

# Software Design for Data Science

Survey Results, Jupyter, & Python

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## **Project ideas?**

Has anyone thought about what data or topics they might want to explore for the course project?

# Reminder: Homework due tonight 11:59pm

<https://uwdata515.github.io/syllabus.html>

- Software installation
  - Needed for today's classroom work!
  - If you haven't done it, do it as part of the first breakout
- Homework 1 (on GitHub classroom)
- Introductory survey (for participation)

# Today

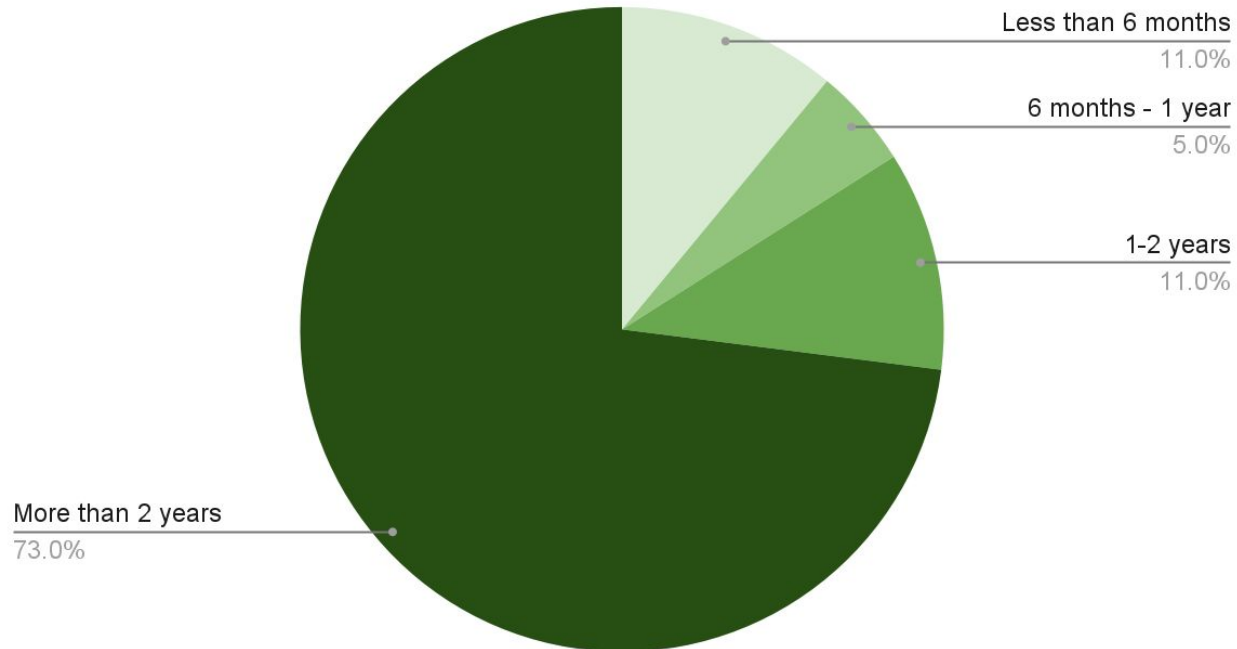
- Survey results
- Lecture: Jupyter notebooks intro
  - Breakout: Python math
- Break: 5 minutes
- Lecture: Python data types & flow control
  - Breakout: Python flow control
- Break: 15 minutes
- Lecture: numpy & pandas
  - Breakout: data visualization & manipulation

