Applied Statistics for Data Scientists with R

Class 22: Introduction to SPSS

Introduction

- First released in 1968, acquired by IBM in 2009

- Original meaning - Statistical Package for Social Sciences

- Later changed to - Statistical Product and Service Solutions

https://rebrand.ly/ibm-spss

Why SPSS?

- GUI based. So, no coding.

- Doesn't require to know all the mathematical details behind the statistical procedures.

- Easy to learn, requires less time

- In built full range of data management and editing system

- Ease of use and reproducibility

- Availability of basic to complex statistical methods

Learning Objective

- Data entry and preparing for analysis

- Applications of the statistical methods using SPSS

- Reproducible analysis

- Reporting

SPSS Windows

- The data editor window
    - Data view – to enter and view data
    - Variable view – to modify variables in general

- The output viewer window

- The syntax editor window

Some Common Operations

- Recode
- Filter (select cases)
- Frequency Table (and custom tables)
- Statistical Tests
- Regression

Clustered Bar Count of Gender by Class