Correlation ≠ Causation

Per capita cheese consumption

correlates with

Number of people who died by becoming tangled in their bedsheets

Correlation: 94.71% (r=0.947091)

Data sources: U.S. Department of Agriculture and Centers for Disease Control & Prevention
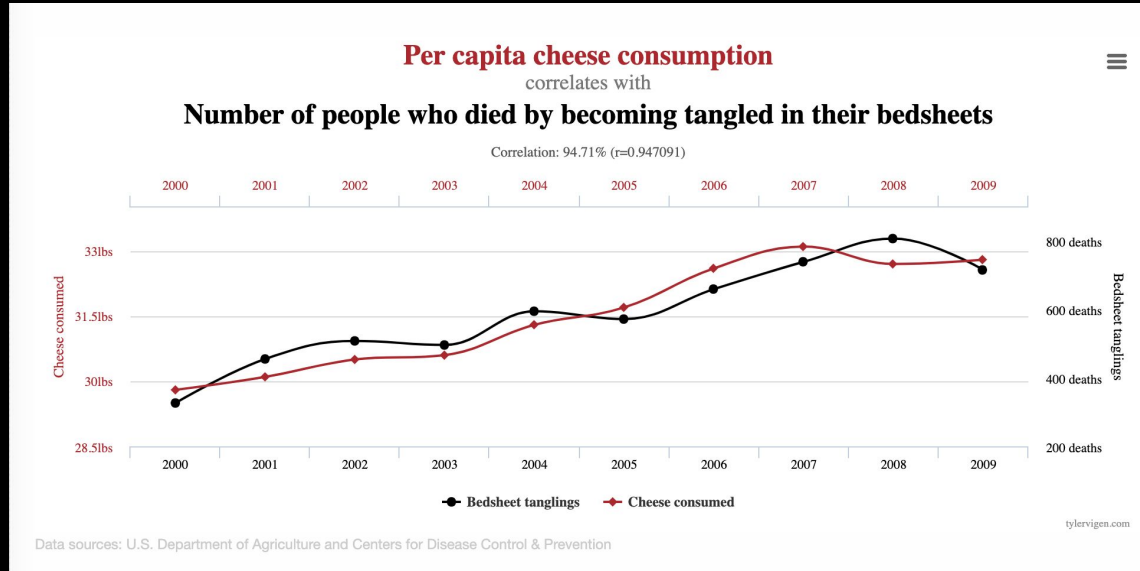
https://www.tylervigen.com/spurious-correlations

CL08 - Quantified Shakespeare

Final Exam

- May 2 at 8 am (Locations TBD)
- Make-up on May 3 at 8 am in SN 011
  - ***FILL OUT FORM LINKED ON CAMPUSWIRE!***

Challenge Question 05

Draw a memory diagram of this output from read_csv_rows

```
x = [{'Day': 'Monday', 'Low': '56', 'High': '75'},
     {'Day': 'Tuesday', 'Low': '53', 'High': '72'}]
```

Challenge Question 06

Draw a memory diagram of this output from columnar

```
X = {'Day': ['Monday', 'Tuesday'], 'Low': ['56', '53'], 'High': ['75', '72']}
```

Function Writing

function name: tally

Parameters: counts: dict[str, int] and key: str

Returns: None

Functionality:

- Mutate (modify) counts
- If key is in counts, increase the number of the value stored at key by 1
- If key is not in counts, add it to counts with the value 1

Function Writing

function name: count_letters

Parameters: lines: list[str]

Returns: dict[str, int]

Functionality:

- Create dict[str,int] called counts
- Loop through every element (str) of lines
- For each line, loop through every character in the line and tally character counts in counts
- Challenge: only tally *letters*, not numbers or punctuation. (char.isalpha())