# Survey Results



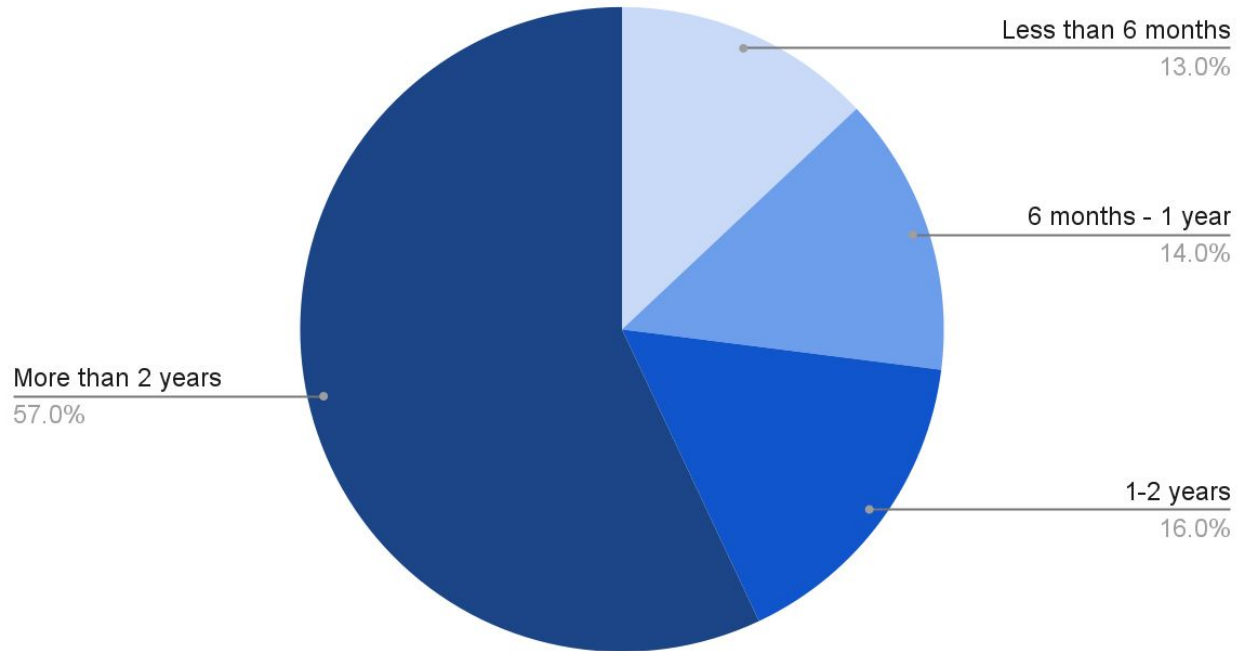
# How much programming experience do you have?

Programming experience



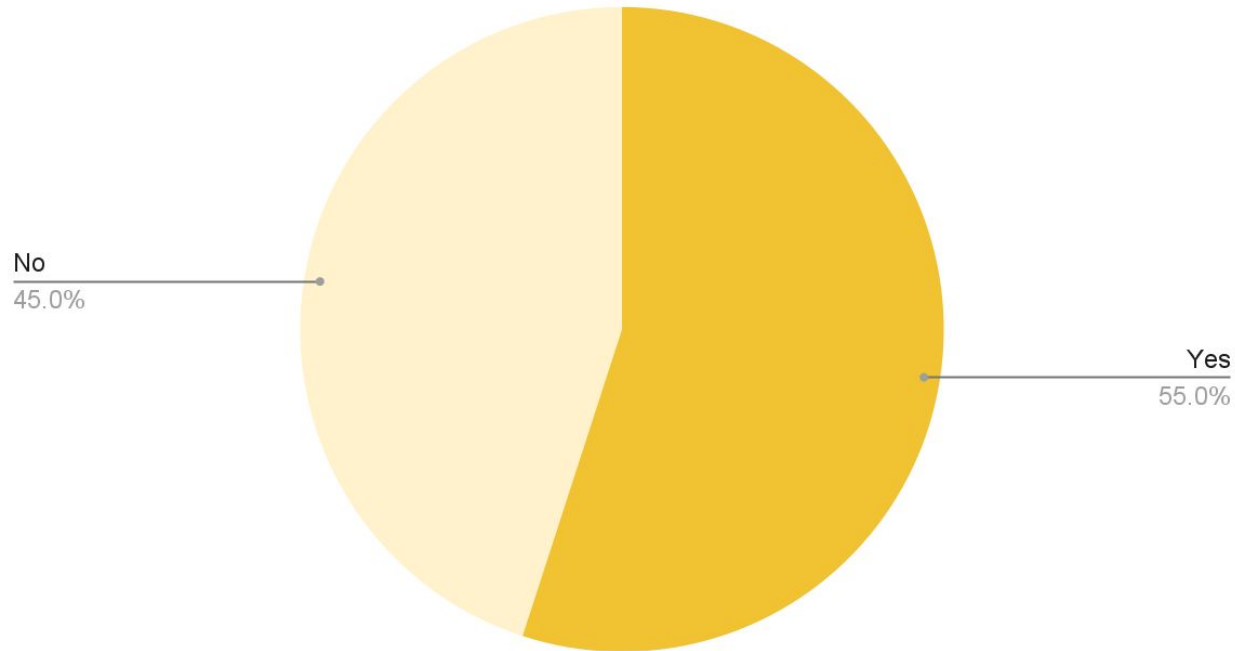
# How much experience do you have with Python?

