



Seeing Your Data Distributions



Brock Tubre

INSTRUCTOR

Distributions

Visualizing distributions in your data can show how your data is grouped or clustered over certain intervals.

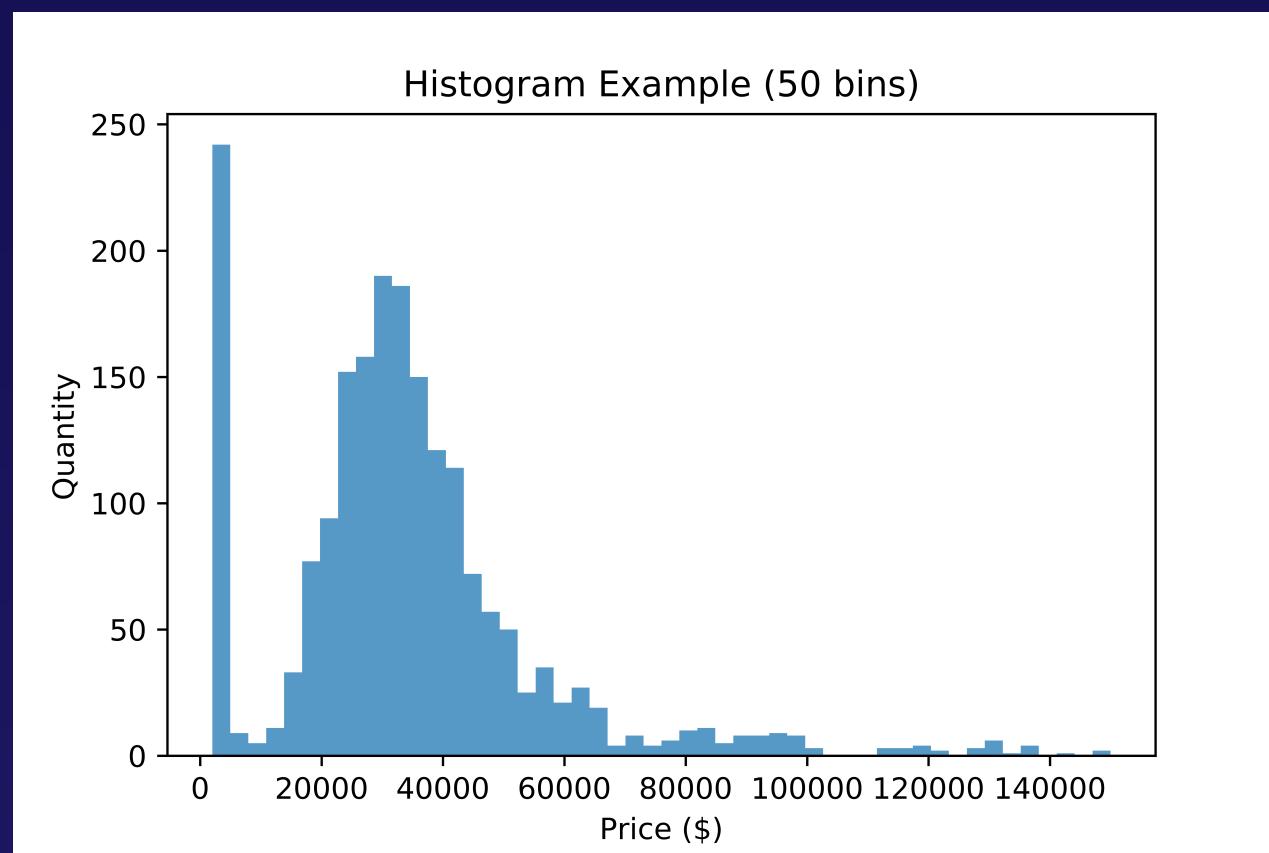


Seeing Your Data - Distributions

1

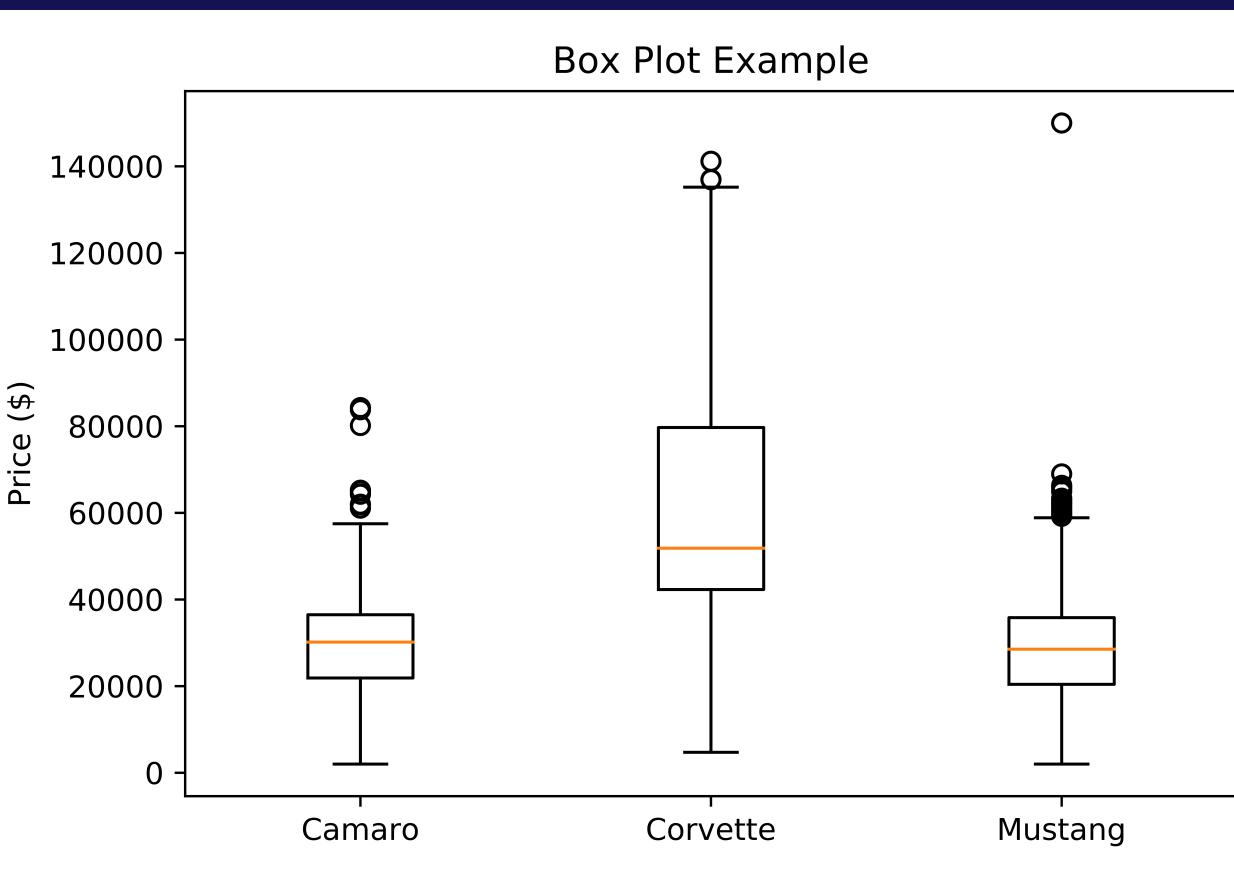
Histograms

These graphs put values into buckets or bins and determines a measurement (amount, frequency, duration, density, etc).

**2**

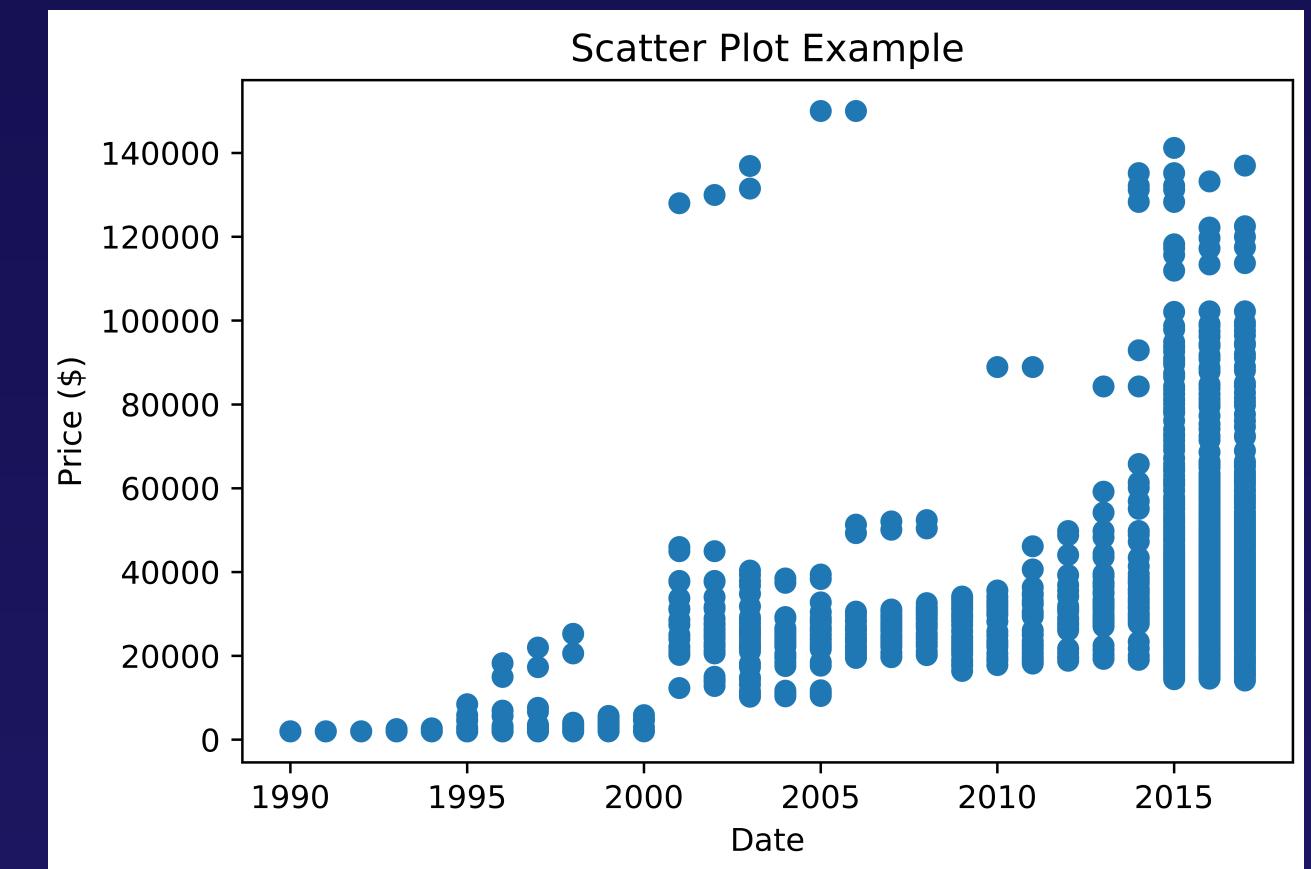
Box Plots

These graphs show a wealth of distribution information. You can see things like lowest and highest values, outliers and where most of the values fall.

