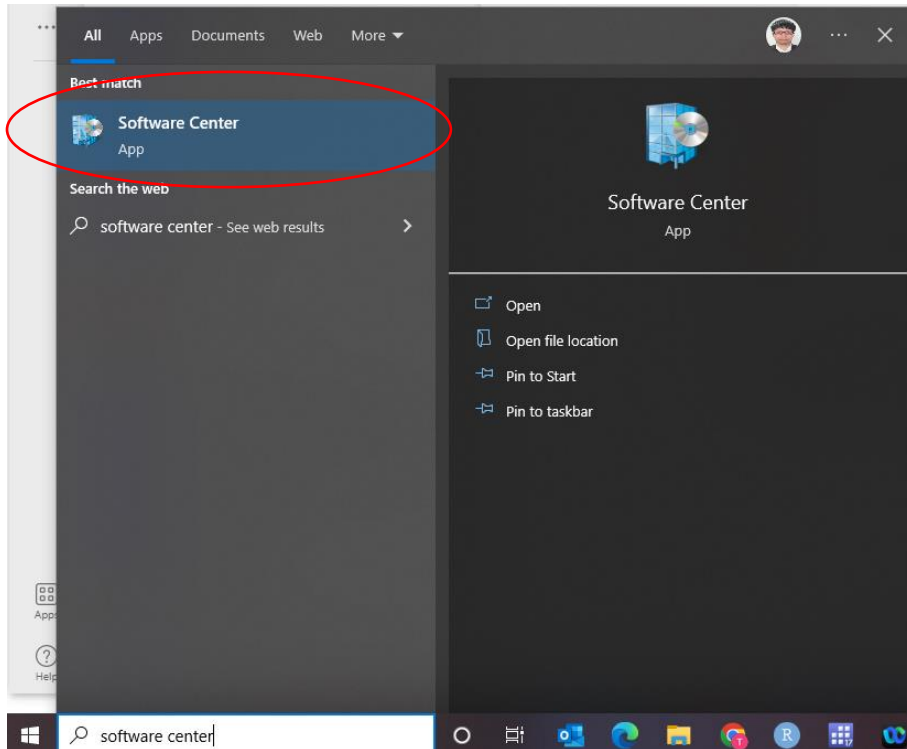


Installation Guide

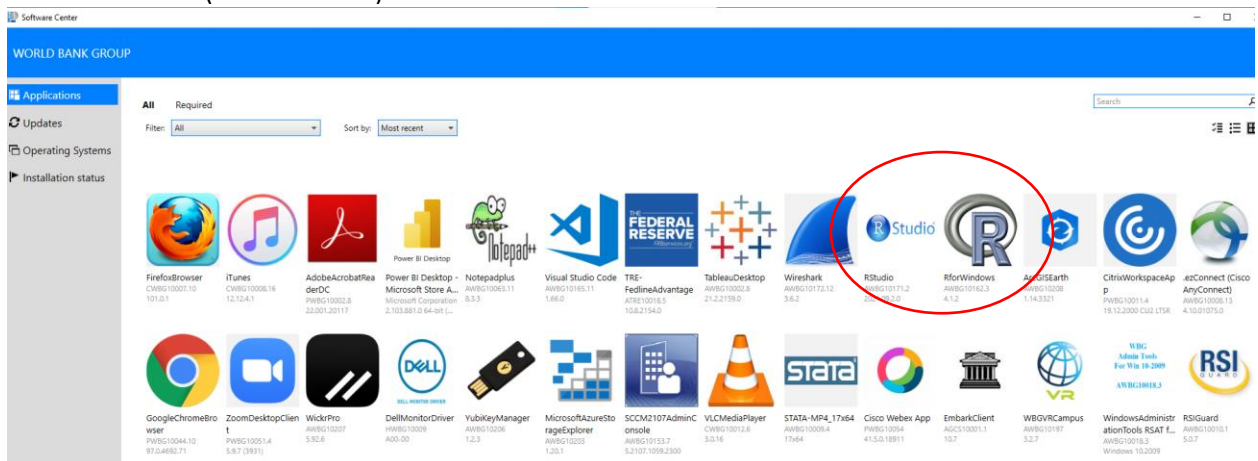
How to install R and RStudio

For Bank laptop users

- Go to Software Center



- Install R (RforWindows) and RStudio



For non-Bank computer users
R (4.1.2 or higher) and RStudio

R

R is freely available at <https://cran.r-project.org/bin/windows/base/> for Windows and <https://cran.r-project.org/bin/macosx/> for Mac.

