

Skills Network

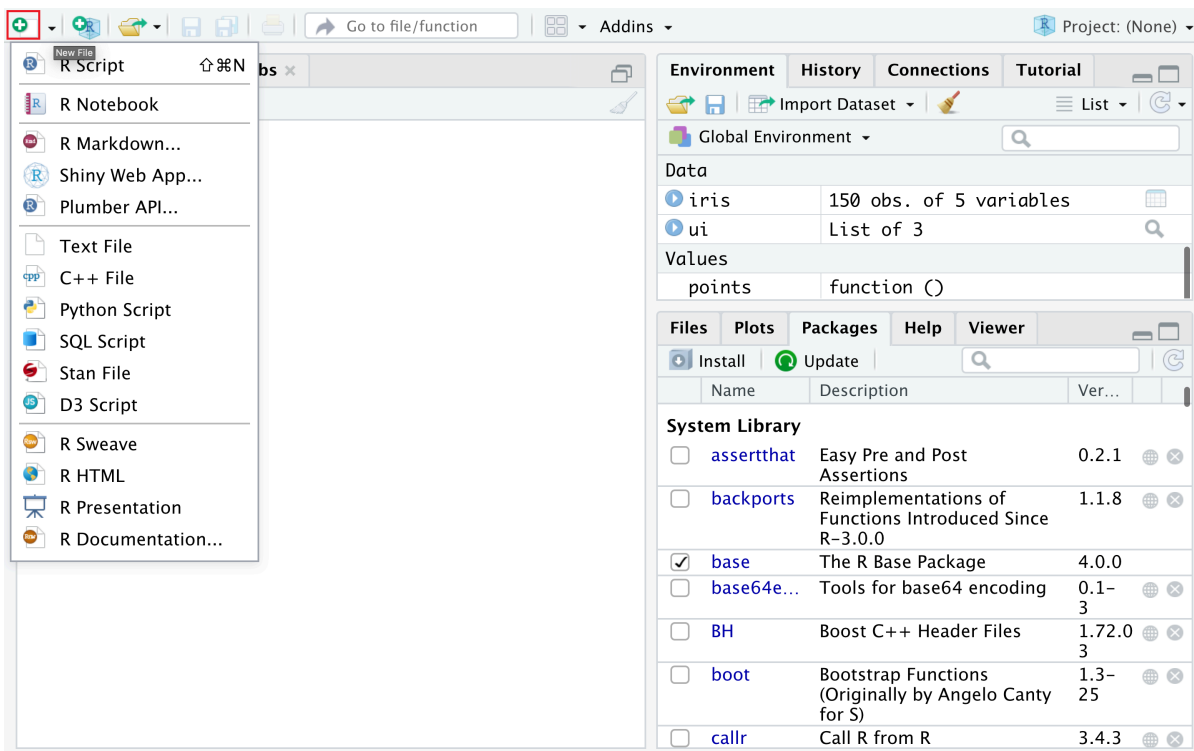
Getting started with RStudio and Installing packages

Objectives of Exercise:

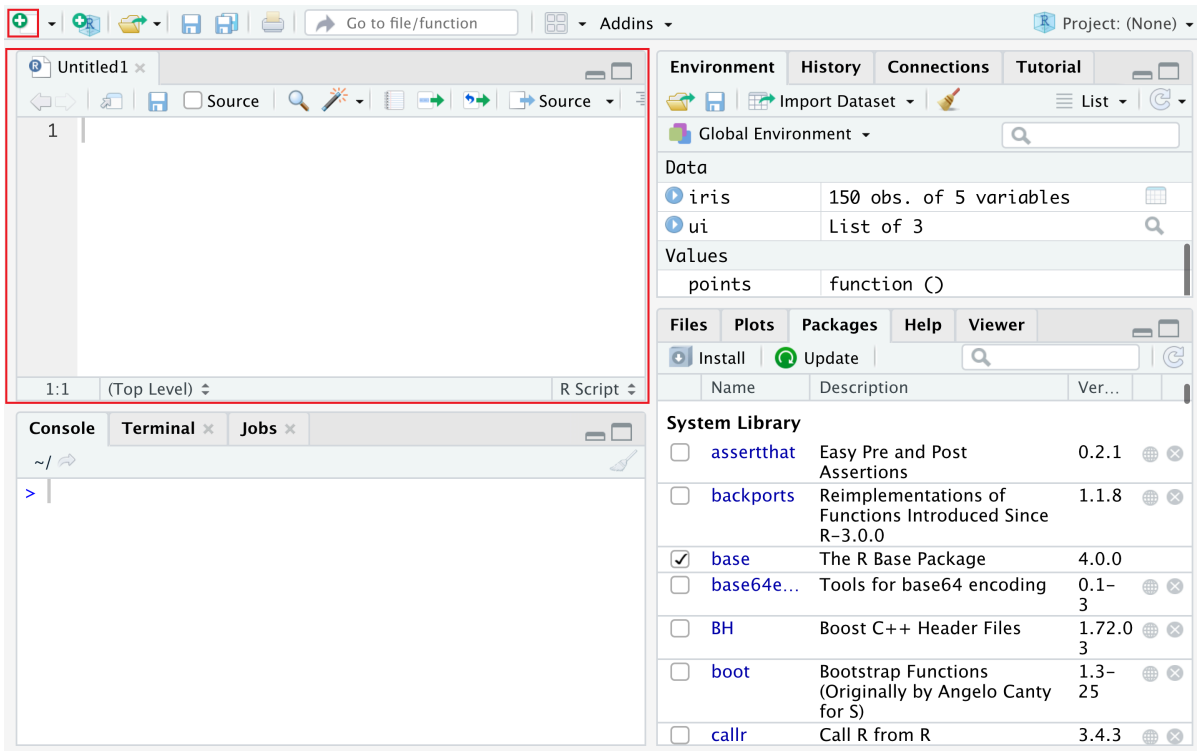
After completing this lab, you will be able to:

- Load the datasets
- Install libraries

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

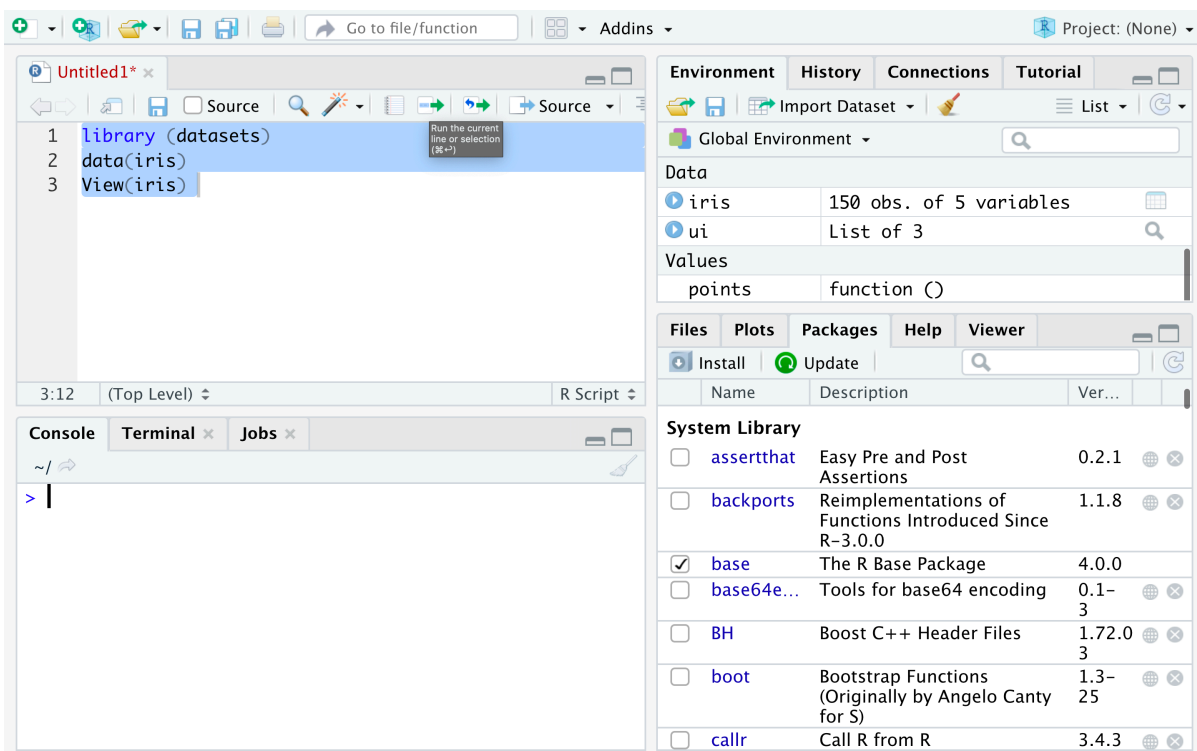


An untitled R Script panel opens. It would look like this.



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.

```
library(datasets)
data(iris)
View(iris)
```



