Project 3.1

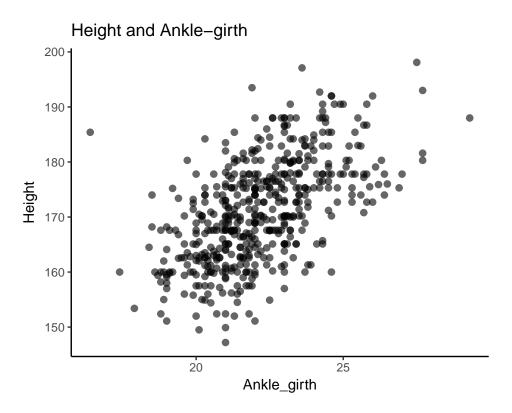
Math 206, BCC

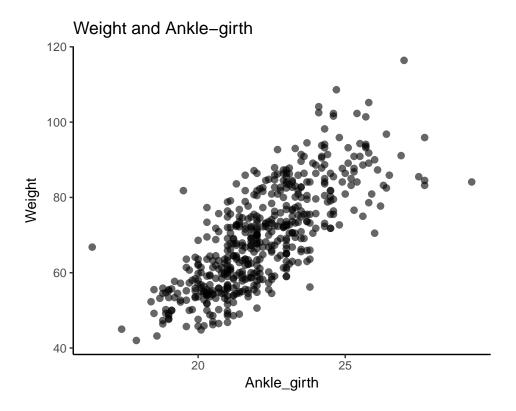
Describe the relationship between ankle girth and height, and the relationship between ankle girth and weight. Which relationship has a stronger association?

Instructions

In this project you will decide whether ankle girth (distance around the ankle bone) has a stronger association with heights or weights. Ankle girth and height are measured in centimeters; weight is measured in kilograms.

- correlation between ankle-girth and height = 0.5709
- correlation between ankle-girth and weight = 0.762





Think It Through

- 1. Determine which variable is the explanatory variable and which is the response variable for each relationship.
- 2. Develop a thesis statement that addresses the research question.
- 3. Make observations about form (linear, curved), direction (positive or negative), and strength (strong to weak) of the relationship in the scatterplots. Note any outliers. Explain how these observations support your thesis.

Write the analysis

Write one or more paragraphs that use your observations to support the thesis.