

Assignment 05 Part 1

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```
## Set the working directory to the root of your DSC 520 directory
setwd("C:/users/pahme/onedrive/documents/github/dsc520")
```

```
## Load the `data/r4ds/heights.csv` to
heights_df <- read.csv("data/r4ds/heights.csv")
```

```
## Using `cor()` compute correlation coefficients for
```

```
## height vs. earn
library(ggplot2)
```

```
cor(heights_df$earn, heights_df$height)
```

```
## [1] 0.2418481
```

```
### age vs. earn
```

```
cor(heights_df$earn, heights_df$age)
```

```
## [1] 0.08100297
```

```
### ed vs. earn
```

```
cor(heights_df$earn, heights_df$ed)
```

```
## [1] 0.3399765
```

```
## Spurious correlation
```

```
## The following is data on US spending on science, space, and technology in millions of today's dollars
## and Suicides by hanging strangulation and suffocation for the years 1999 to 2009
```

```
## Compute the correlation between these variables
```

```
tech_spending <- c(18079, 18594, 19753, 20734, 20831, 23029, 23597, 23584, 25525, 27731, 29449)
```

```
suicides <- c(5427, 5688, 6198, 6462, 6635, 7336, 7248, 7491, 8161, 8578, 9000)
```

```
cor(suicides, tech_spending)
```

```
## [1] 0.9920817
```