## Installing R and RCmdr in your system

This handout follows the instructions presented in the video: Installing R and R Commander. In order to follow the installation directions, you need to have access to the internet. Make sure you have access before getting started.

There are versions of R and R-commander for Windows 10, Mac and Linux systems. It is highly recommended that you run any updates in your system before you start the installation of R. This precaution will guarantee that your system has any upgrades it needs.

1. - Open your browser

I use Mozilla firefox, but any internet browser will do.
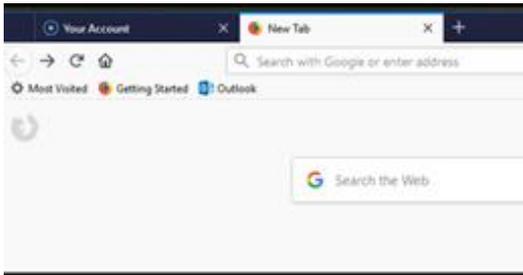
The easiest way to find the site is to try: "r statistical software" in your search engine (I use Google)
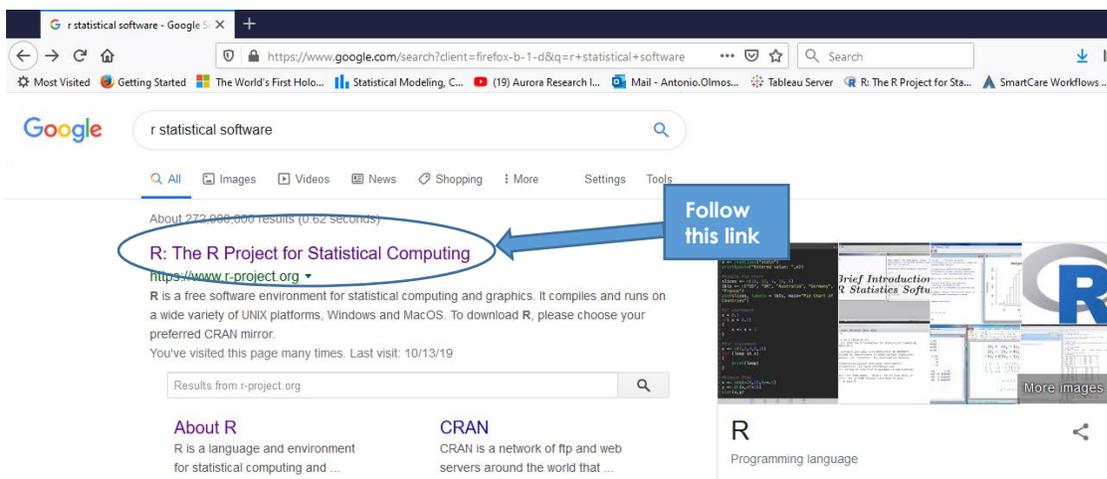
Usually the site we are trying to find will be the first hit ("The R project for Statistical computing"). Once found, go to the R statistical project website
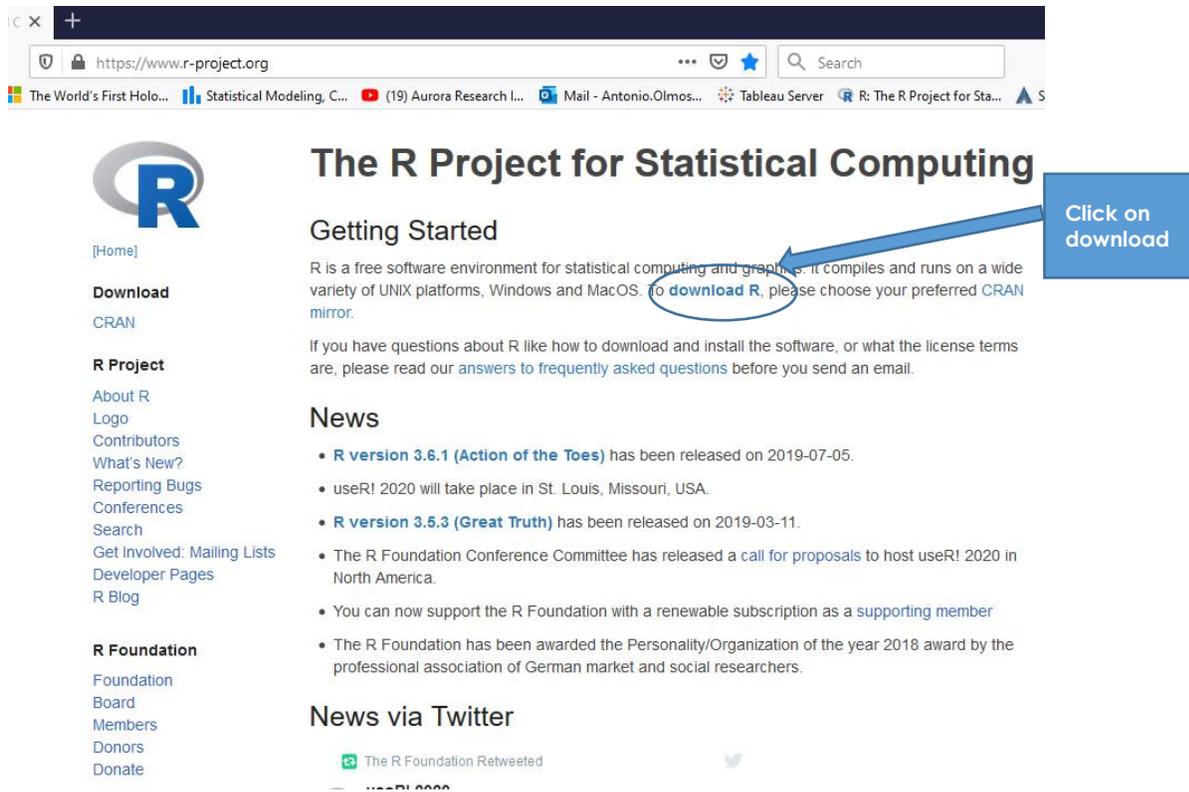