**3**

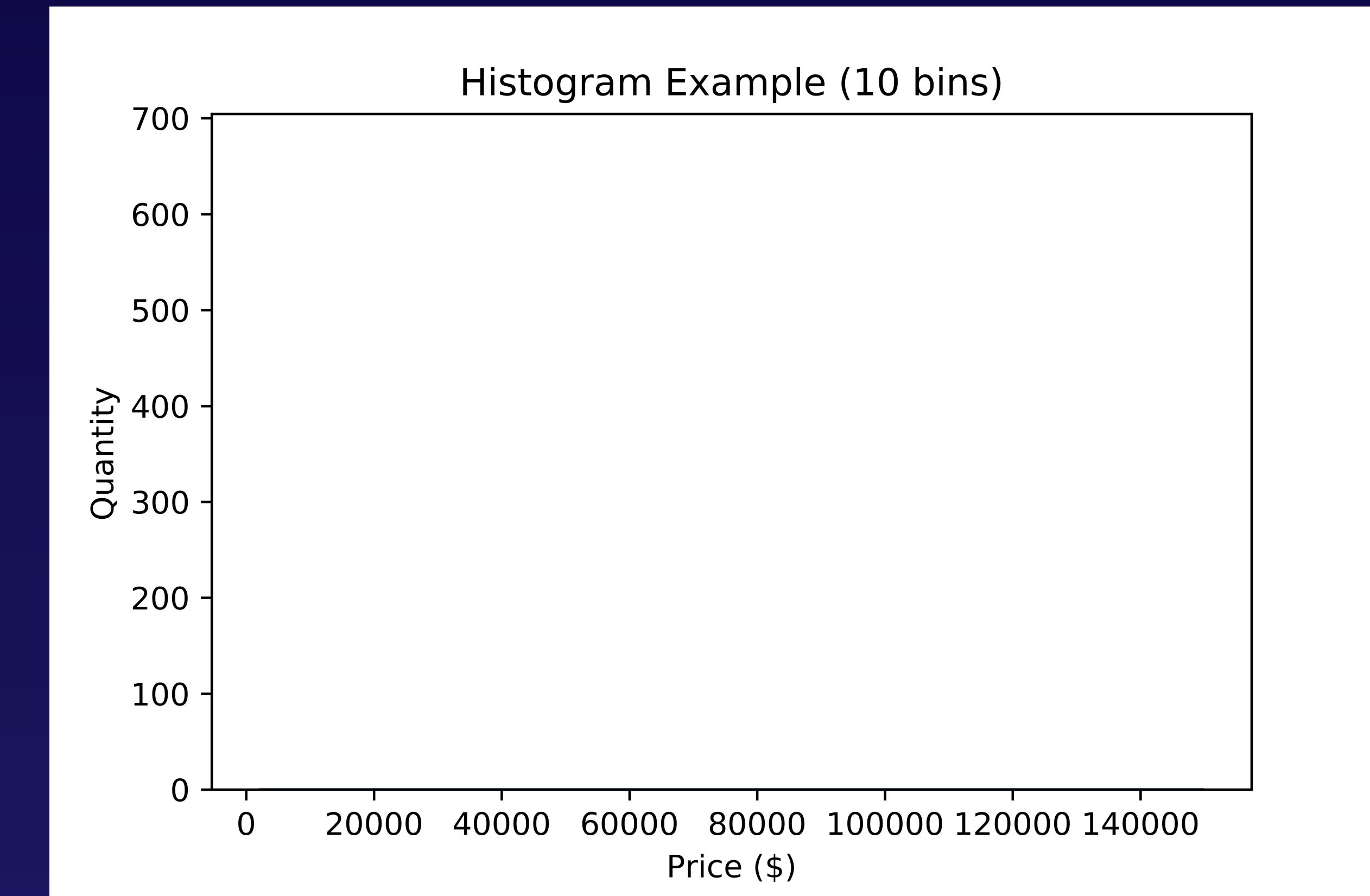
Scatter Plots

Also known as scatter charts. These graphs plot points along the x and y axis for two values. Can show clustering and distribution of your data.



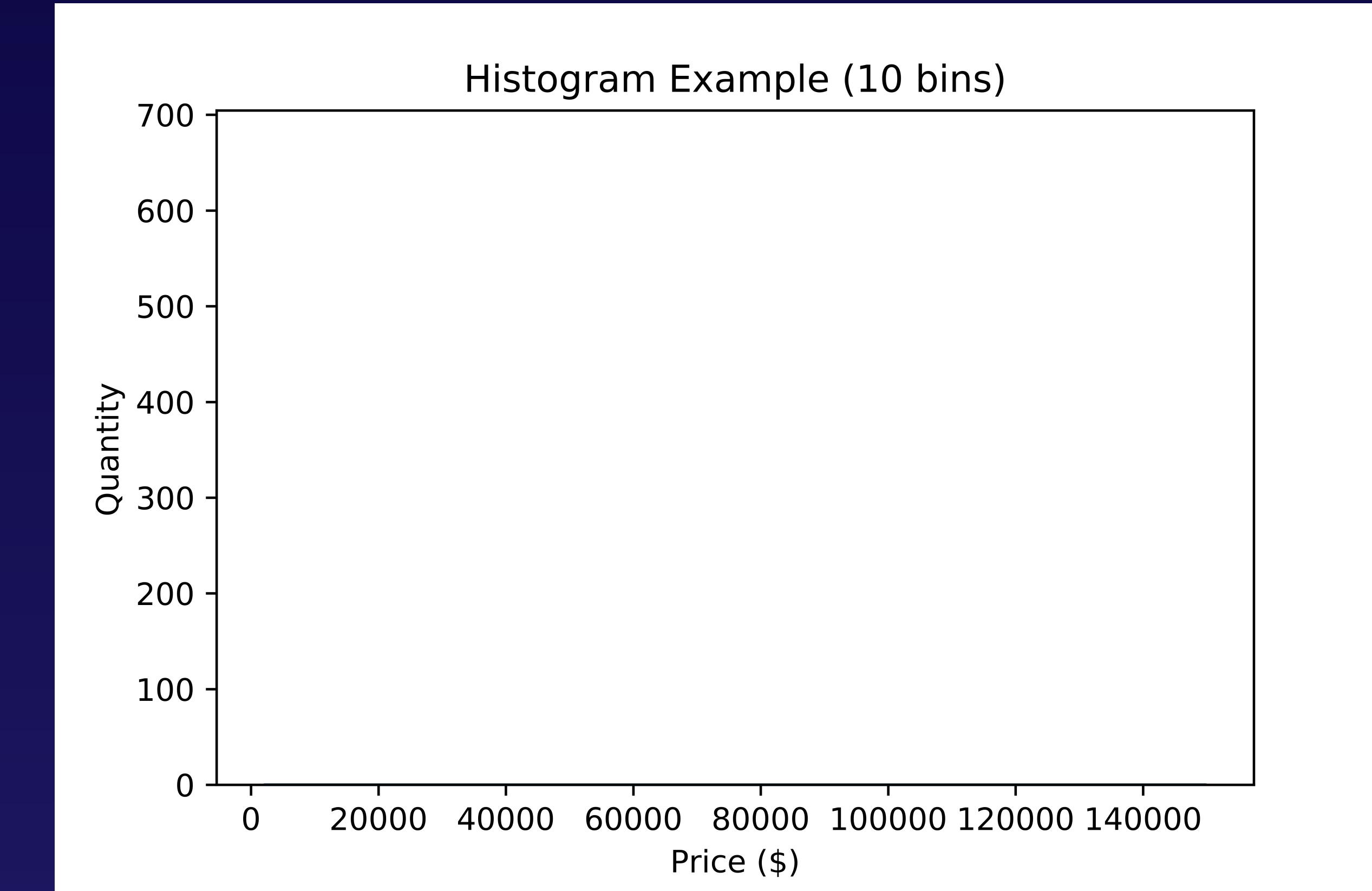
Histograms

car	price	date
mustang	26395	02/2018
corvette	42500	03/2018
mustang	25900	01/2017
camaro	25125	10/2018
corvette	41700	04/2017
camaro	23680	01/2019
...

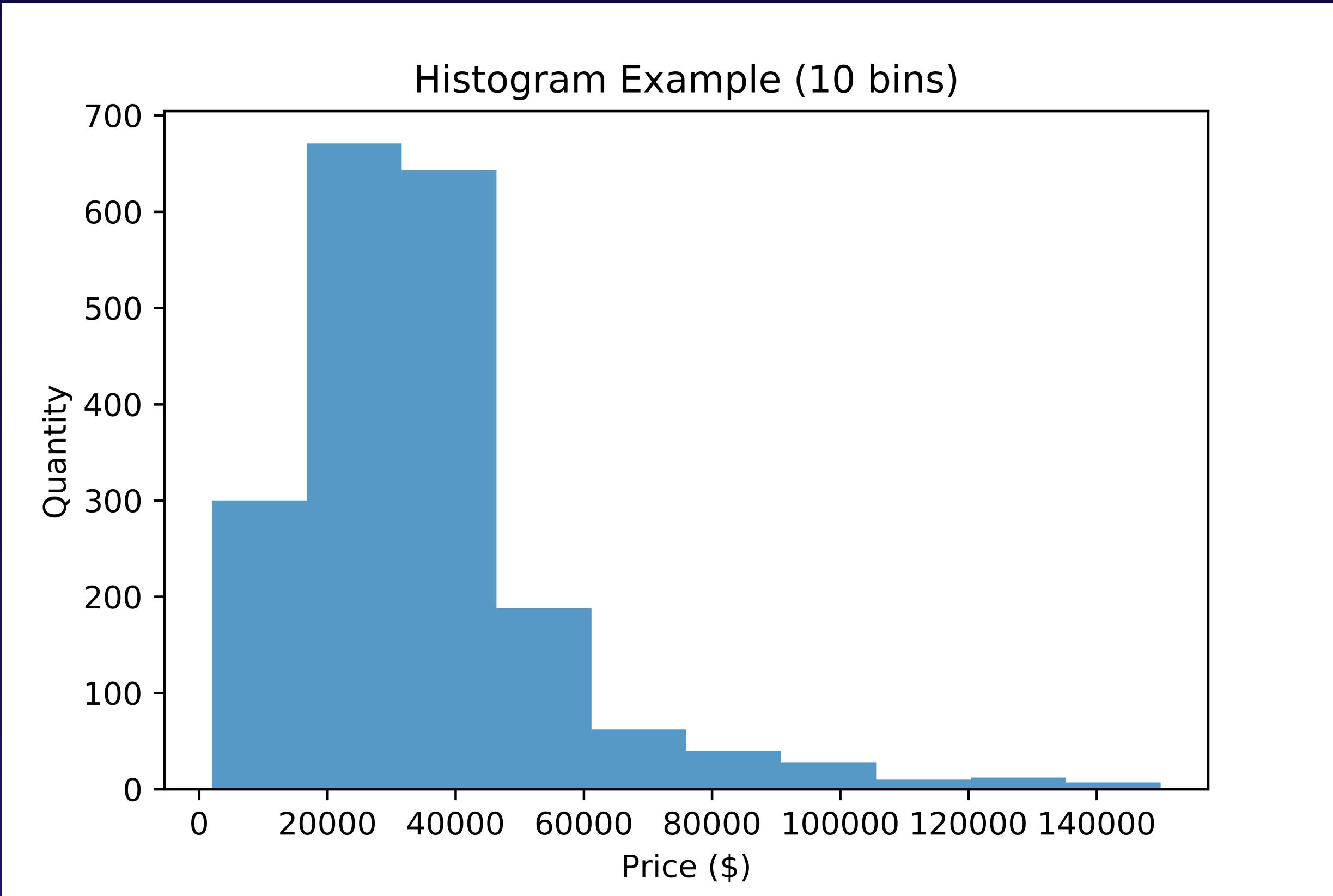


Histograms

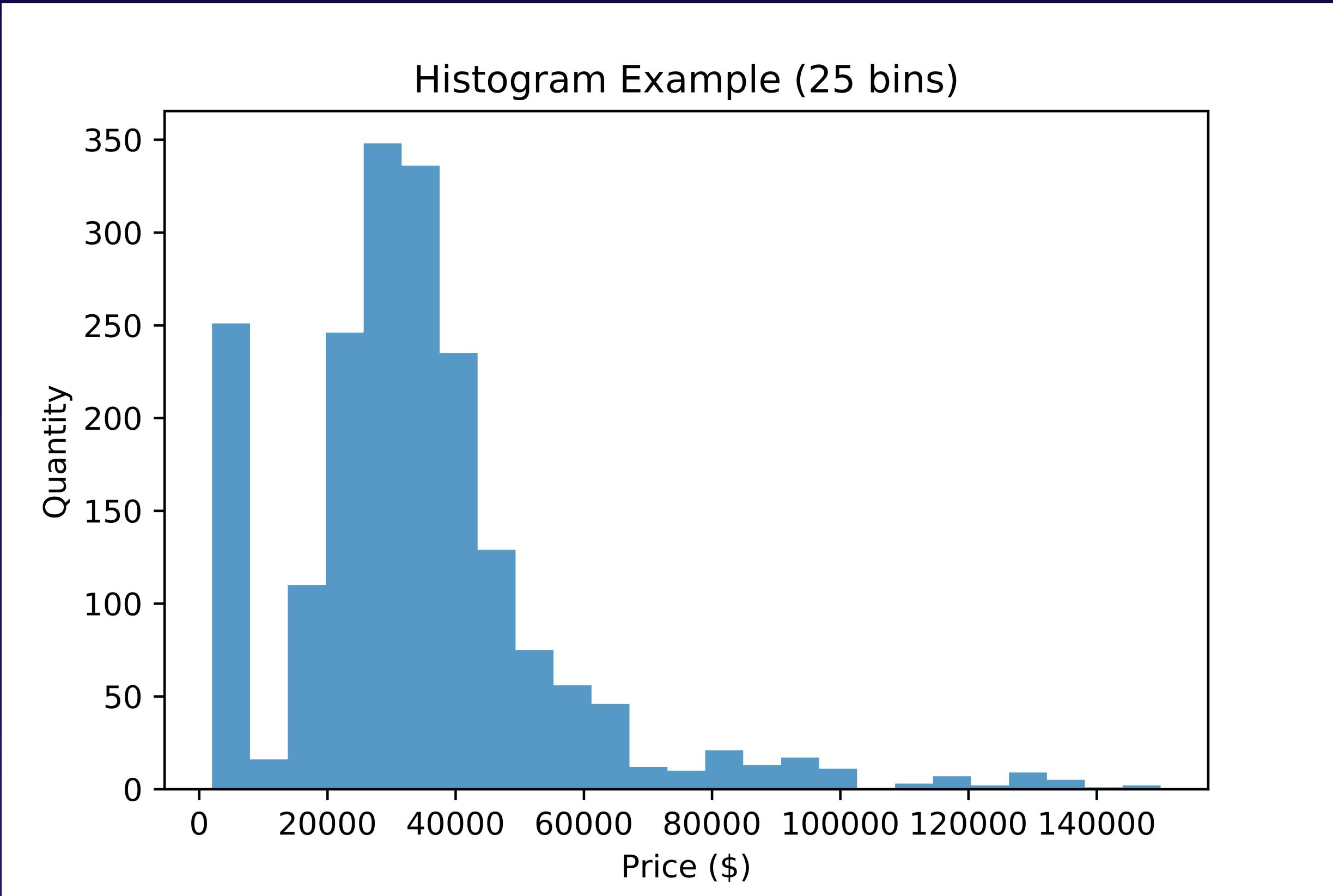
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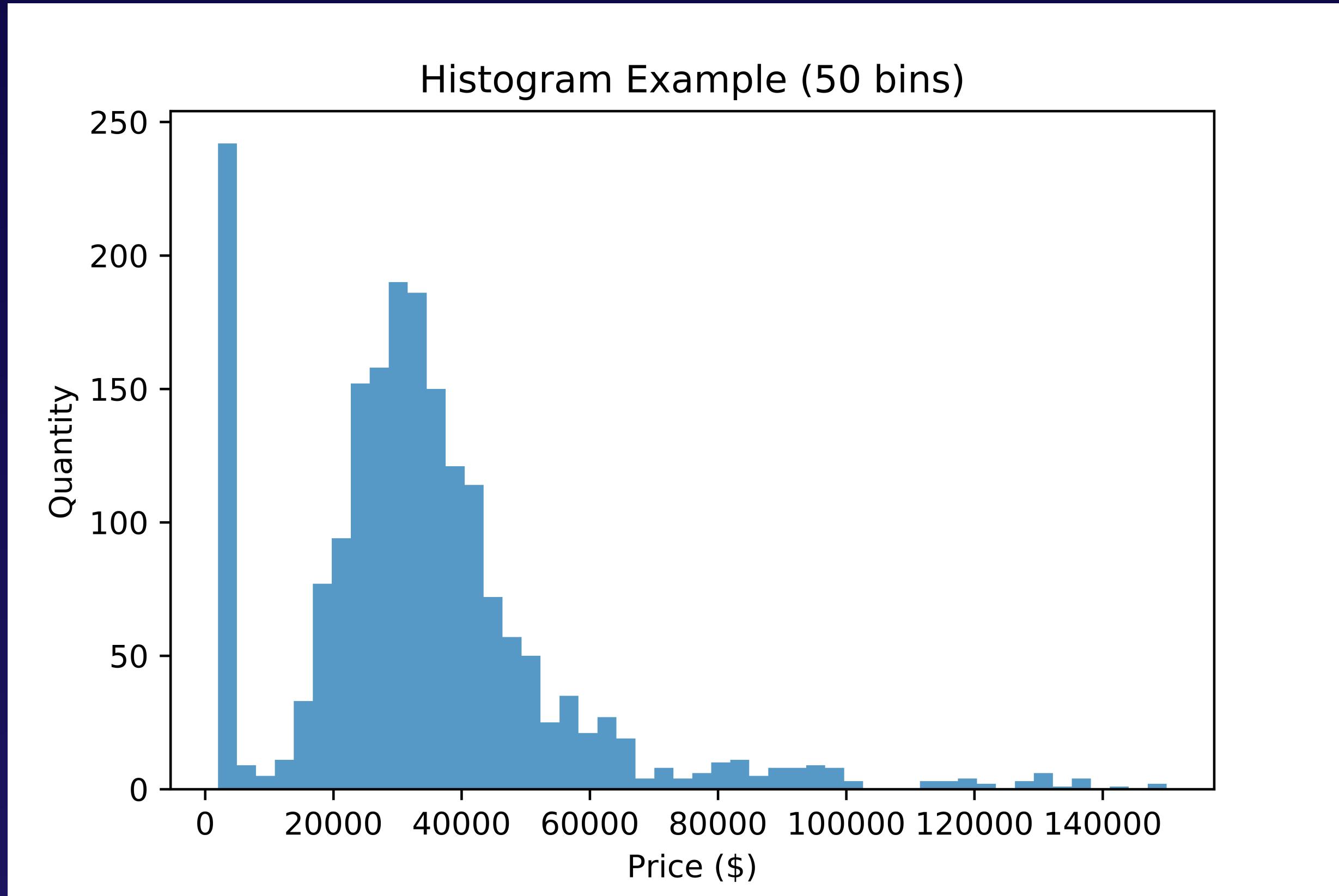
Histograms



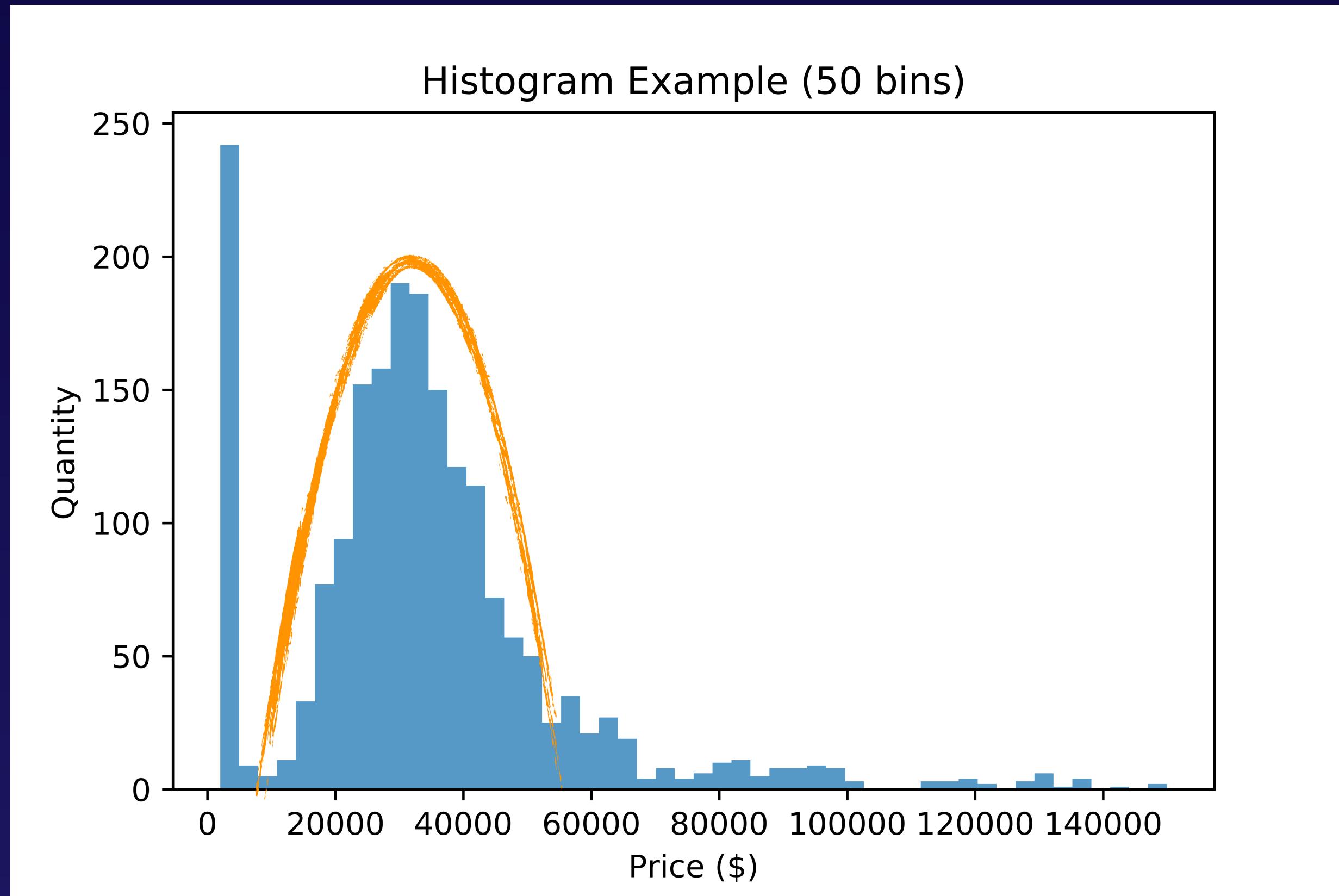
Histograms



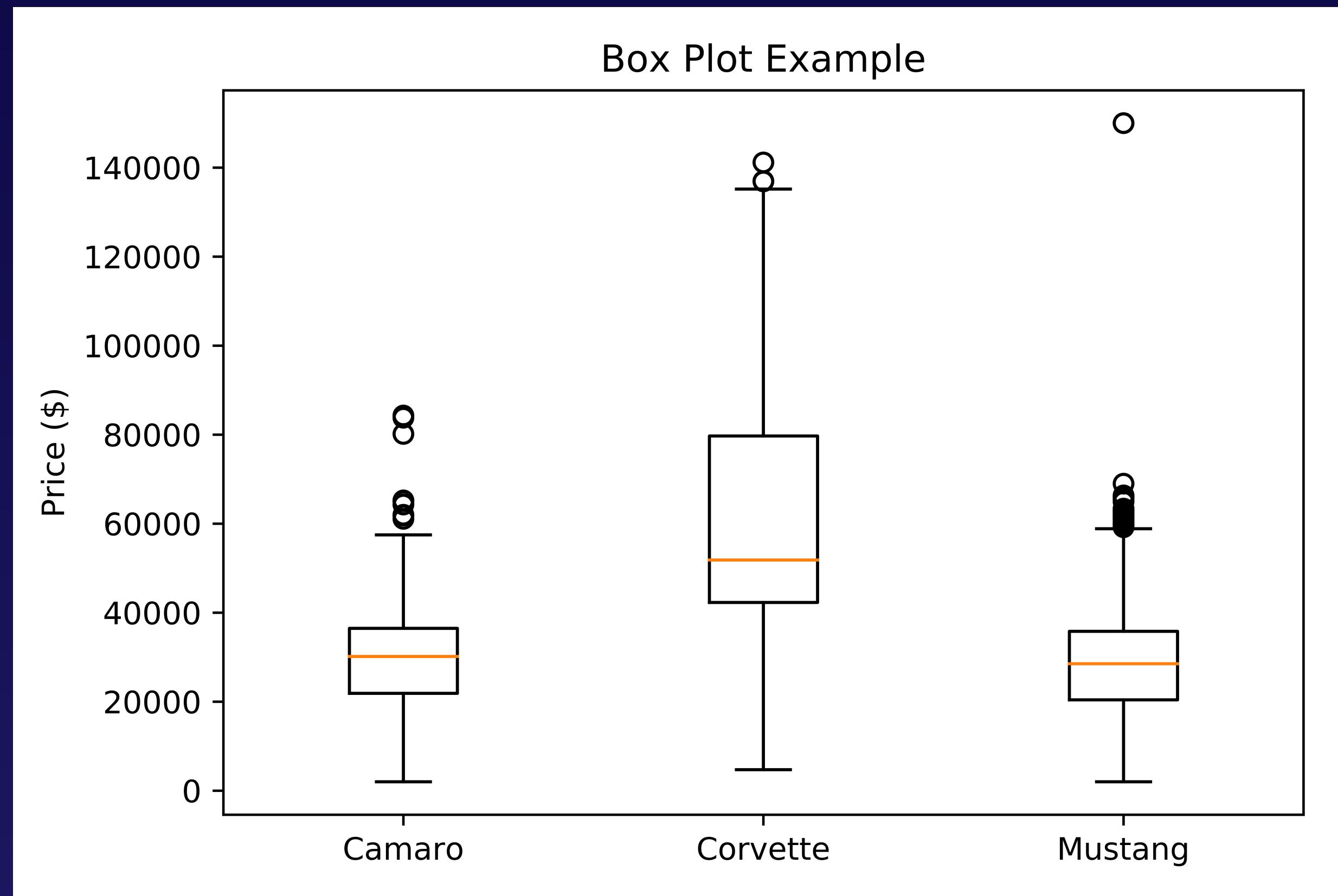
Histograms



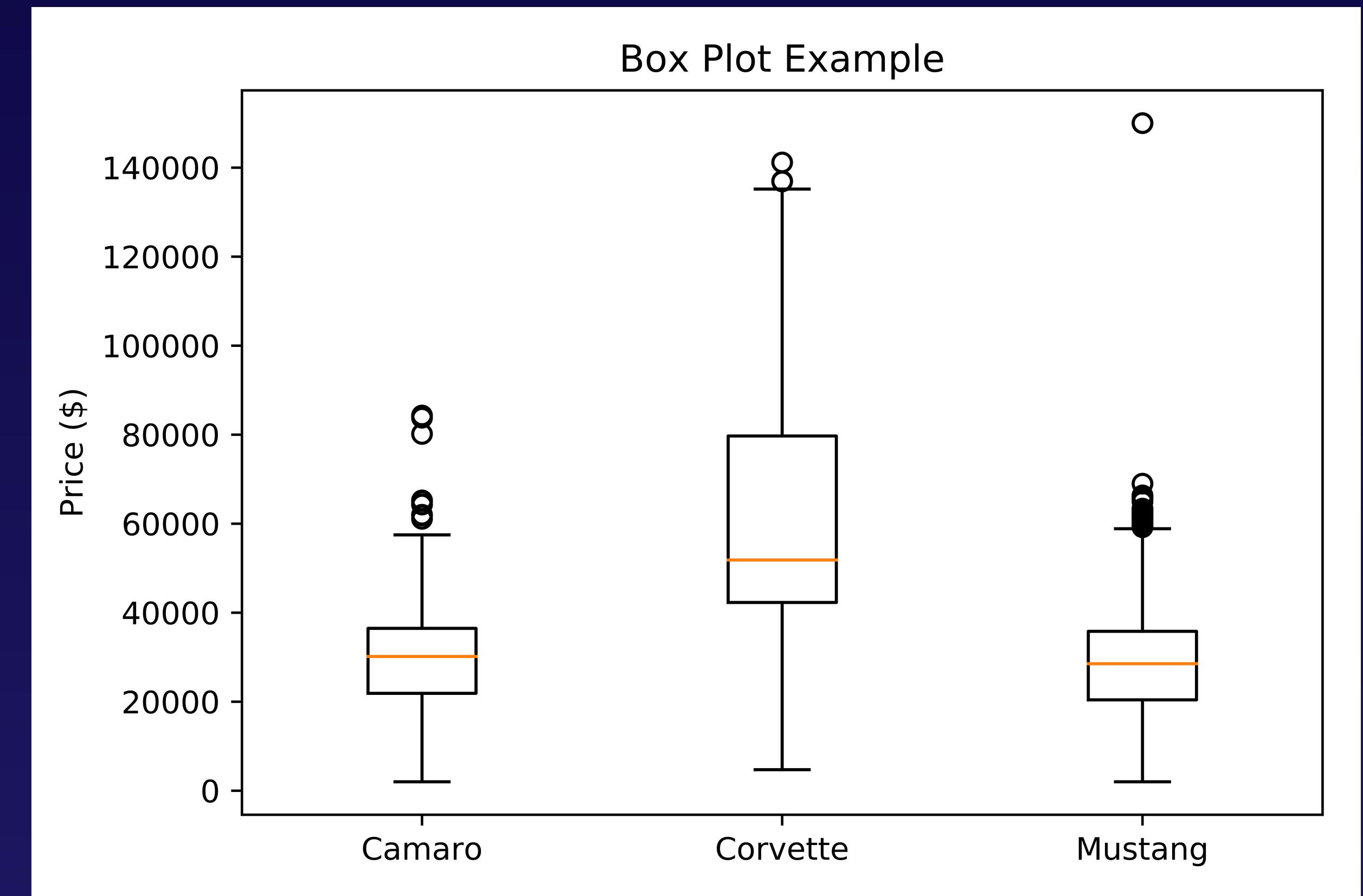
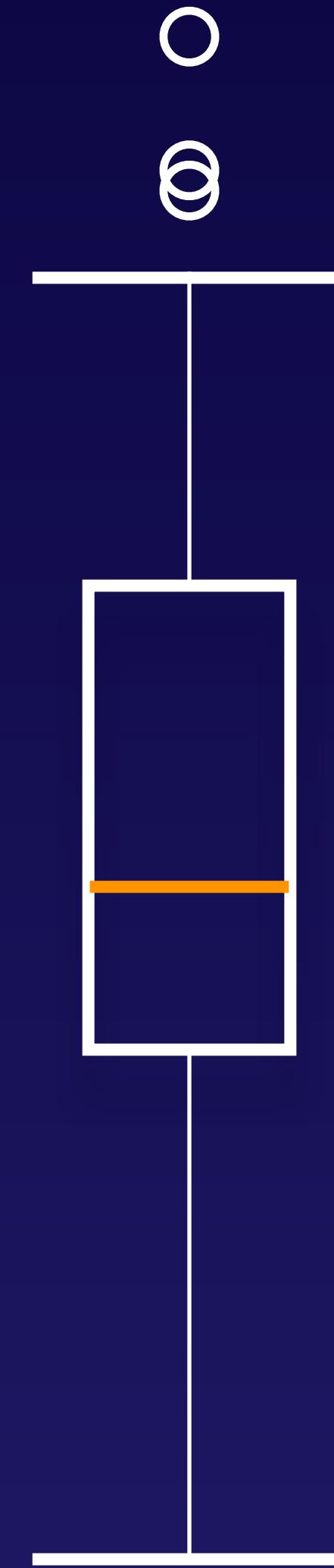
Histograms



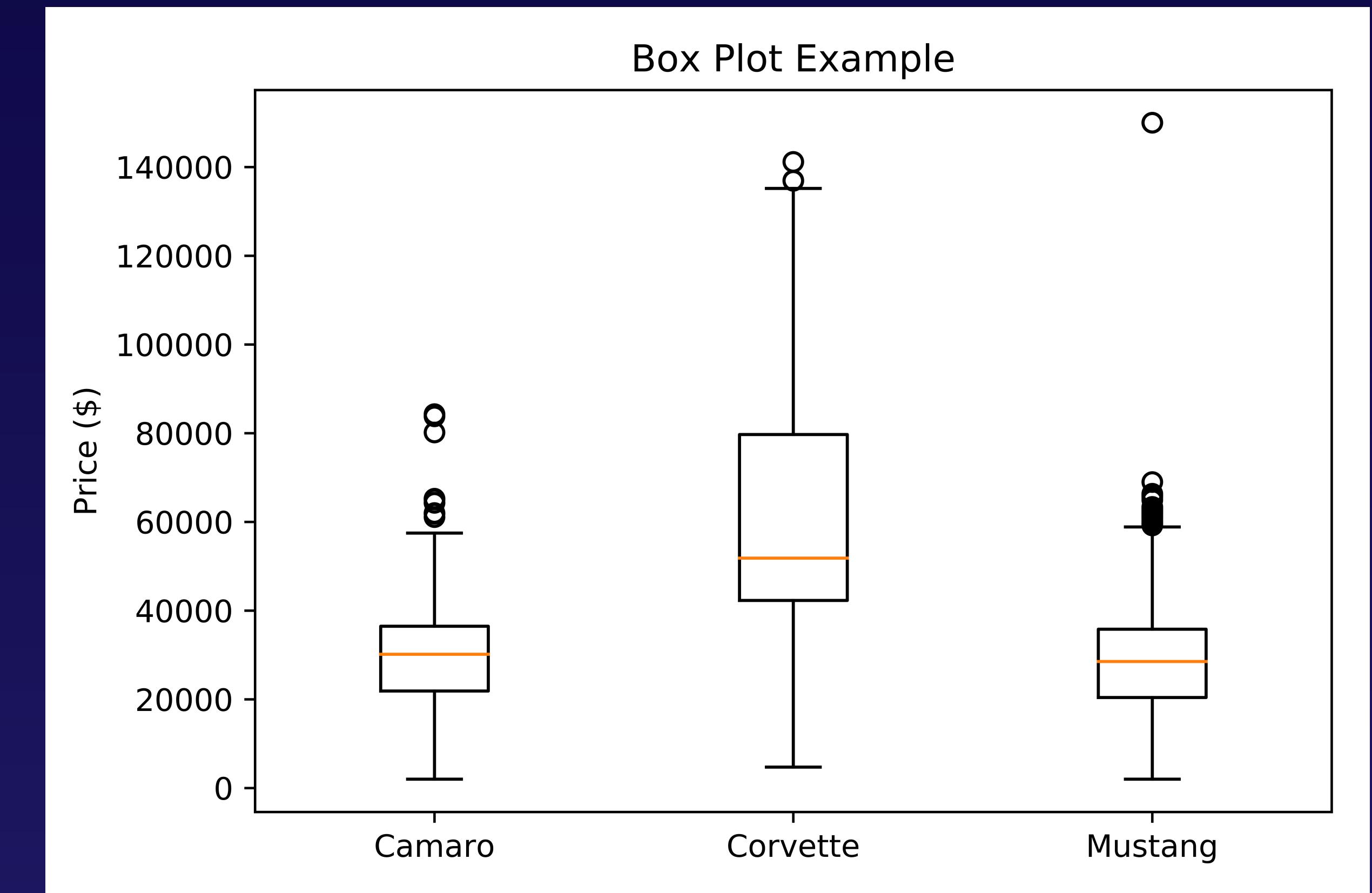
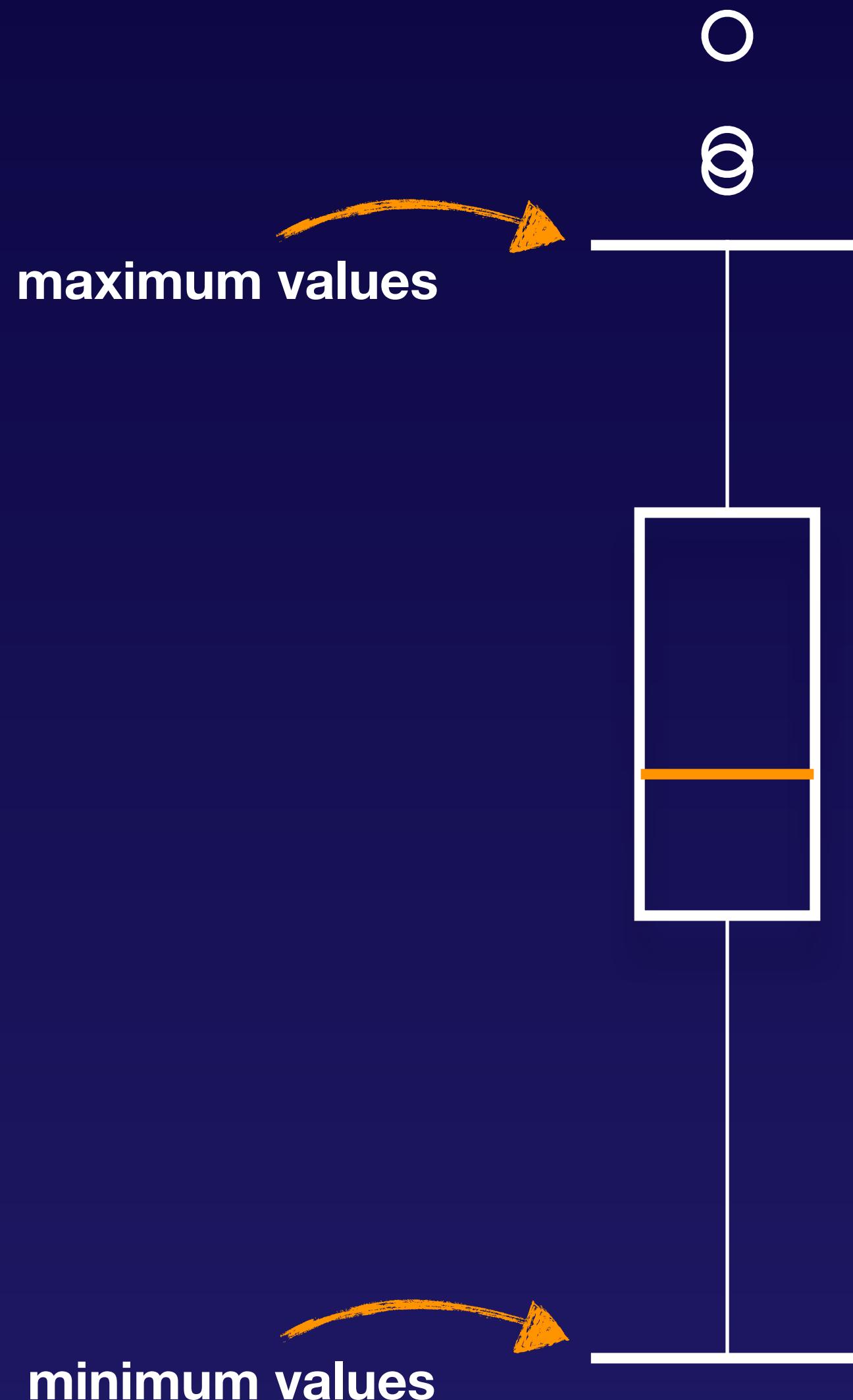
Box Plots



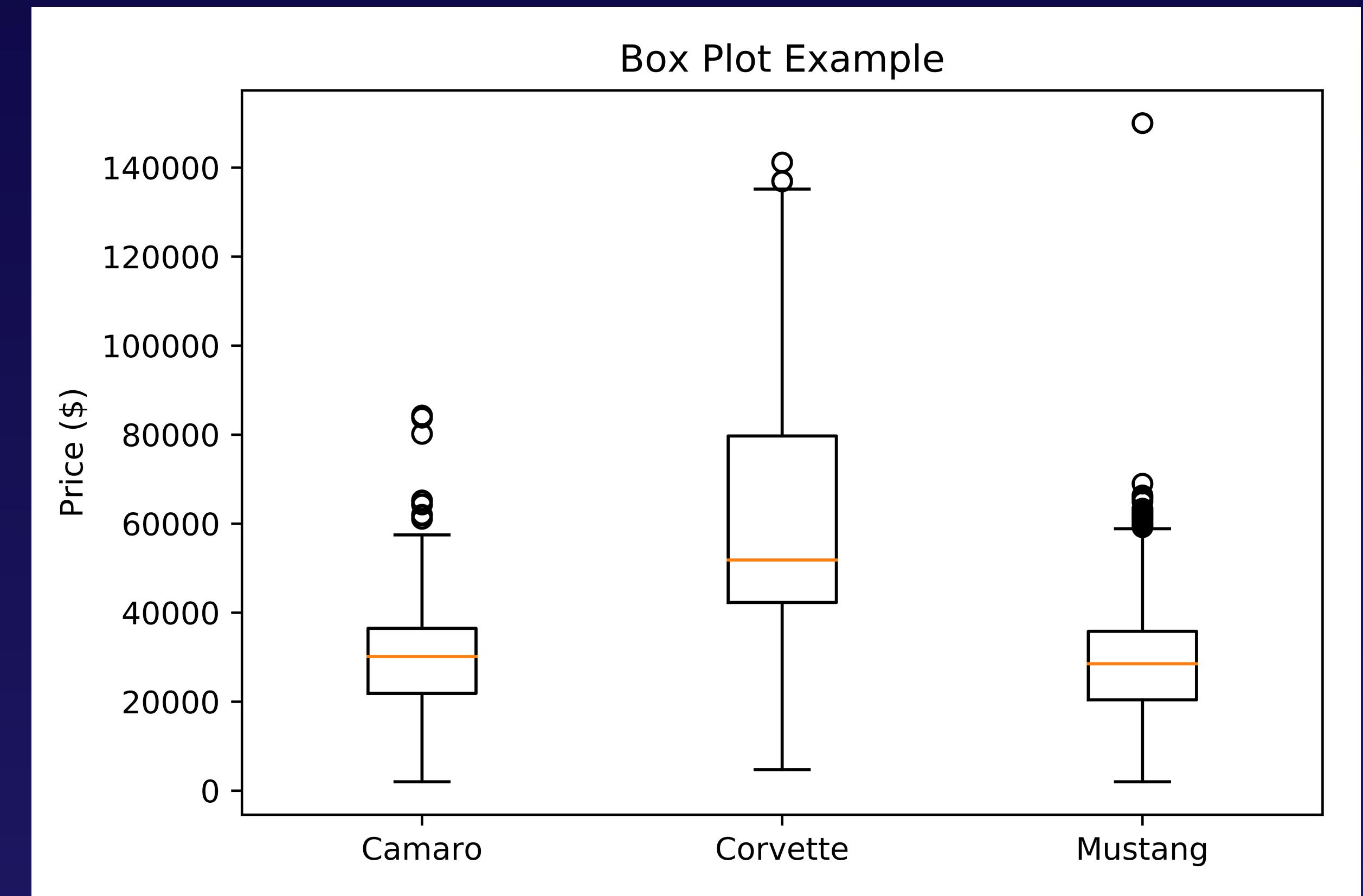
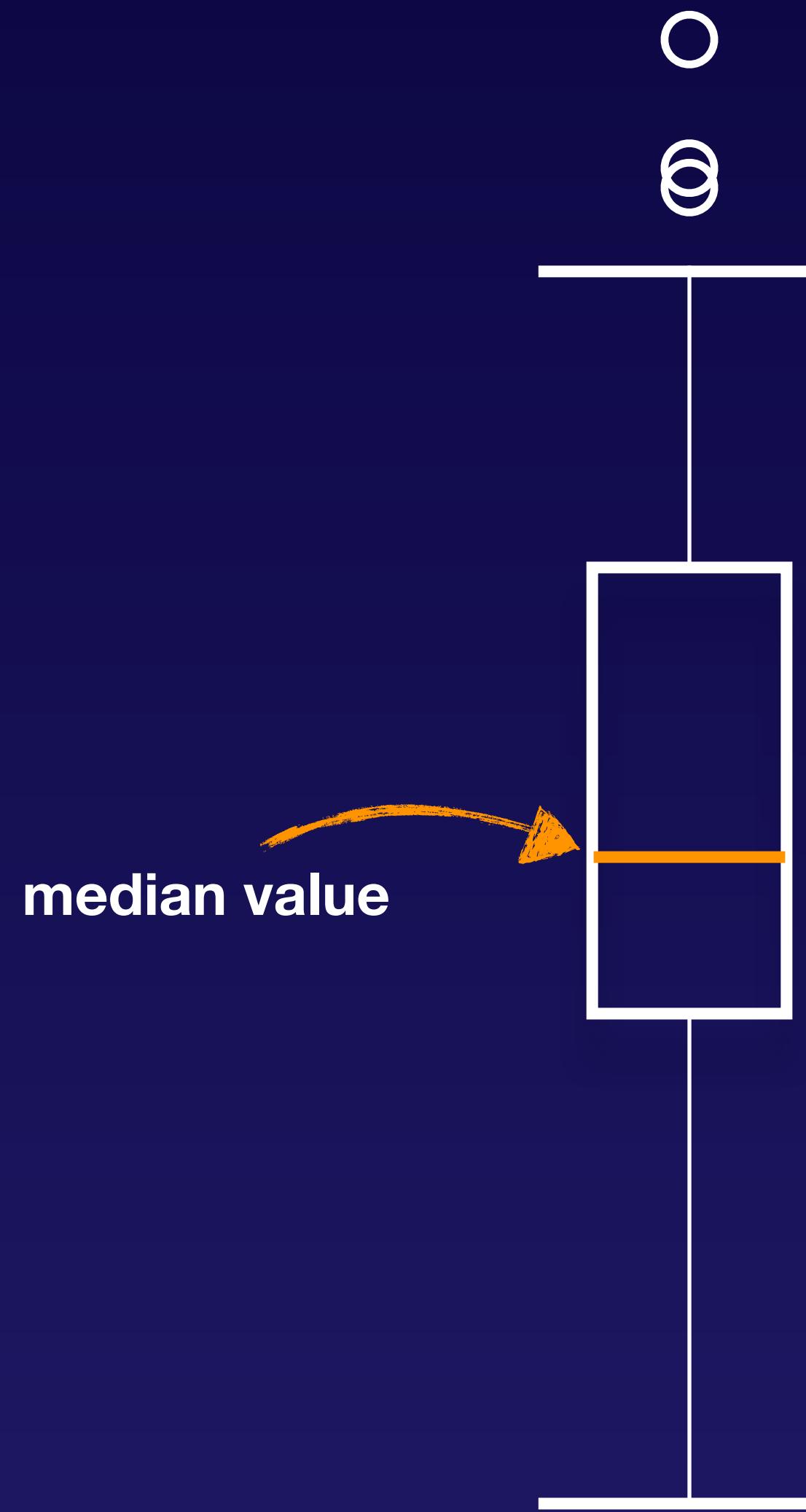
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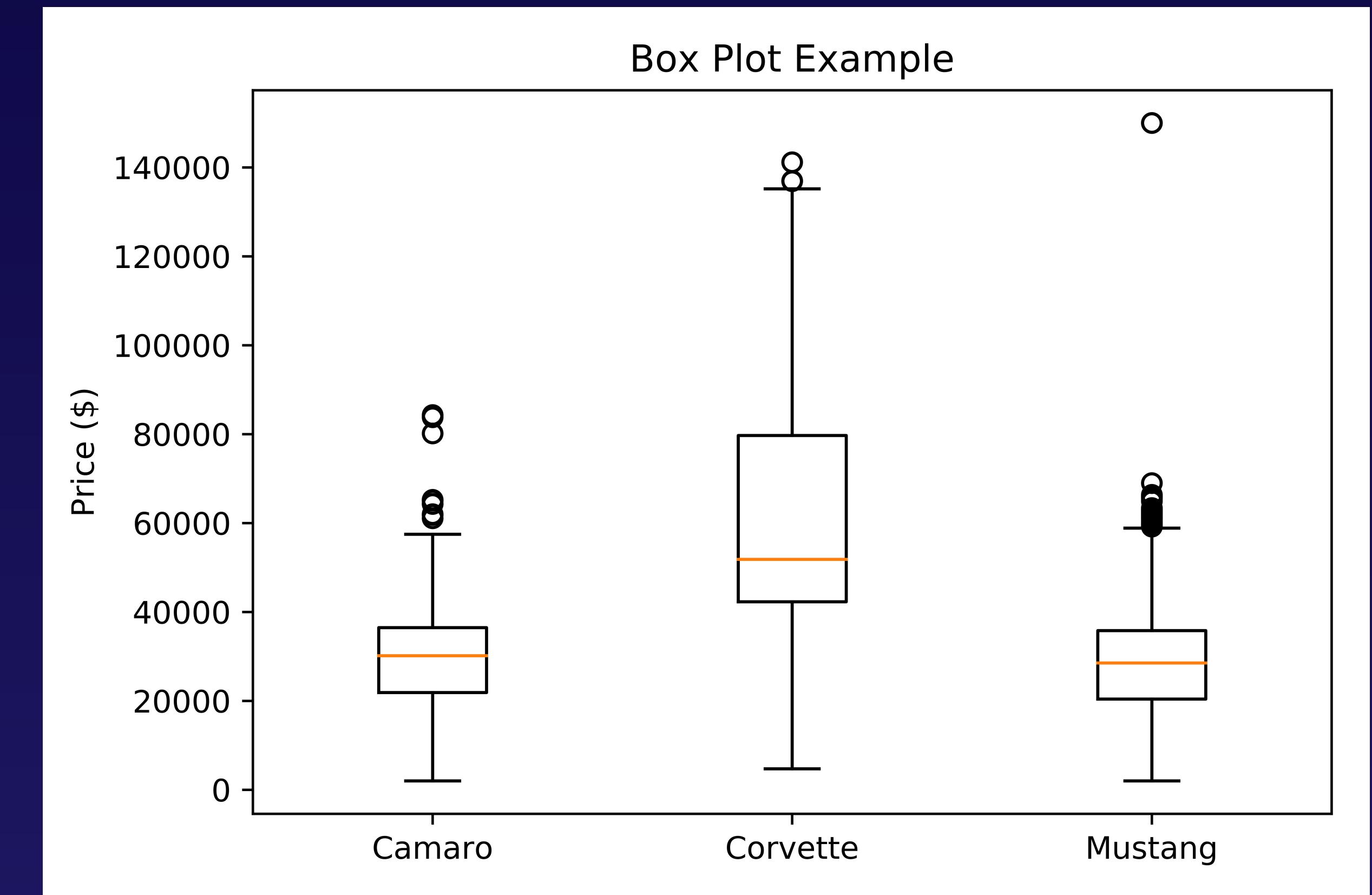
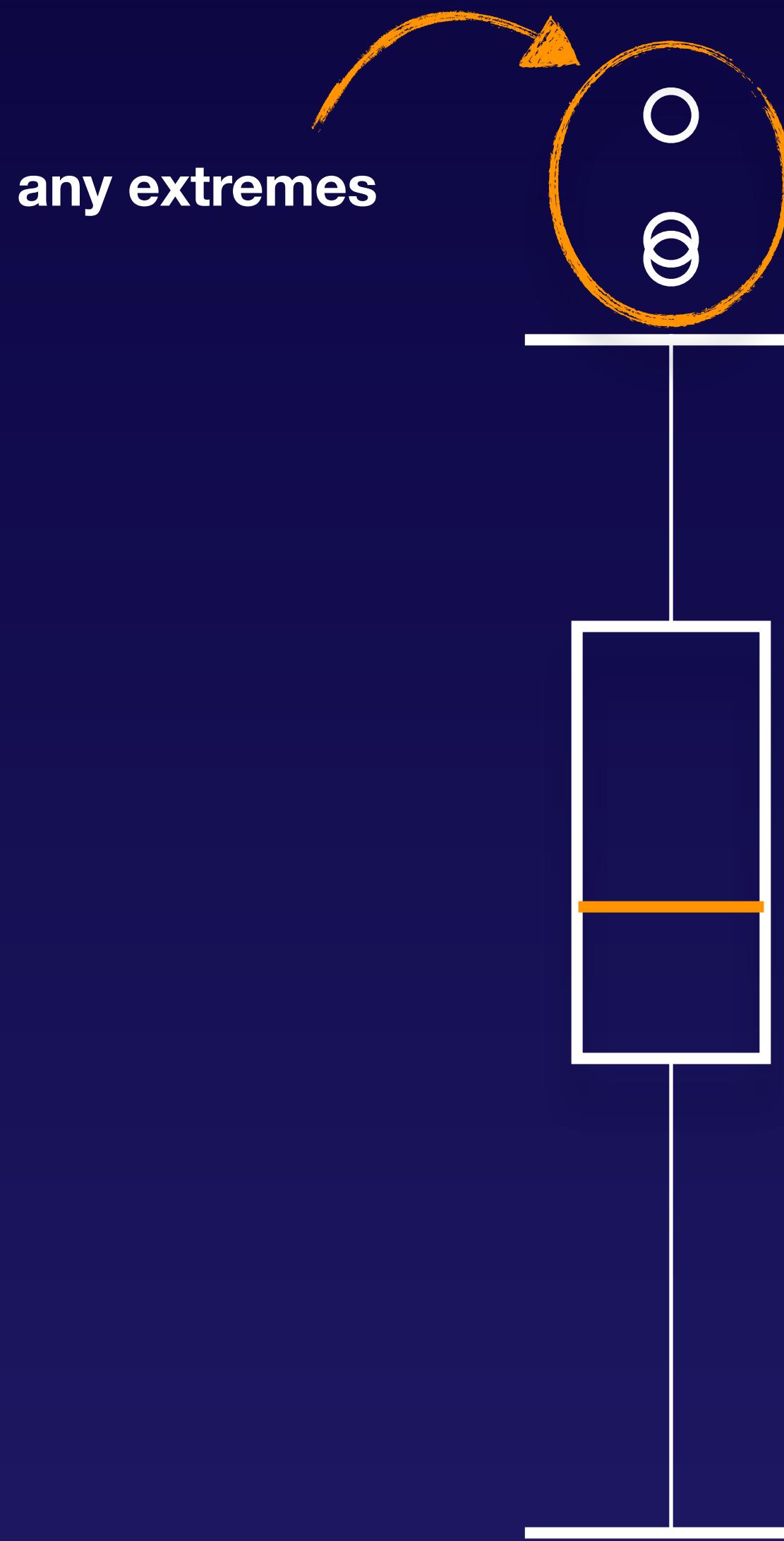
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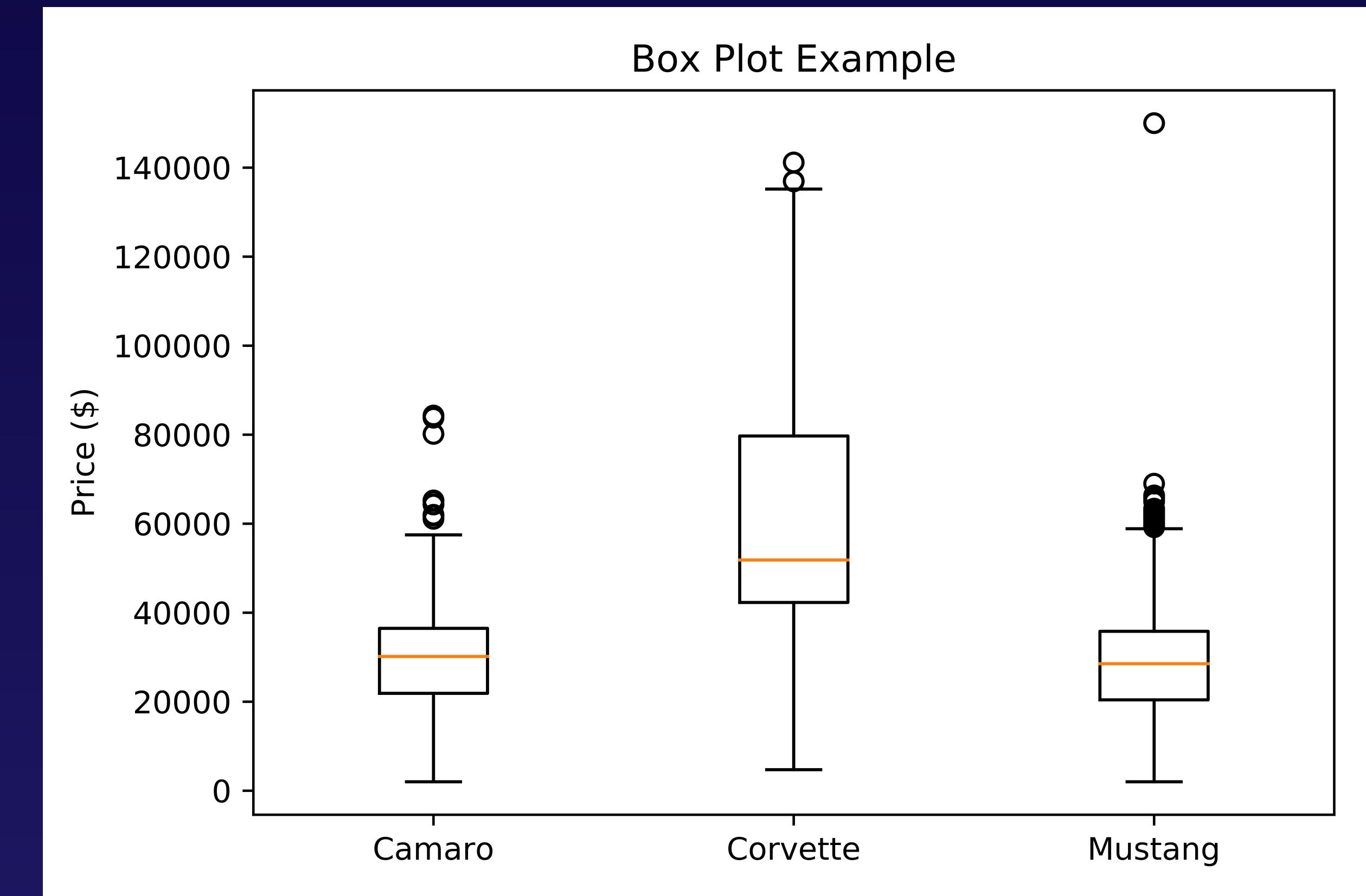
