

Scatterplots and Correlation

Objectives

- 1 Create and analyze scatterplots
- 2 Determine the type of correlation of a scatterplot

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Scatterplots allow us to see if there is a relationship between the two variables.

Example 1

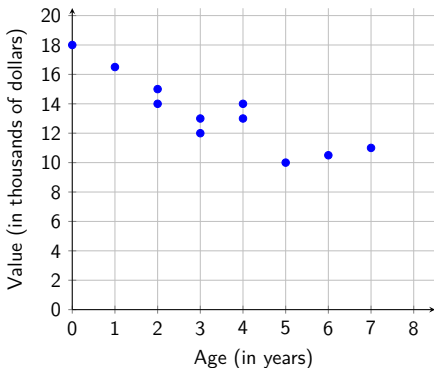
The table below shows the age of a certain model of car (in years) with the cars current value (in thousands of dollars). Create a scatterplot for the data.

Age	Value
2	15
3	12
3	13
2	14
4	13
5	10
6	10.5
1	16.5
0	18
4	14
7	11

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We will examine three correlation types: positive, negative, and none (a.k.a. no correlation)

Positive Correlation

As x increases, so does y .

Positive Correlation

As x increases, so does y .