R radionica: Uvod u R programiranje

Startit, Beograd 19.2.2019

O meni

Master Metodologije istraživanja, Univerzitet u Nojšatelu (major)







Master Data Science, Univerzitet u Cirihu (minor)

Master in Statistics





ESRA (European Survey Research Association)

RLadies Belgrade, RLadies Lausanne,

R-Ladies Belgrade







Sadržaj

- 1. Uvod u R programski jezik
- 2. Šta sve R može?
- 3. Kako R može da pomogne pri statističkoj analizi podataka?
- 4. Manipulacija i vizuelizacija podataka u R-u
- 5. Kako nastaviti učenje (samostalno)?
- 6. RLadies i ostali R igrači na srpskoj sceni

Uvod u R programski jezik

R kao programski jezik (1993.)

Preteča R-a je programski jezik S (Bell Laboratories)

Prvenstveno je bio namenjen statističarima

Danas je u širokoj upotrebi (analitičari tržišta, programeri, biolozi, hemičari, lingvisti, sociolozi, psiholozi...)

Popularan jer je: open-source/jednostavan za upotrebu/ima ogroman community/fleksibilan/ima veliki izbor paketa

Uvod u R programski jezik

Base R i paketi (packages) kao dodaci

Među najpopularnijima su:



Machine Learning packages: E1071, randomForest, RWeka, glmnet, lars etc.



VignetteBuilder knitr Encoding UTF-8 LazyData true RoxygenNote 6.0.1 NeedsCompilation no Author Hadley Wickham [aut, cre], RStudio [cph, fnd]

Repository CRAN

Maintainer Hadley Wickham <hadley@rstudio.com>

Pronađite pakete koji će vama biti korisni!

Uvod u R programski jezik

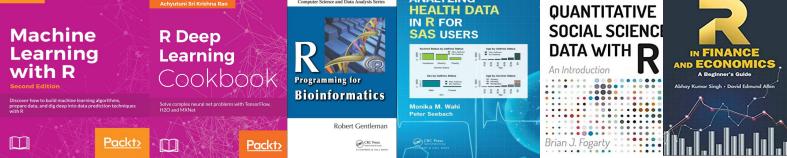
R vs R Studio





Šta sve R može?



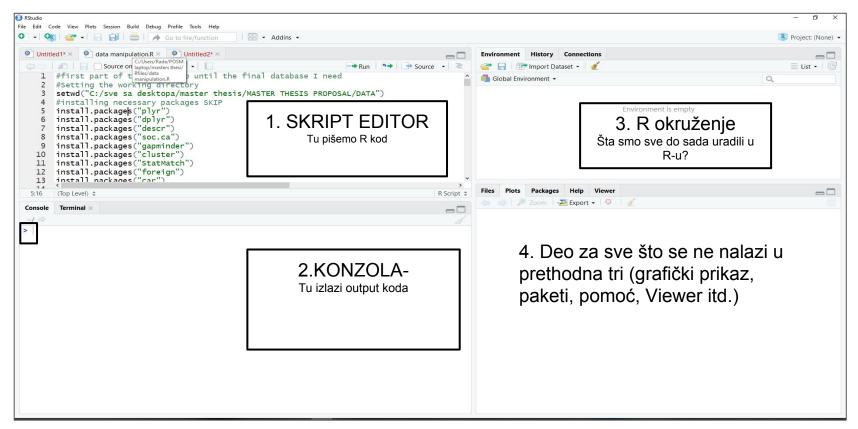


Da li ste svi instalirali R i RStudio?

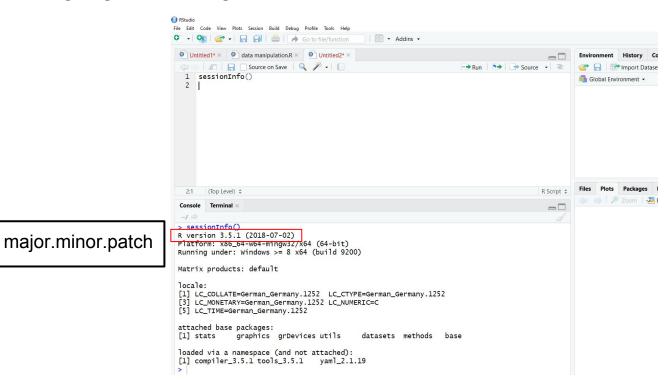
https://cran.r-project.org/

https://www.rstudio.com/products/rstudio/download/

Kako izgleda R Studio?



Koja je verzija R-a?



Strukture i tipovi podataka



R i statistička analiza podataka

I ostali materijal u R skripti na githubu: https://github.com/Radmila-R-lady

Manipulacija i vizuelizacija podataka

Manipulacija podacima.

