

# PISA 2012

- ✦ Results from 2012 OECD PISA tests: “the world’s global metric for quality, equity and efficiency in school education”.
- ✦ 485,490 students math, science and reading test scores
- ✦ 65 countries, between 100-1500 schools in each
- ✦ Student questionnaires about their environment (635 vars)
- ✦ Parents surveyed on work, life, income (143 vars)
- ✦ Principals provide information about their schools (291 vars)

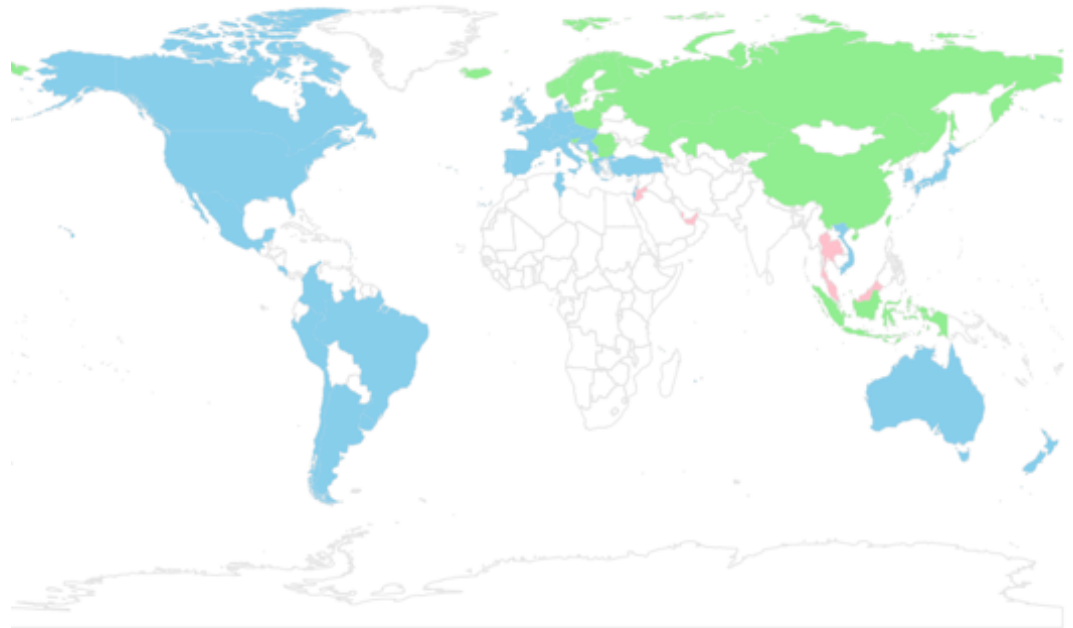
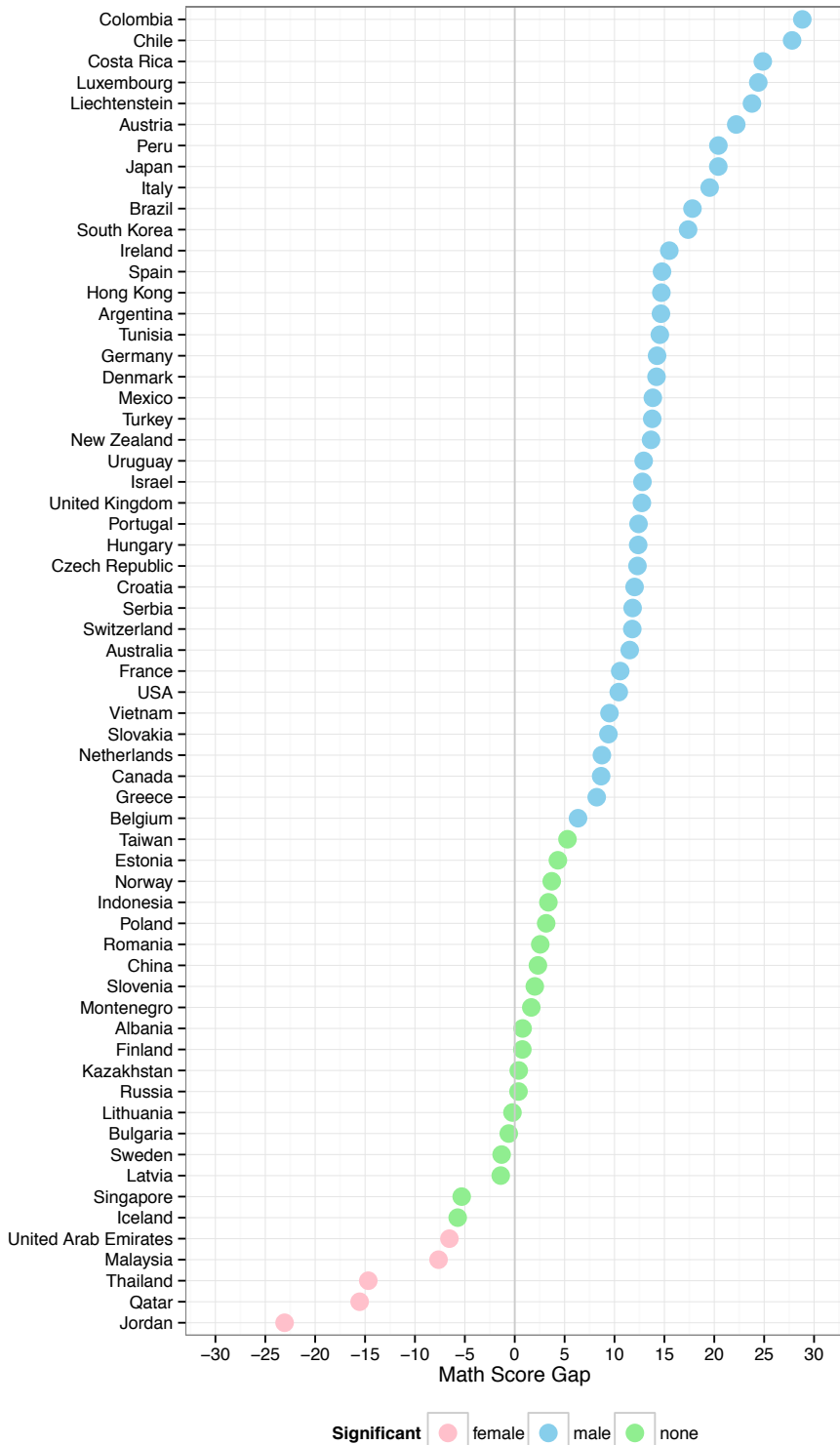
[http://www.oecd.org/pisa/pisaproducts/  
datavisualizationcontest.htm](http://www.oecd.org/pisa/pisaproducts/datavisualizationcontest.htm)