Python experience



# Have you used a command-line text editor?

Command-line text editor





**Comfortable with if-statements and for-loops?**

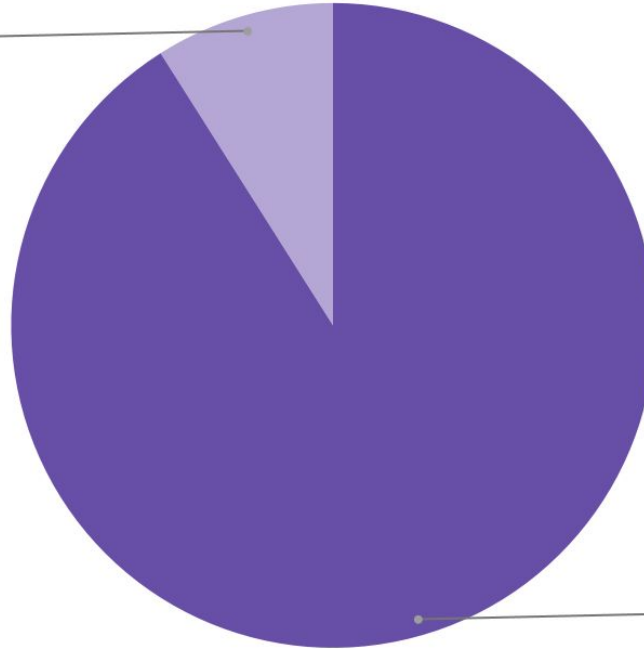


**Yes!**

# Comfortable with functions?

Functions

No  
9.0%

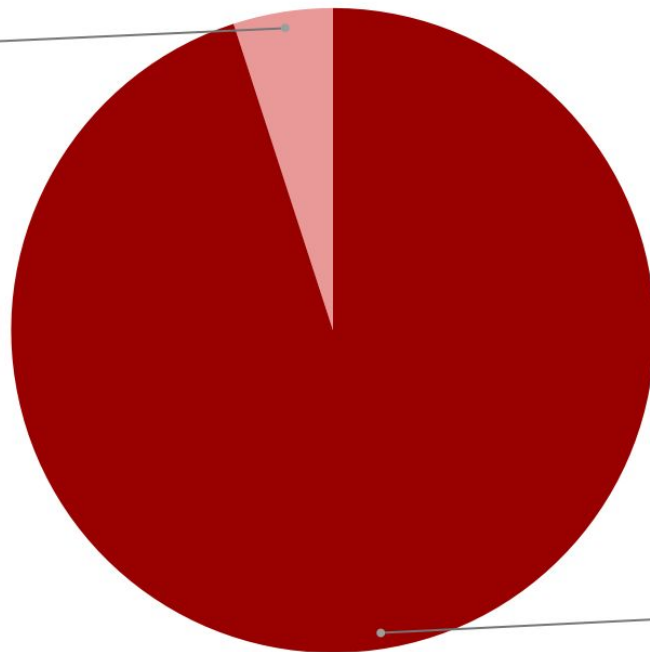


Yes  
91.0%

# Experience with scipy, pandas, etc?

Python package experience

No  
5.0%



Yes  
95.0%

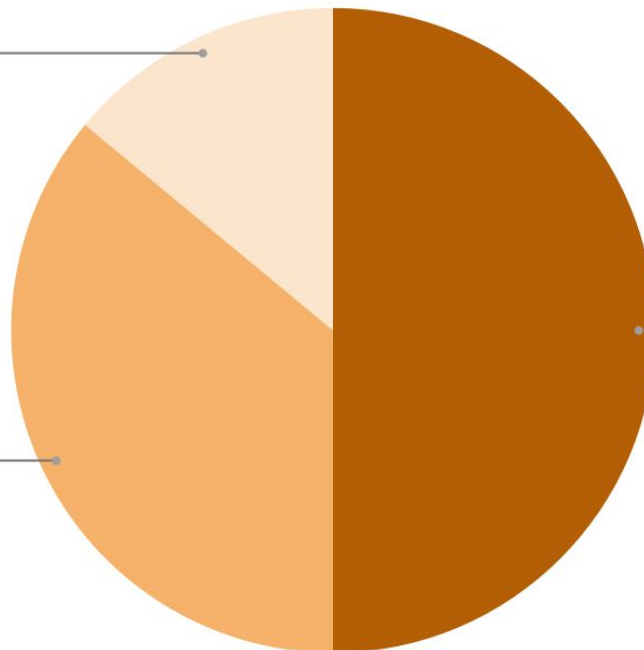
# Experience with iPython/Jupyter?

