



HELLO AND
WELCOME

INTRODUCE
YOURSELF
PLEASE



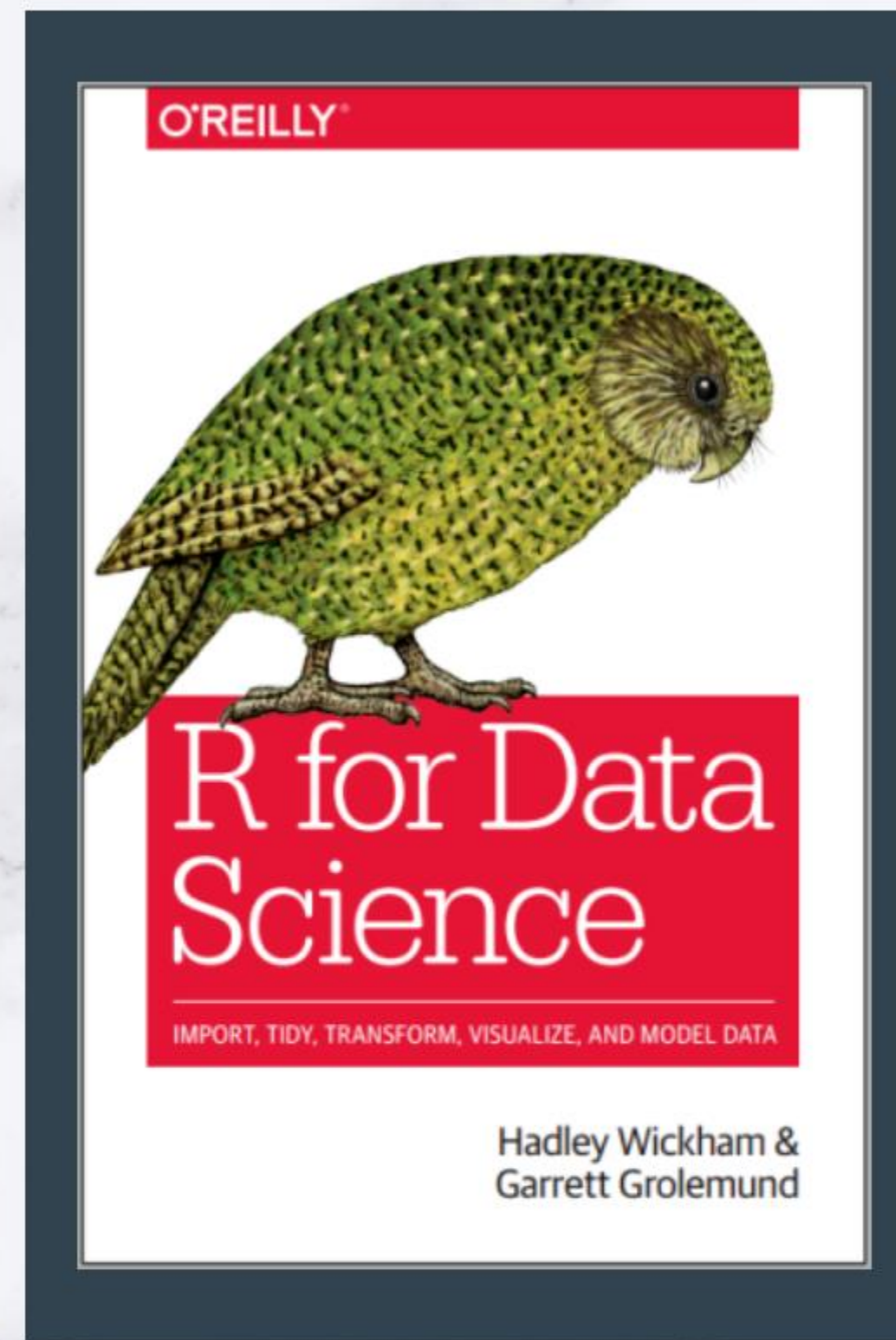


every month online on zoom

BOOK CLUB

زمان جلسه اول کلاب
پنج شنبه 6 آبان
11:00 AM

این کتاب یکی از مطرح ترین مراجع برای
علوم داده است، که آموزش آن در هشت
جلسه به صورت ماهیانه برگزار می شود
در بوک کلاب آن را با هم میخوانیم و
آموخته هایمان را مرور می کنیم
لطفا برای شرکت در جلسات کلاب در
صفحه ی میت آپ ما عضو شوید

