

Week 1 Introduction to R, Rstudio and RMarkdown

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R and Rstudio

Course Objectives:

1. Produce reproducible research using R Markdown using relative paths
2. Write basic R programs using control and data structures
3. Use ggplot2 to visualize and understand both categorical and quantitative data
4. Perform analysis on datasets using dplyr verbs select, mutate, filter, arrange, group_by and summarize
5. Import data from csv files into R using readr

Distinguish a tidy dataset from one that is not tidy. Use tidyr to make datasets tidy.

Combine datasets using dplyr verbs for data joining

Use regular expressions and stringr to manipulate character strings

Reset levels of factor variables

Communicate results of your data analysis

Learn Objectives

1. install and configure R and Rstudio
2. Use built-in R functions to creat objectives, access help documentation, and install packages
3. Identify the structure of an Rmarkdown document
4. Create an Rmarkdown document with code chunks
5. Knit an Rmarkdown document to HTML, Word and PDF

推荐R学习社区:

Stackoverflow

github

数据集网站:

Kaggle

government datasets

本课程安装:

1.R

2.Rstudio

3.tidyverse包 tidyverse_update()自动更新tidyverse包

4.数据集: nycflights13, gapminder, Lahman