

Home assignment 8

Please, use RStudio for your solution. **Deadline for this HA is 22 November 23:59 Moscow time.**

Name your file as «Surname_Name_HA8» and put in Yandex folder (<https://disk.yandex.ru/d/D8xcpgNIV-FagQ>)

Watch online lectures:

“Introduction to Statistics” at Stepik 1.6-1.9

<https://stepik.org/lesson/27788/step/1?unit=9053>

“Basic Statistics” at Coursera 6.01-6.05 (optional)

<https://www.coursera.org/videos/basic-statistics/ORpiK>

Descriptive statistics

1. Read data from the 6th wave of WVS.
2. Select Russian and Sweden sample in a new data set
3. Select variables: V102 (trust in family), V103 (trust in neighbors), V104 (trust in known people), V105 (trust in unknown people), V106 (trust in people of another religion), V107(trust in people of another nationality), V23 (life satisfaction), V10 (happiness).
4. Recode variables with reversed scales to get a correct order of numeric codes. Don't forget to check recoding.
5. Using raw counts check the distributions of all trust variables in Russia and Sweden including missing values.
6. Recode some trust variables to solve the problem of small number of observations in cross-tables. Check the recoding.
7. Compare levels of all trust indicators in Russia and Sweden. Draw conclusions and illustrate your conclusions using measures of basic statistics. Choose the correct ones.
8. Using raw counts check the distributions of life satisfaction in Russia and Sweden including missing values.
9. Compare levels of life satisfaction in Russia and Sweden. Draw conclusions and illustrate these conclusions using measures of basic statistics. Choose the correct ones. If you need to recode this variable, don't forget to do it. Don't forget to check recoding.
10. Using raw counts check the distributions of happiness in Russia and Sweden including missing values.
11. Compare levels of happiness in Russia and Sweden. Draw conclusions and illustrate these conclusions using numbers. If you need to recode this variable, don't forget to do it. Don't forget to check recoding.
12. Create accurate visualization for distributions of V102 (trust in family), V103 (trust in neighbors), V104 (trust in known people), V105 (trust in unknown people), V106 (trust in people of another religion), V107(trust in people of another nationality), V23 (life satisfaction), V10 (happiness). Do not forget to include meaningful names and labels on your graphs.
13. Create a picture which includes graphs of trust variables.