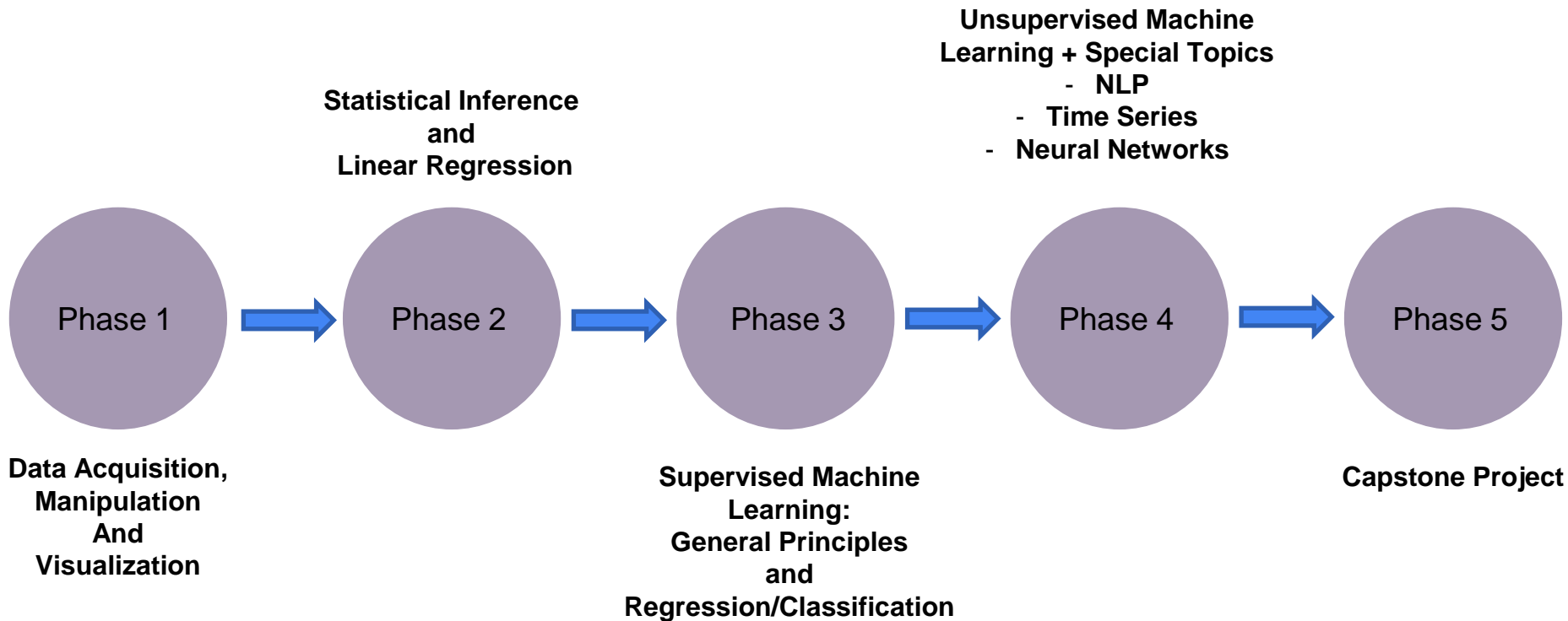


Praveen Gowtham



Brendan Hutchinson

# Course Structure



# Day-to-Day Expectations: The Anatomy of a Phase



# Weeks 1 & 2

“The  
Normal  
Weeks”

