

# Basic Descriptive Statistics and Data Visualization Cheat Sheet

## Single Variable - Explore the distribution

	Statistics	Visualization
Categorical Variable	Counts	Bar chart
Quantitative Variable	5-number summary	Histogram

## Two Variables - Explore the relationship

	Statistics	Visualization
Categorical Variables	Contingency table (Cross tabulation)	Grouped bar chart
Quantitative Variables	Correlation	Scatter plot
Mixed Variables	Group-wise statistics (e.g., average)	Box plot Bar chart of statistics

## 3+ Variables

Break it down into pairwise statistics or plots.  
E.g., Correlation matrix, scatter plot matrix, box plot.