

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 was due before class!

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

- Can submit up to 1 week late for -20%
- Look for your grades in the next week
- After you receive your grade, you have 1 week to optionally revise your homework for up to full credit (see the syllabus)

Today

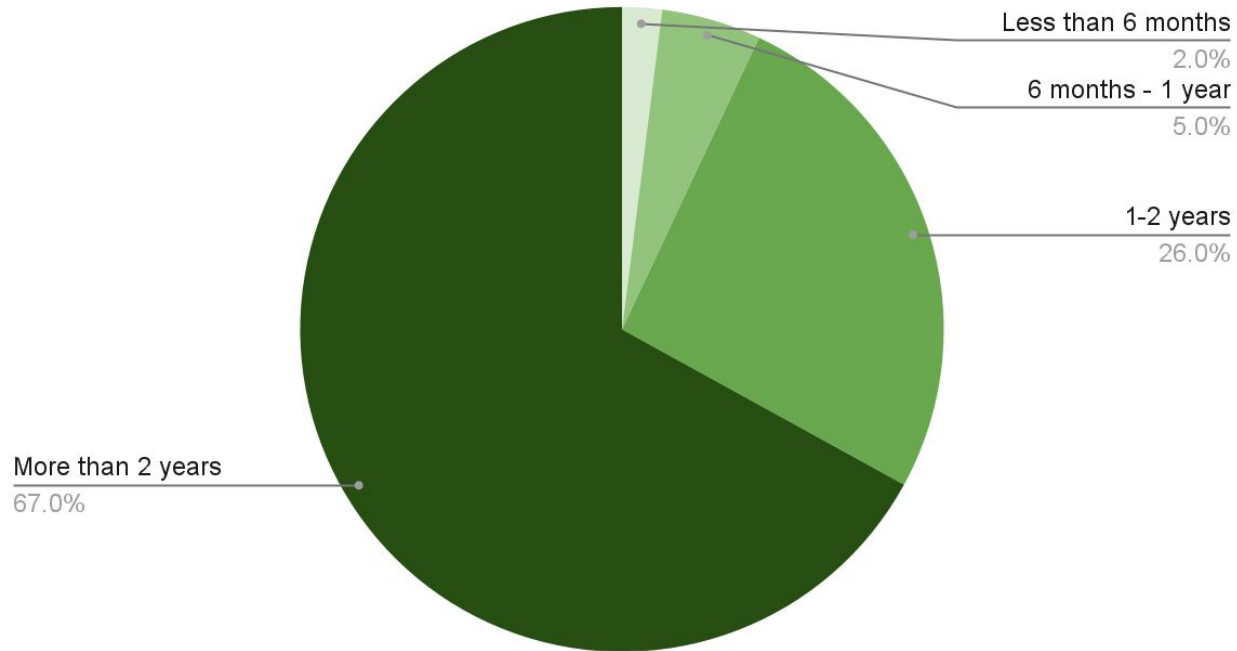
- Survey results
- Lecture: Jupyter notebooks intro
 - Breakout: Python math
- Break: 5 minutes
- Lecture: Python data types & flow control
 - Breakout: Python flow control
- Break: 15 minutes
- Lecture: numpy & pandas
 - Breakout: data visualization & manipulation