	MON 8	TUE 9	WED 10	THU 11	FRI 12
GMT-04					
8 AM					
9 AM	Stand up, 9am	Stand up, 9am	Stand up, 9am	Stand up, 9am	Stand up, 9am
10 AM	Program Structure/Campus Introduction - Orientation 10am, Manhattan-2-Manhat	Canvas Time 9:30 – 11am	Canvas Time 9:30 – 11am	Canvas Time 9:30 – 11am	Assessment: Data Serializa 9:30 – 10:30am
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12 PM	Lunch - Catered Tacos 12 – 1pm	Lunch 12 – 1pm	Lunch 12 – 1pm	Lunch 12 – 1pm	Lunch 12 – 1pm
1 PM	Environment Setup 1 – 3pm	Canvas Time / Pair Program 1 – 2pm	Canvas Time / Pair Program 1 – 2pm	Canvas Time / Pair Program 1 – 2pm	Canvas Time / Pair Program 1 – 2pm
2 PM		Afternoon Lecture: Collabor 2pm, Manhattan-2-Manhatt	Afternoon Lecture: JSONs, 2pm, Manhattan-2-Manhatt	Afternoon Lecture: Pandas 2pm, Manhattan-2-Manhatt	Afternoon Lecture: Pandas 2pm, Manhattan-2-Manhatt
3 PM	Introducing the Terminal 3pm, Manhattan-2-Manhatt	Canvas Time 3 – 5:30pm	Canvas Time 3 – 5:30pm	Canvas Time 3 – 5:30pm	Canvas Time 3 – 5:30pm
4 PM	Canvas Time 4 – 5:30pm				
5 PM					
6 PM	Stand down, 5:30pm	Stand down, 5:30pm	Stand down, 5:30pm	Stand down, 5:30pm	Stand down, 5:30pm

# Weeks 1 & 2

“Stand ups”

	9	10	11	12
9 AM	Stand up, 9am	Stand up, 9am	Stand up, 9am	Stand up, 9am
10 AM	Program Structure/Campus Introduction - Orientation 10am, Manhattan-2-Manhattan	Canvas Time 9:30 – 11am	Canvas Time 9:30 – 11am	Assessment: Data Serialization 9:30 – 10:30am
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# Stand Ups



We will check in and check out every day.

**We take attendance!** (refer to attendance policy)

Stand ups will include:

- Attendance
- Communicating events and deadlines



# Weeks 1 & 2

“Stand downs”

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9 AM	Stand up, 9am	Stand up, 9am	Stand up, 9am	Stand up, 9am
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# Stand Downs



We will check in and check out every day.

**We take attendance!** (refer to attendance policy)

Stand downs will include:

- Light concept questions
- Bite size Python/SQL challenges
- General concerns/feedback

# Weeks 1 & 2

“Lectures”

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9 AM	Stand up, 9am	Stand up, 9am	Stand up, 9am	Stand up, 9am	Stand up, 9am
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# Lectures

A teal-colored geometric shape, resembling a stylized arrow or a portion of a polygon, pointing towards the right. It is positioned on the left side of the slide, partially overlapping the white background and the dark blue background.

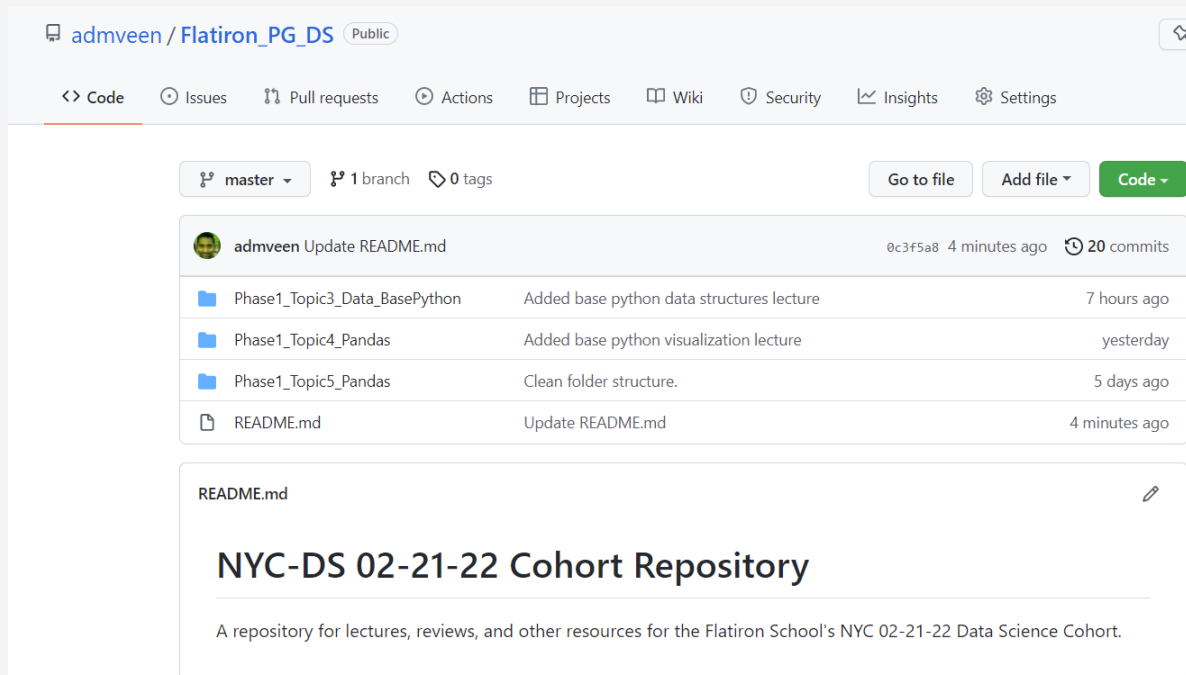
Plan to:

