

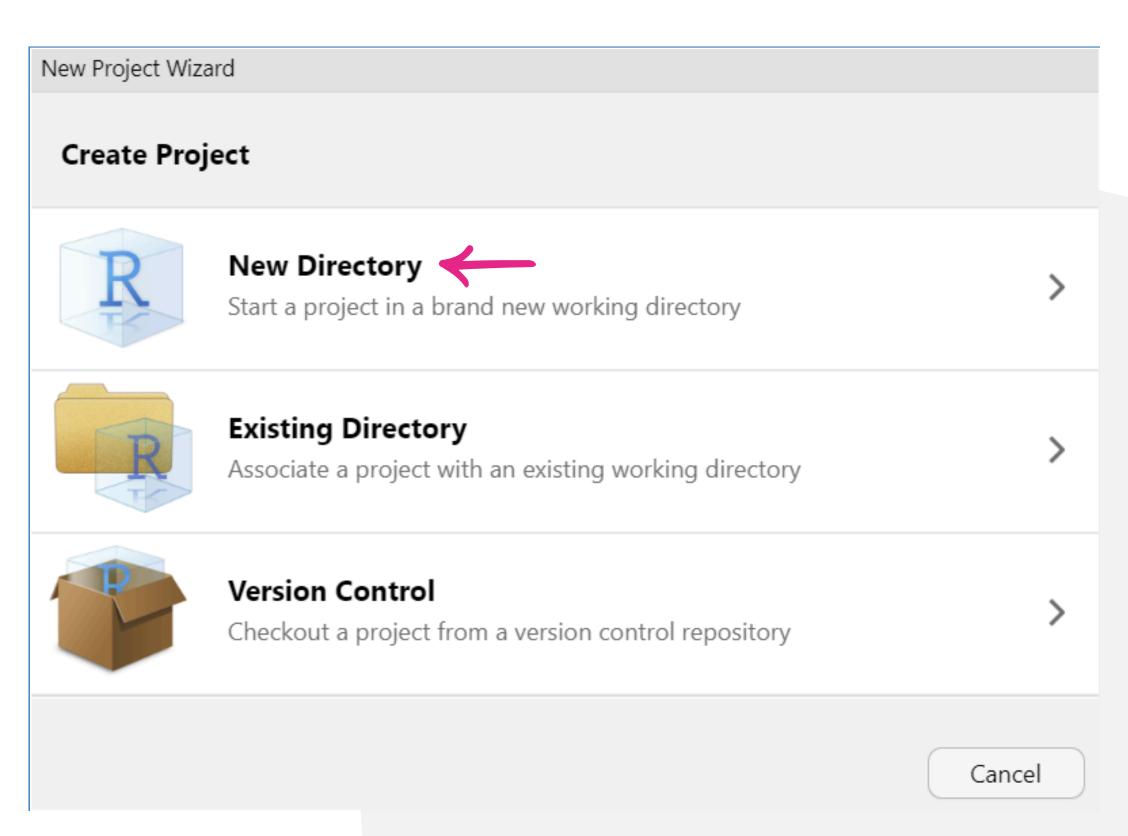
Working **Directory**

The first and most important thing to do before starting any work in **R** is to set the working directory.