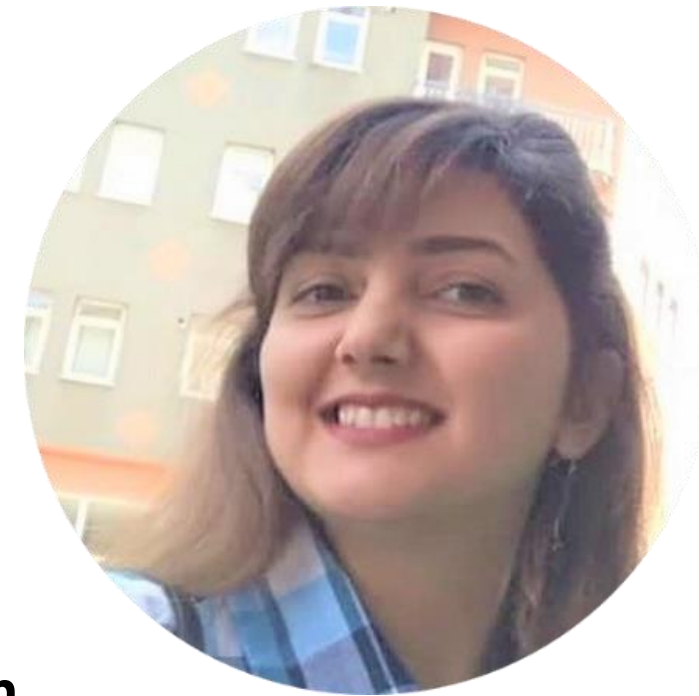


REGISTRATION:
[HTTPS://WWW.MEETUP.COM/RLADIES-URMIA/](https://www.meetup.com/RLadies-Urmia/)

RLADIES URMIA FOUNDERS



Nasrin Attar



Maryam Alizadeh



Why R?

**Open
Source**

**Advanced
Statistical
language**

**Outstanding
Graphs**

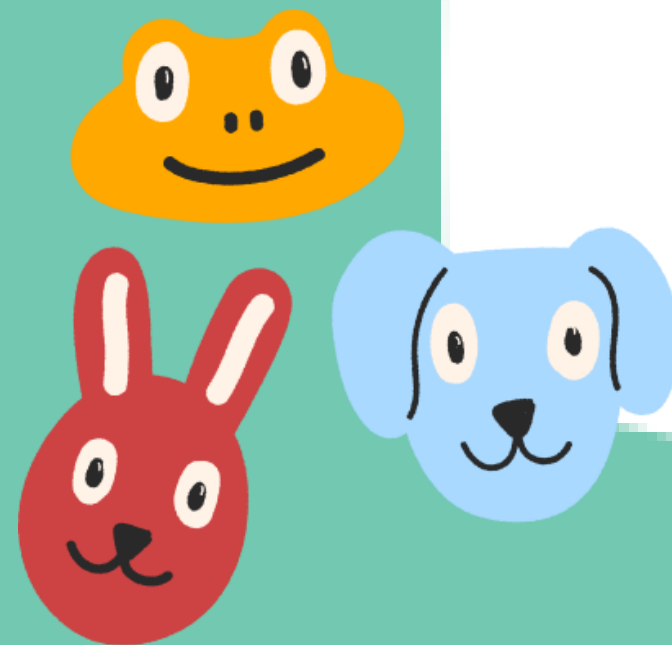
Flexible 'n' Fun

**Extremely
Comprehensive**

**Support
Extensions**

Vast Community

**Relates to other
languages**



Outline

1. Introduction of the book
2. Questions
3. Future meetings
 - Meeting times 📅 17
 - Future chapter presenters 🧑🏫

Part I. Explore

Part II. Wrangle

Part III. Program

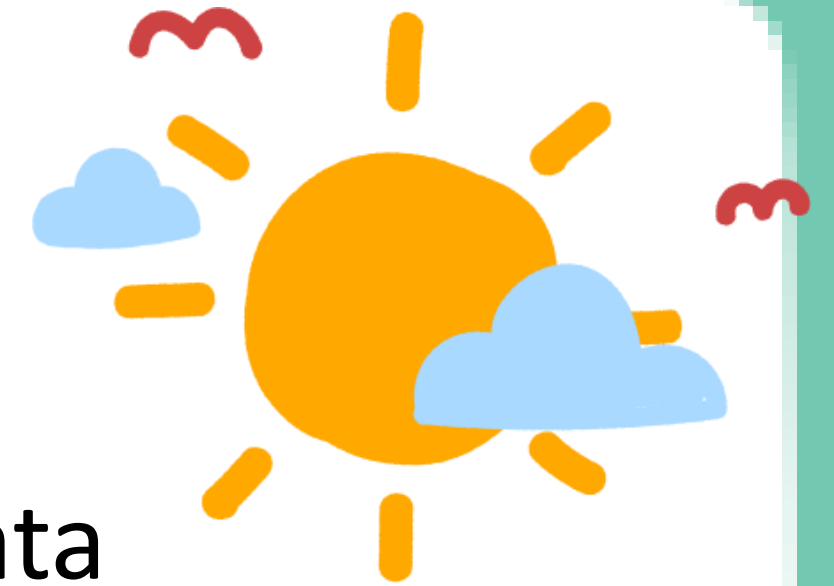
Part IV. Model

Part V. Communicate

You'll learn how to:

- **Wrangle**—transform your datasets into a form convenient for analysis
- **Program**—learn powerful R tools for solving data problems with greater clarity and ease
- **Explore**—examine your data, generate hypotheses, and quickly test them
- **Model**—provide a low-dimensional summary that captures true “signals” in your dataset
- **Communicate**—learn R Markdown for integrating prose, code, and results