- Ask questions. Participate.
- Take notes.
- Code along when appropriate.

# Cohort Git Repository

AKA where to find lecture content!

We will go over how to access materials from this repository in Week 1.



The screenshot shows a GitHub repository page for 'Flatiron\_PG\_DS' by user 'admveen'. The repository is public. The navigation bar includes links for Code, Issues, Pull requests, Actions, Projects, Wiki, Security, Insights, and Settings. The repository has 1 branch and 0 tags. The commit history shows four commits: 'Phase1\_Topic3\_Data\_BasePython' (7 hours ago), 'Phase1\_Topic4\_Pandas' (yesterday), 'Phase1\_Topic5\_Pandas' (5 days ago), and 'README.md' (4 minutes ago). The README file is visible, titled 'NYC-DS 02-21-22 Cohort Repository', with a description: 'A repository for lectures, reviews, and other resources for the Flatiron School's NYC 02-21-22 Data Science Cohort.'

admveen / Flatiron\_PG\_DS Public

<> Code Issues Pull requests Actions Projects Wiki Security Insights Settings

master 1 branch 0 tags

Go to file Add file Code

admveen Update README.md 0c3f5a8 4 minutes ago 20 commits

Phase1_Topic3_Data_BasePython	Added base python data structures lecture	7 hours ago
Phase1_Topic4_Pandas	Added base python visualization lecture	yesterday
Phase1_Topic5_Pandas	Clean folder structure.	5 days ago
README.md	Update README.md	4 minutes ago

README.md

## NYC-DS 02-21-22 Cohort Repository

A repository for lectures, reviews, and other resources for the Flatiron School's NYC 02-21-22 Data Science Cohort.

# Weeks 1 & 2

## Pair Programming

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# Pair Programming



Pair programming helps you practice verbalizing what you want to accomplish prior to writing code.

It also allows you to view a peer's coding style and approach to problems.

## **Driver:**

- Loads up the lab and shares screen
- Responds to instructions provided by Navigator and enters code into cells

## **Navigator:**

- Instructs the Driver on the approach to take to solve the problem / complete the lab
- Suggests code implementation

**Half time driver/ Half time navigator**

# Weeks 1 & 2

## Canvas Time

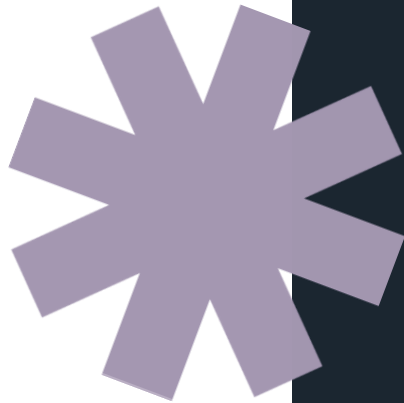
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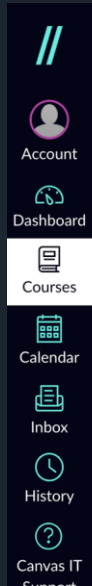
# Canvas Time

Also known as **Personal Working Time**.

- Canvas is where the curriculum/individual lessons are located
- Priority Lessons: **do not** try to do every single lesson. LOT OF CONTENT!!!
- Quizzes on Canvas: checks for understanding. **NOT** official assessments, but reference for yourself.




