Basic Introduction to



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Course administration

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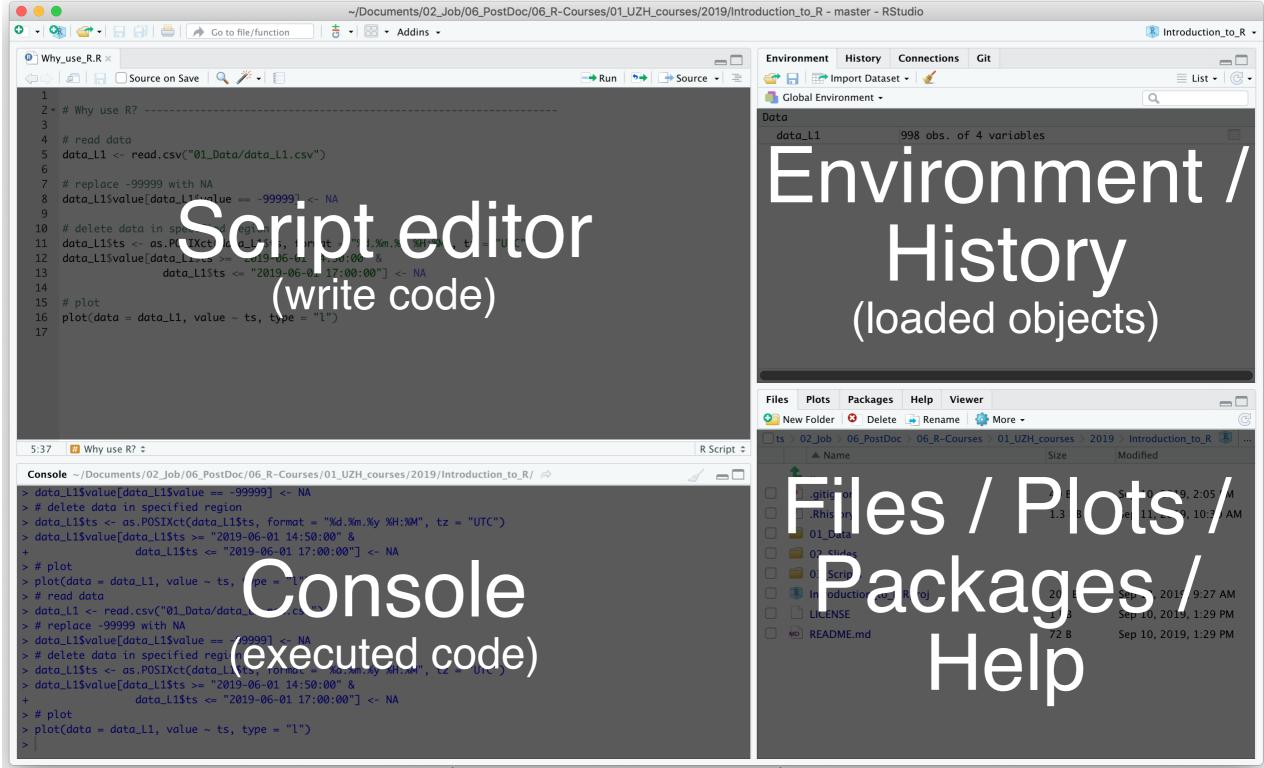
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Goals

- Start to code
- Learn how to use R for the analysis of your data
- Know where and how to get help if you are stuck

RStudio





Exercises

- Exercises are in the 05_Exercises folder of the course material
- Exercises are on the first page(s), hints to possible solutions are on the last page
- Let me know when you reach "For those who have time left…" in the chat
- Feel free to ask questions in the chat
- Write down the shortcuts for special characters (for MAC see 02_Slides_tutorials folder)

Shortcuts

	Mac	Windows / Linux
Run line	Cmd + Enter	Ctrl + Enter
# Comment line	Alt + 3	
[] Square brackets	Alt + 5 / Alt + 6	
{} Curly brackets	Alt + 8 / Alt + 9	
OR operator	Alt + 7	
~ Tilde	Alt + N	
Show RStudio shortcuts	Alt + Shift + K	Option + Shift + K

Capabilities of R

- Nice graphs
 https://www.r-graph-gallery.com/violin_and_boxplot_ggplot2.html
 https://www.data-to-viz.com/
- Maps with R <u>https://www.r-graph-gallery.com/choropleth-map.html</u>
- Interactive web applications (R Shiny)
 https://shiny.rstudio.com/gallery/movie-explorer.html
- R and databases
 https://db.rstudio.com/getting-started/connect-to-database

Where to get help

- Websites
 - RStudio Cheat Sheets <u>https://www.rstudio.com/resources/cheatsheets/</u>
 - Google
 e.g. "r how to merge two data frames"
 - https://stackoverflow.com/
 - https://www.r-bloggers.com/
- Online book
 - R for Data Science <u>https://r4ds.had.co.nz/</u>

...more help

- Other R courses
 - R: tidyverse for data science (UZH)
 https://app.connect.uzh.ch/apps/id/kurse.nsf/veranstaltungen.xsp
 - Specialised R-Workshops (2 days, 1ECTS for PhD students, Plant Science Center)
 https://www.plantsciences.uzh.ch/en/teaching/phdplantscience/ coursecatalogue.html
 - Zurich R Courses
 https://www.zhrcourses.uzh.ch/en.html
 - Specialised R-Workshops (1 day intensive course, small groups) https://ethz.ch/services/de/it-services/katalog/support-weiterbildung/it-training/kurse.html

Feedback

You will receive an email tomorrow with a link to a feedback form.

You can already start to fill in the form now: https://www.zi.uzh.ch/en/teaching-and-research.html

IT Training > Course Program > Data Science >

R: Basic Introduction (in the first row of Data Science) > Feedback form at bottom of page

I am happy about personal feedback as well:)

Course certificate

Write an email to <u>kurssekretariat@id.uzh.ch</u> to get the course certificate.

Sources

For the development of this course I was mainly inspired by the course material of Jan Wunders R course

Introdution to R (Wunder, 2016)