Notice that in this page, there is a link to download the program. Please click on that link. And a new page with more information will open. In this new page, click on one of the links (I tend to go with the top one, as you can see)
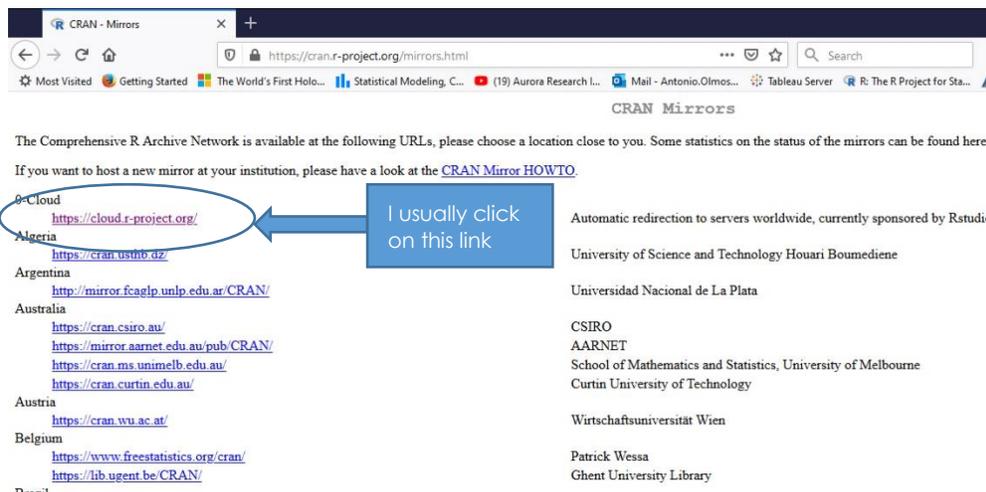
As stated earlier, there are several options: Windows, Mac, and Linux. Download what is appropriate for your system.
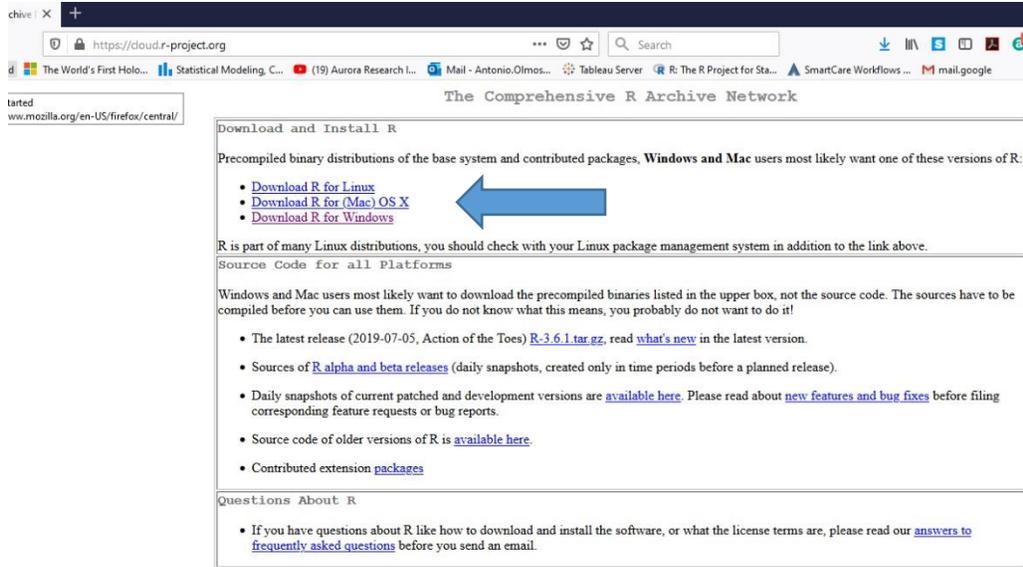
Chose "base" installation for the first time (I always select that option, even when I am doing an update to a newer version)
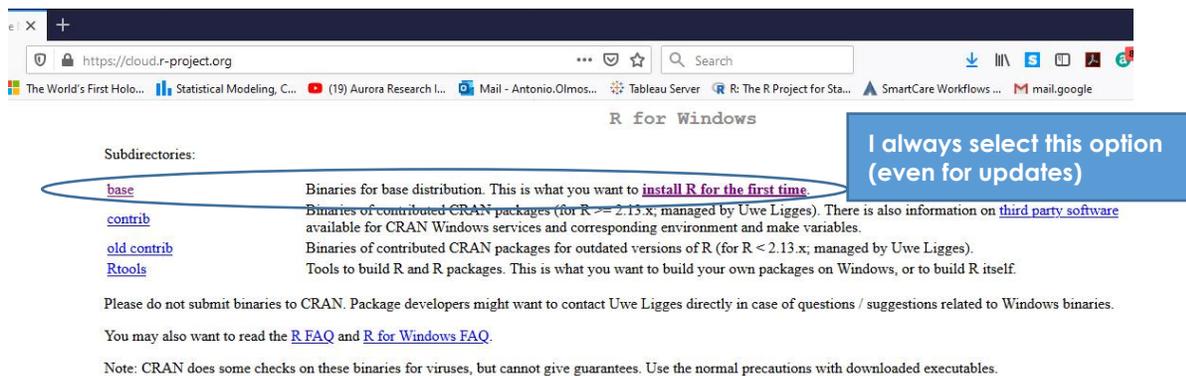
Accept and download. If everything is well, you'll see the following window (or something very similar):
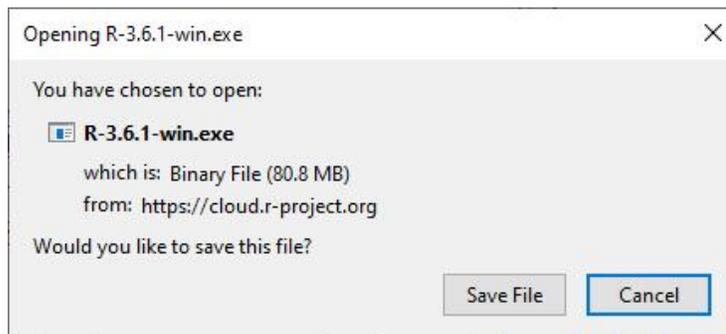
Save the file. You should find your file in your default download folder:
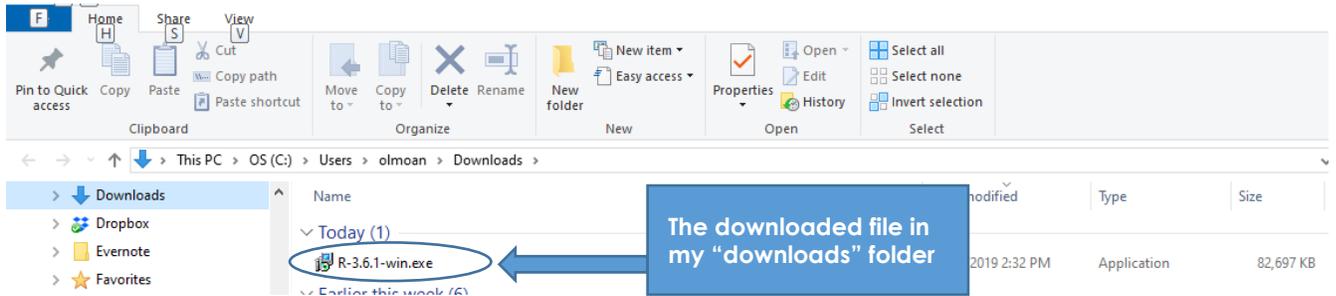
Start installation by double-clicking on the file. You get this screen:
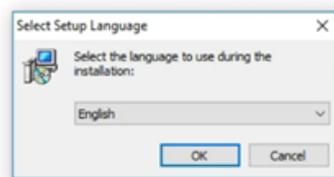
You can change the language used during the installation. Once the installation finishes, you will see this screen:
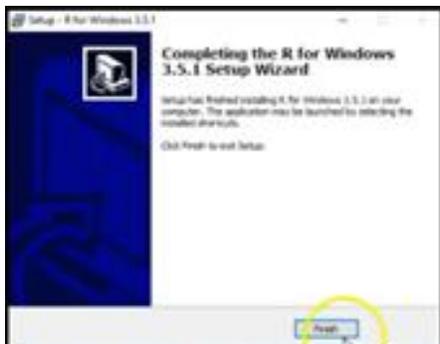
If you used all of the defaults, you should now have an icon like this in your desktop:

When you open the program by double-clicking on the icon, you get this screen:
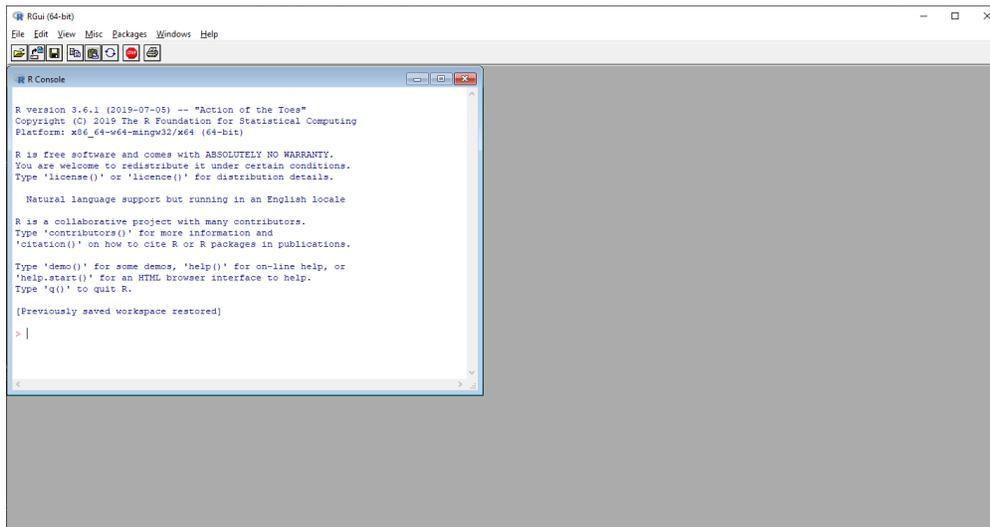
2. - R-commander (Rcmdr)