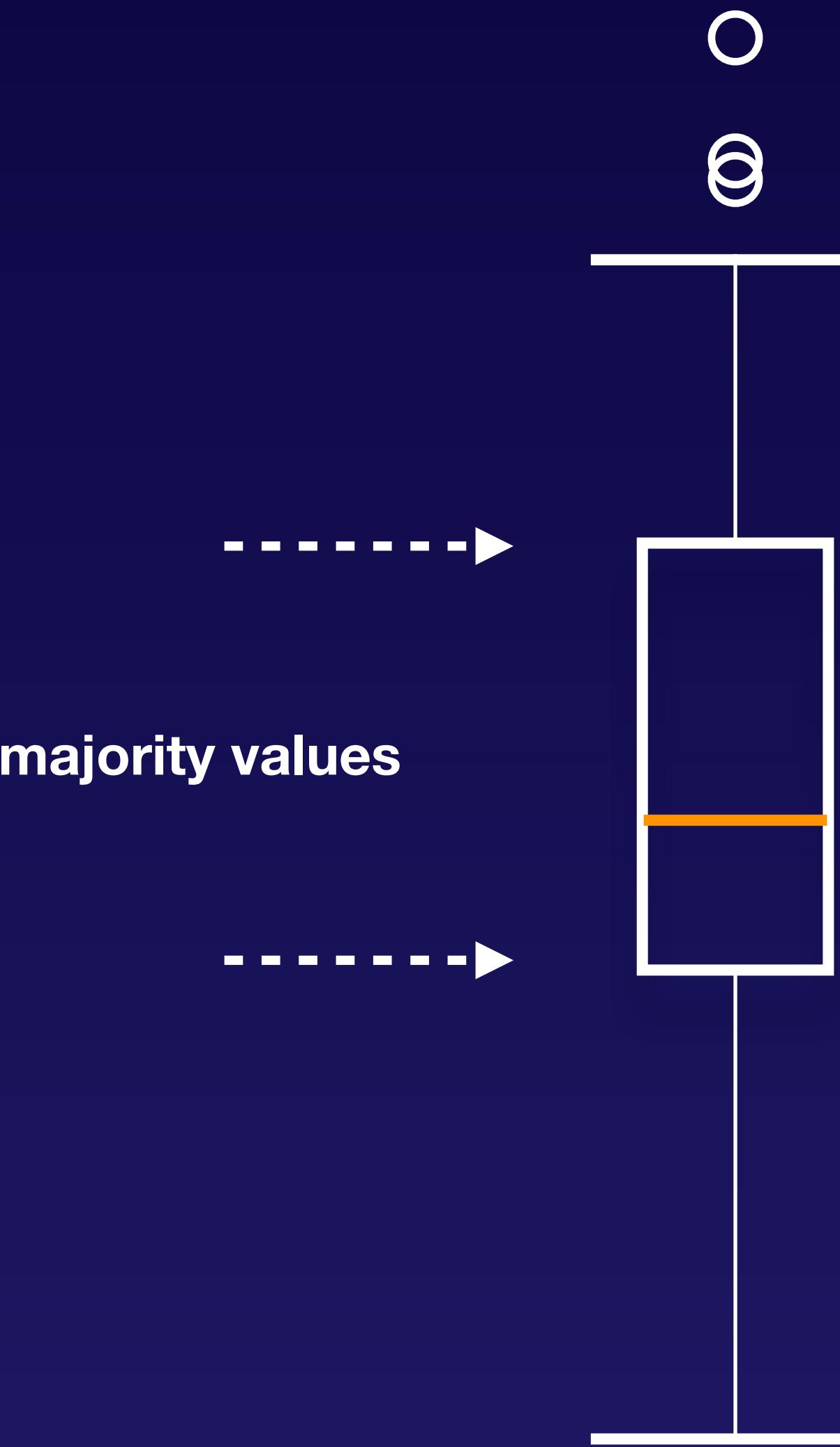
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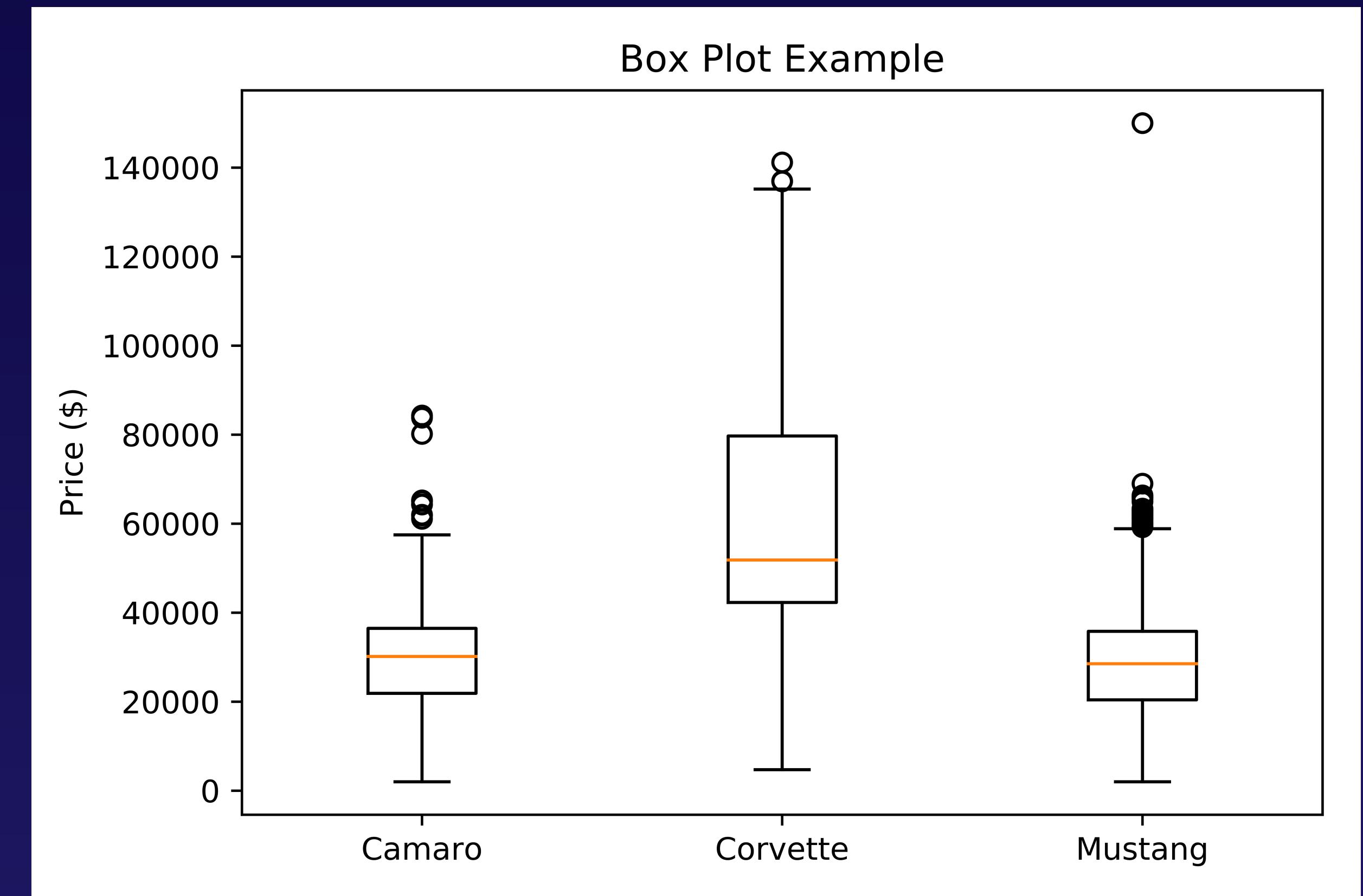
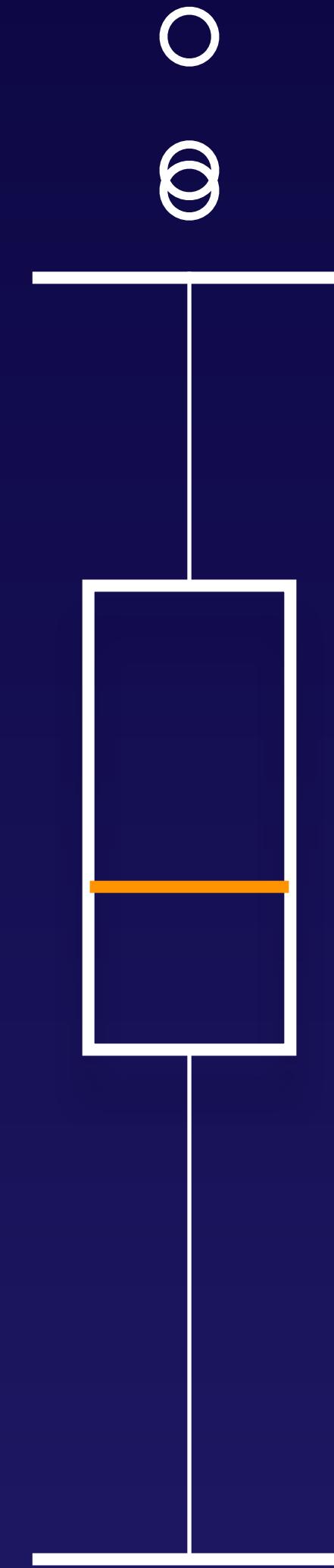
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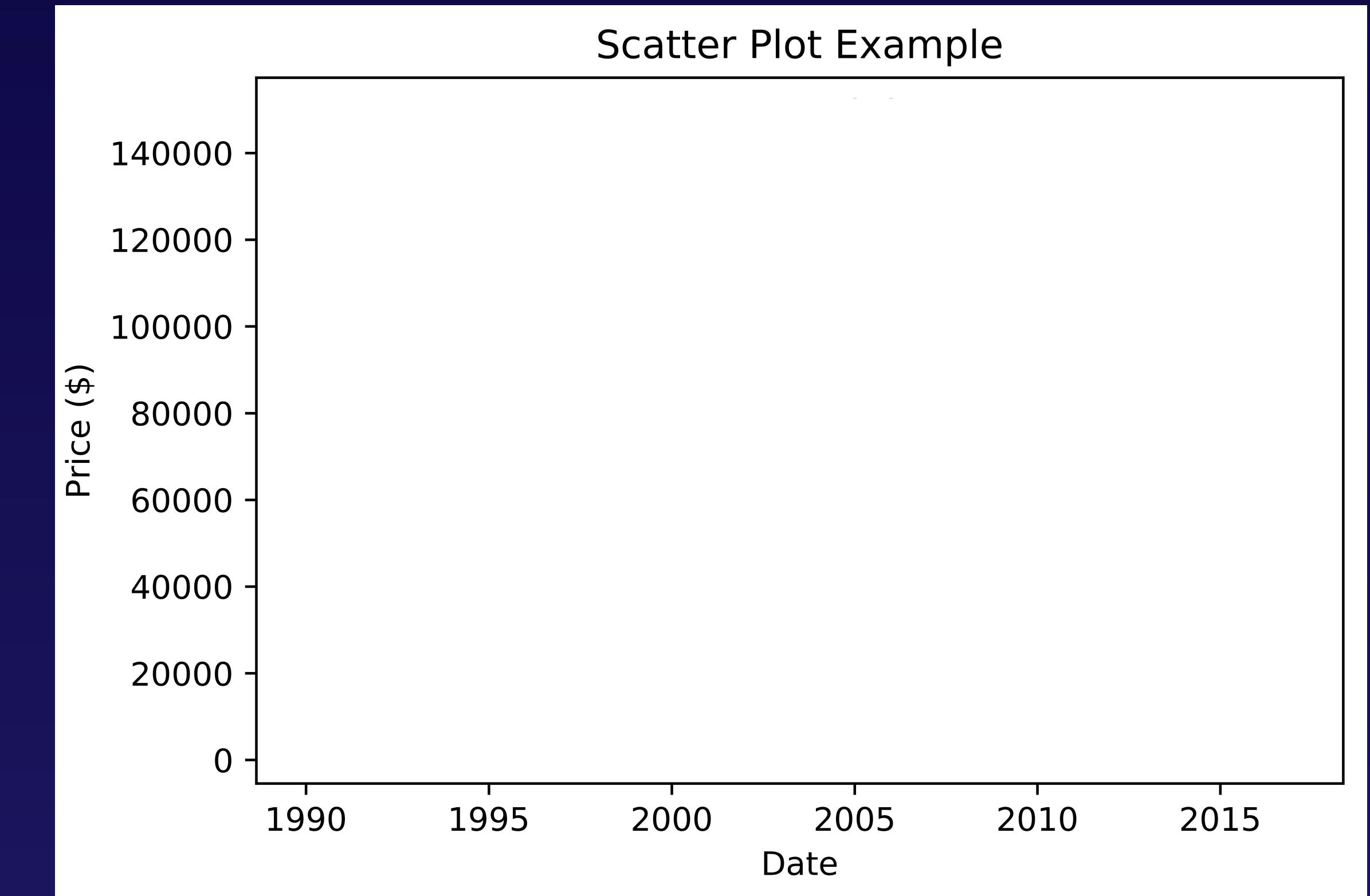


Box Plots

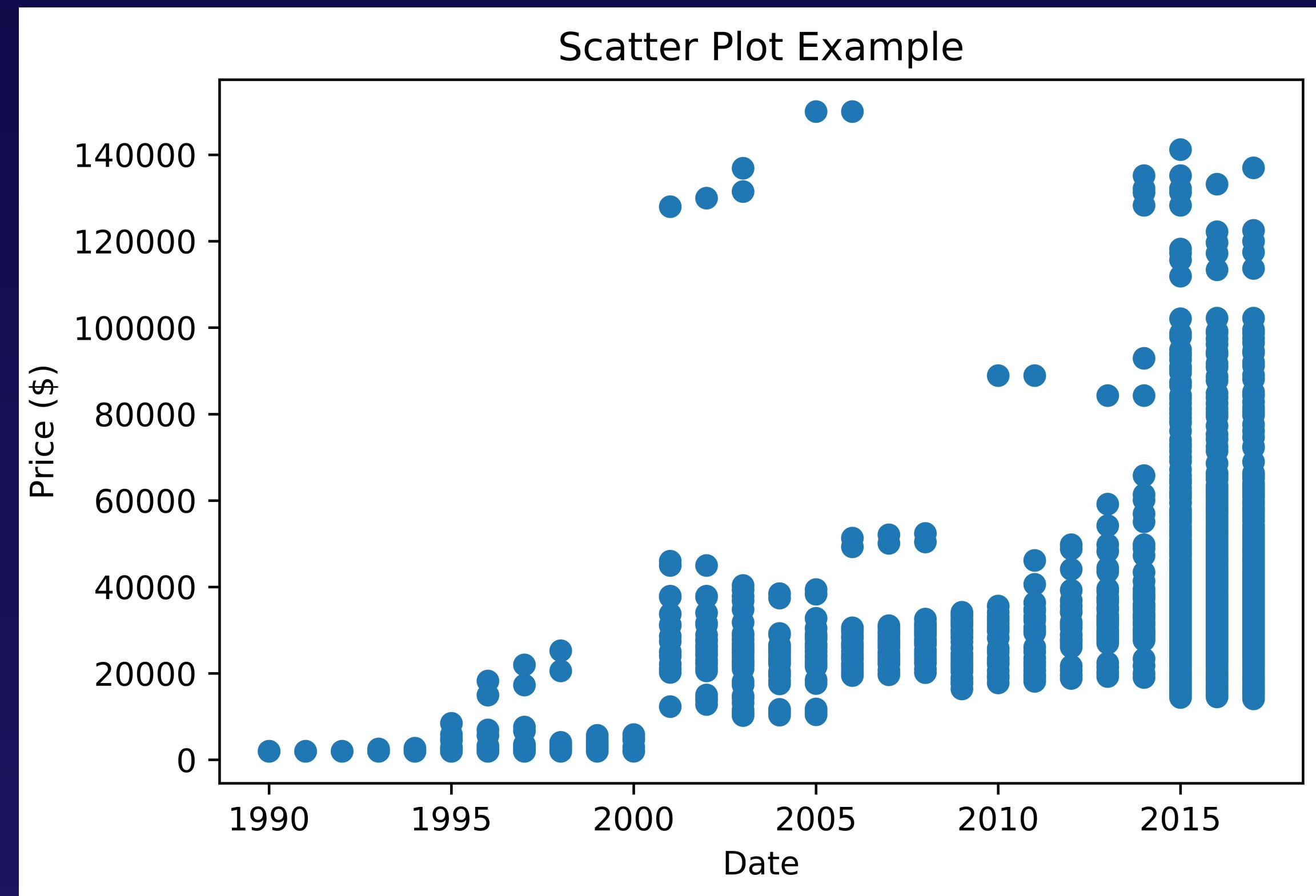


Scatter Plots

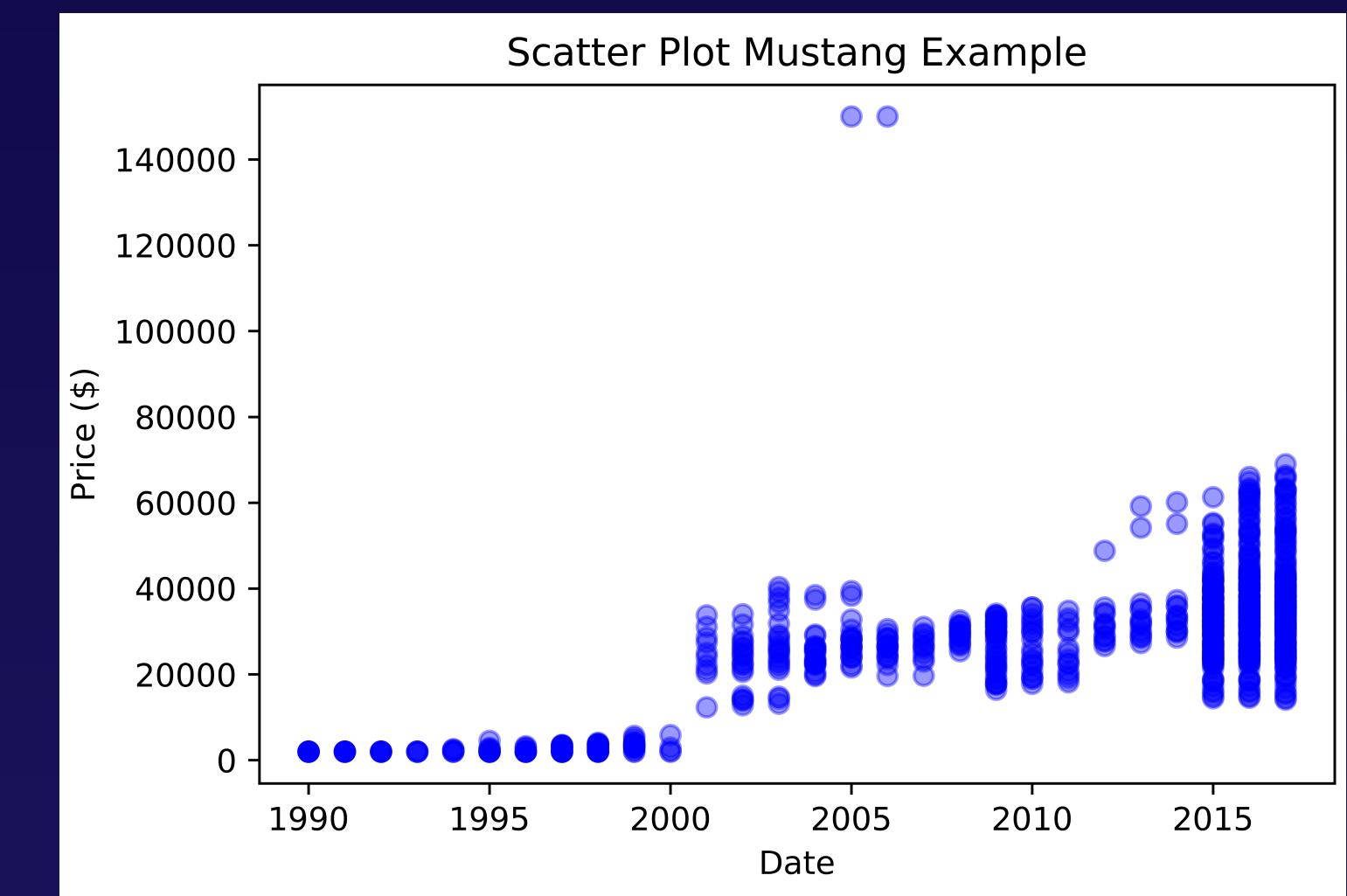
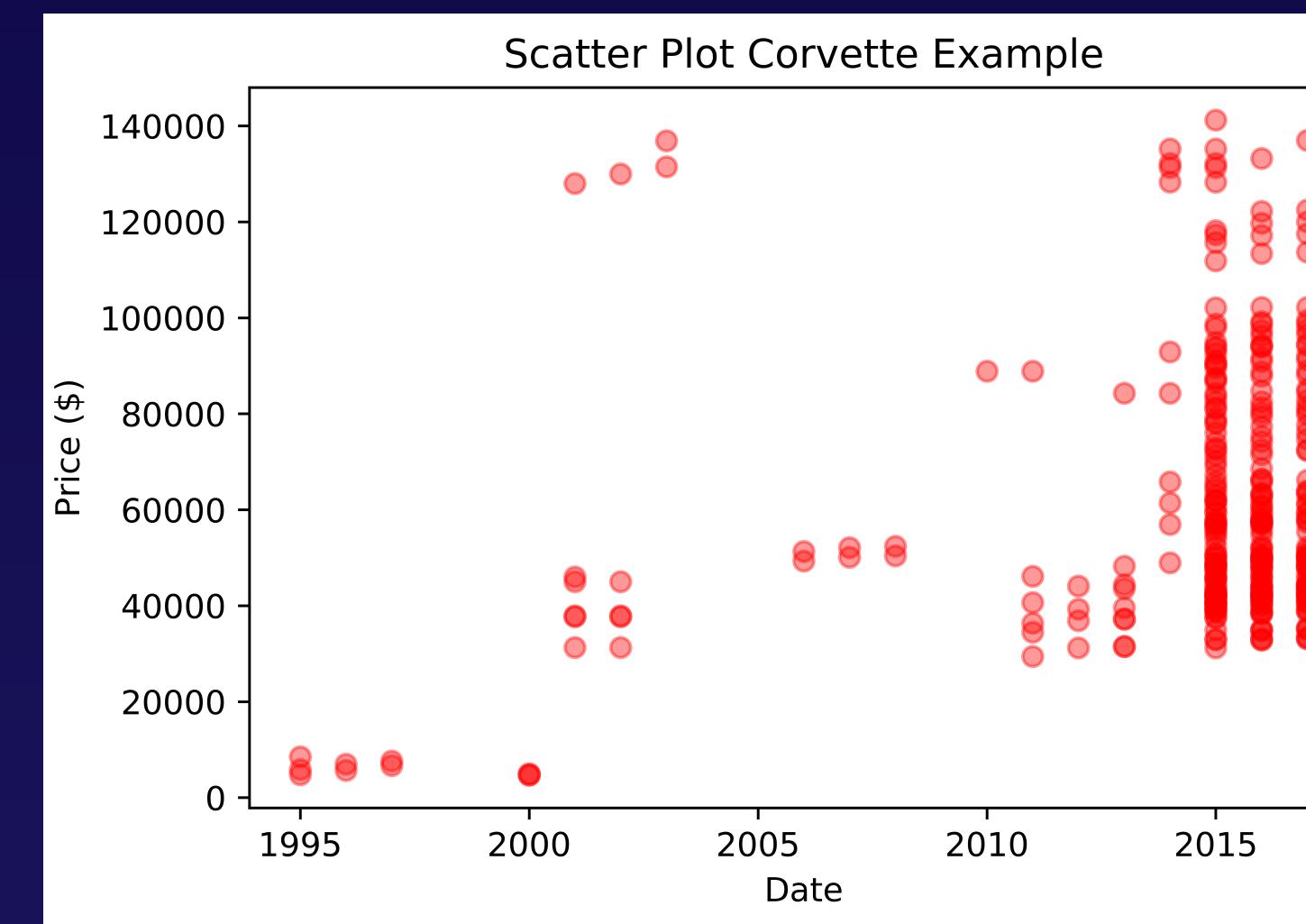
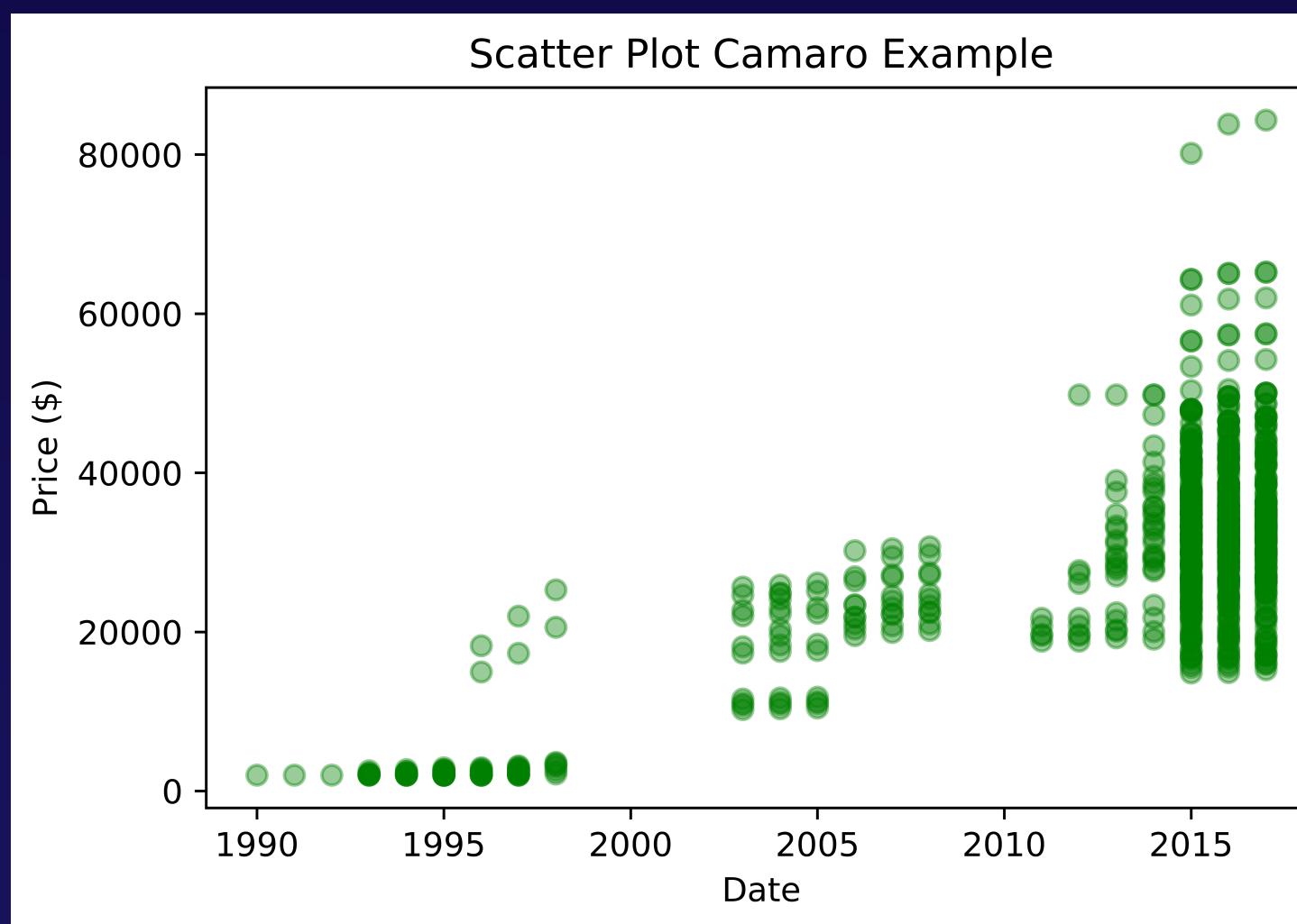
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Scatter Plots



Scatter Plots



- **Histograms & Box Plots**

Example: Showing the distribution of test scores for a given exam.

- **Scatter Charts**

Example: Showing the return of investment (ROI) for the amount of money spent and the total time invested.