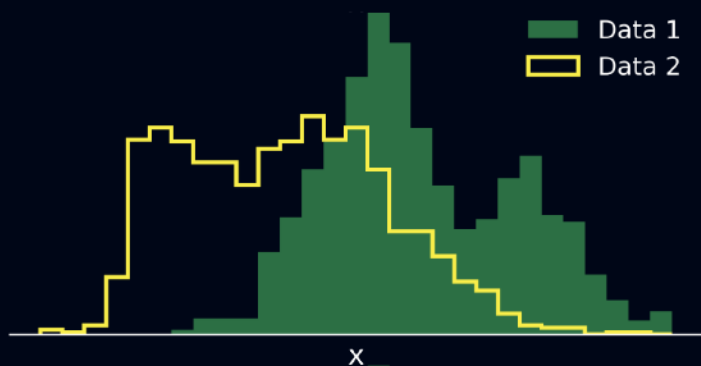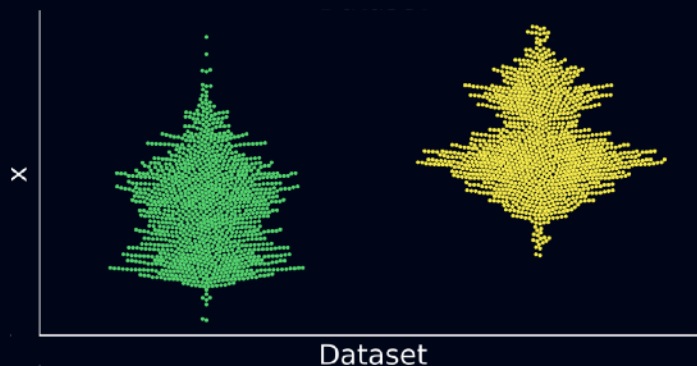## 1D Data Exploration

Histograms are tried and true. Beeswarm plots are fun but slow to plot. Box plots show quantiles in your data. Violin plots show quantiles and a smoothed histogram! The Empirical CDF is used as the basis for a lot of statistics!
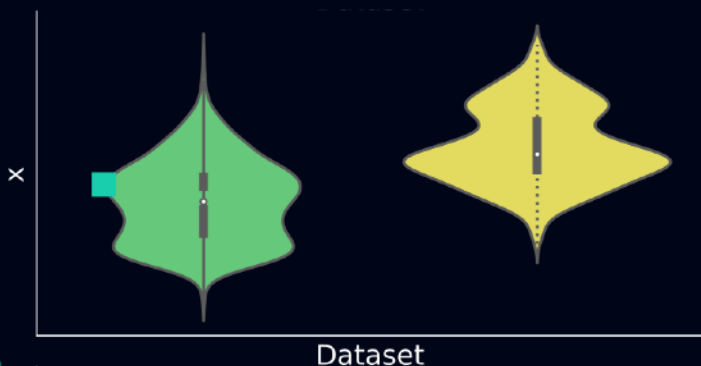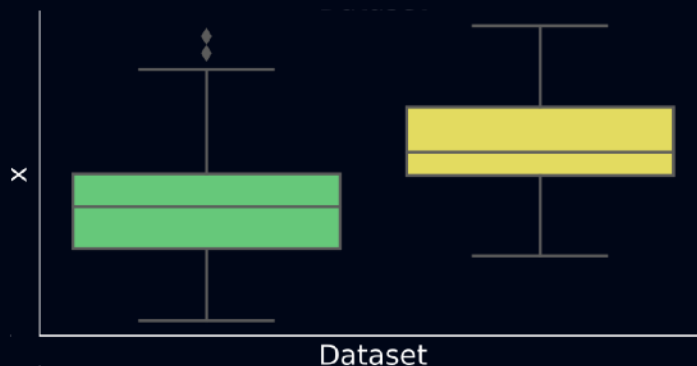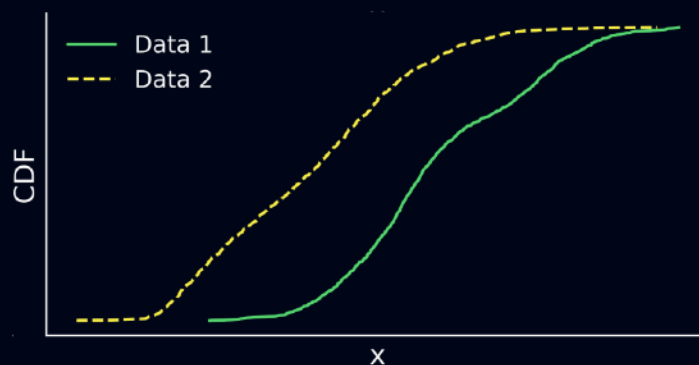
Histogram