The first thing we are going to do to run R-commander is to install it. R-Commander is not part of the default installation. It needs to be installed. To install R-commander (or any other package), we click on packages, and install. We get the following screen

After we select a site for downloading packages (I usually go with the top one), we get a new screen with a list of all the packages we can install. Scroll down until you find "Rcmdr":

As you can see from the screenshot above, there are multiple packages that start with "Rcmdr". All of those packages are needed to run R-Commander, therefore we need to install them all. We select all of the packages that start with "Rcmdr", going all the way to "Rcmdr.Plugin.UCA" and hit Ok

We select all of these packages (everything starting with "Rcmdr"), and once all of them are selected, we hit OK

The packages will start loading. Dependent on the speed of your computer, this may take from a few seconds to a few minutes. When it ends, the screen will look like this:
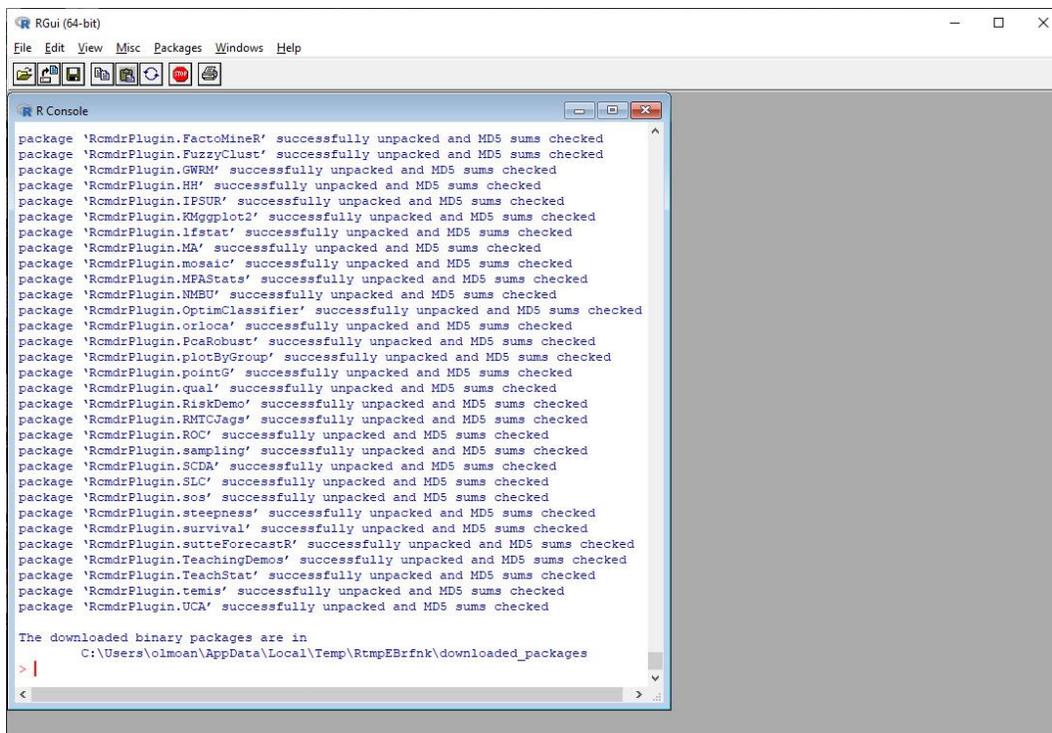
After all the packages are installed, type "library("Rcmdr") in the main console:

```
package 'RcmdrPlugin.steepness' successfully unpacked and MD5 sums checked
package 'RcmdrPlugin.survival' successfully unpacked and MD5 sums checked
package 'RcmdrPlugin.sutteForecastR' successfully unpacked and MD5 sums checked
package 'RcmdrPlugin.TeachingDemos' successfully unpacked and MD5 sums checked
package 'RcmdrPlugin.TeachStat' successfully unpacked and MD5 sums checked
package 'RcmdrPlugin.temis' successfully unpacked and MD5 sums checked
package 'RcmdrPlugin.UCA' successfully unpacked and MD5 sums checked

The downloaded binary packages are in
        C:\Users\olmoan\AppData\Local\Temp\RtmpEBrfnk\downloaded_pack
> library("Rcmdr")
```

Type:
library("Rcmdr")

If after you enter this command, you get some warning about needing to install further packages, just hit enter, and let the computer install whatever is missing. After it finishes you will get a screen that will look like this:

R Commander

File   Edit   Data   Statistics   Graphs   Models   Distributions   Tools   Help

Data set: <No active dataset>   Edit data set   View data set   Model: Σ <No active model>

R Script | R Markdown

Output   Submit

Messages

[2] WARNING: The Windows version of the R Commander works best under RGui with the single-document interface (SDI); see ?Commander.
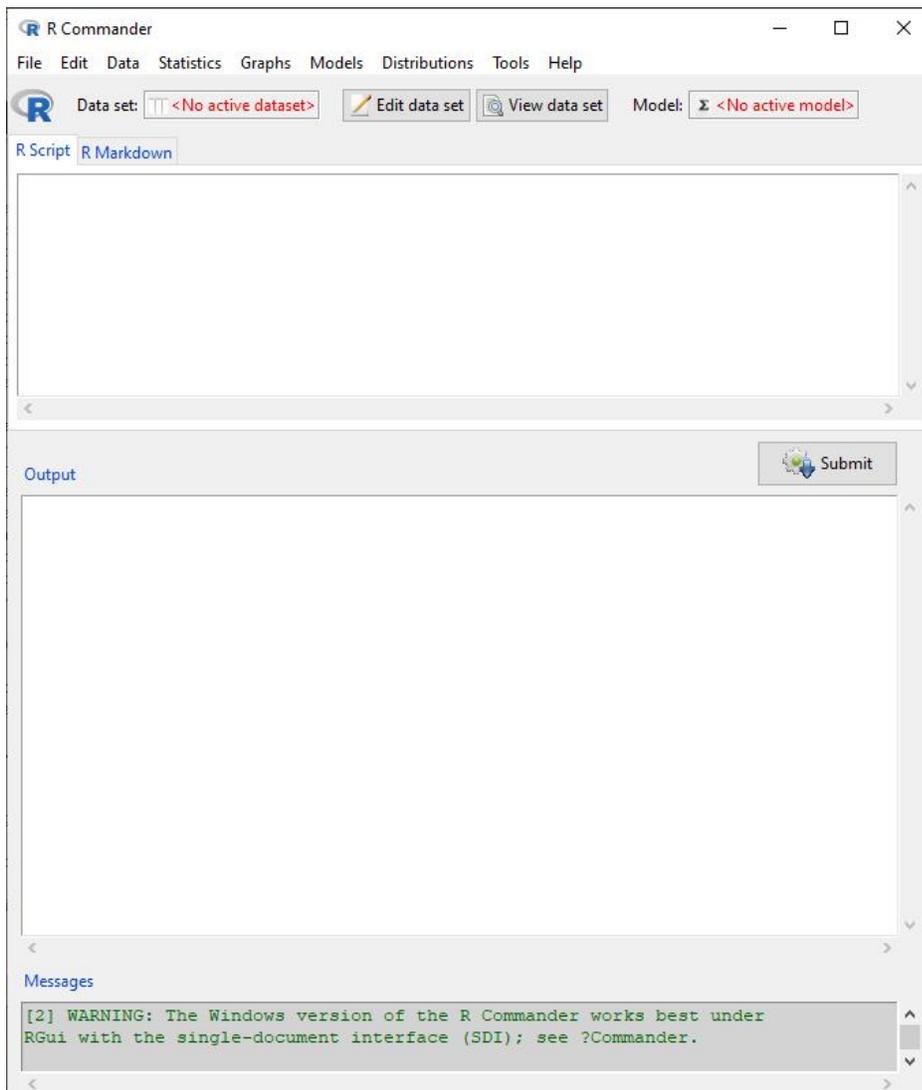
Notice that at the bottom, there is a warning:

Output

Messages

[2] WARNING: The Windows version of the R Commander works best under RGui with the single-document interface (SDI); see ?Commander.

Most likely, you will get this warning, if running R-commander from a windows system
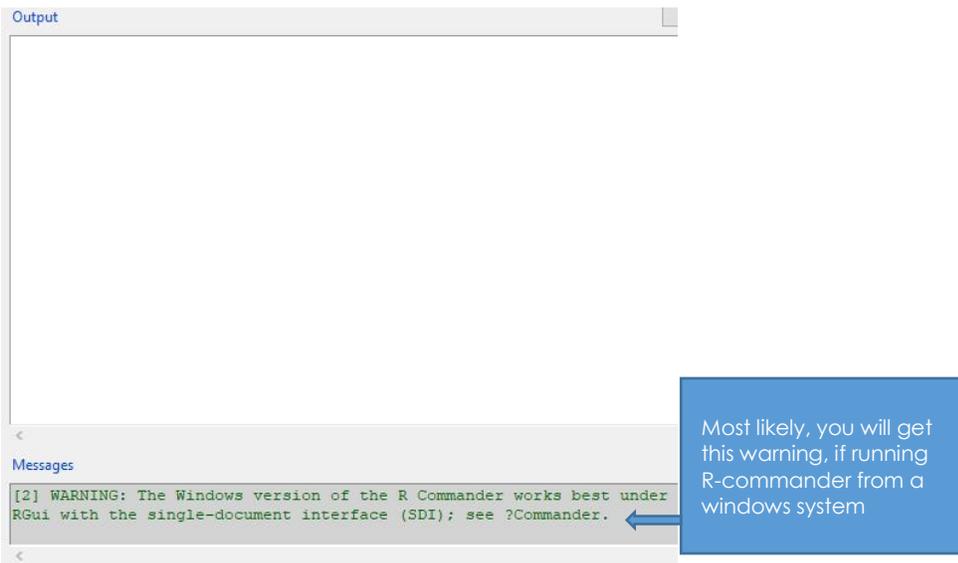
To remove this warning, you need to change the properties of the icon, so it runs in a different environment. The icon will have as "target" ""C:\Program Files\R\R-3.6.1\bin\x64\Rgui.exe" --cd-to-userdocs"

R x64 3.6.1 Properties   ×

| Security | Details | Previous Versions |
| General | Shortcut | Compatibility |

R x64 3.6.1

Target type: Application

Target location: x64

Target: es\R\R-3.6.1\bin\x64\Rgui.exe" --cd-to-userdocs

Start in: "C:\Program Files\R\R-3.6.1"

Shortcut key: None

Run: Normal window

Comment:

Open File Location   Change Icon...   Advanced...

OK   Cancel   Apply

Notice that after the double quotes it reads: --cd-to-userdocs
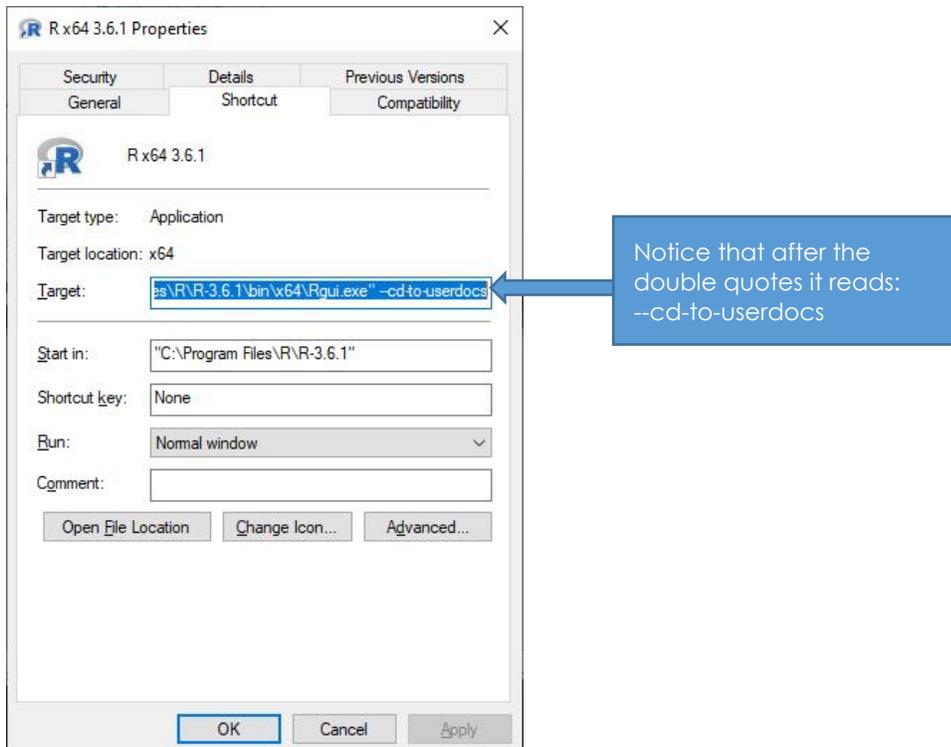
The best solution, is to create a new icon, and change the target. I named this new icon: "Rcmdr"

And I changed the Target in the properties to the following

"C:\Program Files\R\R-3.6.1\bin\x64\Rgui.exe" –sdi Please note that there are two dashes "-"-" before "sdi". See below:
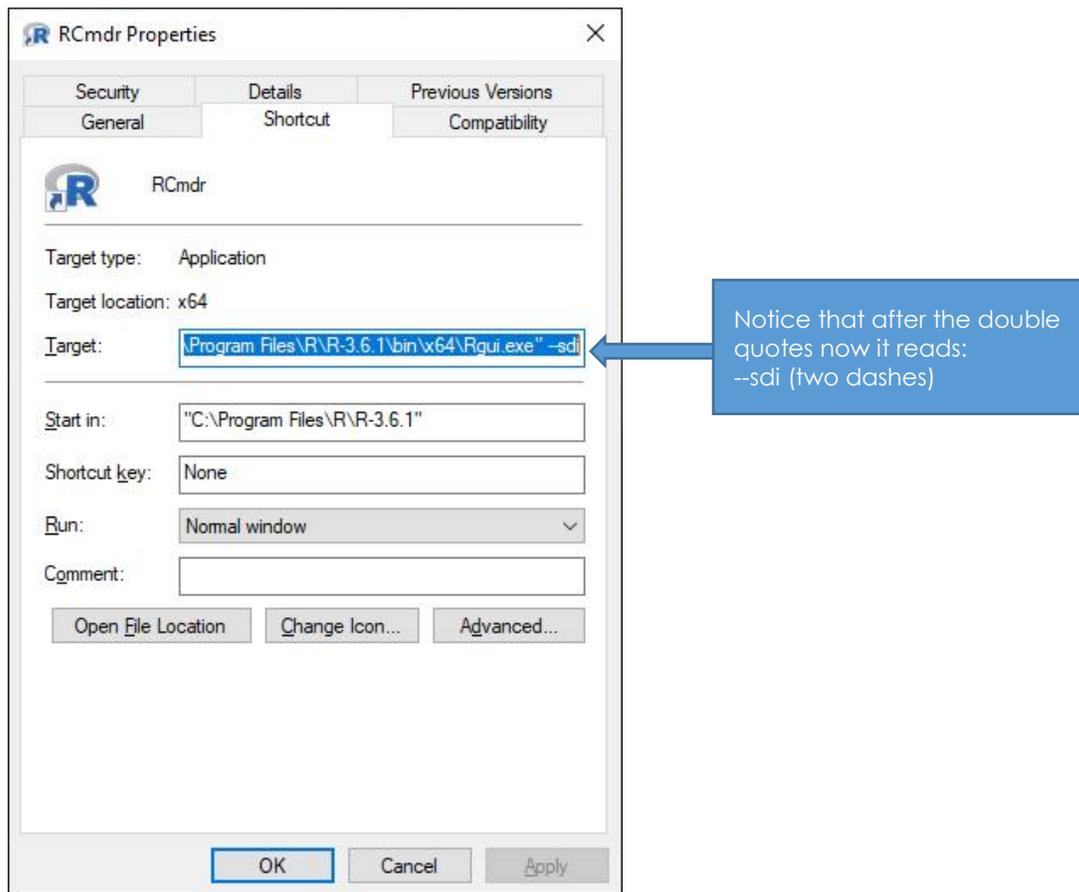

When you click on this new icon, the program opens and looks like this:

Main difference: only one screen rather than two (see above)
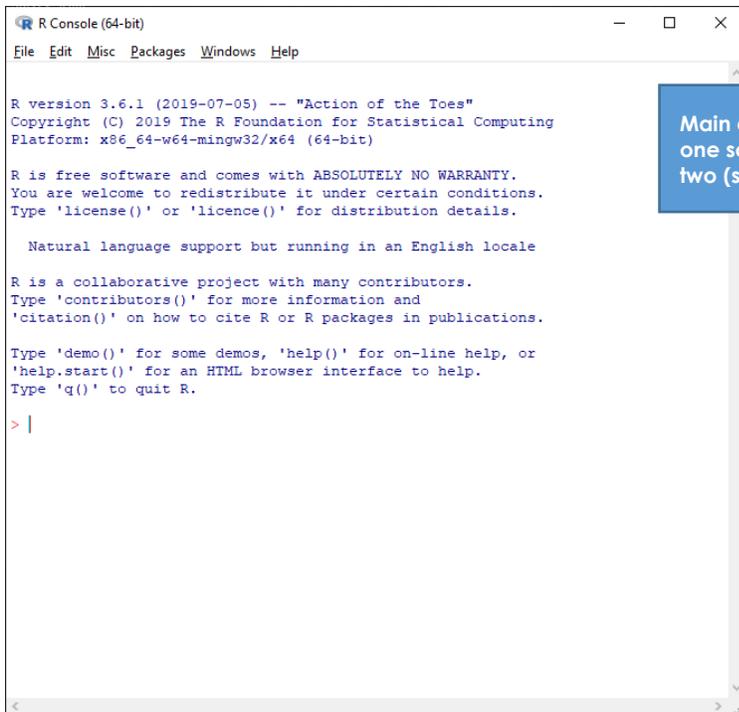
Once you type "library("Rcmdr") in this new version of the program you get the following screen:
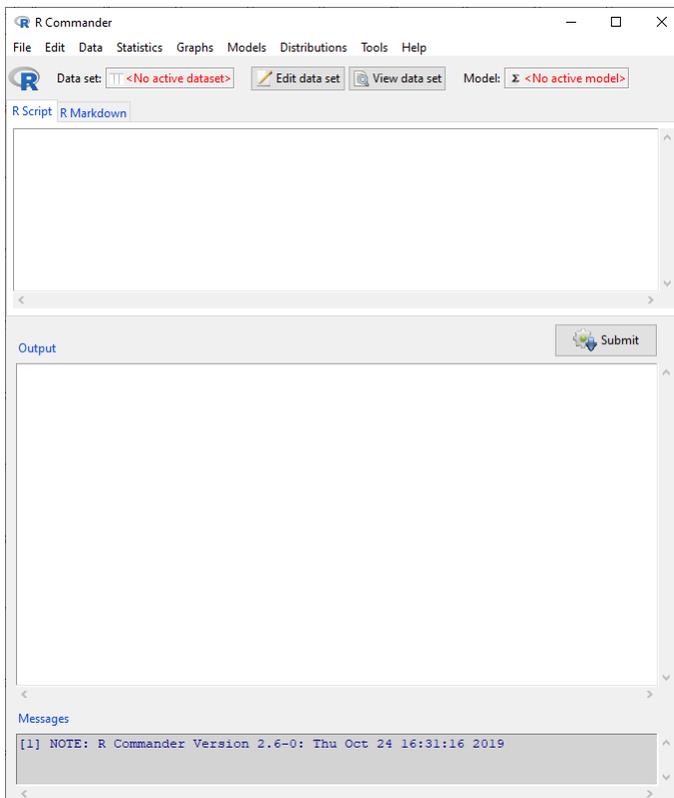
Notice that at the bottom of the program, there are no longer warnings:

Messages

[1] NOTE: R Commander Version 2.6-0: Thu Oct 24 16:31:16 2019

No warnings
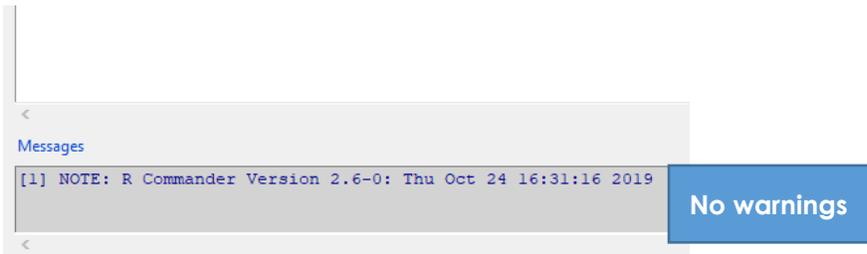
3. - Your computer is ready to run R-commander. Explore!

You can now start using R-commander. Explore the menus at the top. You'll notice that it is menu-based (i.e., like SPSS windows), rather than command-based (i.e., like the old SPSS with syntax)

Menus with multiple options to run several statistical procedures, graphics, etc.

Explore!