# Lesson Priorities




Home  
Discussions  
Grades  
IllumiDesk  
Modules  
People  
Quizzes  
Assignments

## ▼ Topic 1: Getting Started with Data Science


### **Topic 1 Lesson Priorities (Live)**

 **Getting Started with Data Science - Introduction**  
Mark done

 **The Data Science Process**  
View

 **Problems Data Science Can Solve**  
View

 **PEP8**  
0 pts | Mark done

 **Data Privacy and Data Ethics**  
View

 **Quiz: Data Science Basics**  
5 pts | Score at least 3.0

## Topic 1 Lesson Priorities (Live)

If you have not completed all of the content from Pre-Work, you should do so as soon as possible. Proficiency with the content from the Pre-Work is required to follow along with the lectures and other activities. If you have any questions about Pre-Work material, please reach out to your instructor for support.

For a reminder of how to use these lesson priorities, see [How to Use Lesson Priorities \(Live\)](#)

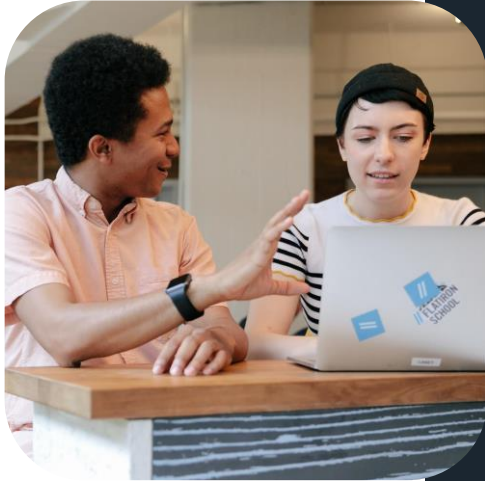
### Priorities to Complete Before *Data Science Environments* Lecture

Lesson	Priority
<b><u>Getting Started with Data Science - Introduction</u></b>	1st
<u>The Data Science Process</u>	2nd
<u>Problems Data Science Can Solve</u>	2nd
<b><u>PEP8</u></b>	1st
<u>Data Privacy and Data Ethics</u>	2nd
<b><u>Quiz: Data Science Basics</u></b>	1st

### Priorities to Complete After *Data Science Environments* Lecture

Lesson	Priority

# Individual Check Ins



Check in with your instructor(s) or your coach!

Discuss your understanding, review labs or checkpoints, and otherwise check in on your progress through the program.

Sign up for 1:1s using **appointment slots**.

One check in (15 min.) per week with Praveen.

