Learning Objectives: Scatter Plots

- **Create a scatter plot**
- **Calculate regression and correlation lines from data**
- **Create a scatter plot with a regression and correlation line**

definition

Assumptions

- Learners are comfortable reading and importing CSV data sets, extracting relevant data into data frames, and printing that data to the console.

Limitations

- This section will cover distribution charts in brief details only and will offer practical visualization functions for learners to start creating charts right away.

Scatter Plots

Creating Scatter Plots

Follow the directions below to open up the `scatter.r` file in RStudio.

info

Open the `scatter.r` file

Within RStudio, open the `scatter.r` file by selecting: `File` —> `Open File...` —> `code` —> `dist` —> `scatter.r`

Data Import

```
# The iris dataset is provided natively by R
print(iris)
```

The basic syntax is:

```
ggplot($data, aes(x=$x, y=$y)) +
  geom_point()
```

Add on the following code into the text editor and then click the `Source` button to see the result.

```
plot <- ggplot(iris, aes(x=Sepal.Length, y=Sepal.Width)) +
  geom_point()
print(plot)
```