# Brainstorming

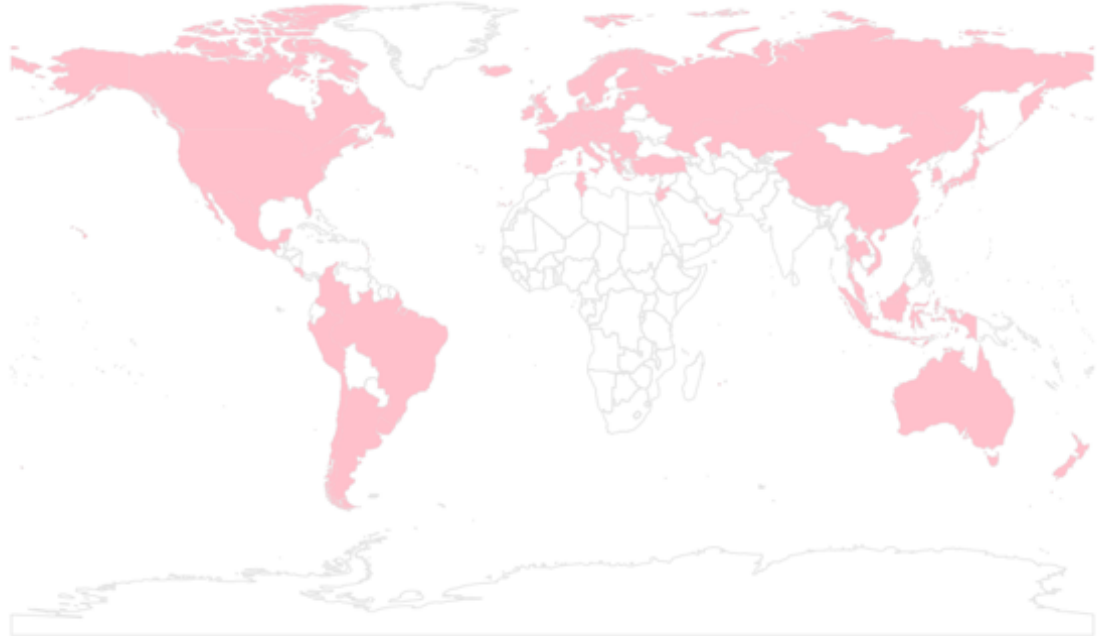
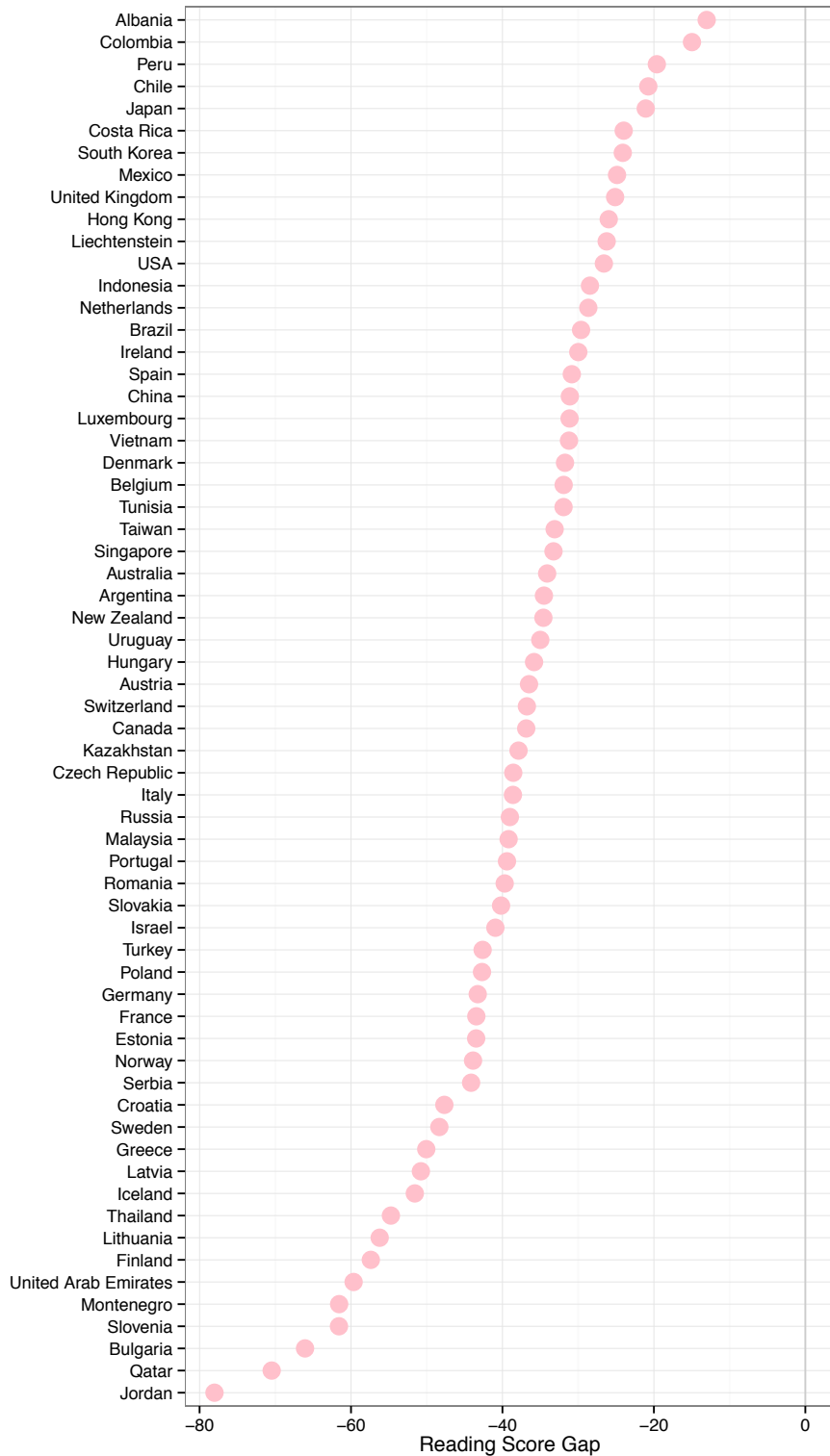
- ✦ shared whiteboard: <https://etherpad.mozilla.org/4YXequeB4Yg>
- ✦ Computed combined possessions score
- ✦ Age at start school
- ✦ Gender gap
- ✦ Housewife effect
- ✦ Books and televisions effect
- ✦ ...

# Math

1. Compute weighted means by country and by gender.
2. Show mean difference by country
3. t-test of difference (unadjusted)



# Reading



# Your Turn

Brainstorm with your neighbors what might be interesting questions to pursue on the data.

Two csv files have variable description dictionaries, two R data files to load.

Make one table, and one picture to answer your question.