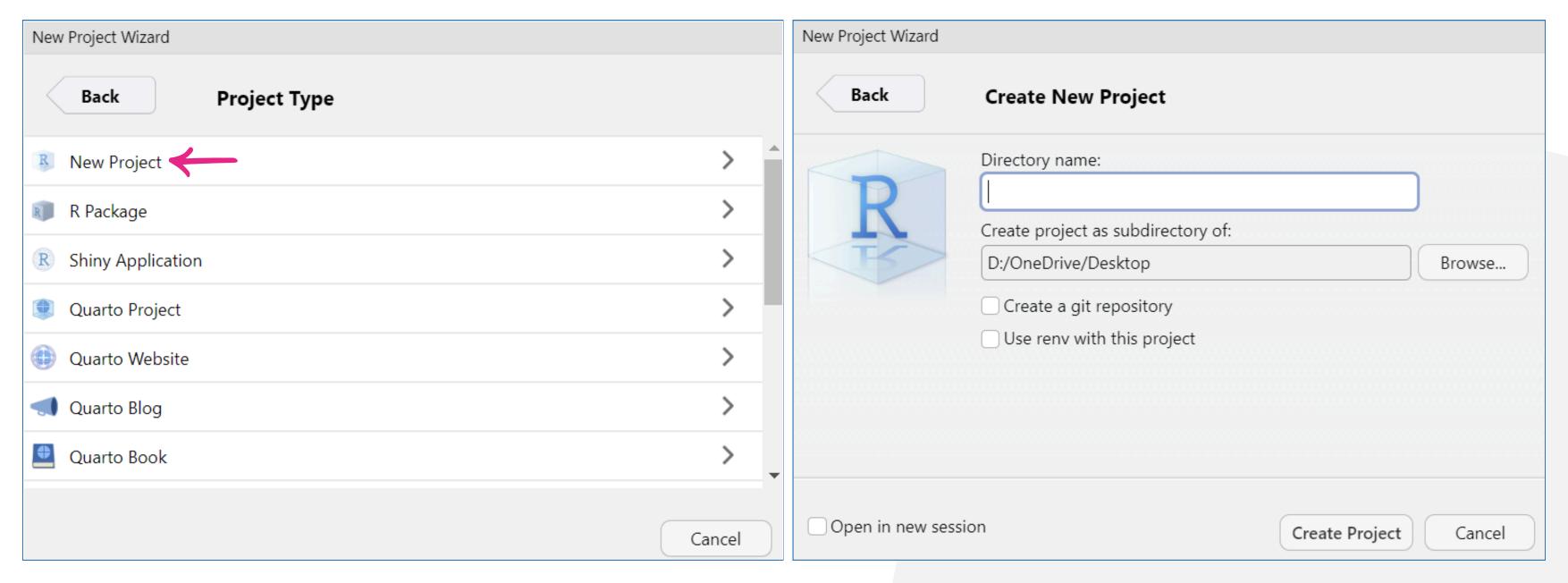
The working directory is a folder that contains **R** codes, **R** outputs, and datasets that contribute to the **R** project.

The recommended method to set up a working directory is by creating a new **R project**. In **RStudio**, go to the **File** menu and choose **New Project**.

In the New Project Wizard, select New Directory.



