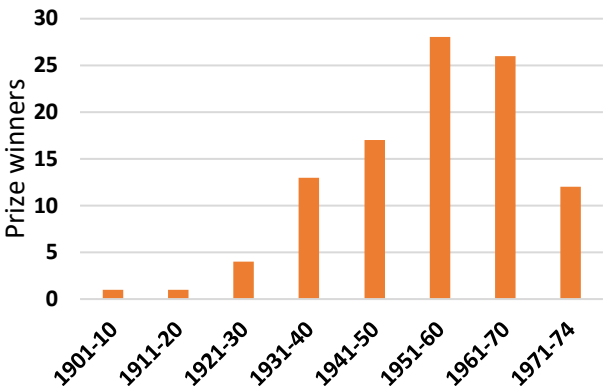# The Foundational Four: Charts and Graphs for Data Storytelling
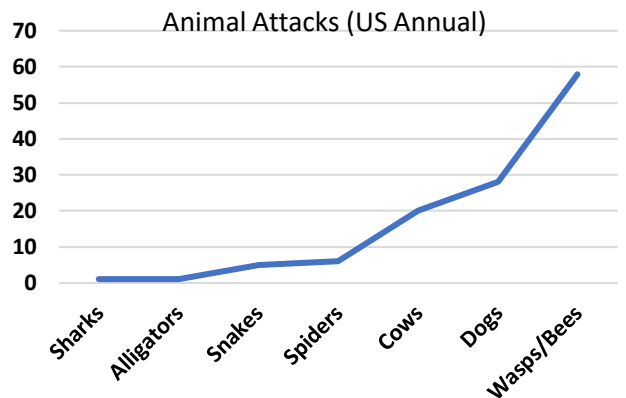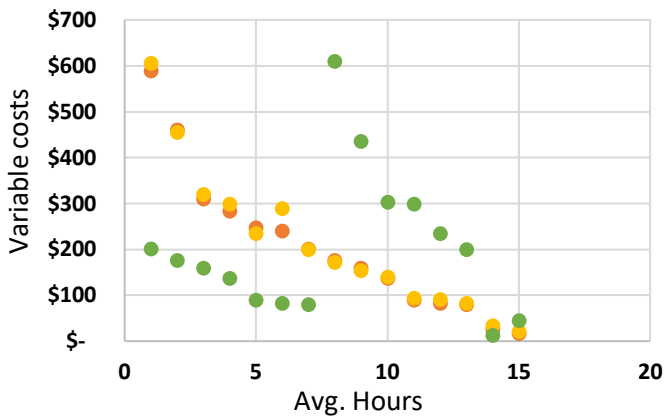
Bar Graphs

- Versatile and easily understood
- Compare distinct categories of data
- Show trends over time between groups of data
- Consider horizontal bars if ten or more items

Line Graphs

- Convey precise data
- Are useful in quick analysis of change/progress over time
- Best when range of data is continuous and small (no more than four lines)

Animal Attacks (US Annual)

Scatter Plots

- Convey distribution of data
- Show the relationship between value sets
- Best for highlighting outlier data

Box and Whisker Charts

- Show spread or distribution of data in percentiles, medians, means, averages and skews
- Display distribution across four quartiles
- Normally used in advanced analytics