BOOK ORGANIZATION



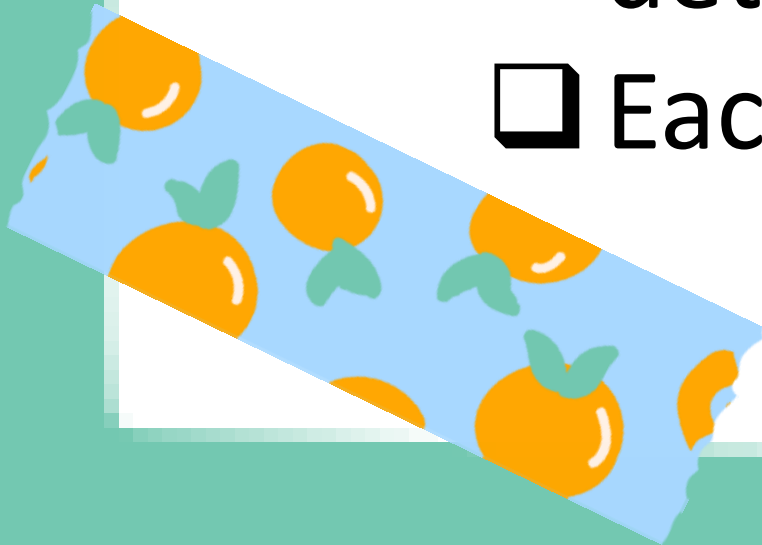
1-Visualisation and transformation of tidied data

2-How models work

3-Programming tools

- ☐ Start with some motivating examples so you can see the bigger picture, and then dive into the details

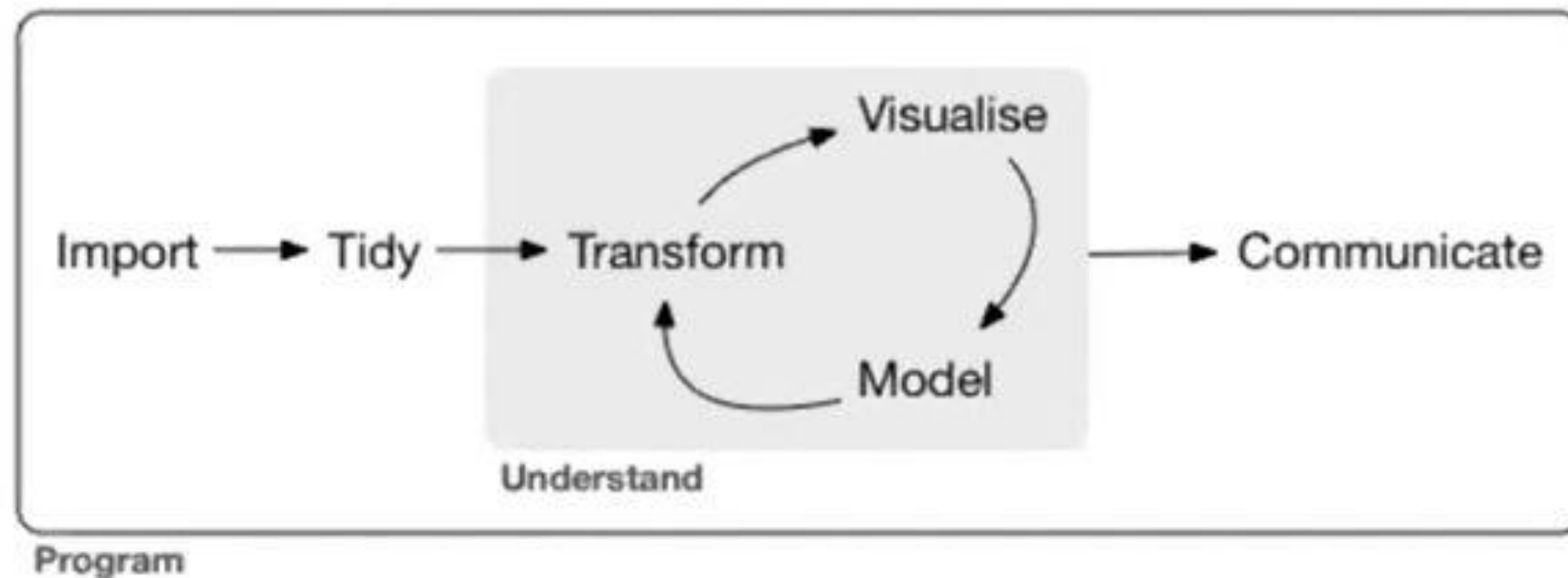
- ☐ Each section of the book is paired with exercises



What you will learn



The goal of this book is to give you a solid foundation in the most important tools.

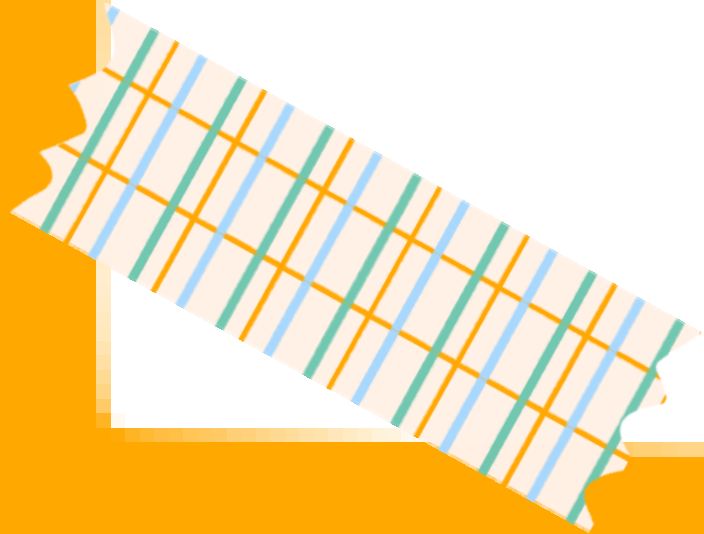


knowledge
generation:
visualisation
and
modelling

tidying and transforming are called **wrangling**

What you won't learn?

