

Introduction to Statistics in R

Department of English Studies, Faculty of Philosophy, University of Novi Sad, Serbia
Winter term 2018/2019

Lecturer: Isidora Gatarić

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Time: 6-8 pm – Thursday/ 3-6 pm – Saturday

Location: 1st floor, computer classroom (123)

Software

R Core Team (2018). *R: A language and environment for statistical computing*. Vienna: R Foundation for Statistical Computing.

Books

Baayen, R. H. (2008). *Analyzing Linguistic Data. A Practical Introduction to Statistics Using R*. Cambridge, UK: Cambridge University Press.

Gries, S. (2013). *Statistics for Linguistics with R: A Practical Introduction*. Berlin, Germany: Walter de Gruyter GmbH.

Course schedule

Date	Lecture	Readings
1.11.2018.	<i>Statistics for Linguistics in R: An introduction</i>	1. Baayen (2008) – 1 st chapter 2. Gries (2013) – 1 st chapter 3. Baayen and Milin (2010) – paper 4. Baayen (2010) – paper 5. Wurm and Fisicaro (2014) – paper
8.11.2018.	<i>Fundamentals of R: Part I</i>	1. Gries (2013) – 2 nd chapter 2. Baayen (2008) – 1 st chapter 3. On-line <i>DataCamp</i> course <i>Introduction to R</i> (free; with certificate) – link 4. On-line <i>edX</i> course <i>Introduction to R for Data Science</i> (free; but you have to pay the certificate) – link
15.11.2018.	<i>Fundamentals of R: Part II</i>	1. Gries (2013) – 2 nd chapter 2. Baayen (2008) – 1 st chapter 3. On-line <i>DataCamp</i> course <i>Introduction to R</i> (free; with certificate) – link 4. On-line <i>edX</i> course <i>Introduction to R for Data Science</i> (free, but you have to pay the certificate) – link
22.11.2018.	<i>Descriptive Statistics: Univariate Statistics</i>	1. Gries (2013) – 3 rd chapter 2. Baayen (2008) – 2 nd chapter
29.11.2018.	<i>Descriptive Statistics: Bivariate and Multivariate Statistics</i>	1. Gries (2013) – 3 rd chapter 2. Baayen (2008) – 2 nd and 3 rd chapters

		3. Stat tasks for homework
8.12.2018.	<i>About Normality Distribution tests (Wilk-Shapiro & Kolmogorov Smirnov) and introduction to parametric and non-parametric tests; Chi square</i>	1. Course materials 2. Book chapter – link * * The exercises were done in SPSS, and we only work in R.
15.12.2018.	<i>t-tests and its non-parametric equivalents; ANOVAs and non-parametric equivalents</i>	1. Course materials 2. Book chapter (t-test) – link 3. Book chapter (ANOVA) – link
22.12.2018.	<i>Correlation and Regression</i>	1. Course materials 2. Baayen (2008) – 6 th chapter 3. Gries (2013) – 5 th chapter * * For those who can figure out what he is talking about. 4. Book chapter (Correlation) – link 5. Book chapter (Regression) – link

*Goodnight columns, goodnight rows,
Goodnight kind strangers on Stack Overflow,
Goodnight factors, goodnight strings,
Goodnight overfitted things,
Goodnight humans, goodnight bots,
Goodnight inconclusive plots.
Goodnight R.*