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
 - o http://www.users.miamioh.edu/baileraj/ShortCourse-Tidyverse/HNP-Subset-26may21.csv
 - http://www.users.miamioh.edu/baileraj/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)

Download and Install R

Precompiled binary distributions of the base system and contributed packages, Windows and Mac users most likely with the precompiled binary distributions of the base system and contributed packages, Windows and Mac users most likely with the process of the pownload R for Linux (Debian, Fedora/Redhat, Ubuntu)

Download R for Mindows

R is part of many Linux distributions, you should check with your Linux package management system in addition to the Source Code for all Platforms

Windows and Mac users most likely want to download the precompiled binaries listed in the upper box, not the source you can use them. If you do not know what this means, you probably do not want to do it!

The latest release (2021-05-18, Camp Pontanezen) R-4.1.0.tar.gz, read what's new in the latest version.

Sources of R alpha and beta releases (daily snapshots, created only in time periods before a planned release).

Daily snapshots of current patched and development versions are available here. Please read about new features a requests or bug reports.

Source code of older versions of R is available here.

Contributed extension packages

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



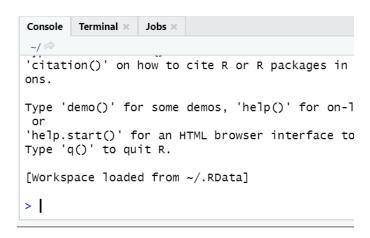
Then select the 'Desktop' version for use



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)</pre>
```



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

These instructions can be found at https://github.com/baileraj/Short-Course/find/main

- Tidyverse-ShortCourse-Participant preparation.docx
- Tidyverse-ShortCourse-Participant preparation.pdf