Survey Results



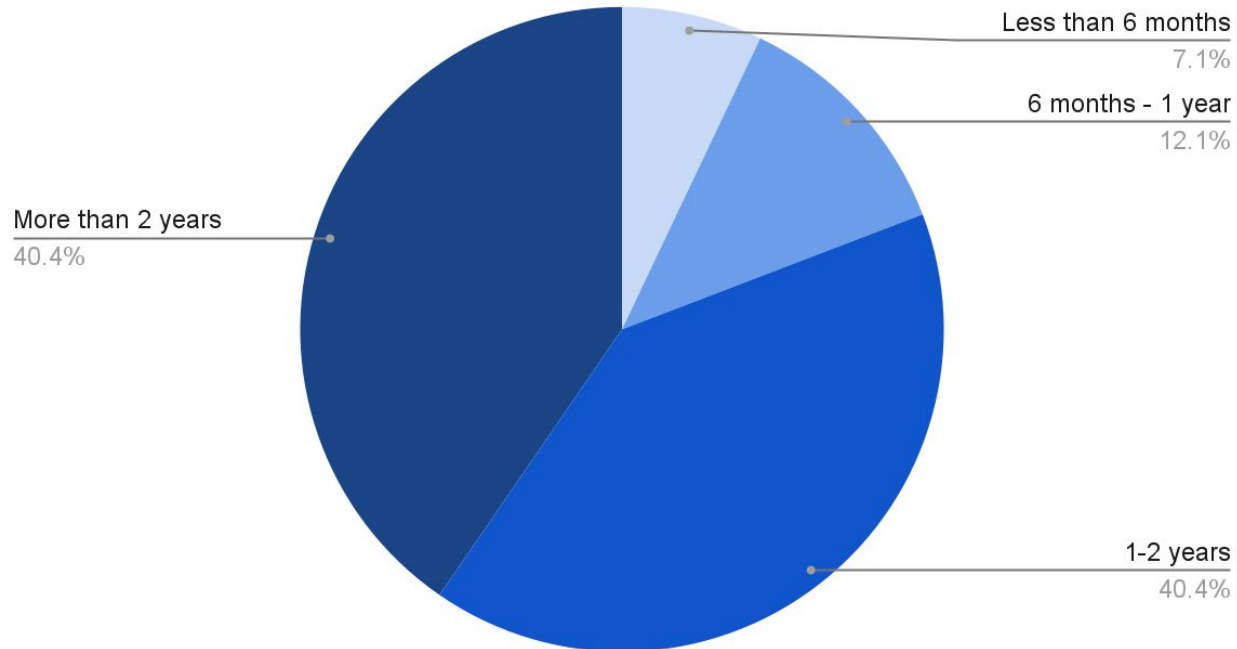
How much programming experience do you have?

Programming experience



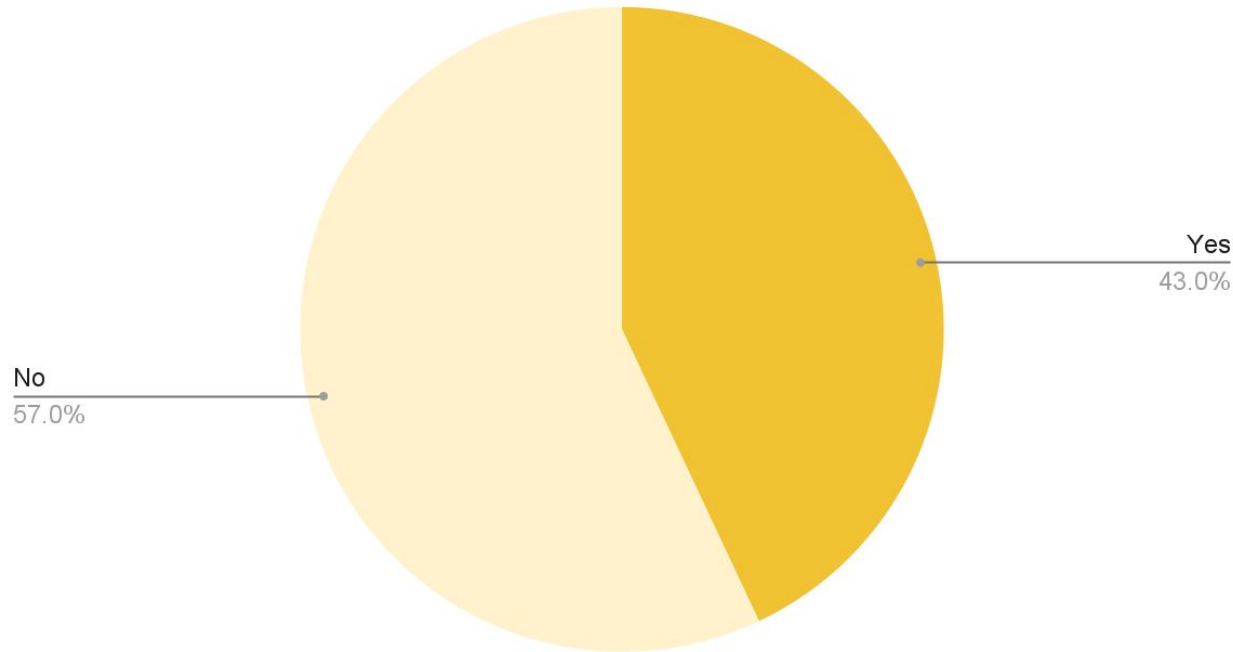
How much experience do you have with Python?

Python experience



Have you used a command-line text editor?

Command-line text editor



Comfortable with if-statements and for-loops?

