

MTH208a: Assignment 7

The dataset `data.csv` in your repository contains a dataset of 1000 observations with 5 variables:

- `Var1` - continuous variable
- `Var2` - continuous variable
- `X1` - factor variable
- `X2` - factor variable
- `X3` - factor variable

No other information is available about the dataset. Plotting `Var1` vs `Var2`, it seems that `Var1` and `Var2` are positively correlated. Write `R` code that makes a plot highlighting Simpson's Paradox in this case and indicates that, in fact, `Var1` and `Var2` are negatively correlated.

Directions:

- Load any packages that you need to make the plot and make sure `library(...)` command is in your submitted script.
- Make sure all axes are labeled and legends if needed are present.
- Your final script should be clean and only contains the lines of code essential to making the desired plot.
- The last line of the code should be the plotting line.
- Copy and paste your clean code to `assignment7.R`