Intro to Python for Data Science

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Getting Started

Who has experience with the following:

- Programming (python or not)? Loops, functions, classes?
- How to use a command prompt/shell?
- Specific questions for today?

Agenda

- Why Python and What is Data Science
- Python basics
  - How to start
  - Basic data types and functionality
  - Quirks unique to python
- Data Science in Python
  - What is a model
  - How to prep data for python
  - How to build and use model in python
- Q&A

Python Resources

- For Learning
  - [Codecademy](#)
  - [Codewars](#)
- For Questions
  - Stack Overflow
  - Quora
- For Mastery
  - Practice!
  - Meetups

Why Python

"Hello, World"

- C

```c
#include <stdio.h>

int main(int argc, char ** argv)
{
    printf("Hello, World!\n");
}
```

- Java

```java
public class Hello
{
    public static void main(String argv[])
    {
        System.out.println("Hello, World!");
    }
}
```

- now in Python

```python
print "Hello, World!"
```

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Whats Data Science

Basics - Where to speak Python

- Text Editors
  - Atom
  - Sublime
  - Notepad
- OS shells/command prompt
  - MacOS - Terminal
  - Linux - Bash
  - Windows - Powershell
- Tools built for python
  - IPython
  - Jupyter Notebooks

Moving to python shell...