

## **Topic Outline: Python Fundamentals 2**

Revised: September 25, 2017

### **Materials**

- Today's handouts: this outline, stickers
- All posted on *Topic outlines & book & links* page of website (except the stickers).

### **Preliminaries**

- Tools and buzzwords
  - Boolean variables, comparisons, conditionals (if, else), slicing, loops (for), function definitions.
- Rules to live by: don't panic, ask for help
- What is this?

```
- 'abcd'
```

```
- ['Chase', 'Dave', 'Sarah', 'Spencer']
```

- ('Chase', 'Dave', 'Sarah', 'Spencer')
- '98.76'
- float('98.76')
- int(float('98.76'))
- -len('98.76')
- list('abcd')
- Tab completion
- object.method?
- Object inspector

#### Exercise

- Put red sticker on your laptop
- Start Spyder
- Open new file bootcamp\_class\_pyfun2.py in your Data\_Bootcamp directory
- Replace red sticker with green when you're set

# Python fundamentals 2

We'll follow the book chapter.

- Dictionaries
- Logical expressions (comparisons)
- Conditionals
- Slicing strings and lists
- Loops over lists and strings (for, else)
- Loops over counters (range())
- Defining functions
- Style
- Review
  - Put red sticker on, replace with green when done

## **Examples**

If time permits, we'll go through some examples of economic and financial data and its properties. It's an IPython notebook that you can view on the GitHub repo: the Code/IPython directory, file bootcamp\_examples.ipynb.

### After this module

- Required
  - Code Practice #2 (should take about an hour)
- Recommended
  - Write: After class, write down everything you remember without using your notes
  - **Review:** Reread the chapter and fill in anything you missed.
  - Ask for help if you get stuck.