Topic Outline: Review & Applications

Revised: March 20, 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

- Start Jupyter and open notebook
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We'll follow the notebook, but tell us which ones interest you:

- Current economic conditions
- Government bond yields
- Option prices
- Employment trends
- Government debt
- Aging populations
- Declining birth rates
- Ease of doing business

After class

- Required
 - Nothing
- Recommended
 - Review book chapters
 - Review code practice
 - Prepare your cheat sheet