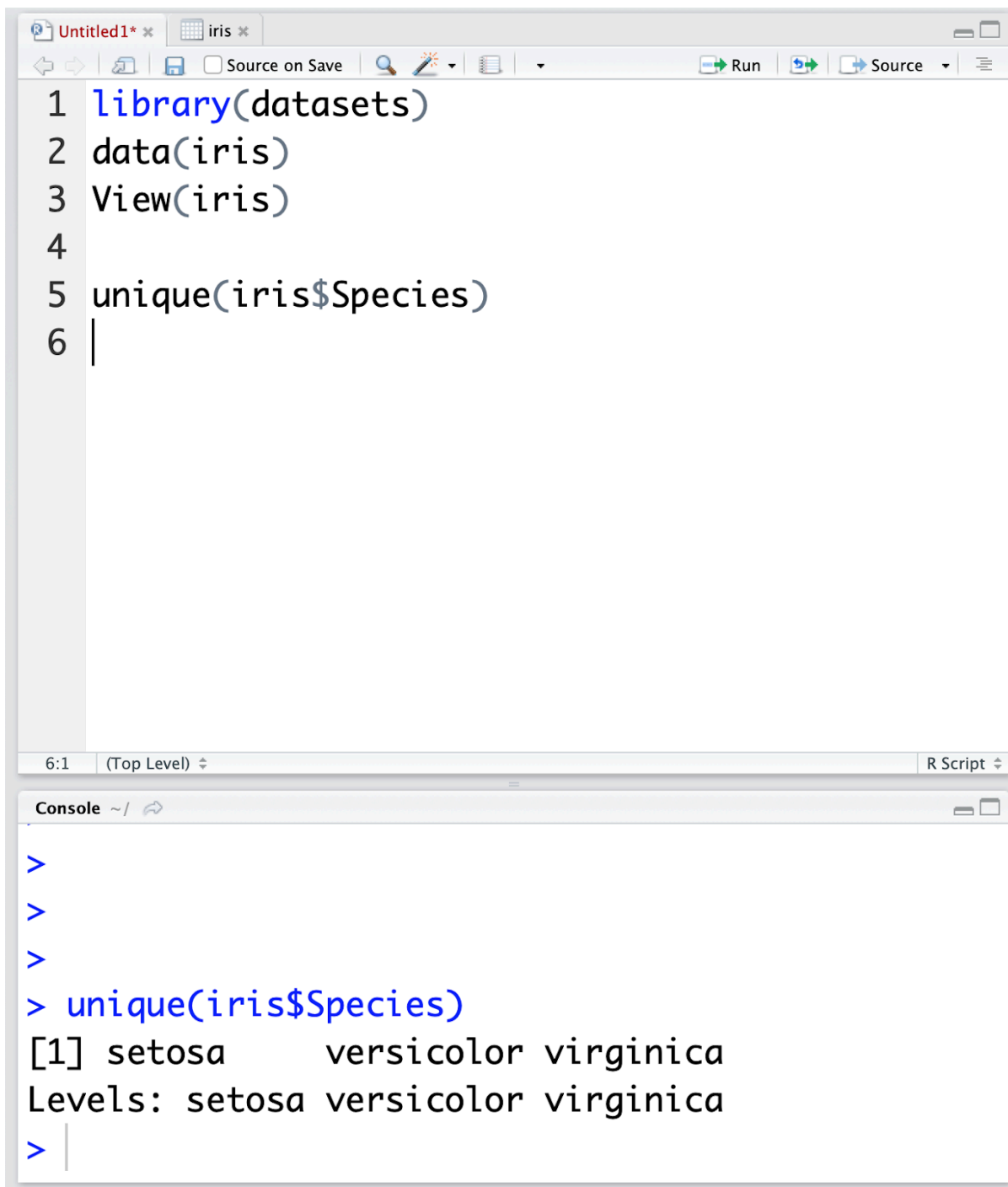
Step 3 - You are taken to the data view tab to inspect your dataset. The dataset contains five columns and the first four are floating point type while the last column is a label of data type string which contains the category value. You can see there are total 150 entries of which you can see the first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

The screenshot shows the RStudio interface with the 'iris' dataset loaded. The top toolbar includes icons for file operations and a 'Go to file/function' search bar. The main editor window displays the 'iris' dataset in a table view with columns: Sepal.Length, Sepal.Width, Petal.Length, Petal.Width, and Species. The first 7 rows are visible, showing values for each variable. Below the table, it indicates 'Showing 1 to 7 of 150 entries, 5 total columns'. The right sidebar contains several panels: 'Environment' showing the 'iris' object with 150 observations of 5 variables; 'Data' showing the 'iris' object; 'Values' showing the 'points' function; 'Files' showing the 'Install' and 'Update' buttons; 'Plots' showing the 'Viewer' button; 'Packages' showing the 'System Library' with a list of installed and available packages; and 'Help' showing the 'Viewer' button. The bottom console window shows the following commands:

```
> library(datasets)
> data(iris)
> View(iris)
> |
```

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.

```
unique(iris$Species)
```



The image shows a screenshot of the RStudio environment. The top pane is the script editor, showing a file named 'iris' with the following R code:

```
1 library(datasets)
2 data(iris)
3 View(iris)
4
5 unique(iris$Species)
6 |
```

The bottom pane is the console, showing the execution of the code. The prompt is '>'. The command 'unique(iris\$Species)' has been executed, resulting in the following output:

```
>
>
>
> 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 dataset.

This concludes the lab; I hope you enjoyed it!

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