**Assignment 1** – Deadline: 03.10.2024 15:15

Work on the tasks in a R Script and upload it on ILIAS.

1. **Get the data:** 
   1. Download the [election results from the Landtagswahl in Sachsen](https://wahlen.sachsen.de/landtagswahlen-2024-informationen-und-downloads.html?_cp=%7B%22accordion-content-9212%22%3A%7B%220%22%3Atrue%7D%2C%22previousOpen%22%3A%7B%22group%22%3A%22accordion-content-9212%22%2C%22idx%22%3A0%7D%7D).
   2. Specifically, „Landtagswahl 2024 - endgültiges amtliches Ergebnis, Datei ist nicht barrierefrei (\*.xlsx, 0,32 MB) Freistaat Sachsen, Wahlkreise, Gemeinden, Teilgemeinden, Landkreise, Kreisfreie Städte“
2. **Packages:** If needed, install the necessary packages and load them. For this assignment, the installing and loading the *tidyverse* is sufficient. However, you can also only install and load the specific packages (e.g., *dplyr*).
3. **Data import:** Import the data in the .xlsx format. You can do this manually first. However, in your submission, you need to include the code to import the data.
   1. Import only the data from the sheet “LW24\_endgErgebnisse\_SN&WK”
   2. Store the data in a dataframe called “election\_results”

1. **Data wrangling:**
   1. *Select & rename:* Select the columns “WK-Nr”, “WK-Name”, and the column that gives you the “Zweitstimmen” in percent for the main parties: CDU, SPD; FDP, Greens, Linke, and AfD. Select and rename (to English) in one step. Give the variables an informative but short name.
   2. *Filter:* In this step, reduce the data frame to election districts with vote shares for the Greens higher or equal to 5 percent.
2. ***Your R script – Bonus:***
   1. Make sure that your code is clean and in the right order: I should be able to run the code without interruption on my device (besides adjusting the file path to the excel file) all at once.
   2. Annotate your code (extensively): Why are you using specific arguments? What is the purpose of specific code? …