Selektovanje podataka po različitim kriterijumima

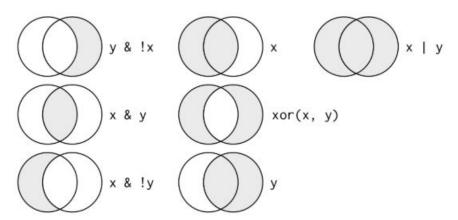


Figure 5.1: Complete set of boolean operations. x is the left-hand circle, y is the right-hand circle, and the shaded region show which parts each operator selects.

Kako nastaviti učenje (samostalno)? Korisni linkovi

Mike Marin youtube videos

https://www.youtube.com/watch?v=riONFzJdXcs&list=PLqzoL9-eJTNBDdKqJqJzaQcY6OXmsXAHU

Quick-R: https://www.statmethods.net/r-tutorial/index.html

https://www.rstudio.com

Stackoverflow:

https://stackoverflow.com/guestions/1744861/how-to-learn-r-as-a-programming-language

R Bloggers

https://www.r-bloggers.com/the-5-most-effective-ways-to-learn-r/

Medium: https://blog.exploratory.io/filter-data-with-dplyr-76cf5f1a258e

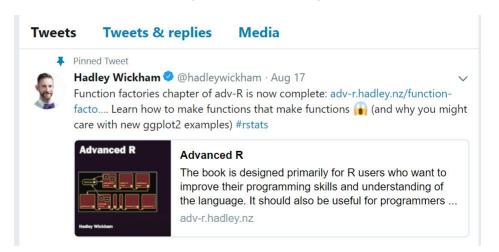
ili jednostavno ukucajte R programming

R na društvenim mrežama

Twitter: https://twitter.com/dataandme (Mara Averick)

https://twitter.com/hadleywickham (Hadley Wickam)

https://twitter.com/RLadiesBelgrade (RLadies Belgrade)









For all R-Ladies who want to be part of SatRday Belgrade there's a special promo code "I_AM_R_LADY" that gives 20% discount. bit.ly/2M0ELdp @RLadiesBelgrade @RLadiesRemote @RLadiesGlobal

9:30 AM - 5 Sep 2018

Kako nastaviti učenje (samostalno)? Korisna literatura

Michael Crawley: The R book

ftp.tuebingen.mpg.de/pub/kyb/bresciani/Crawley%20-%20The%20R%20Book.pdf

Paul Teetor, R Cookbook

http://www.bagualu.net/wordpress/wp-content/uploads/2015/10/R Cookbook.pdf

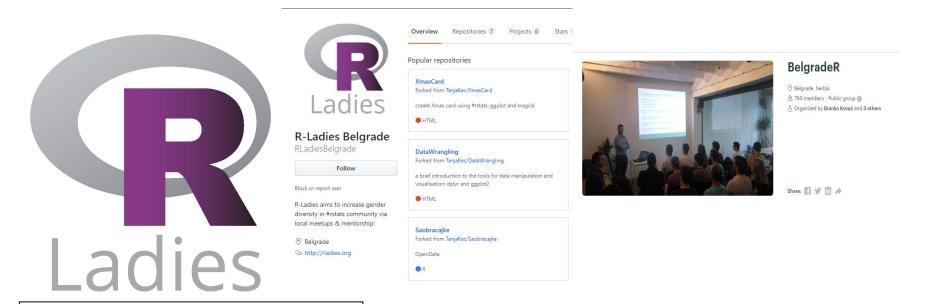
Hadley Wickam: R for Data Science

http://r4ds.had.co.nz/

Robert Cabacoff: R in Action

https://www.manning.com/books/r-in-action

R Ladies i ostali R igrači na srpskoj sceni



https://twitter.com/RLadiesBelgrade

Events:

EB EB

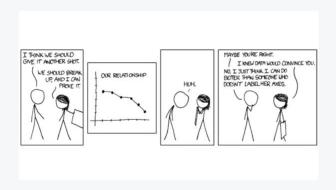
Wednesday, February 20, 2019

Regresiona analiza, GPS podaci i planovi za dalje



Hosted by Tatjana Kecojevic Derbyshire and 2 others From R-Ladies Belgrade Public group 🚳 You're going 13 people going



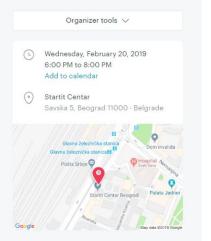


Details

Drage R žene,

Nakon male zimske pauze i hibernacije, vraćamo se u akciju.

Ove nedelje će nam Radmila pričati o višestrukoj regresionoj analizi, a Katarina pokazati kako da vizualizujete GPS podatke i koristite API sa Google Maps platforme. Dodatno, imamo nekoliko vesti za naredni period!



Pitanja i odgovori

