

Participant preparation before the Short Course

Reshaping challenging data to produce insightful graphs - a quick start to using R tidyverse tools

5 April 2022

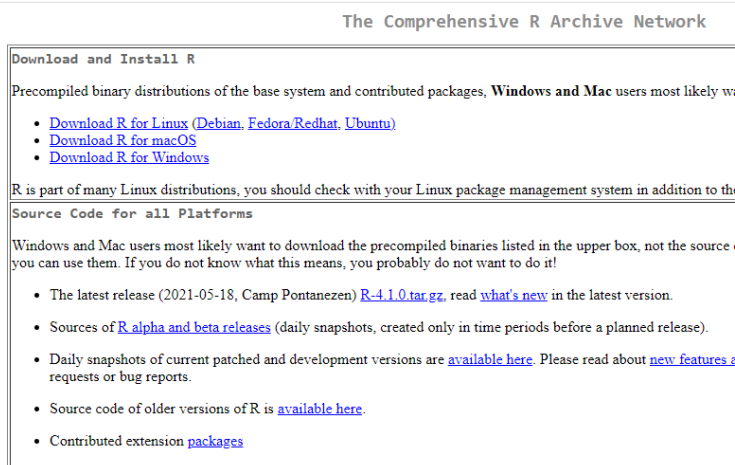
What to bring to the workshop?

- Curiosity and an interest in wrangling data to produce attractive data visualizations
- A computer with R, RStudio and relevant packages installed before the workshop (instructions below)
- Download the data sets that will be used in the workshop
 - <http://www.users.miamioh.edu/bailera/ShortCourse-Tidyverse/HNP-Subset-26may21.csv>
 - <http://www.users.miamioh.edu/bailera/ShortCourse-Tidyverse/country.csv>
- { if time permits } Please bring a data set that you would like to visualize. CSV format is best.


Software installation in preparation of the workshop:

Details for installing the packages – Video description of the following download and installation steps will be sent by ISI

1. Download and install R from <https://cloud.r-project.org/> (screen shot below)



2. Download and install RStudio Desktop (Open Source License) from <https://www.rstudio.com/products/rstudio/download/>




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DOWNLO

Download the RStudio IDE

Choose Your Version

The RStudio IDE is a set of integrated tools designed to help you be more productive with R and Python. It includes a console, syntax-highlighting editor that supports direct code execution, and a variety of robust tools for plotting, viewing history, debugging and managing your workspace.



RStu
data
RStu

Then select the 'Desktop' version for use


RStudio Desktop

Open Source License

Free

DOWNLOAD

[Learn more](#)

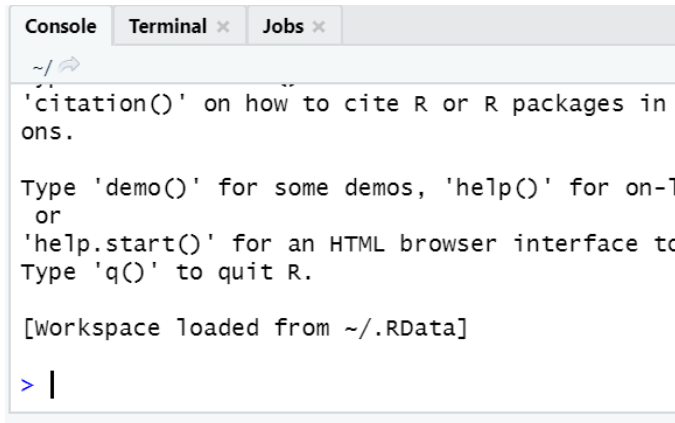


After the installation, launch RStudio.

3. Install packages for the course (done from within RStudio)

In the console window, you can paste the following two lines of code to do this

```
SCpackList <- c("tidyverse", "stringr", "lubridate", "maps",  
"countrycode")  
install.packages(SCpackList, dependencies=TRUE)
```



The screenshot shows the RStudio interface with the 'Console' tab selected. The console displays the R startup message, including instructions on how to cite R or R packages, how to get help, and how to quit R. It also shows the workspace loaded from ~/.RData. The prompt is currently '> |'.

```
~/  
'citation()' on how to cite R or R packages in  
ons.  
  
Type 'demo()' for some demos, 'help()' for on-l  
or  
'help.start()' for an HTML browser interface to  
Type 'q()' to quit R.  
  
[workspace loaded from ~/.RData]  
  
> |
```

4. { NEW } Other packages to install if you interested: plotly, patchwork

These instructions can be found at

<http://www.users.miamioh.edu/bailera/ShortCourse-Tidyverse/Tidyverse-ShortCourse-Participant-preparation.docx>

<http://www.users.miamioh.edu/bailera/ShortCourse-Tidyverse/Tidyverse-ShortCourse-Participant-preparation.pdf>