Traffic Crashes 2021

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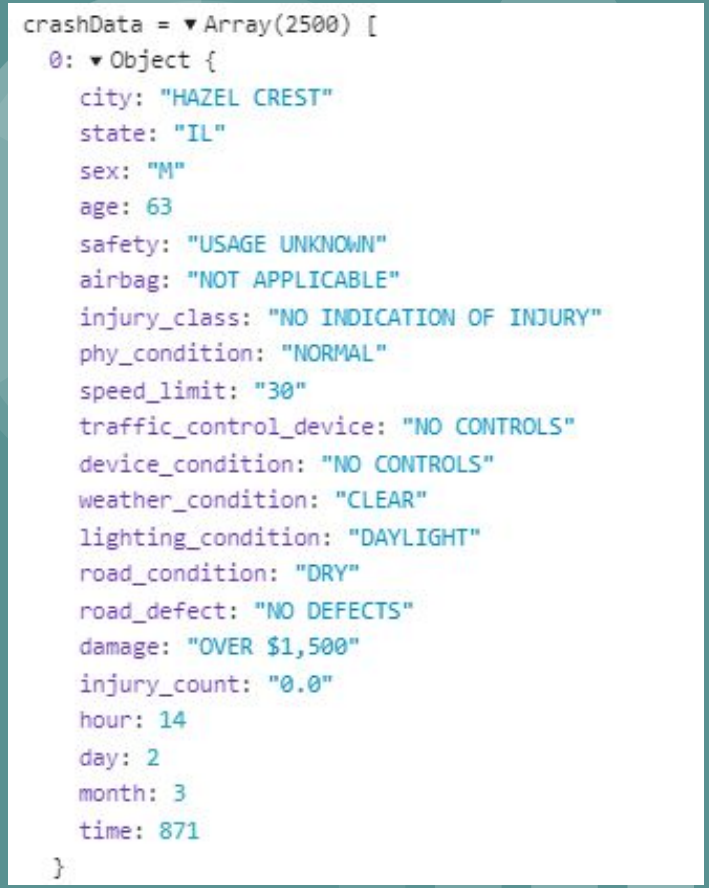
DATASET

- Taken from Chicago Data Portal
- Merged Traffic Crash Dataset with People involved dataset
- Analysed only 2021 data
- Sampled the data to 2500 random points to avoid overplotting



Our Questions

Domain Questions

- How does weather/season affect traffic crashes?

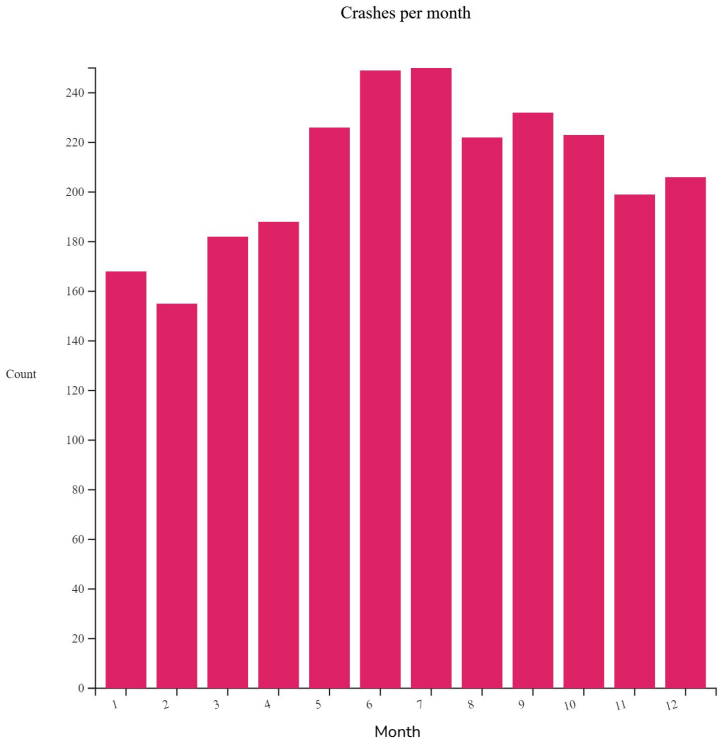
Data Questions

- Which age groups are most likely to be in a car crash?
- What is the distribution of features like weather conditions during summers vs winters?
- What are the frequencies of the types of injuries suffered in summers vs winters?
- Do seasons or months affect the total number of crashes?

