



Python Fundamentals

Friday: Pandas DataFrames

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About this bootcamp

Cameras are **not** required during these lectures.

During lectures, ask questions in the Zoom chat. If you know the answers, feel free to answer questions in the chat, too.

If my internet goes out during a lecture, that means everyone gets a 10-minute break! (Has never happened, but it's good to have a plan.)



About this bootcamp

From 3 pm to 4 pm Central I will be back here (same Zoom channel) to answer any questions about the homework or quiz.

You can also email me questions at colby.witherup@northwestern.edu and I will do my best to answer as soon as I can.

Plan for the week - **6 basic objects**

LEARN PYTHON

Monday

- Objects
 - **integers**
 - **floats**
 - **booleans**
 - **strings**
- Functions
 - basic operators
 - convert between objects
 - string functions
- Concepts
 - naming variables
 - indexing strings

Tuesday

- Objects
 - **lists**
- Functions
 - list functions
- Concepts
 - for loops
 - if statements
 - error handling
 - importing functions from modules

Wednesday

- Objects
 - **dictionaries**
 - files
- Concepts
 - writing files
 - looping through dictionaries
 - writing your own functions

Thursday

- Concepts
 - interactive coding
 - writing scripts
 - running scripts
 - putting it all together

DATAFRAMES

Friday

- Objects
 - pandas dataframes
 - pandas series
 - plots
- Functions
 - dataframe functions
 - series functions
- Concepts
 - selecting data
 - filtering data
 - plotting data

Options to open fridayLecture.ipynb:

If you are running Jupyter Lab on your own computer:

- Go to <https://github.com/aGitHasNoName/pythonBootcampFriday>. Click on the green Clone button and choose Download ZIP. Unzip that folder. Open Anaconda Navigator and open Jupyter Lab. Navigate to the folder you just unzipped. Open fridayLecture.ipynb

If you are using Google Colab (online)

- Go to colab.research.google.com. Choose GitHub on the orange menu. Search for agithasnoname/pythonbootcampfriday. Choose fridayLecture.ipynb

Let's code!



FRIDAY HOMEWORK

Complete by any time
you like!

I will add an answers
notebook to GitHub
this afternoon – Sorry!

Complete the `fridayLecture.ipynb`
notebook

See you (maybe) at 3 pm Central
Or email me questions.

Thank you for attending! I will email out
follow-up info about what you can do next
to keep up with your Python.