

R Basics and Exploratory Data Analysis

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Course objectives

- Writing and debugging R scripts
- Generating and manipulating R data
- Making R graphics
- Carrying out exploratory data analysis

Outline

- 09:00 to 09:05: Some Common errors with the R software
- 09:05 to 09:10: Objects and object names
- 09:10 to 10:10: Data types and structures in R
- 10:10 to 10:15: Break
- 10:15 to 11:15: Handling data in R
- 11:15 to 11:20: Break
- 11:20 to 12:30: Graphics in R
- 12:30 to 1:30: Lunch break:
- 1:30 to 4:30: Exploratory data analysis

Exploratory data analysis

- 1:30 to 1:40: Data distributions
- 1:40 to 1:45: Break
- 1:45 to 1:55: Summarizing distributions
- 1:55 to 2:00: Break
- 2:00 to 2:10: Outliers
- 2:10 to 2:15: Break
- 2:15 to 2:20: Data transformation
- 2:20 to 2:25: Break
- 2:25 to 3:30: Exercise using the Jura data
- 3:30 to 3:35: Break
- 3:35 to 4 pm: Review
- END!