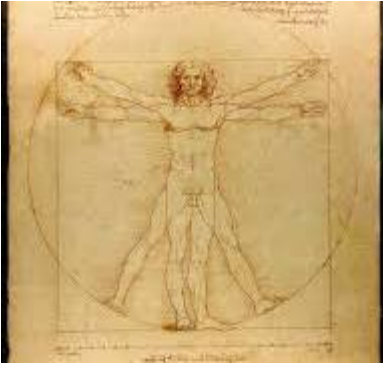


The Vitruvian Man Hypothesis



My Hypothesis: I contend that taller people have a longer arm span, and will demonstrate this using the data collected from the class.

Importing the data

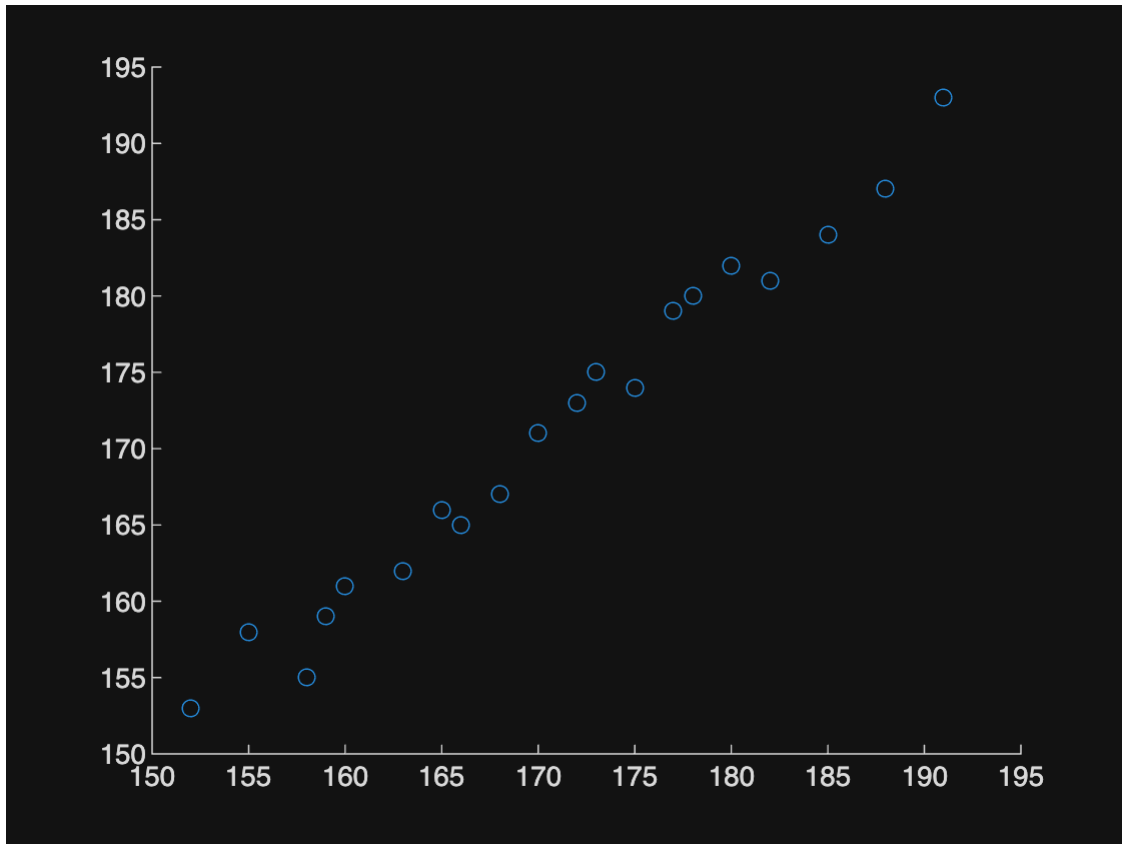
First I import the data to a table named data

```
data = readtable("HumanData.csv");
```

Make a scatter diagram

First, I'll make a scatter diagram of Height_cm vs ArmSpan_cm.

```
scatter(data.Height_cm, data.ArmSpan_cm);
```



Correlation Coefficient

Next, I will calculate the correlation coefficient between the two values. Numbers range from 0 to 1. 1 is perfect correlation.

```
corrccoef(data.Height_cm, data.ArmSpan_cm)
```

```
ans = 2x2
      1.0000    0.9904
      0.9904    1.0000
```

Claim, Evidence, Reasoning

Claim

Taller people have a longer armspan

Evidence

The correlation between height and armspan was .99 in my data. An almost perfect correlation.

Reasoning

Humans have an armspan that mirrors their height. This is a genetic trait in all humans.