- Big data
- Python, Julia, and friends
- Non-rectangular data e.g., images, sounds, trees, and text
- Hypothesis confirmation



Prerequisites

پیش نیازها

- Some programming experience ¹
- There are four things you need to run the code in this book:
 - R. go to CRAN, the comprehensive R archive network
 - RStudio. An **IDE**, for R programming.
 - A collection of R packages called the tidyverse.

```
install.packages("tidyverse")  
library(tidyverse)
```

- Other packages. e.g.,

```
install.packages(c("nycflights13", "gapminder", "Lahman"))
```

[1] New to programming? see **Hands on Programming with R** by Garrett





Getting help and learning more

- Google

Typically adding “R”
Error messages

- Stackoverflow
- Rfordatascience online community
- RStudio blog
- Twitter

Hadley (@hadleywickham)
Garrett (@statgarrett)
@rstudiotips
#rstats

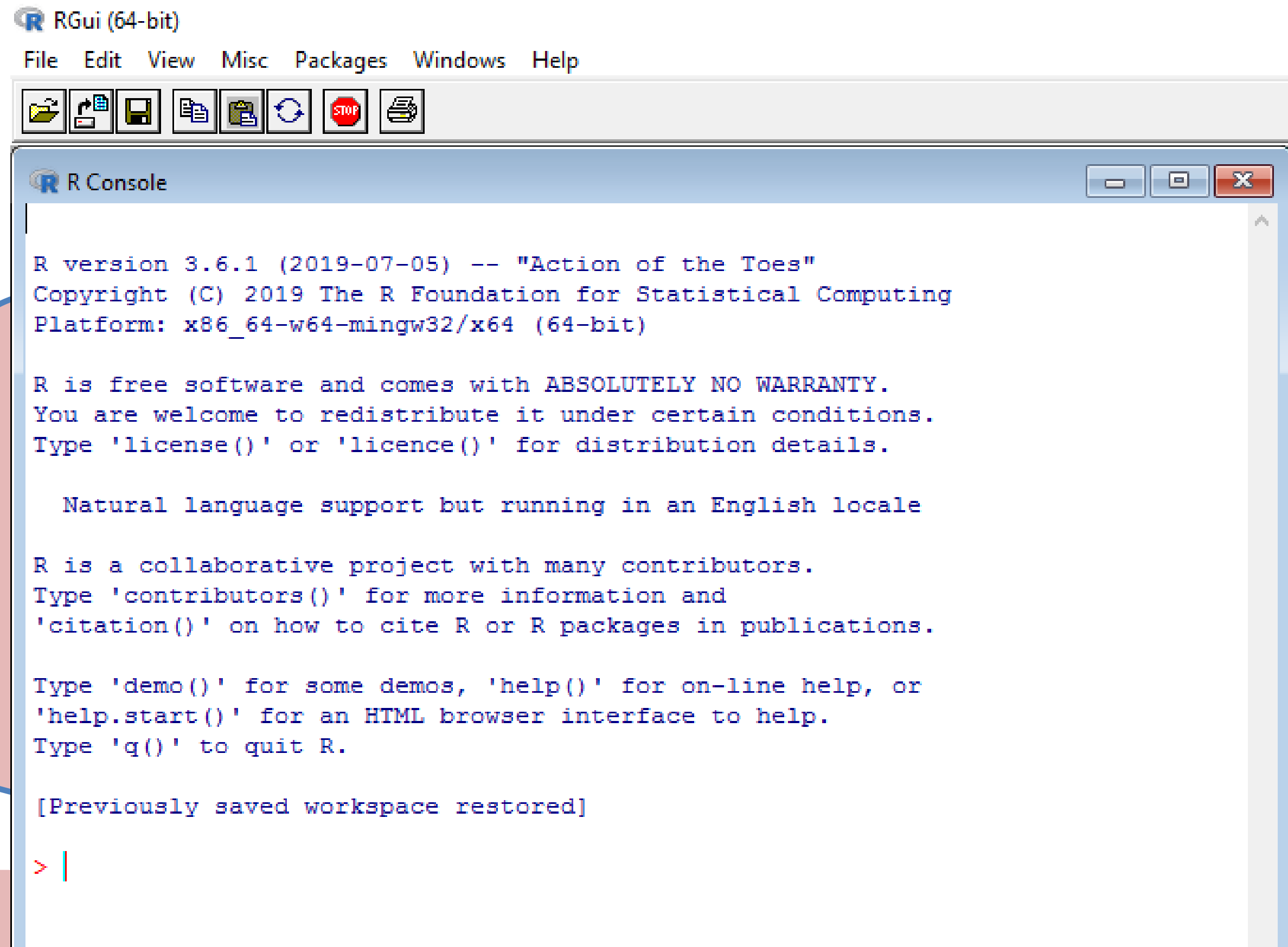
