

## **Assignment 2 – Deadline: 31.10.2024 15:15**

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

### **1. Get and load the data:**

- a. You will work with the data which I provided you in session 7: `btw21_election_structural.rda`. You can get the data on ILIAS (see Dateien).

### **2. Visualization (& some data wrangling):**

- a. Create a scatterplot for the relationship between the unemployment rate and the vote share of the AfD (second vote). The plot should include:
  - i. A title
  - ii. A subtitle
  - iii. A caption
  - iv. Changed axis labels, a trend line
  - v. Choose another theme!
- b. Create a variable that is called “unemployment”. This should take the value “high” if the unemployment rate is higher than or equal to 10, “moderate” if the unemployment rate is lower than 10 but higher than 5, and “low” if the unemployment rate is lower than or equal to 5.
- c. Create a histogram of AfD vote shares with three panels (using `facet_wrap`). The panels should correspond to the values of the new “unemployment” variable. The plot should include:
  - i. A title
  - ii. A subtitle
  - iii. A caption
  - iv. Changed axis labels

### **3. Your R script – Bonus:**

- a. 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.
- b. Annotate your code (extensively): Why are you using specific arguments? What is the purpose of specific code? ...