Legend:
- Data 1
- Data 2

x

Beeswarm plot

x

Dataset

Violin plot

x

Dataset

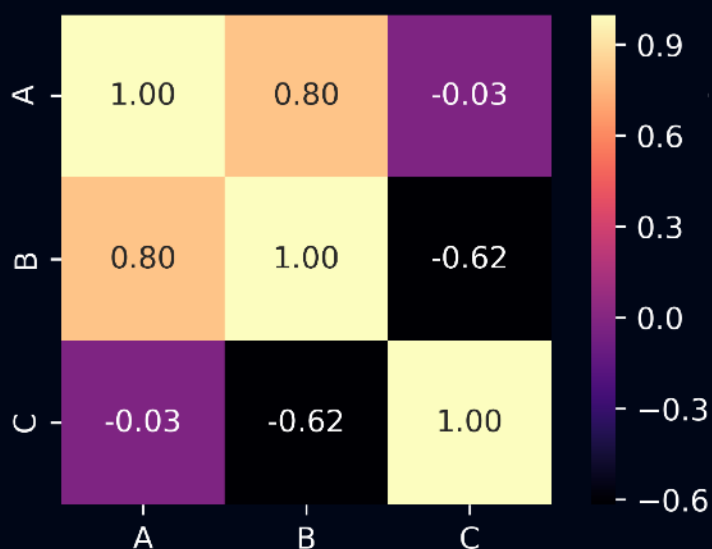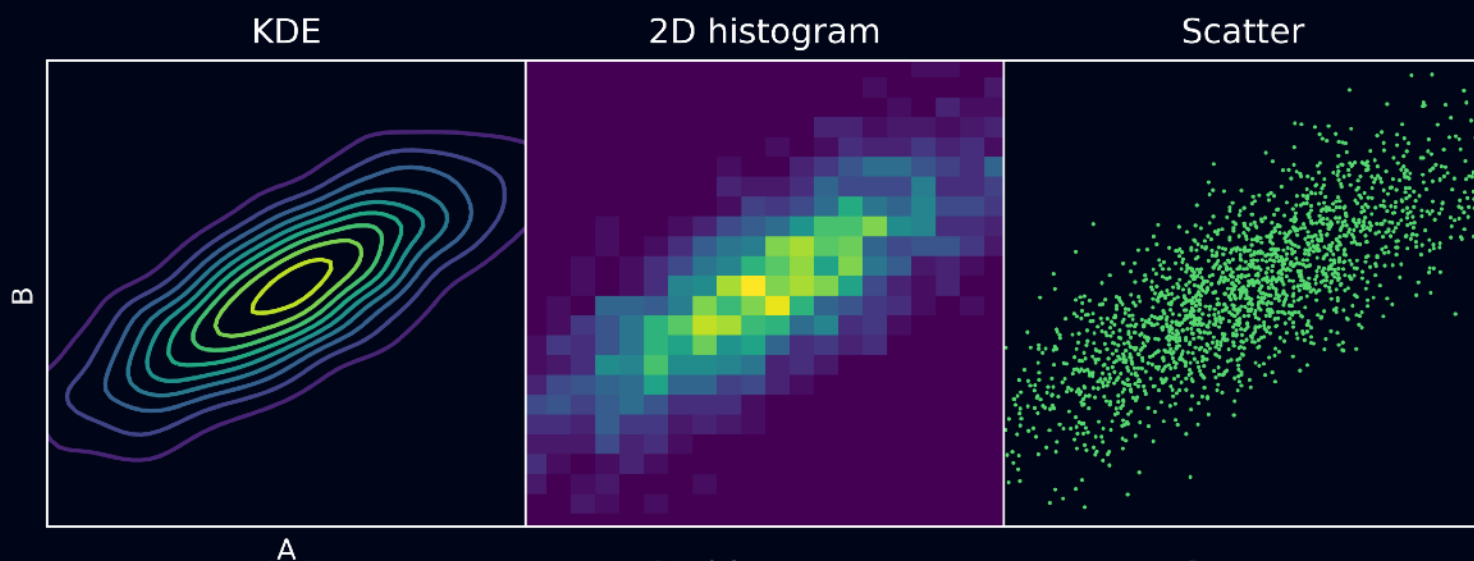### Box Plot

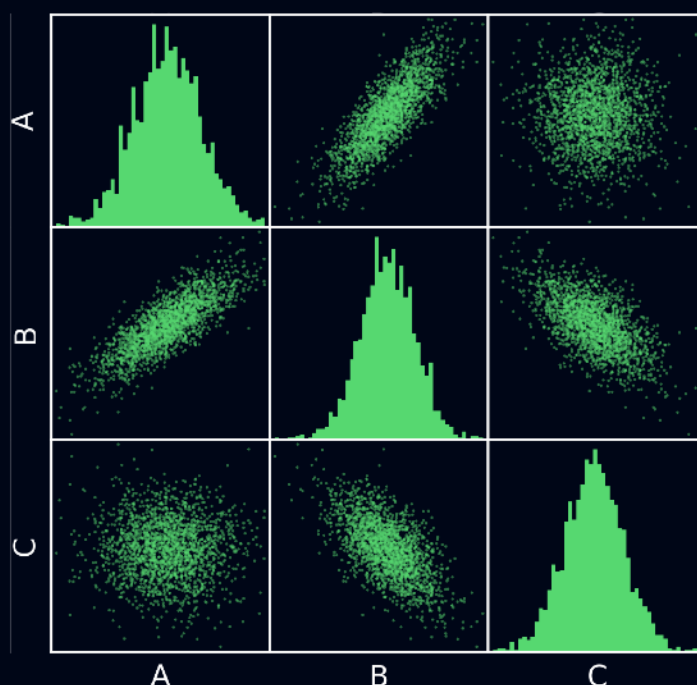

x

Dataset

ECDF

Legend:
- Data 1
- Data 2

CDF

X

Multi-dimensional exploration

KDE plots create smoothed contours. 2D histograms alow visualising raw high density data Scatter plots are great for seeing small details

A correlation matrix for variable correlations.

Pandas scatter matrix is great for quickly getting scatter plots, and histograms. You can also make them KDEs with an option!