- <http://www.r-bloggers.com>



IMPORTANT SOURCES COMMUNITIES

- ✓ <https://www.r-bloggers.com/>
- ✓ <https://stackoverflow.com/questions/tagged/r>
- ✓ <https://community.rstudio.com/>
- ✓ <https://stats.stackexchange.com/questions/tagged/r>
- ✓ <https://stat.ethz.ch/mailman/listinfo/r-help>
- ✓ https://r-forge.r-project.org/forum/forum.php?forum_id=78&group_id=34
- ✓ <https://rviews.rstudio.com/>
- ✓ <https://r.789695.n4.nabble.com/>
- ✓ <https://rladies.org/>
- ✓ [!\[\]\(a22ba4e13c745edbf29e51af246c4c12_img.jpg\) #rstats](#)

R



The screenshot shows the RGui (64-bit) application window. The title bar reads "RGui (64-bit)". The menu bar includes "File", "Edit", "View", "Misc", "Packages", "Windows", and "Help". Below the menu bar is a toolbar with icons for file operations (Open, Save, Print, etc.) and a red stop button. The main window is titled "R Console" and contains the following text:

```
R version 3.6.1 (2019-07-05) -- "Action of the Toes"
Copyright (C) 2019 The R Foundation for Statistical Computing
Platform: x86_64-w64-mingw32/x64 (64-bit)

R is free software and comes with ABSOLUTELY NO WARRANTY.
You are welcome to redistribute it under certain conditions.
Type 'license()' or 'licence()' for distribution details.

    Natural language support but running in an English locale

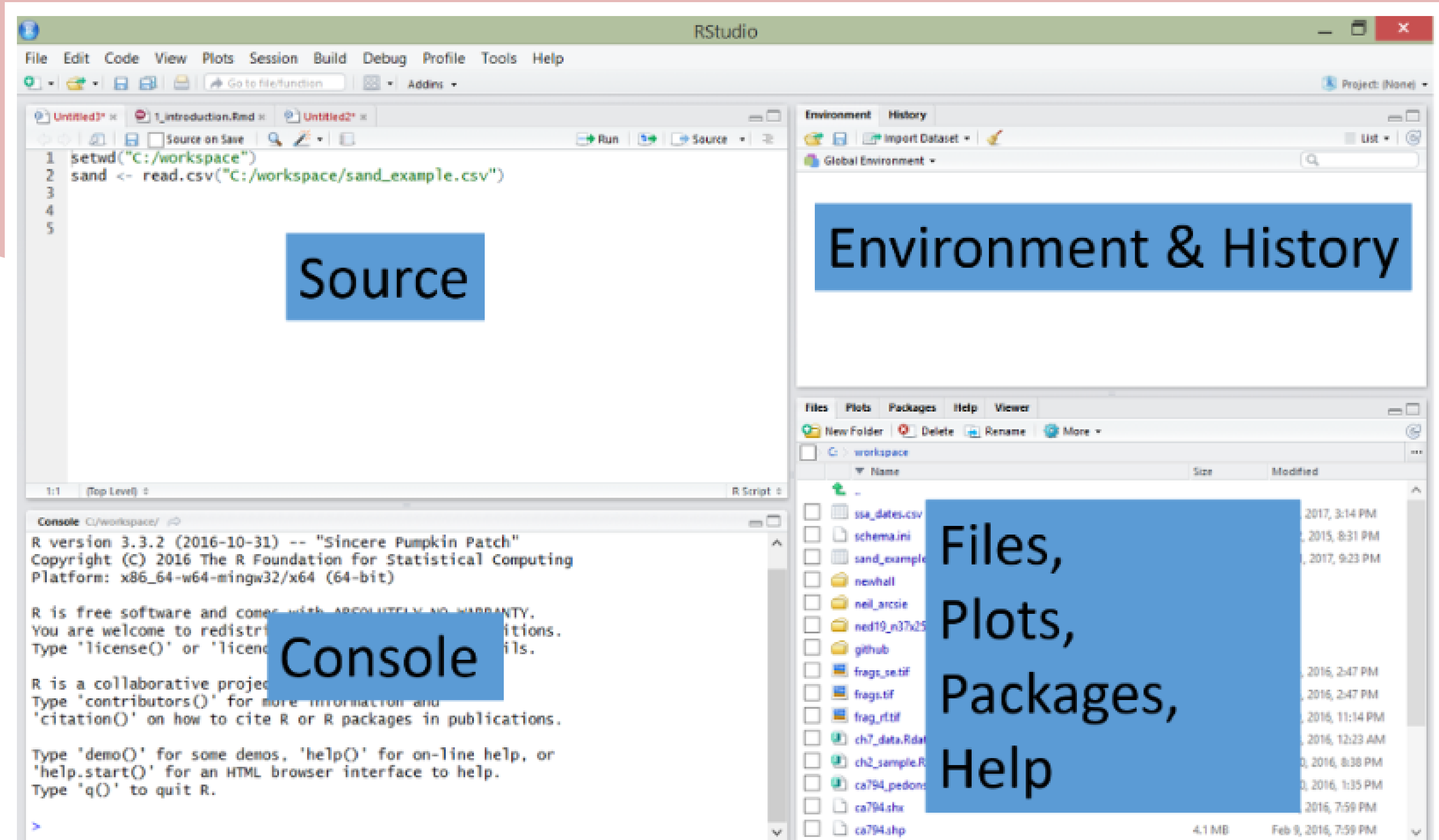
R is a collaborative project with many contributors.
Type 'contributors()' for more information and
'citation()' on how to cite R or R packages in publications.

Type 'demo()' for some demos, 'help()' for on-line help, or
'help.start()' for an HTML browser interface to help.
Type 'q()' to quit R.

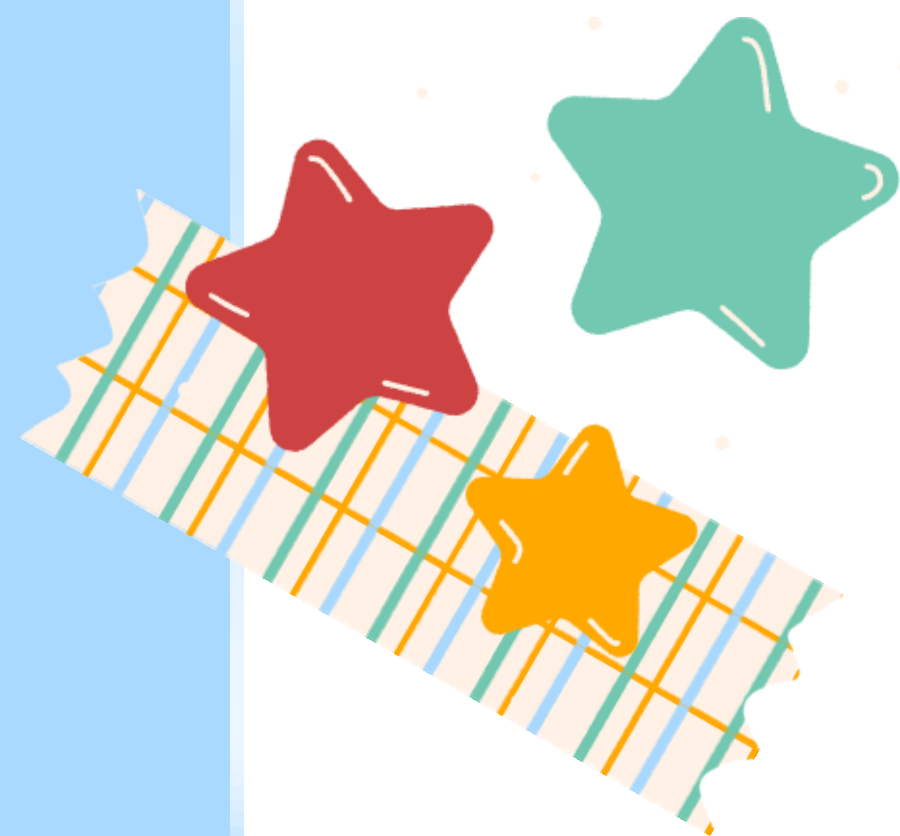
[Previously saved workspace restored]

> |
```