# Program Tools



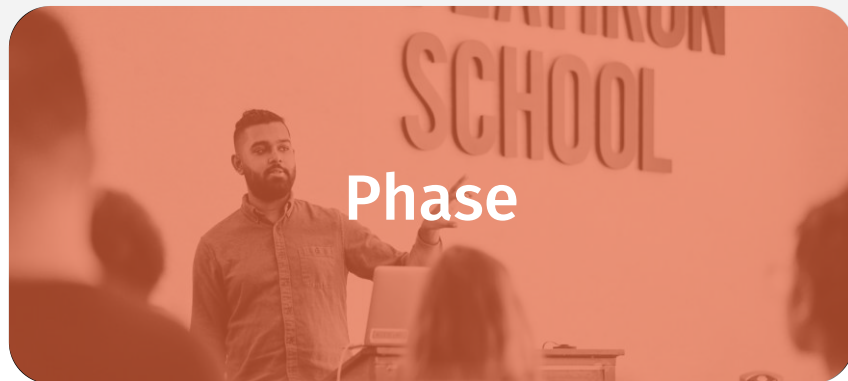
# Canvas



## Homeroom

### Programmatic Content:

- Cohort Calendar
- Program resources and information
- Surveys



## Phase

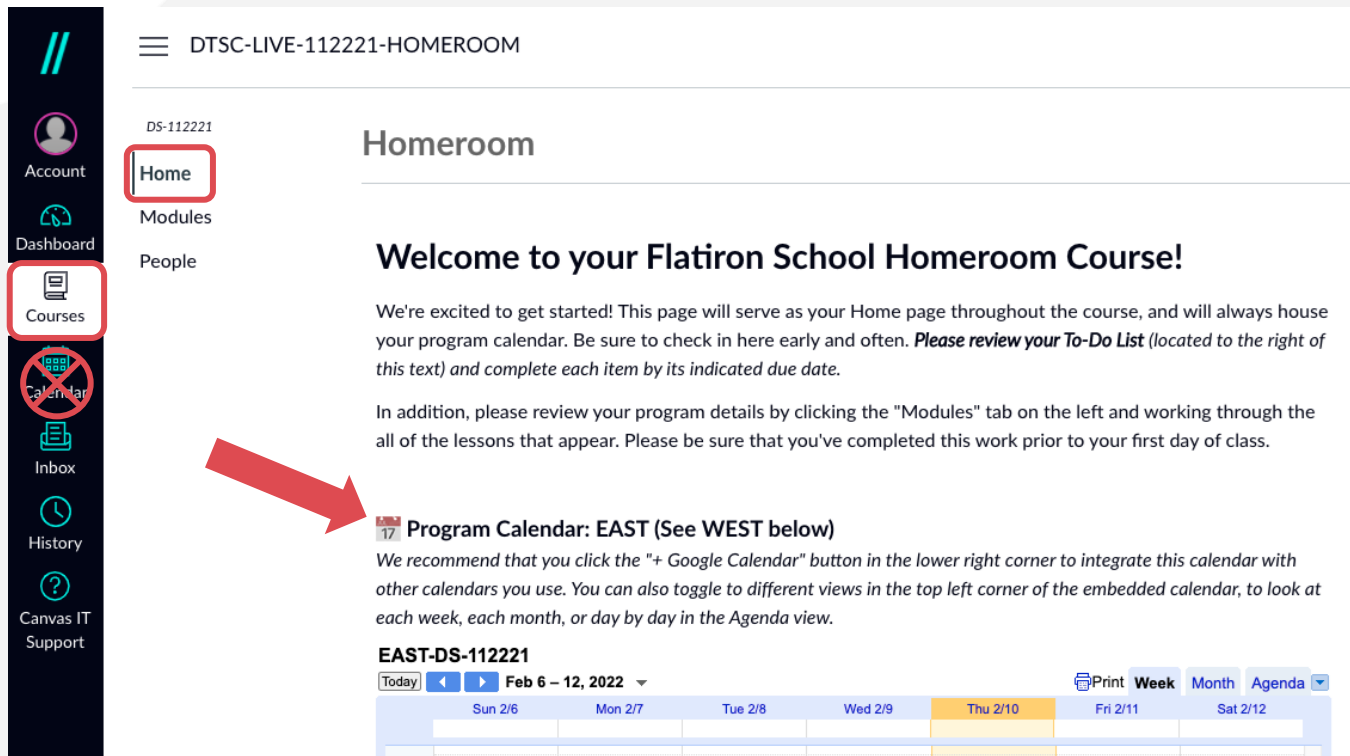
### Textbook and Workbook:

- Lessons
- Labs
- Quizzes (not graded!)

Plus: Access Illumidesk & Pair with a TC

# Homeroom

## Accessing the Calendar



DTSC-LIVE-112221-HOMEROOM

DS-112221

Home

Modules


People

### Homeroom

## Welcome to your Flatiron School Homeroom Course!




We're excited to get started! This page will serve as your Home page throughout the course, and will always house your program calendar. Be sure to check in here early and often. **Please review your To-Do List** (located to the right of this text) and complete each item by its indicated due date.



In addition, please review your program details by clicking the "Modules" tab on the left and working through the all of the lessons that appear. Please be sure that you've completed this work prior to your first day of class.

 **Program Calendar: EAST (See WEST below)**

We recommend that you click the "+ Google Calendar" button in the lower right corner to integrate this calendar with other calendars you use. You can also toggle to different views in the top left corner of the embedded calendar, to look at each week, each month, or day by day in the Agenda view.

