

Introduction to Python

Allison N. Tegge

Department of Statistics

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Python

- What is Python?
 - A high-level scripting language.
 - Named after Monty Python
 - All files end in .py.
- What are the advantages to Python?
 - Easy to read.
 - Code tasks in few lines of code.
 - Many ways to accomplish the same coding task.
- What are the disadvantages to Linux?
 - Can be less efficient (in terms of computational speed).
 - Many ways to accomplish the same coding task.

How to use Python...

- From the command line:
 - Via an interpreter.
 - Using scripts.
- Using interactive software:
 - Jupyter notebooks (<https://ipython.org/notebook.html>)
 - Let's test it out online (<https://try.jupyter.org/>)
- I want to find the best way for you to interact with python!
 - Let us work together.

What python concepts are we going to cover?

- Expressions
- Data types (e.g., lists, tuples, boolean, string)
- Functions
- Packages, methods
- Classes

Let's create a small python script

Before next class... install Jupyter notebooks

- <https://jupyter.readthedocs.io/en/latest/install.html>