R studio



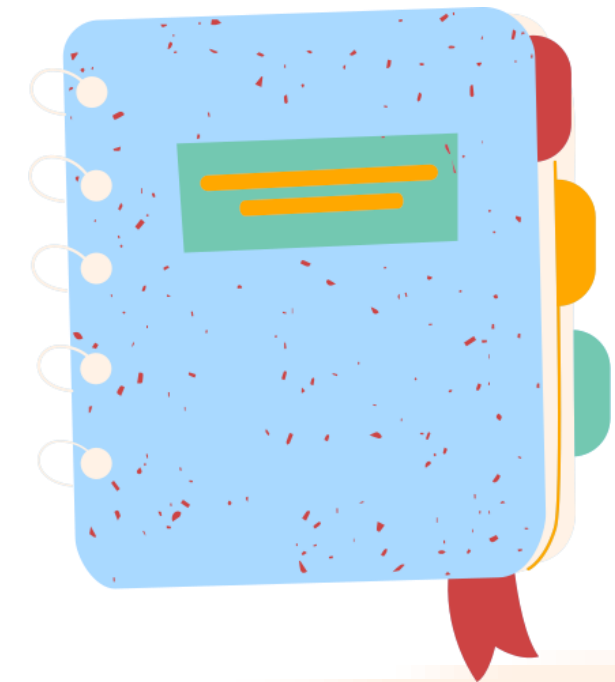
BOOK CLUB RULES





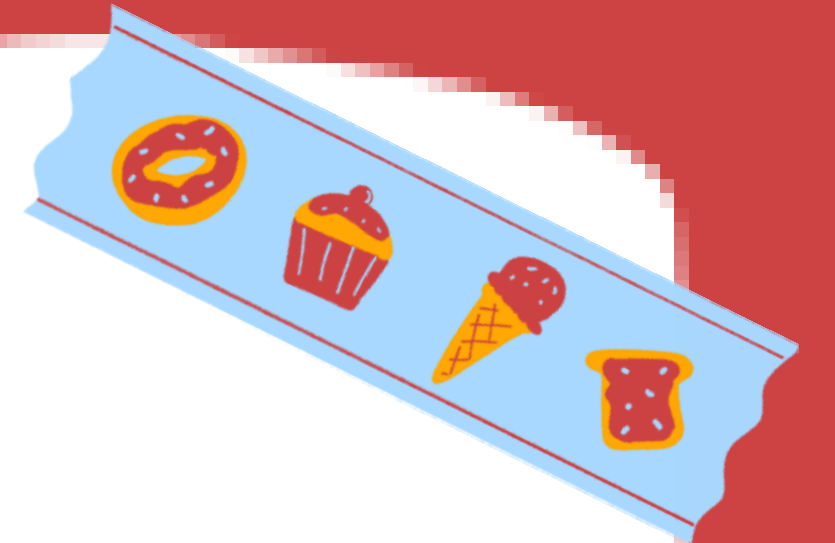
RULE NUMBER 1

Study before each session



RULE NUMBER 2

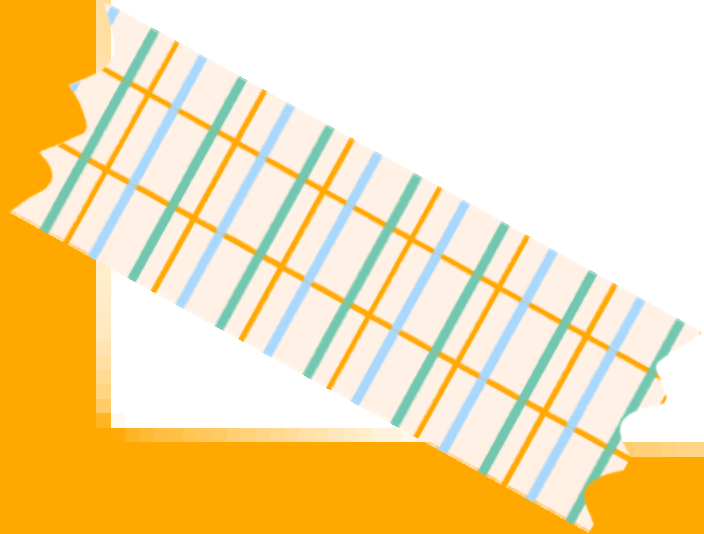
Do the exercises



RULE NUMBER 3

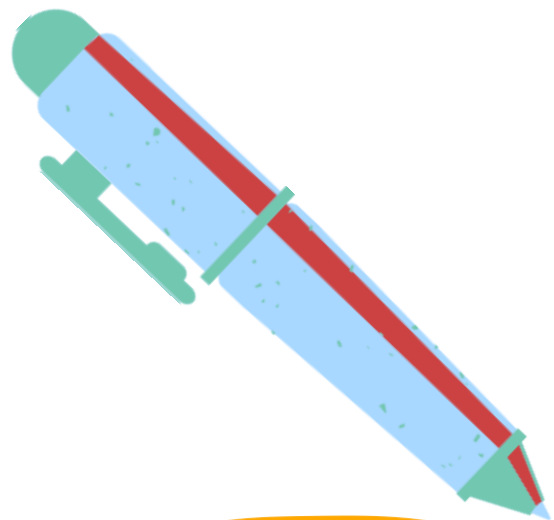


Plan for the sessions from now





جلسه	موضوع	Chapter	Date	تاریخ	ارائه دهنده
۱	Introductions to one another and to R & RStudio	Preface	28 October 2021	۶ آبان ۱۴۰۰	-
۲	Data Visualization	1,2	25 November 2021	۴ آذر ۱۴۰۰	-
۳	Data Transformation & Exploratory Data Analysis	3,4,5	23 December 2021	۲ دی ۱۴۰۰	نیازمند یک نفر داوطلب
۴	Data Importing, Tidying, and joining	6,7,8,9,10	27 January 2022	۷ بهمن ۱۴۰۰	-
۵	Dealing with Special Data Types	11,12,13	22 February 2022	۳ اسفند ۱۴۰۰	نیازمند یک نفر داوطلب
۶	Programming	14,15,16,17	March 2022	فروردین ۱۴۰۱	-
۷	Model	18,19,20	April 2022	اردیبهشت ۱۴۰۱	نیازمند یک نفر داوطلب
۸	Communicate	21,22,23,24	May 2022	خرداد ۱۴۰۱	-