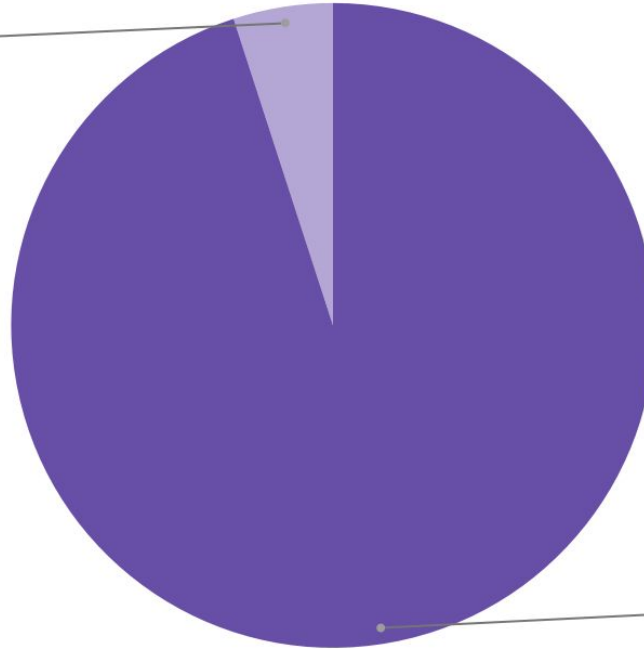


Yes!

Comfortable with functions?

Functions

No
5.0%

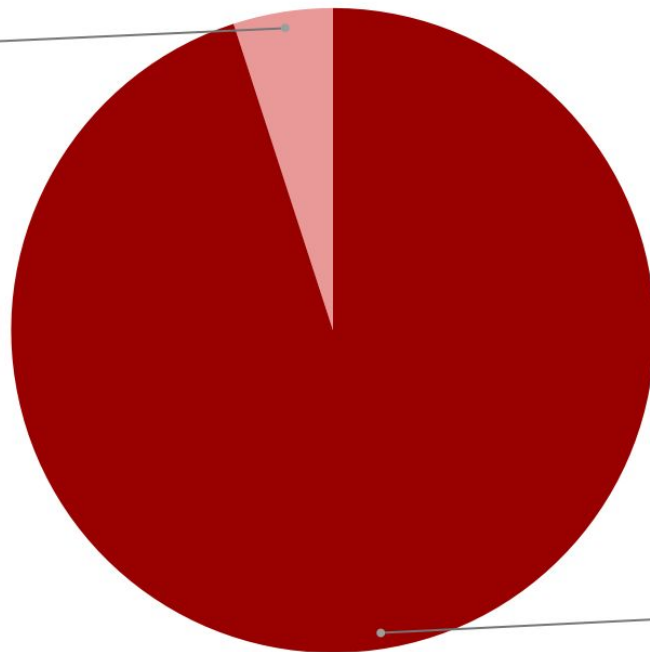


Yes
95.0%

Experience with scipy, pandas, etc?

Python package experience

No
5.0%



Yes
95.0%

Experience with iPython/Jupyter?