**EAST-DS-112221**

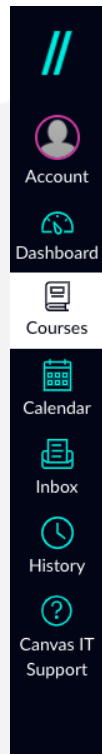
Today   **Feb 6 – 12, 2022** 

 Print **Week** Month Agenda 

Sun 2/6	Mon 2/7	Tue 2/8	Wed 2/9	Thu 2/10	Fri 2/11	Sat 2/12

# Phase Course

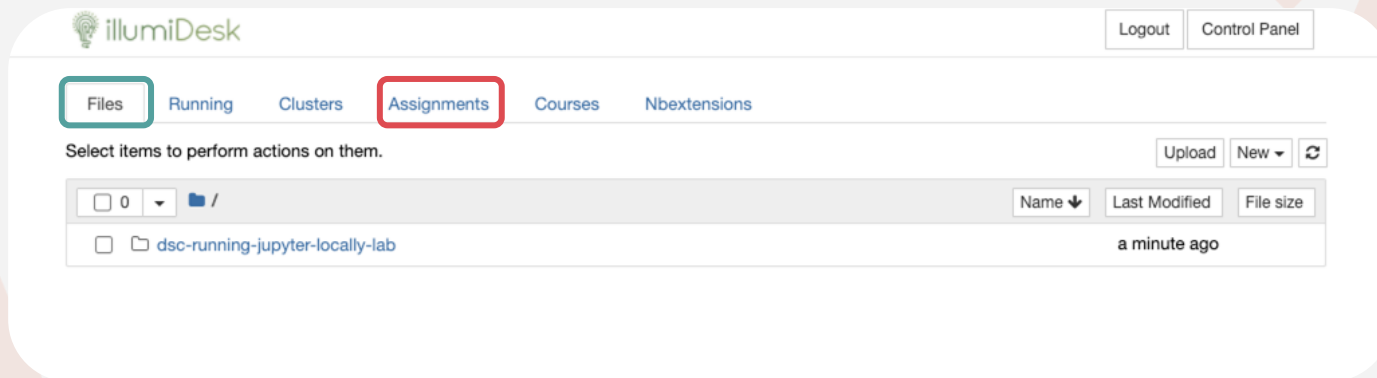
## Accessing IllumiDesk



- Home
- Discussions
- Grades
- IllumiDesk** 2
- Modules
- People
- Quizzes
- Assignments

▼ Topic 3: Data Analysis in Base Python		Prerequisites: Unlock Course	Complete All Items
	<u>Topic 3 Lesson Priorities (Live)</u>		
	<u>Data Analysis in Base Python - Introduction</u> Mark done		
	<u>Python Data Manipulation Exit Ticket</u> 1 pts   Submit		
	<u>Data Visualization Exit Ticket</u> 1 pts   Submit		
	<b><u>File Input and Output in Python</u></b> 1 0 pts   Mark done		
	<u>CSV</u> 0 pts   Mark done		
	<u>Quiz: Data Analysis with Base Python</u> 5 pts   Score at least 3.0		
	<u>Data Analysis with CSVs Exit Ticket</u> 1 pts   Submit		

# Navigating IllumiDesk



## Files

Every Jupyter Notebook opened through an assignment link from Canvas lives in your **Files tab**, and will save your work

## Assignments

All of our Checkpoints and Code Challenges will be conducted in IllumiDesk, and you'll be able to access both the assessment and feedback through the **Assignments tab**.



# Accessing Labs

Every lesson and lab is stored on GitHub - it's also where you can find lab solutions!

We'll teach you how to easily download GitHub repositories soon - so, should you do labs locally or in IllumiDesk?

Short answer: **both!**  
Each method has their pros and cons.

## Advantages of Working Locally



- Practice using Git / GitHub → in-demand skills!
- Forking labs on GitHub contributes to a robust, 'green' commit history
- Content is more accessible after the program
- More 'real world'

## Advantages of Working on IllumiDesk



- Ease of use
- No environment issues
- Fully integrated into Canvas

# Assessment Details



# Weeks 1 & 2

## Blog Posts

	MON 15	TUE 16	WED 17	THU 18	FRI 19
GMT-04					
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11 AM	Break, 10:30am	Break, 10:30am		Break, 10:30am	Phase I Code Challenge 10:30am – 12pm
12 PM	Morning Lecture: Aggregati 11am, Manhattan-2-Manhat	Morning Lecture: SQL Quer 11am, Manhattan-2-Manhat	Morning Lecture: SQL Subq 11am, Manhattan-2-Manhat	Morning Lecture: Web Scrap 11am, Manhattan-2-Manhat	
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4 PM	Canvas Time 3 – 5:30pm	Canvas Time 3 – 5:30pm	Canvas Time 3 – 5:30pm	Canvas Time 3 – 5:30pm	Feelings Fridays / Stand do 3:30 – 4:30pm
5 PM		Career Works 5pm, https://			
6 PM	Stand down, 5:30pm	Stand down,	Stand down, 5:30pm	Stand down, 5:30pm	

# Blog Posts



Building a web presence demonstrating your data science chops is **essential** in the job search.

