.1 Introduction: Assignments

Instructions

Submit your answers to the seven first exercises through Campus Global. The remainder of your assignments concern self-studies.

Descriptive statistics

Imagine you measured the (average) voice pitch of 20 Korean speakers (in Hz)¹. The data looks as follows:

```
208, 158, 153.3, 259.7, 102.9, 86.1, 231.9, 285.1, 181.2, 266, 252.5, 185.5, 110.7, 236.8, 207.5
```

Codified as a vector, called pitch, in R:

```
pitch <- c(208, 158, 153.3, 259.7, 102.9,
86.1, 231.9, 285.1, 181.2, 266,
252.5, 185.5, 110.7, 236.8, 207.5)
```

Report the following summaries of this sample

- 1. Mean
- 2. Median
- 3. Variance
- 4. Standard deviation

Answer the following questions:

- 5. Does the mean give a good summary of this sample? Why (not)?
- 6. What is suggested by the mean and median leading to different summaries?
- 7. Complete the following sentence with the first word that comes to your mind: It's raining. I'm going to take the ...

Self-study

- 1. Work through Chapter 1 and Chapter 2 (until the end of subsection 2.2) of Introduction to Data Analysis (Franke 2021);
- 2. Make sure you have a working R environment: either locally –on your computer– or by having made sure you can execute code in a colab document
- 3. Look at the guidelines for the analysis report and read the illustrative report. Think of a general question about language that interests you and write it down.

¹This data was randomly sampled from the pre-processed and shortened version of the study of Winter and Grawunder (2012), as provided in Franke (2021). The data is accessible here.

References

Franke, Michael. 2021. An Introduction to Data Analysis.

Winter, Bodo, and Sven Grawunder. 2012. "The Phonetic Profile of Korean Formal and Informal Speech Registers." *Journal of Phonetics* 40 (6). Elsevier BV: 808–15. https://doi.org/10.1016/j.wocn.2012.08.006.