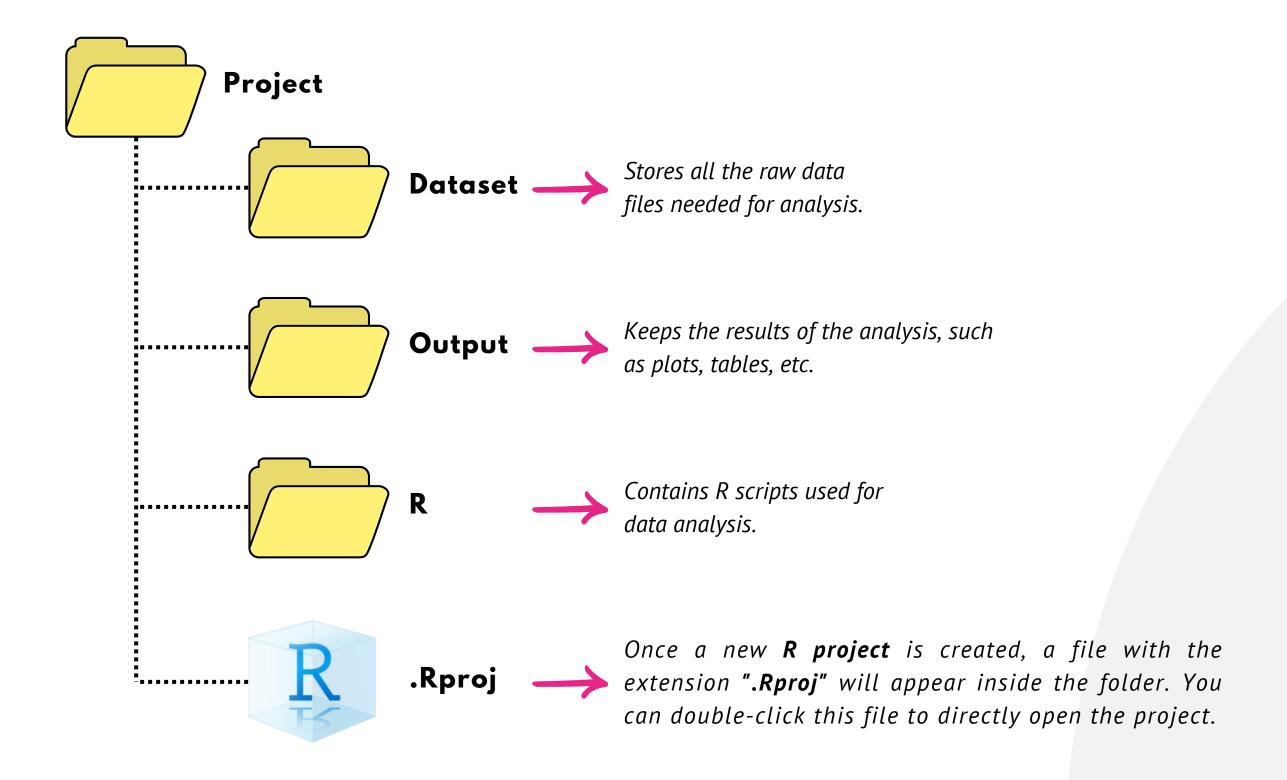
Working **Directory**



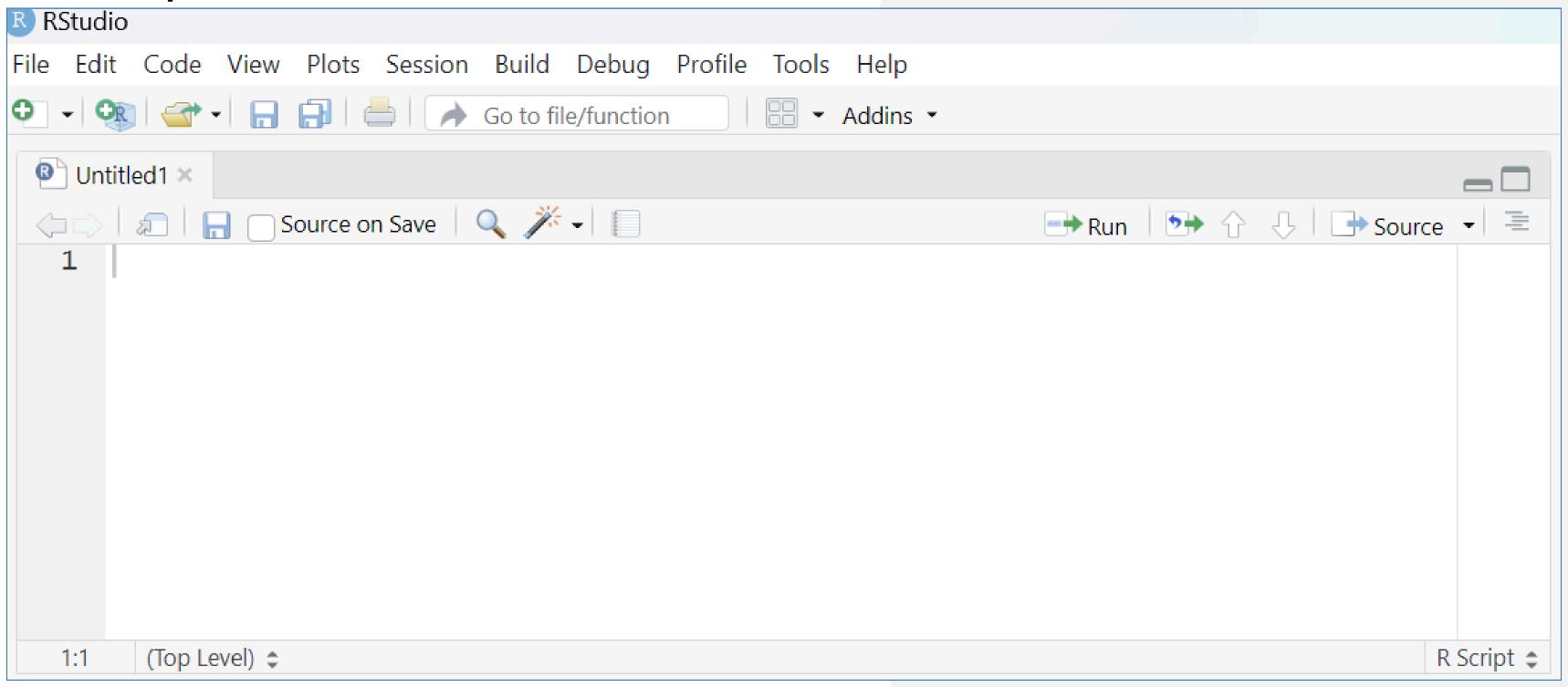
Then choose New Project.

Name your **R project** and choose the location where the folder or working directory containing this **R project** will be located.

It is advisable to create subfolders within your working directory to properly manage your files and other **R objects**.



R Script



In RStudio, go to the File menu, then select R Script. The Source pane with a blank R script will appear as shown below.