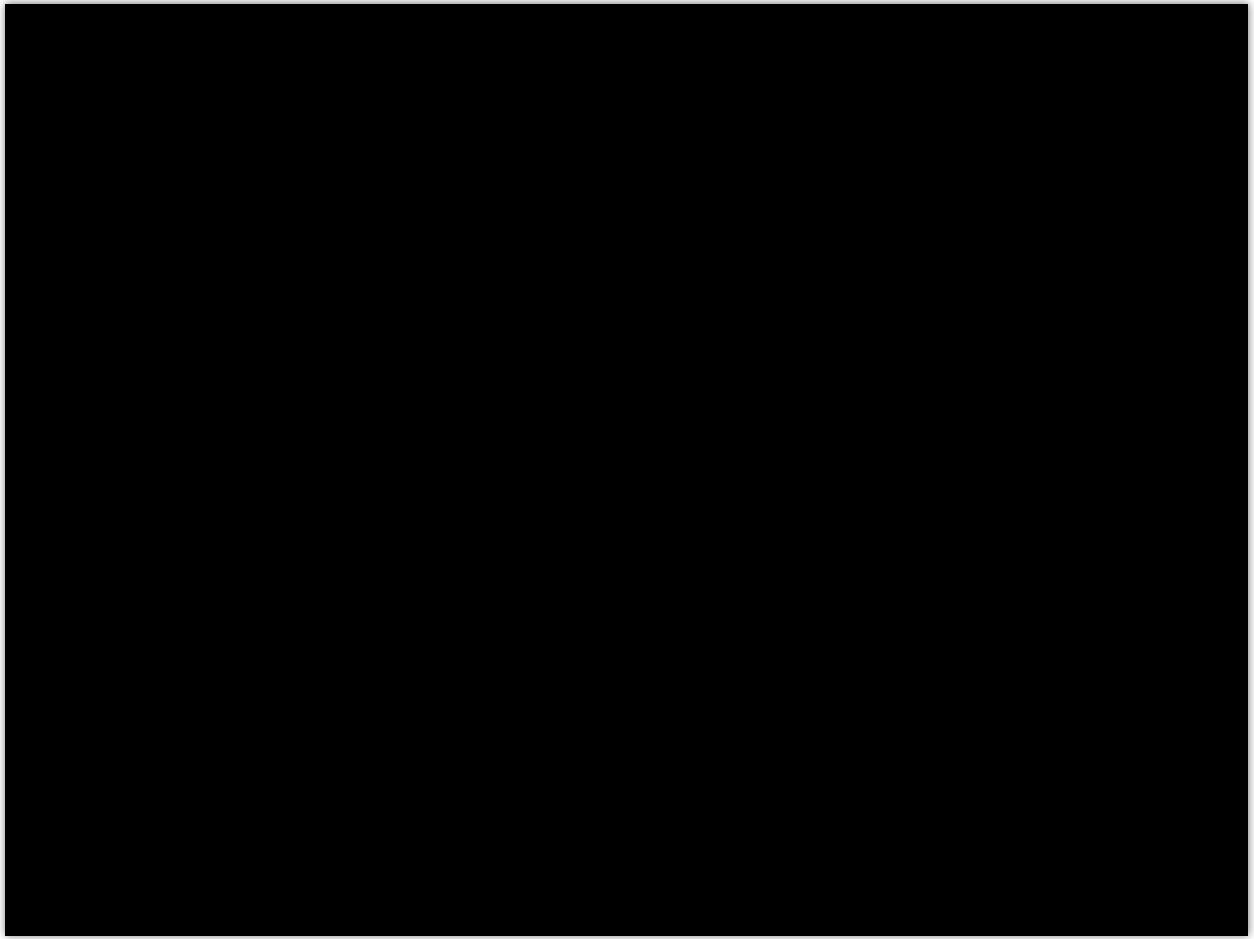
Hypotheses

- People in their prime tend to have more crashes
- There are more crashes in summer than winter
- Bad driving conditions lead to more crashes

