Week 4: Start with R

Gustav Helms

2021-10-21

DESCRIPTION

For this assignment, please answer the following three questions showing your code and results and then take a particular screenshot of your working environment. You can upload here (to Brightspace) the code and the URL to the screenshot OR submit everything to Github and submit here a single link to your repository.

1) Use R to figure out how many elements in the vector below are greater than 2.

```
rooms <- c(1, 2, 1, 3, 1, NA, 3, 1, 3, 2, 1, NA, 1, 8, 3, 1, 4, NA, 1, 3, 1, 2, 1, 7, 1, NA)

# Removed all na
rooms <- rooms[!is.na(rooms)]

# Checking how many values are above 2
length(rooms[rooms>2])
```

```
## [1] 8
```

```
# There are 8 values above 8
```

2) What type of data is in the 'rooms' vector?

```
# Checking the class
class(rooms)
```

```
## [1] "numeric"
```

```
# The data in the rooms vector are numeric
```

3) What is the result of running the median() function on the above 'rooms' vector?

```
# Running the median function
median(rooms)
```

```
## [1] 1.5
```

```
# Running the median function returns the median of the vector
```

4) Submit the following image to Github: Inside your R Project (.Rproj), install the 'tidyverse' package and use the download.file() and read_csv() function to read the SAFI_clean.csv dataset into your R project as 'interviews' digital object (see instructions in https://datacarpentry.org/r-socialsci/setup.html and 'Starting with Data' section). Take a screenshot of your RStudio interface showing

```
# Loading the package
pacman::p_load(tidyverse)

# Downloading the data
interviews <- read_csv("https://raw.githubusercontent.com/yorkulibraries/rworkshop/master/SAFI_clean.csv
```

```
##
## -- Column specification --------------------------------------------------------
## cols(
##   key_ID = col_double(),
##   village = col_character(),
##   interview_date = col_datetime(format = ""),
##   no_membrs = col_double(),
##   years_liv = col_double(),
##   respondent_wall_type = col_character(),
##   rooms = col_double(),
##   memb_assoc = col_character(),
##   affect_conflicts = col_character(),
##   liv_count = col_double(),
##   items_owned = col_character(),
##   no_meals = col_double(),
##   months_lack_food = col_character(),
##   instanceID = col_character()
## )
```

```
# Showing the head of the interviews data frame
head(interviews)
```

```
## # A tibble: 6 x 14
##   key_ID village interview_date      no_membrs years_liv respondent_wall_~ rooms
##    <dbl> <chr>   <dttm>                  <dbl>     <dbl> <chr>              <dbl>
## 1      1 God     2016-11-17 00:00:00         3         4 muddaub                1
## 2      1 God     2016-11-17 00:00:00         7         9 muddaub                1
## 3      3 God     2016-11-17 00:00:00        10        15 burntbricks            1
## 4      4 God     2016-11-17 00:00:00         7         6 burntbricks            1
## 5      5 God     2016-11-17 00:00:00         7        40 burntbricks            1
## 6      6 God     2016-11-17 00:00:00         3         3 muddaub                1
## # ... with 7 more variables: memb_assoc <chr>, affect_conflicts <chr>,
## #   liv_count <dbl>, items_owned <chr>, no_meals <dbl>, months_lack_food <chr>,
## #   instanceID <chr>
```

a) the line of code you used to create the object,

b) the 'interviews' object in the Environment, and

c) the file structure of your R project in the bottom right "Files" pane.

Save the screenshot as an image and put it in your AUID_lastname_firstname repository inside our Github organisation (github.com/Digital-Methods-HASS) or equivalent. Place here the URL leading to the screenshot in your repository.

Link to the github repo https://github.com/Digital-Methods-HASS/AU639185_Helms_Gustav