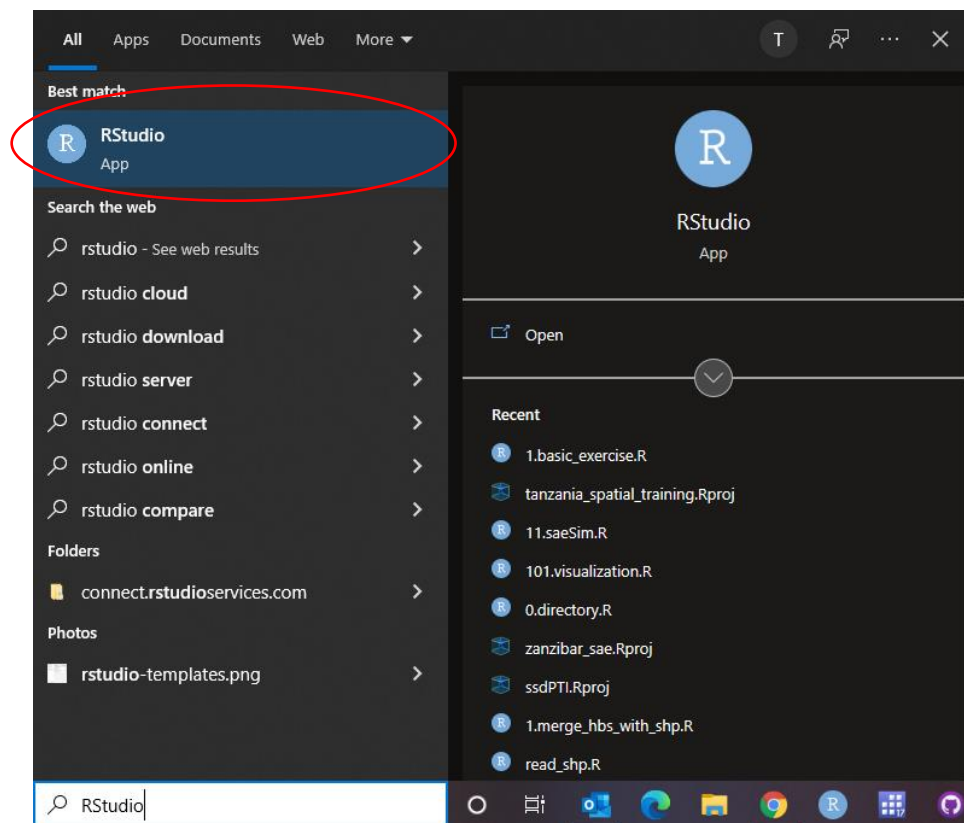
RStudio

RStudio is also freely available at <https://www.rstudio.com/products/rstudio/download/#download> for Windows and Mac.

Install Packages

Once you have R and RStudio installed, install packages that are used for the training. To install these packages, take the following steps:

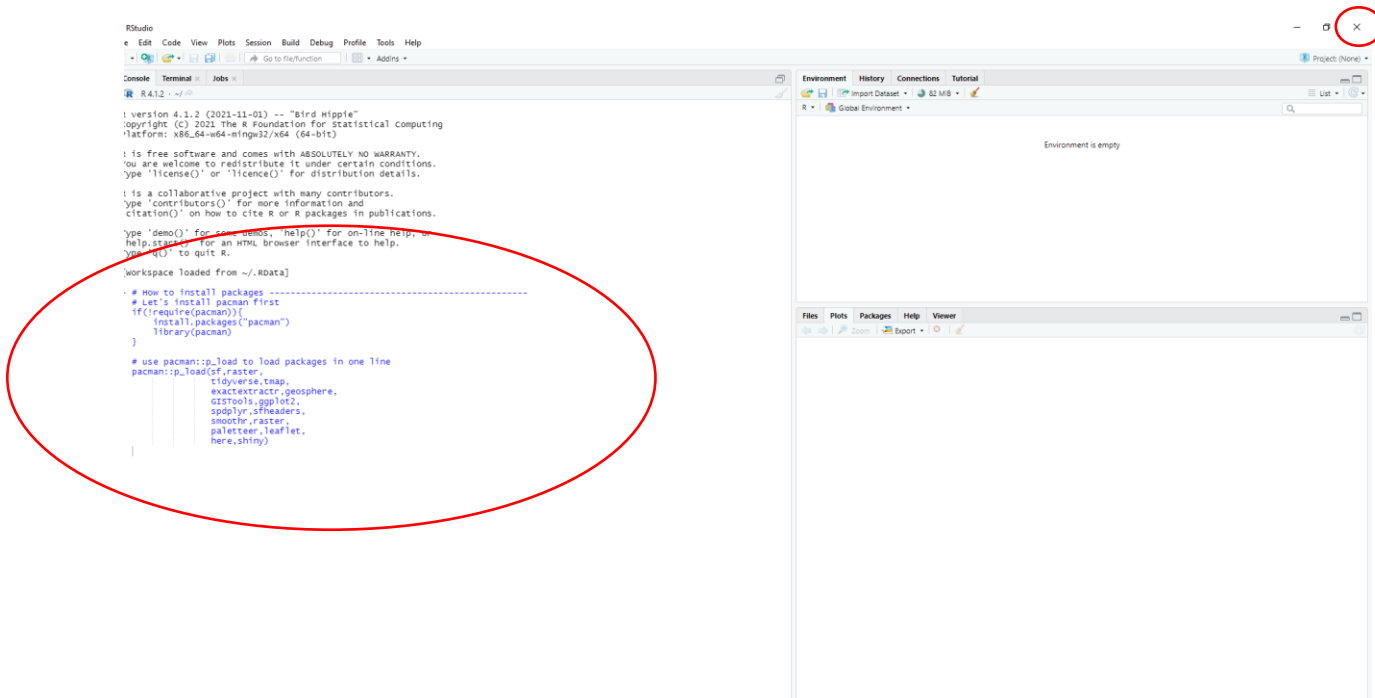
1) Open RStudio



2) Copy and paste the following scripts to the console in RStudio

```
# How to install packages -----
# Let's install pacman first
if(!require(pacman)){
  install.packages("pacman")
  library(pacman)
}

# use pacman::p_load to load packages in one line
pacman::p_load(sf,raster,
               tidyverse,tmap,
               exactextractr,geosphere,
               GISTools,ggplot2,
               spdpplr,sfheaders,
               smoothr,raster,
               paletteer,leaflet,
               here,shiny)
```



Then hit “Enter.” It will start downloading packages on your computer. Once downloads are complete, please go ahead to close your RStudio by clicking on x at the top right corner of the window. It will say “Save workspace image to ~/RData?”. You can just click on “Don’t Save.” That’s it!