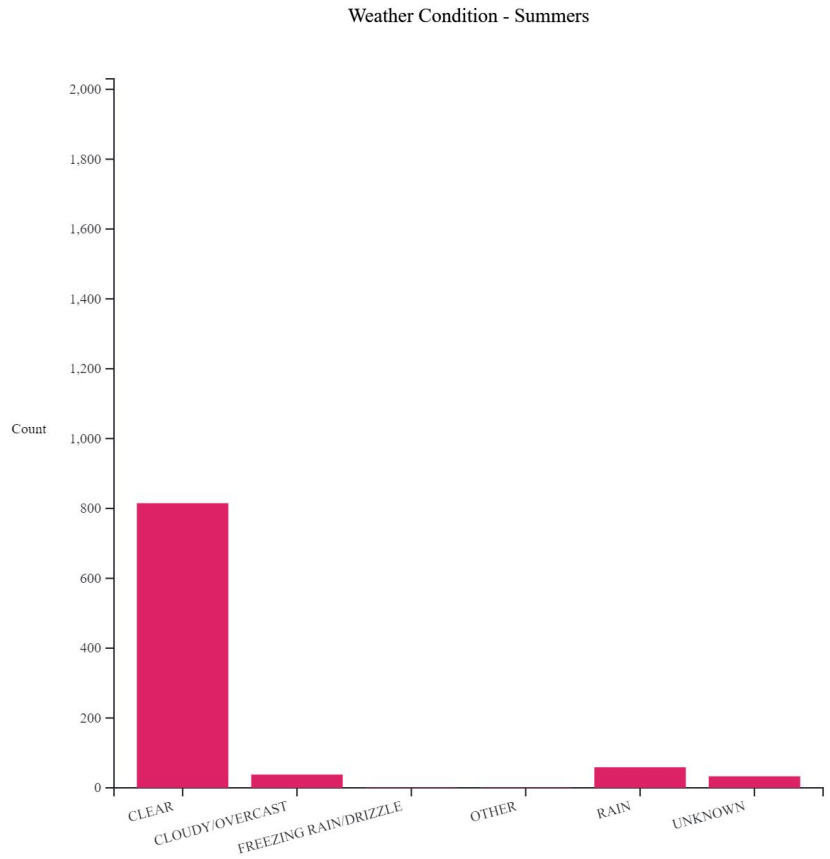
Which months do crashes occur the most?



