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Course: Basics of R programming language for statistical analysis

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Meeting 2: Basic notions

Exercises

REPRODUCE Tasks:

1. rBasics_Meeting2.r/line 114: EXERCISE_POINT_1: Compute the absolute and relative frequencies for variable <<education>> and <<pas>>>.

(Estimated time: 15 min)

COMMENT Tasks:

1. rBasics_Meeting2_COMMENT folder/extractEurostat.r: Comment the R code.

(Estimated time: 45 min)

DEBUG Tasks:

1. rBasics_Meeting2_DEBUG folder/extractTablesPDF.r: After running line 21, R returns: Error in library(miniUI): there is no package called 'miniUI'. Solve the error and run the entire code.

(Estimated time: 20 min)

PRODUCE Tasks:

1. rBasics_Meeting1.r/line 113: EXERCISE_POINT_1: Change the column names of the absFreq data frame to <<"age" | "absFreq" | "relFreq">>>. At this point the names are <<"age" | "Freq" | "V3">>>.

(Estimated time: 15 min)

2. rBasics_Meeting2.r/line 187: EXERCISE_POINT_3: Search for other formats you can save your plot in.

[Estimated time: 5 min]

3. rBasics_Meeting2.r/line 201: EXERCISE_POINT_4: Add % to pie chart slices. Add a colour legend instead of labels.

[Estimated time: 15 min]

- 4. Import the << Farmec clients data.csv>>. It contains data on 10 people that saw the Farmec marketing campaign for their MicellaR wateR product:
 - → The age of the respondents (age)
 - → The channel through which they saw the campaign (exposure):
 - *1=online
 - *2=offline
 - *3=both online and offline
 - → (decision):
 - *1=they bought the product
 - *2=they did not buy the product
 - → income
- a) Plot age and exposure on a single graph -> cross tabbed/conditional/grouped bar chart:
- *age conditioned by exposure (age in case exposure=1, age in case exposure=2, age in case exposure=3)

[Estimated time: 20 min]

- b) Plot age, exposure and decision on a single graph
- -> cross tabbed/conditional/grouped bar chart:
- -age conditioned by exposure (age in case exposure=1, age in case exposure=2, age in case exposure=3)
- -bar colour: decision

[Estimated time: 20 min]

- c) Plot the age, income, and decision on a single graph.
- ->line graph:
- oX: age
- oY: income
- bullet colour: decision

[Estimated time: 20 min]