

Data Analysis and Forecasting, homework 1

October 10, 2024; due October 15, 2024

1. Exercise 3, Section 2.10 of Hyndman & Athanasopoulos (2021). In addition to the questions in the book, produce a matrix of scatterplots of the three variables.
2. Exercise 7, Section 2.10 of Hyndman & Athanasopoulos (2021).
3. The file `TBZ.csv`, available on Moodle, contains information about the minimum and maximum daily temperature in Bolzano from January 1st, 1981 to December 31, 2023. Import the data in R, construct a `tsibble` object, compute the daily mean and add it to the `tsibble`. Draw a time plot and a seasonal plot. Comment them, focusing especially on seasonality.

[Hint: it may be more convenient to construct the sequence of dates in R, instead of converting the “Date” column already contained in the file to the format required by a `tsibble` object.]