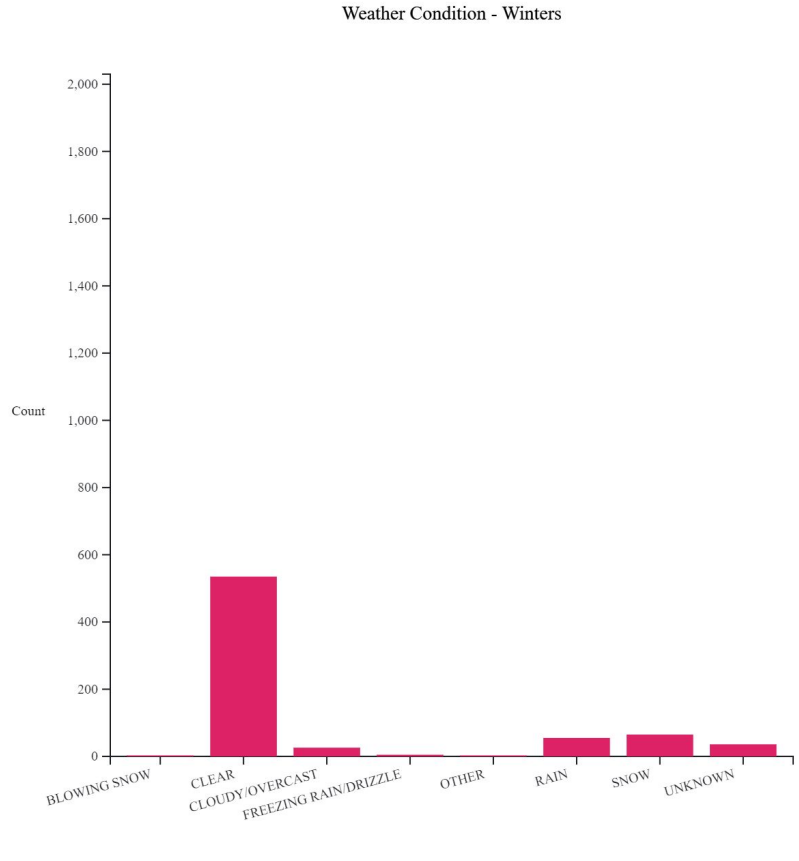
Crash counts:
Summers v/s Winters



Summers | Winters | Both

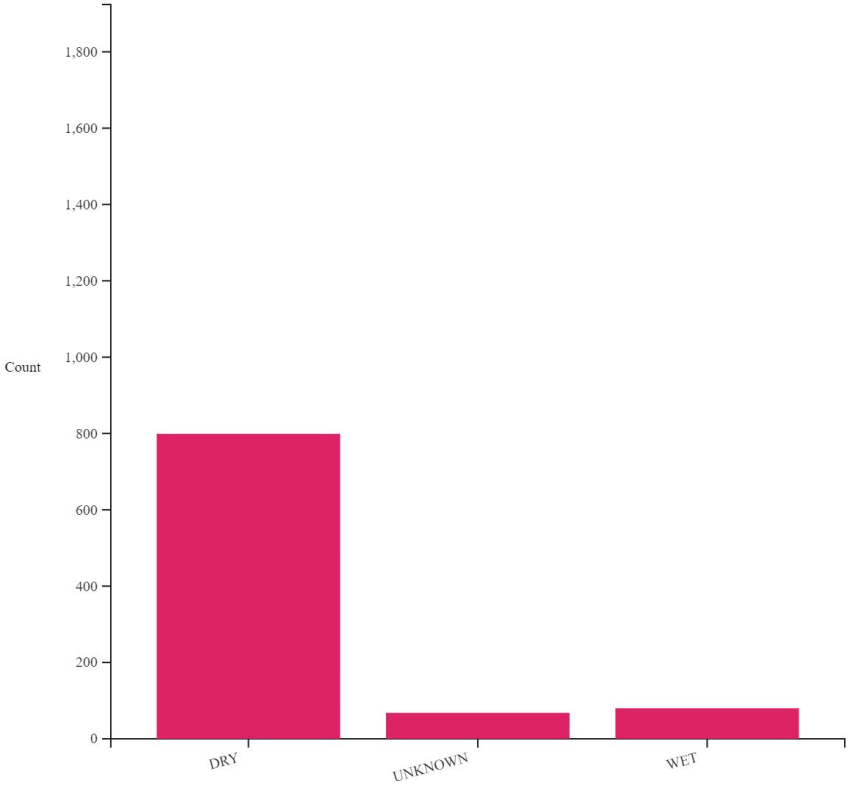


Summers | Winters | Both



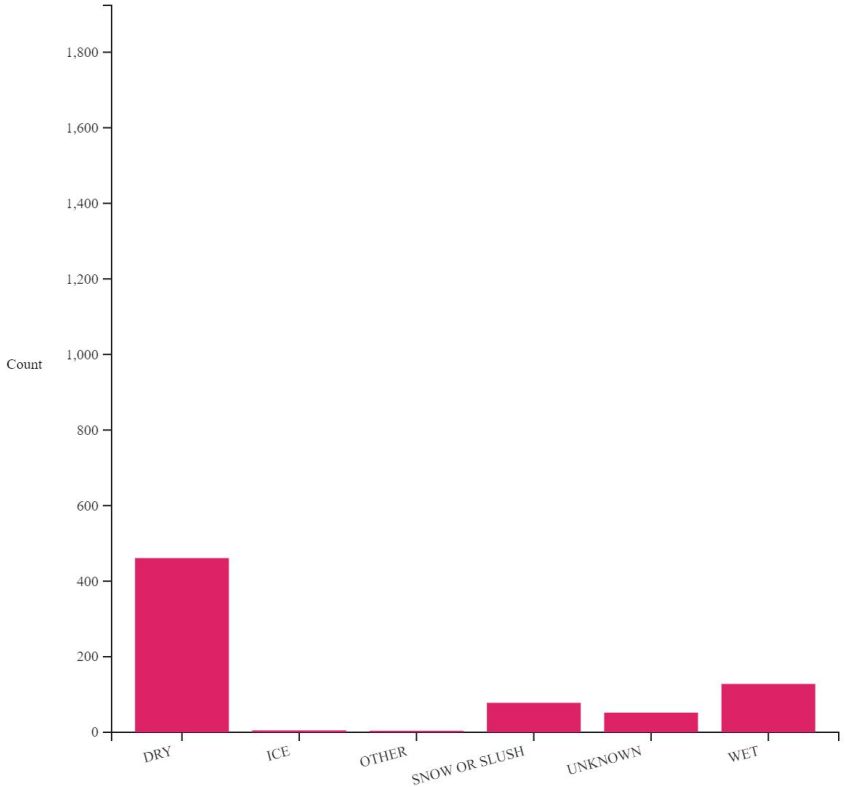
Summers | Winters | Both

Road Condition - Summers

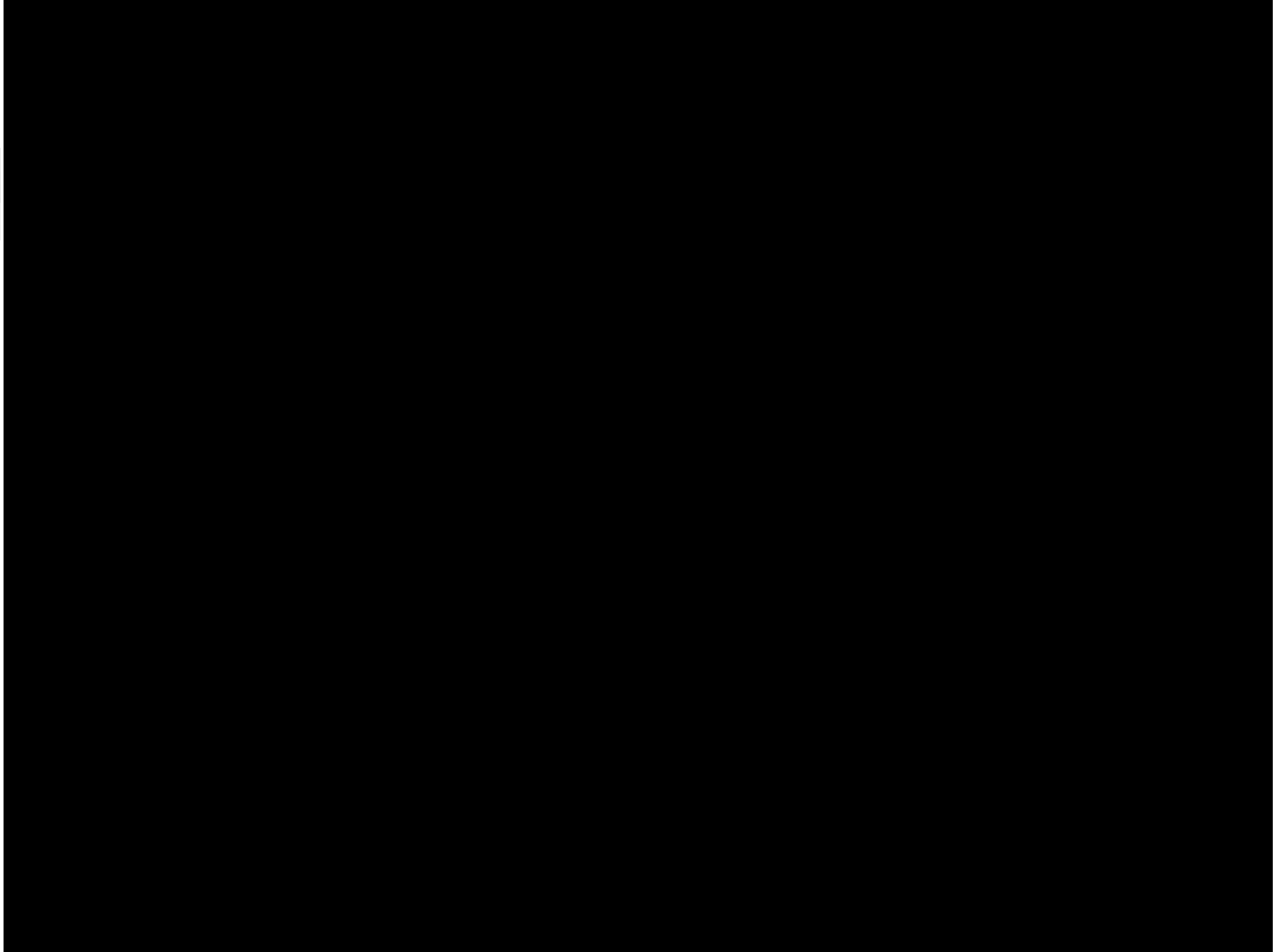


Summers | Winters | Both

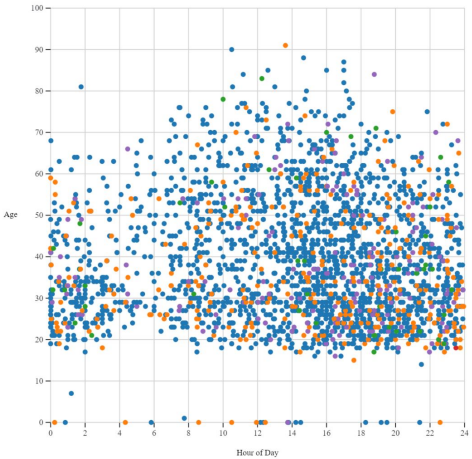
Road Condition - Winters



