

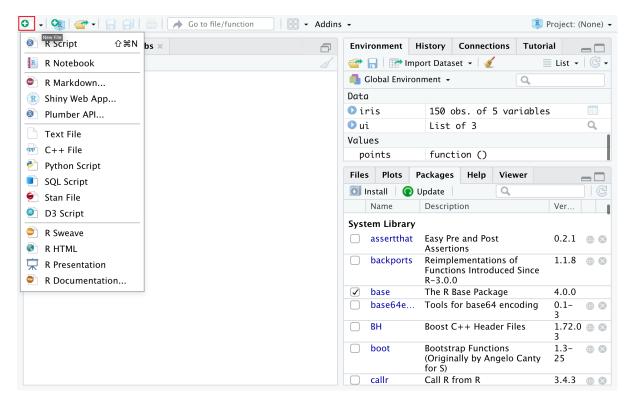
## Getting started with RStudio and Installing packages

### **Objectives of Exercise:**

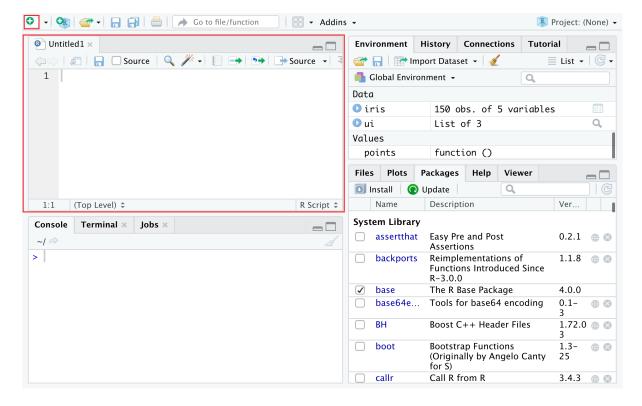
After completing this lab, you will be able to:

- Load the datasets
- Install libraries

**Step 1** - Click the plus symbol on the top left and click R Script.



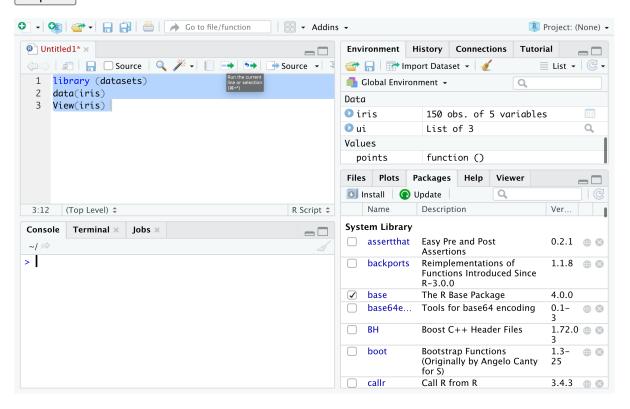
An untitled R Script panel opens. It would look like this.



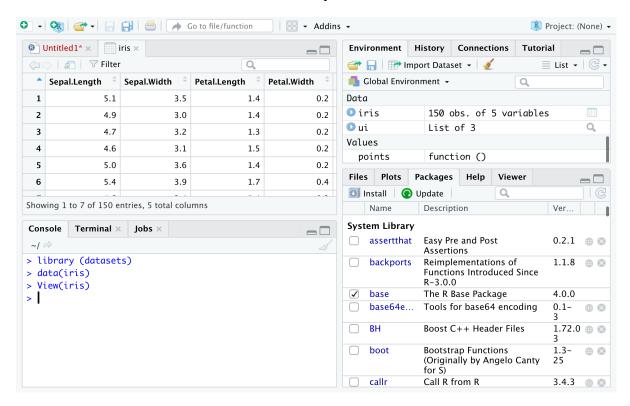
**Step 2** - Now you load the iris dataset. Enter the following lines into the editor window that appears. Then select all the text, and click Run just above the editor window.

- 1. 1
- 2. 2
- 3.3
- 1. library (datasets)
- 2. data(iris)
- 3. View(iris)

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**Step 3** - You are taken to the data view tab to inspect your dataset. The dataset contains five columns and the first four are floating point type while the last column is a label of data type string which contains the category value. You can see there are total 150 entries of which you can see the first 7.



**Step 4** - Now you can find the different species present in the data set. Enter the following command in the editor window and click Run.

- 1. 1
- 1. unique(iris\$Species)

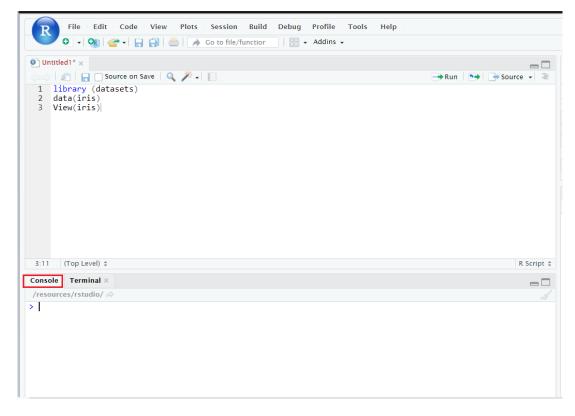
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```
Untitled1* * iris *

♦ ♦ Image: 
                                                                                                                                                                                                                                                                                                                                              Run Source +
                          library(datasets)
          2 data(iris)
                          View(iris)
          4
                              unique(iris$Species)
          6
                                      (Top Level) ‡
                                                                                                                                                                                                                                                                                                                                                                                                                                                              R Script $
         6:1
    Console ~/ 🙈
                                                                                                                                                                                                                                                                                                                                                                                                                                                                            \neg
>
>
>
             unique(iris$Species)
[1] setosa versicolor virginica
Levels: setosa versicolor virginica
>
```

In the Console window at the bottom you can see the result of the executed command and know that there are only three different species present in the data set.

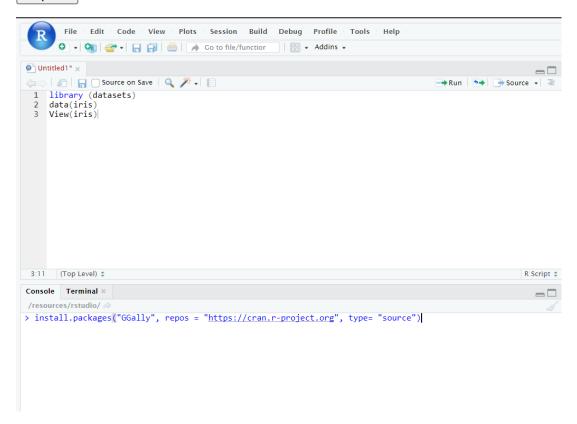
**Step 5** - Next you will look into the data set in more detail. Open a Console.



**Step 6** - Run the following command in the console.

- 1. 1
- 1. install.packages("GGally", repos = "https://cran.r-project.org", type = "source")

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**Step 7** - Click *Enter* to install the packages.

This concludes the lab; I hope you enjoyed it!

## **Author(s)**

Romeo

**Other Contributor(s)** 

Lavanya

# **Change log**

Date '	Version	<b>Changed by</b>	Change Description
2023-07-09	3.0	Anita Verma	Changed to RStudio lab
2021-13-01	2.4	Malika Singla	Update the installation for R packages
2020-12-10	2.3	Aije	Moved plot steps to a new lab
2020-12-10	2.2	Malika Singla	Update the installation for R packages
2020-12-07	2.1	Aije	Changed instructions to use Skills Network Lab
2020-08-25 2	2.0	Lavanya	Migrated Lab to Markdown and added to course repo in GitLab

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