To help you do so, you will be required to write **4 blog posts**: 1 for each phase (except Capstone).

Blog posts will be due on **second Monday** of the phase.

We will **present** our blogs to each other during stand downs after the blog post due dates.

**That's right -  
first blog post  
is due next  
week!**

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First blog post topic:

**Why did you decide to learn data science?**

Potential elements to include:

- Your past educational or career experience
- How you learned about data science
- Any particular data science-related projects that you find especially exciting
- How you chose Flatiron School
- What you're hoping to do with data science in the future

# Weeks 1 & 2

## Checkpoints

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# Checkpoints



Mini-assessments that occur about twice per week to check your understanding and key proficiencies.

You will have **1 hour** to complete the checkpoint.

Checkpoints give you a chance to practice coding in a time-boxed session without the pressure - **these assessments are not used to judge whether you progress through the program!**

# Weeks 1 & 2

## Code Challenges

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This will feel just like the checkpoints, but you will have **1 hour 30 minutes** to complete the code challenge.

This is one place where no collaboration is allowed. We encourage you to ask instructors questions, but these are **your own work**.



# Graded Assignment Protocol

- Assessments are **open book**  
(ok to reference labs, lectures, and Google)
  - **No copy and pasting** code
  - **No screen sharing or messaging** with peers  
during assignments
  - **Exit break out room** after submission
- 

# Evaluating Student Progress

In order to advance through the program, we need to know that you have **mastered the essentials**.

If you do not pass the code challenge, you will have the opportunity to demonstrate your readiness to move on through the completion of a graded, solo project.

The final pass/not pass assessment happens at the end of each phase.

# Week 3

## Project Week

	MON 22	TUE 23	WED 24	THU 25	FRI 26
GMT-04					
8 AM					
9 AM	Stand up, 9am	Stand up, 9am	Stand up, 9am	Stand up, 9am	Stand up, 9am
10 AM	Project Time 9:30 – 11am	Project Time 9:30am – 12pm	Project Time 9:30am – 12pm	Project Time 9:30am – 12pm	Project Time 9:30am – 12pm
11 AM	Morning Lecture: Visualizat 11am, Manhattan-2-Manhat				
12 PM	Lunch 12 – 1pm	Lunch 12 – 1pm	Lunch 12 – 1pm	Lunch 12 – 1pm	Lunch 12 – 1pm
1 PM	Project Time 1 – 5:30pm	Project Time 1 – 5:30pm	Project Time 1 – 5:30pm	Phase I Project: Practice Presentations 1 – 3pm	Project Time 1 – 2pm
2 PM					Phase I Project Presentations 2 – 4pm
3 PM				Project Time 3 – 5:30pm	
4 PM					Feelings Friday 4 – 5pm
5 PM					
6 PM	Stand down, 5:30pm	Stand down, 5:30pm	Stand down, 5:30pm	Stand down, 5:30pm	

# Projects



Either solo or in groups, you will **tackle real problems** to develop projects you can showcase to potential employers.

Your project will consist of both **technical** and **non-technical deliverables**.

**Project presentations** are a chance to gain experience presenting your findings to a non-technical audience.

The requirements for each project will be outlined in the rubric, which we will go over during the project launch.

# Setting Yourself Up for Success



# Personal Empowerment Protocol

This is an important framework in general for debugging / working through problems.

Reading errors, looking up problems, and collaborating with peers are **essential skills**.

Get practice with them before asking us!

## PERSONAL EMPOWERMENT PROTOCOL



1. READ THE ERROR
2. GOOGLE THE PROBLEM
3. ASK A NEIGHBOR
4. ASK A TEACHER

# Giving Feedback:

## C - A - S - K



### Consensual

If someone isn't in a good space to receive feedback, it won't stick and it won't help.

### Actionable

Outline ways to change or act on the feedback, instead of saying something vague like "this is bad".

### Specific

Give examples when you can, to anchor your feedback in a real way to the experience you had which prompted the feedback.

### Kind

The goal is to help someone improve, not to belittle others.



The background is a dark navy blue. On the left side, there are several overlapping geometric shapes: a dark blue square, a dark blue parallelogram, and a red triangle. In the bottom right corner, there is a red triangle pointing towards the center. The text "Any Questions?" is written in a white, serif font, centered horizontally.

*Any Questions?*