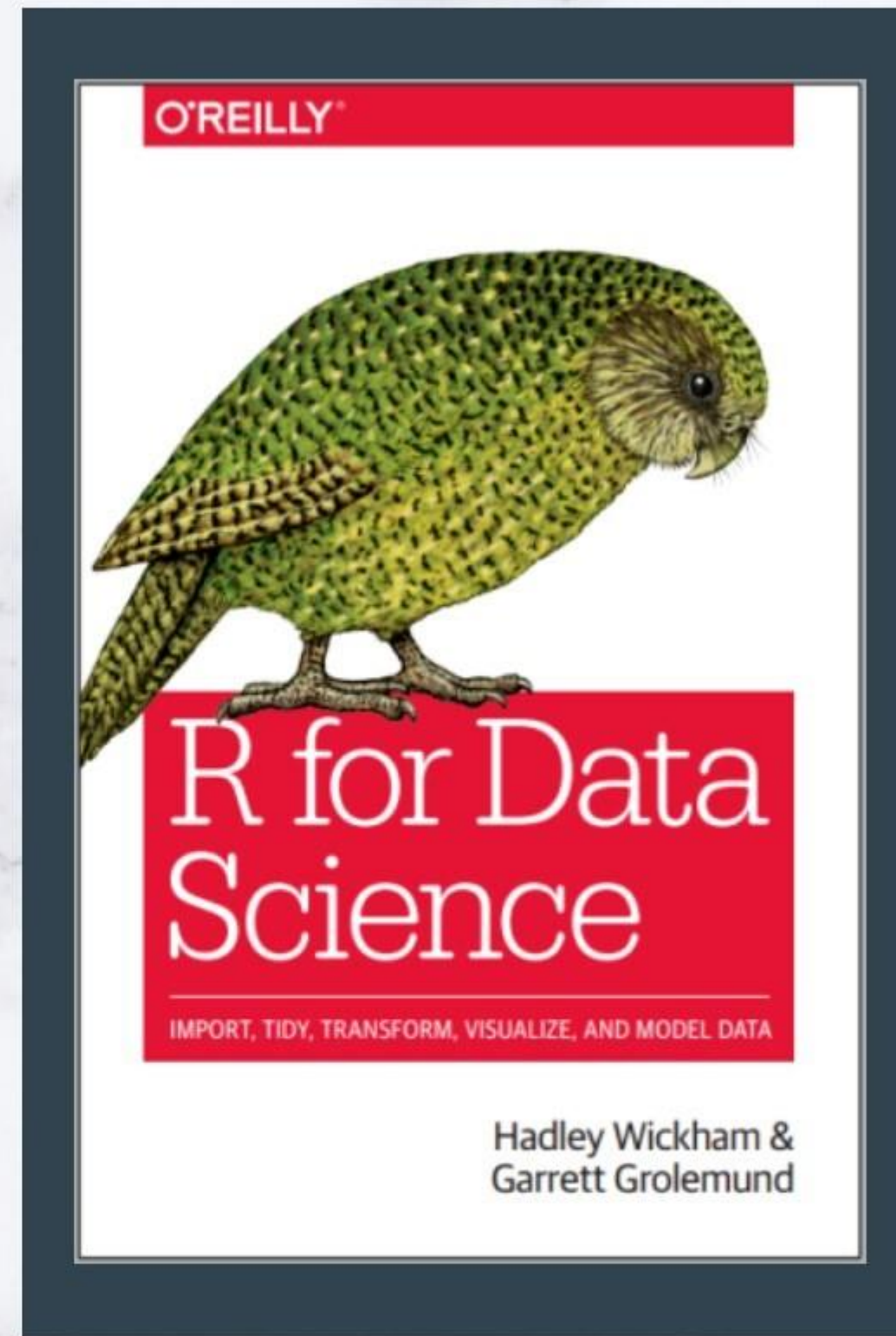


پنج شنبه اول هر ماه

این کتاب یکی از مطرح ترین مراجع برای علوم داده است، که آموزش آن در هشت جلسه به صورت ماهیانه برگزار می شود در بوک کلاب آن را با هم میخوانیم و آموخته هایمان را مرور می کنیم لطفا برای شرکت در جلسات کلاب در صفحه ی میت آپ ما عضو شوید

every month online on zoom

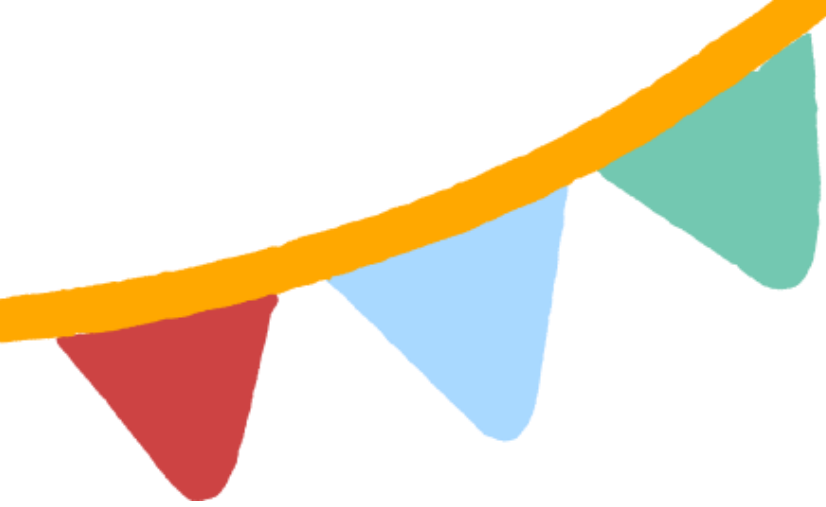
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TWITTER: @RladiesUrmia

MEETUP: <https://www.meetup.com/rladies-Urmia/>





THANK YOU FOR LISTENING!

Do you have any questions for me?

