Topic Outline: Review & Applications
Revised: March 21, 2016

Materials

- Today's handouts: this outline, stickers (as needed)

- Posted on *Topic outlines & links* page of website (except the stickers)

Preliminaries

- Next week's exam
  - Covers: Python fundamentals 1/2, data input with Pandas, graphics with Matplotlib
  - Like a drivers test: establishes basic competence
  - Format: an IPython notebook like the one we use below
  - Rules: open book and open internet, but we recommend you prepare and bring a one-page "cheat sheet"

- Setup
  - Put red sticker on your laptop
  - Download IPython notebook
    https://github.com/DaveBackus/Data_Bootcamp/blob/master/Code/IPython/bootcamp_exam_practice.ipynb
    and save Raw file in your `Data_Bootcamp` directory
  - Start Jupyter and open notebook
  - Replace red sticker with green when you're set

Exam practice

Work your way through the practice exam. Raise your hand when you get stuck.

- IPython basics

- Python fundamentals

- Data input with Pandas

- Graphics with Matplotlib

Applications

Setup

- Put red sticker on your laptop

- Download IPython notebook

  https://github.com/DaveBackus/Data_Bootcamp/blob/master/Code/IPython/bootcamp_examples.ipynb

  and save Raw file in your `Data_Bootcamp` directory

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The idea is to resume thinking about data and what we might learn from it. We'll follow the notebook, but tell us which examples interest you:

- Current economic conditions

- Government bond yields

- Option prices

- Employment trends

- Government debt

- Aging populations

- Declining birth rates

- Ease of doing business

More examples coming.

After class

- Required
  - Nothing

- Recommended
  - Review book chapters
  - Review code practice
  - Prepare your cheat sheet