Beautiful Soup & Numpy

Numerical Computing in Python

June 7th, 2021

This Lecture

You got numbers? We got python.

Before we start...

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1. Next Project (not yet published!)

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2. Quick web-scraping demo

Next Project

Next Project

1. Will go live later this week

Next Project

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2. Just need to cover a few more things before it is assigned

Quick web-scraping demo

To the Notebook.

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2. Pandas
3. Matplotlib
4. various analysis and ML libraries

The domain of Numpy

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1. Provides many of the basic functions: iteration, Fourier, PRNGs, etc.

2. Has well-understood 'escape hatches' for when you want to use functionality implemented in a different language.

3. Many of the other libraries we will use this semester work with Numpy objects out of the box.

Main thing

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1. Fixed size (pros/cons?)
2. Homogeneous (pros/cons?)
3. Heavily optimized

Other things

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1. Many integer types (`intc`, `int{8|16|32|64}`, `float{16|32|64}`, complex numbers, booleans, and more!

To the Notebook!

What the title says.

Thanks for your time!