Introduction to data analysis

ETC1010 - 5510

Introduction to Data Analysis

Week 7 - Tutorial

Contents

Workshop objectives

- ✔ Introduction to Linear models
- ✔ Investigate elements of linear models
- ✔ Visualise Linear models

1 Instructions

1. Follow this link here and log in into Rstudio Cloud as explained in the workshop video in Moodle.
2. In each question you will replace '____' with your answer. Knit the document once you've answered all the questions. Remember to go to `knitr::opts_chunk` at the beginning of Rmd, change `eval = TRUE`, then knit the document.

2 Exercise 1: Introduction to data modeling [Est. time: 20 min]

1. Once you have logged in into the cloud space, open `Ex1-intro.Rmd`

2. This file is split into 2 sections, A and B.

   - Section A: Practice with Paintings dataset [Est. time: 12 min]

   - Section B: Your turn with Categorical Predictor variable [Est. time: 8 min]

3. Answer Q1-Q3.

3 Exercise 2: CO2 modeling [Est. time: 20 min]

1. Open `Ex2-co2.Rmd`.

2. Answer Q1-Q15.

3. There are 2 Extension Exercises to be done at a later time, for additional practice.

4 Exercise 3: Gapminder [Est. time: 25 min]

1. Open `Ex3-gapminder.Rmd`.

2. Answer the questions Q1-Q11.

3. There is an Extension Exercise to be done at a later time, for additional practice.

   Inside folder- "ExtraPractice", there's Ex-4-fertility.Rmd, which is additional practice data for linear modeling.