Introduction to Statistics and Data Science using *eStat* Chapter 3 Visualization of Quantitative Data

## **3.3 Visualization of Two Quantitative Variables**

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- Data of two Quantitative variables can be analyzed using a scatter plot.
  - > Display data on a two-dimensional plane, with values for one variable being x-axis and for the other being y-axis.
    > Weight vs Height
- If categorical variables are also measured, a scatter plot can be drawn by separating the colors of each group.
- Correlation and regression analysis of the two Quantitative variables are discussed in detail in Chapter 12.

[Example 3.3.1] (Height and Weight – Two Quantitative variables) Data on the gender, height and weight of 10 elementary school students are stored in EX ⇒ eBook ⇒ Ex030301Continuous\_HeightWeightByGender.csv.

Draw the following graph by using the "eStat\_.

- 1) Draw a scatter plot of height and weight.
- 2) Draw a scatter plot of height and weight by gender group.

	Gender	Height	Weight
1	1	150	45
2	2	147	47
3	1	145	44
4	2	151	50
5	1	149	48
6	2	148	47
7	1	155	51
8	2	156	50
9	1	161	55
10	2	159	56

#### [Example 3.3.1] (Height and Weight – Two Quantitative variables)





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# Thank you