iPython/Jupyter experience

A little  
14.0%

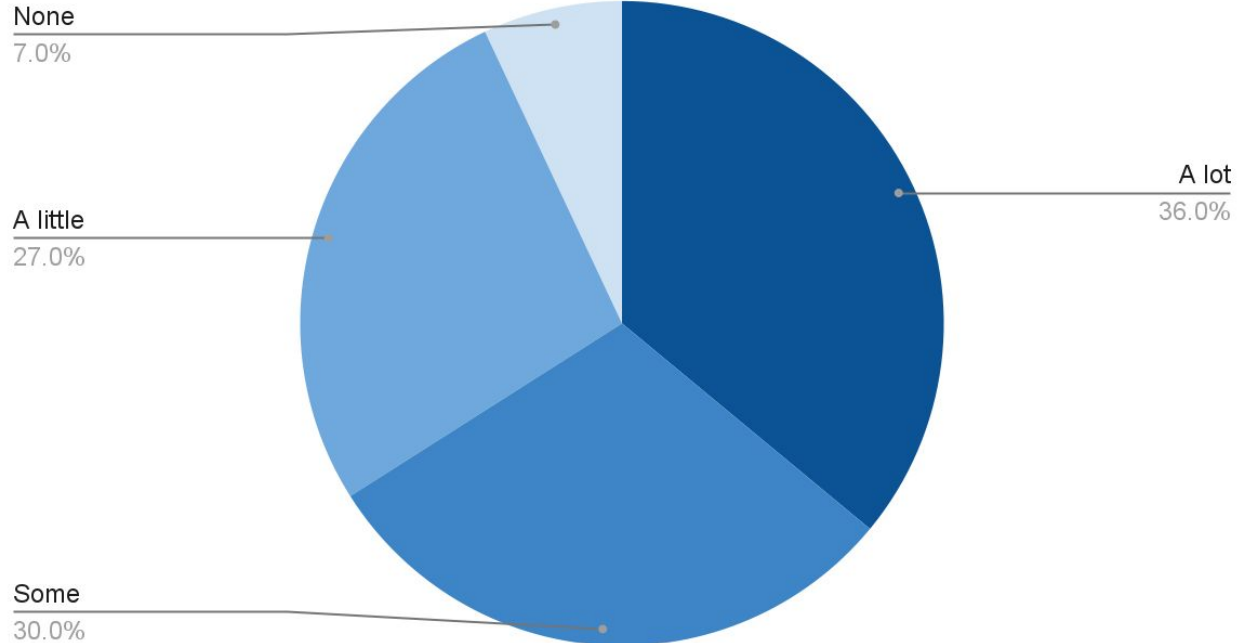
Some  
36.0%

A lot  
50.0%



# Experience with the command line?

Command line experience



# Experience with git?

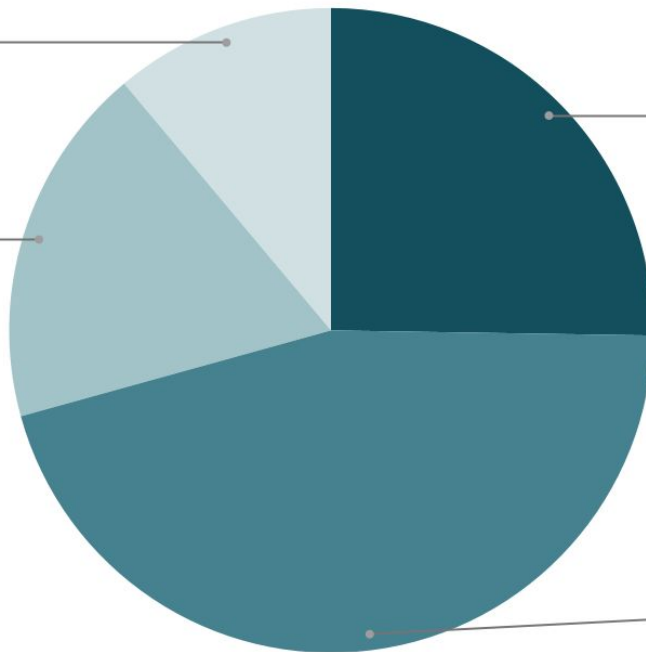
## Git experience

None  
11.1%

A little  
18.2%

A lot  
25.3%

Some  
45.5%



**And now - no more slides!**

Jupyter, here we come!