Tuesday 2/11

Welcome!

Announcements and reminders:

- Grades for g09-g11 are on Blackboard
- Exercises g12, g13 posted, due Friday
 Both require data from the class web page
 Will cover background for g13 on Thursday

Tips:

- Don't call the GroupBy .median() method with a column as an argument
 - ⇒ Argument is **ignored** and median() is applied to the **whole** data frame

```
In [62]: g = hh.groupby(['type'])
In [63]: g['etr'].median()
type I
    0.686044
    0.645549
    0.602345
    0.528330
Name: etr, dtype: float64
In [64]: g.median(g['etr'])
         inc
                           b
                                   etr
type
                       175.5 0.686044
      68862.2 0.33785
      75452.4 0.31345 173.0 0.645549
     82826.9 0.28865 175.0 0.602345
     87934.7 0.26200 174.0 0.528330
```

This is correct: computes the medians of the ETR column

This is incorrect: computes medians of all columns and should not have an argument.

• See the PDF in the Google Drive folder on downloading data How to download files without opening or unzipping them

Downloading data files with Safari:

Go to Preferences and UNCHECK "Open safe files after downloading":



• Definitions of Census regions (4) and divisions (9) for g12 demo:

