

Download and Install RStudio for Windows

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What is RStudio?

RStudio is an environment and interface that makes working in R easier, it is free and you can download versions for any operating system, here we show you how to install it on a windows machine.

Make sure you have enough space and it helps if you also created a working directory folder.

When using the File Explorer, if you click on *This PC* > *Local Disk (C:)* > *Users* > *susan* and Click on the New Folder Icon in the top right hand corner (or Ctl+Shift+N) then give it a name such as RWork.

Folder addresses

In the windows system, this folder would be called `C:\Users\susan\RWork\`, we'll see that R inherits its file and folder naming conventions from unix and will call this: `C:/Users/susan/RWork/` with front slashes instead of backslashes.

Backslashes are actually used for a different purpose (as what we call escape characters to isolate special characters and stop them from being immediately interpreted.)

As a rule, to avoid problems, we should also make sure not to have directories and folders without spaces and special characters.

If you already have an important directory with a space in its name, know that you have to put backslashes in front:

`setwd("C:/Users/susan/My Documents/")`
may create problems.

Note: `("C:\\Path\\To\\A\\File")` is the same as `("C:/Path/To/A/File")`

Downloading the Windows Version of RStudio

Go to RStudio website <https://cran.r-project.org>)
click on free RStudio Desktop.

Installing RStudio

Make sure you have more than 500MB of free space on your computer, the program will unpack itself and will need the space and then you'll need a little space to save your work.

The RStudio file is on your computer, probably in the Downloads folder (C:)

Now double-click on it to run the installation.

- YES to question as to whether you want to allow this app to make changes to your device

Then you will see the Rstudio startup wizard pane.

Choose Install Location:

C:\Program Files\RStudio

Type Next

Choose Start Menu Folder

Click on the Install button.

Then it will do the installation, a note saying Installing, Please wait while RStudio is being installed and you

will see a progress bar as the files are decompressed and copied to their correct location.

The process can take a few minutes to complete.

At the end when you see:

Completing the RStudio setup wizard

Click on the Finish button.

Open and Check the RStudio program

Search with the magnifying glass in the lower left hand corner where RStudio is and double click on the icon when it comes up.

Wait a minute until it fully initializes. You should see a window with three panes in it, in the main pane you will recognize the same R initialization messages we saw before when started R, that window is called the Console.

The first thing we need to do is make sure we do all our work in the right folder or directory. To see where we are, type

```
getwd()
```

at the `>` prompt.

You should get something like:

```
[1] "C:/Users/susan/Documents"
```

```
setwd("C:/Users/susan/RWork")
```

To type `getwd()` again click on the upwards arrow twice, it will bring you to the command before last, type return; you should see

```
[1] "C:/Users/susan/Rwork"
```

with susan replaced by your name.

ATTN: RStudio needs R to be already installed on your computer to work. As with R, once the RStudio setup has been done, you won't need to do it again.

Quitting R

To quit R you need to call the quit function by typing `q` followed by a left and right round brack `q()` and the return key.

```
q()
```

R will ask you iof you want to save your work:

```
Save workspace image? [y/n/c]:
```

Answer *n* followed by the return key.

Note:

- 1 To have the RStudio in your apps, press the windows button then you will see the apps you have installed, you will find the RStudio Icon and you can pin that to taskbar by dragging it.
- 2 We will see in the next session how to use the RStudio environment to set our working directory and get help while we are working.

Question Start RStudio again by clicking on the Icon, compute the product of 64722 by 5714 by typing at the > prompt. Quit RStudio.