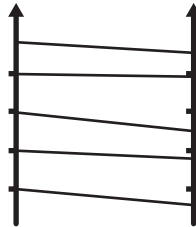# Parallel Coordinates

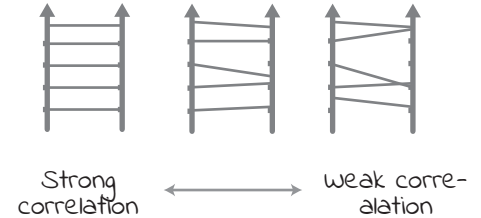# Visual Patterns

Parallel lines

Positive Correlation

Correllations indicate that high values in on data dimensions co-occur with high values in another dimension.
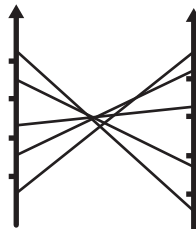
Correllations are not causations!

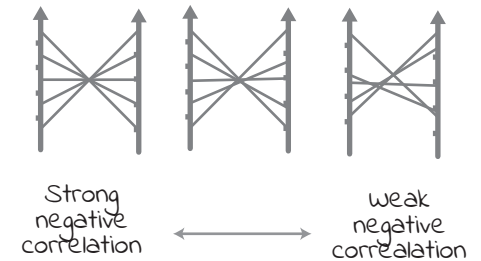A correlation is visible through rather parallel polylines between two axes.

Strong correlation ⟷ weak corre-alation

Crossing lines

Negative Correlation

Inverse correlations indicate that high values in one data dimension co-occur with low values in another data dimension.
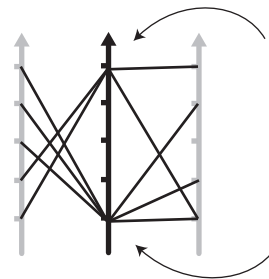

An inverse correlation is visible through lots of crossing polylines between two axes.

Strong negative correlation ⟷ weak negative correlation

Converging lines

Groups

Groups indicate many elements with the same value or similar values.
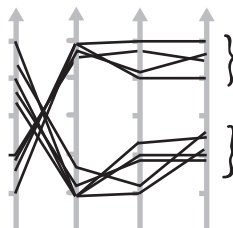

Groups are visible by many lines intersecting an axis at the same position.

Grouped lines

Clusters

Clusters indicate data elements with similar values across several dimensions.

Clusters are visible as polylines 'following' each other across several axes, resulting in bundles.