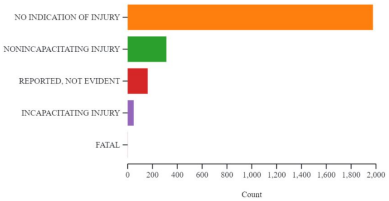
Age demographics and impact on injury severity, cost of damages, and number of injuries



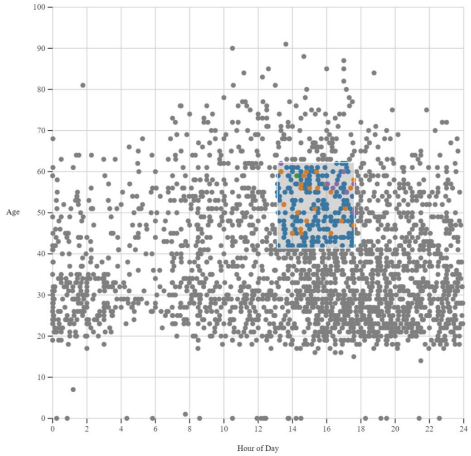
Age v/s Time of Crash



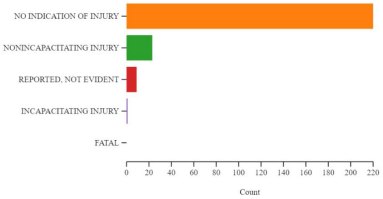
Injury Severity



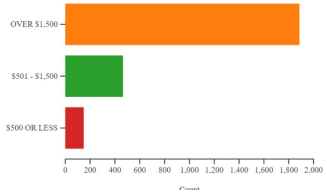
Age v/s Time of Crash



Injury Severity



Damage Cost



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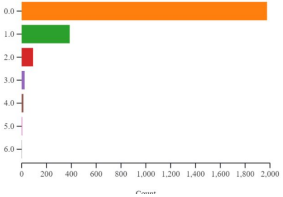

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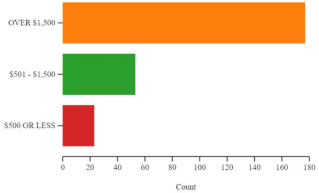
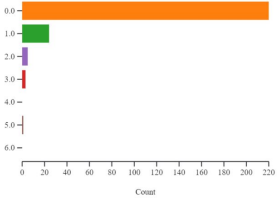


Injury Count



Revisiting our Hypotheses

- People in their prime tend to have more crashes - ***CORRECT***
- There are more crashes in summer than winter - ***CORRECT***
- Bad driving conditions lead to more crashes - ***INCORRECT***

Thank you