iPython/Jupyter experience

A little

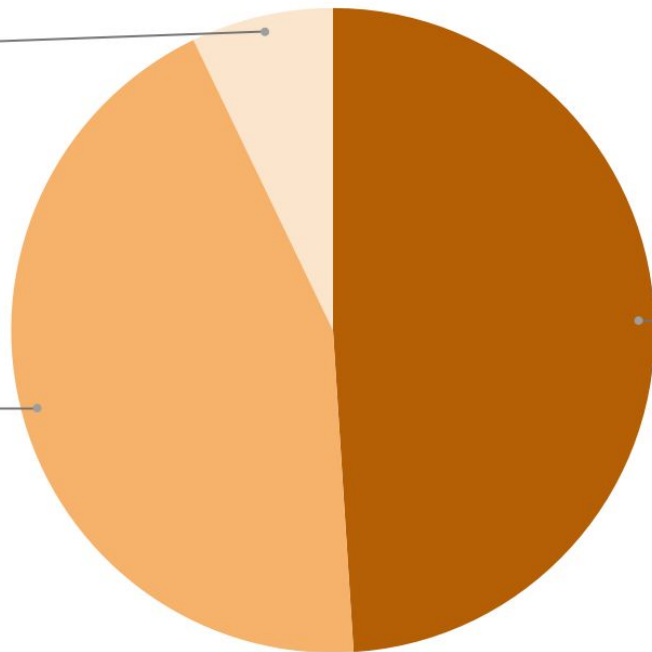
7.1%

Some

43.9%

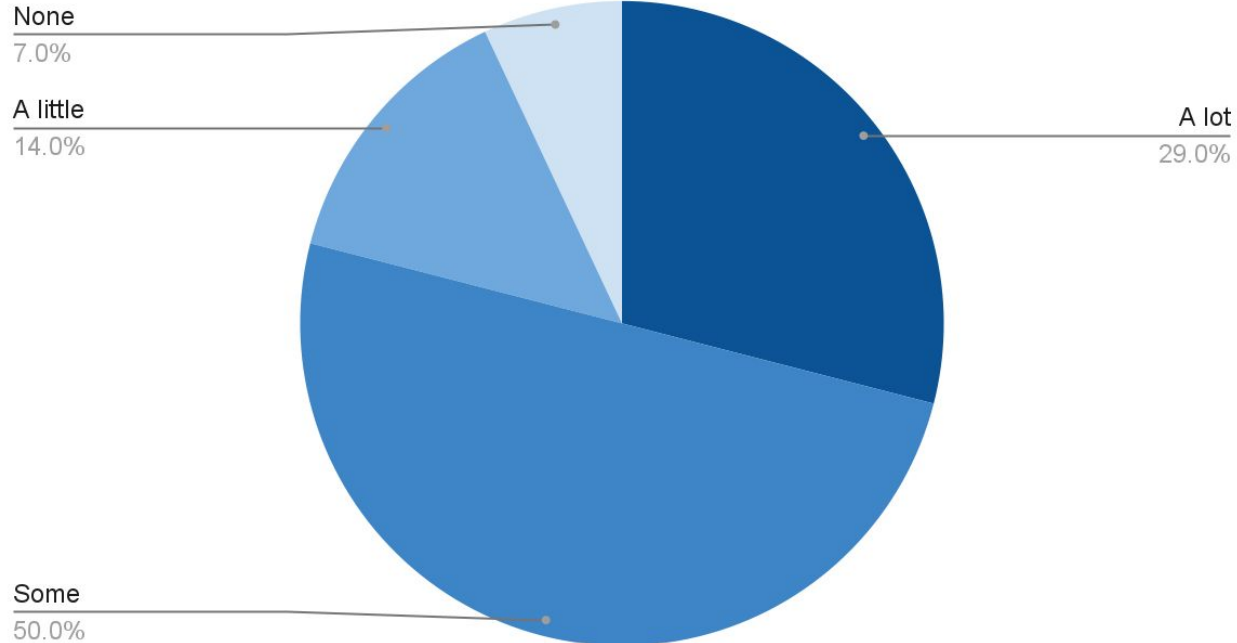
A lot

49.0%



Experience with the command line?

Command line experience



Experience with git?

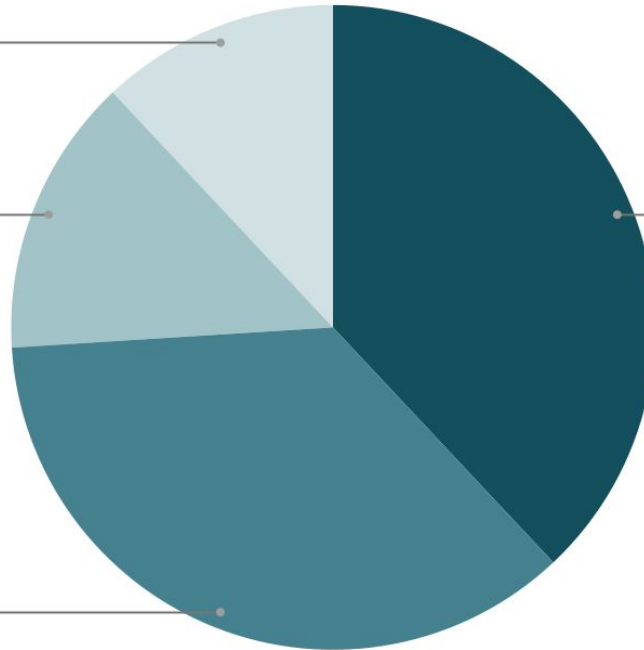
Git experience

None
12.0%

A little
14.0%

Some
36.0%

A lot
38.0%



And now - no more slides!

Jupyter, here we come!