# Exercises on multiple linear regression

### Claudius Gräbner-Radkowitsch

### 2024-06-07

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# 1 Exercises on multiple linear regression

### 1.1 Studying coffee data

Read in the data set coffee\_data.csv.

It contains the following variables:

- CoffeePrice: The world market price for coffee from Brazil in EUR per kilo
- CoffeeDemand: The demand for coffee from Brazil in tons
- CoffeeSeller: The kind of coffee company: Standard or FairTrade

In the following, treat CoffeeDemand as the dependent variable, and CoffeePrice and CoffeeSeller as the independent variables.

Estimate a parallel slopes model, and an interaction model. Which of the models would you prefer?

You should justify your choice using two main arguments.

## 1.2 Exploring feasible model specifications

Read in the data set ice\_data.csv. What kind of relationships could you reasonably study in a linear regression framework (without further data transformation).

#### 1.3 Solutions

The solutions to both exercises can be found here.