R Packages

 ${f R}$ packages are collections of functions and data sets developed by the community, enhancing the power of ${f R}$ by improving existing base ${f R}$ codes and functions or adding new ones. There are two methods for installing R packages:

Method 1: Using R Code

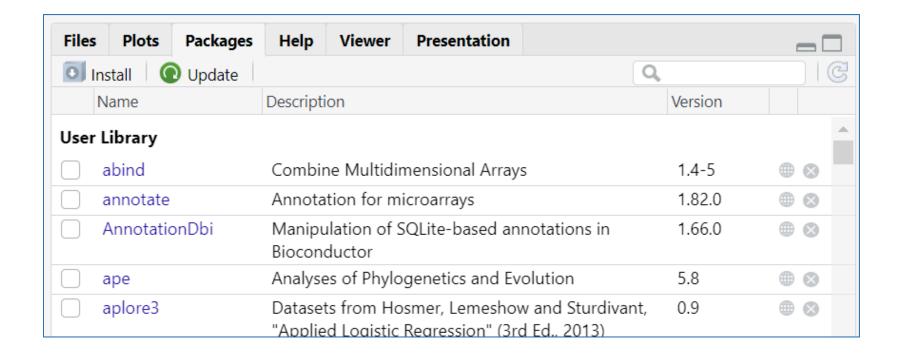
Type the following code to install an **R** package, for example, the **'tidyverse'** package:

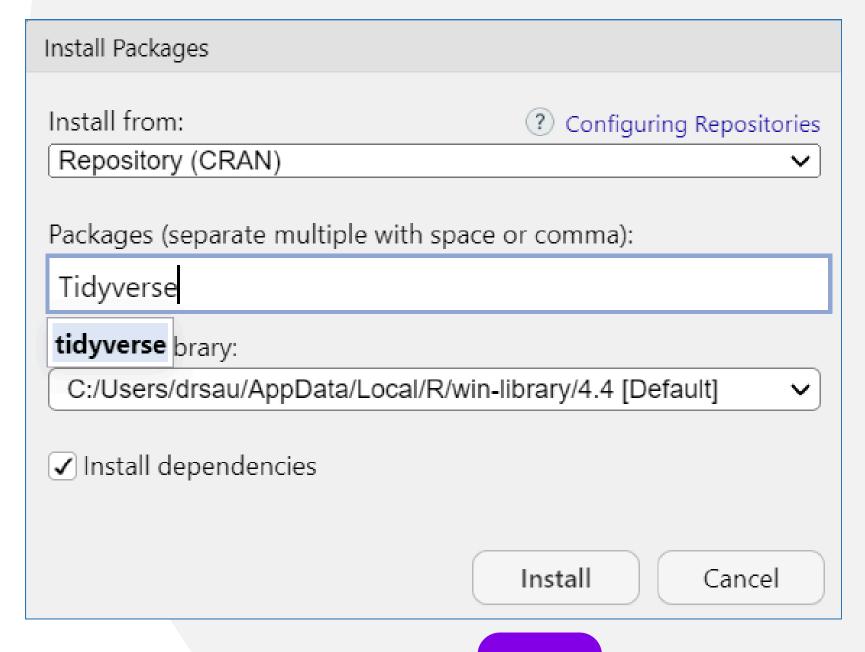
In R script:

install.packages("tidyverse")

Method 2: Using the Packages Tab

In the **Packages** tab, click **'Install'** and choose the package you want to install.





R Packages

Loading the Packages

To use functions available in a package, you need to load the particular package:

In R script:

library(tidyverse)

Installing packages only needs to be done once. However, loading the packages is required whenever you start a new **R script**.

Read Data

To begin data analysis, we need to import data into **R**. The commonly used term for this process is "reading the data." There are various types of data that require different packages to facilitate reading from different formats.

Comma-Separated Value (.csv) Files

The `read_csv()` function from the `readr` package, which is part of the `tidyverse`, can be used to read CSV files.

In R script:

```
library(readr)
mydata <- read_csv("data.csv")</pre>
```

Microsoft Excel (.xlsx) Files

To read **Excel** files, you can use the `read_excel()` function from the `readxl` package.

In R script:

```
library(readxl)
mydata <- read_excel("data.xlsx")</pre>
```

SPSS (.sav) Files

The 'haven' package provides the 'read_sav()' function to read SPSS files.

In R script:

```
library(haven)
mydata <- read_sav("data.sav")</pre>
```

Stata (.dta) Files

The 'haven' package also supports reading Stata files using the 'read_dta()' function.

In R script:

```
library(haven)
mydata <- read_dta("data.dta")</pre>
```

Keyboard Shortcuts





Save Your Script



Undo Change



Select Full Script



Search And Replace



Go To End Of Line



Go To Start Of Line



Open A File



Assignment Operator



Pipe Operator



Insert Code Chunk



Show All Keyboard Shortcuts



Thank Jour