

There are 684754 entries of data from 01/01/2012 to 07/04/2015.

For each observations, the information includes

"Date Of Stop ", "Time Of Stop ", "Agency ", "Sub-Agency ",
"Description ", "Location ", "Latitude ", "Longitude ", "Accident ", "Belts ", "Personal Injury ",
"Property Damage ", "Fatal ", "Commercial License ", "HAZMAT ", "Commercial Vehicle ",
"Alcohol ", "Work Zone ", "State ", "VehicleType ", "Year ", "Make ", "Model ", "Colour ",
"Violation Type ", "Charge ", "Article ", "Contributed To Accident ", "Race ", "Gender ",
"Driver City ", "Driver State ", "DL State ", "Arrest Type ", "Geolocation "

The core features of the observations for the analysis are determined as

Location (Latitude, Longitude), Gender,
Vehicle information (Makes, Car Type, Model),
Violation information (Type of Violation ,Time and Date).

The distribution of the core features are stated below

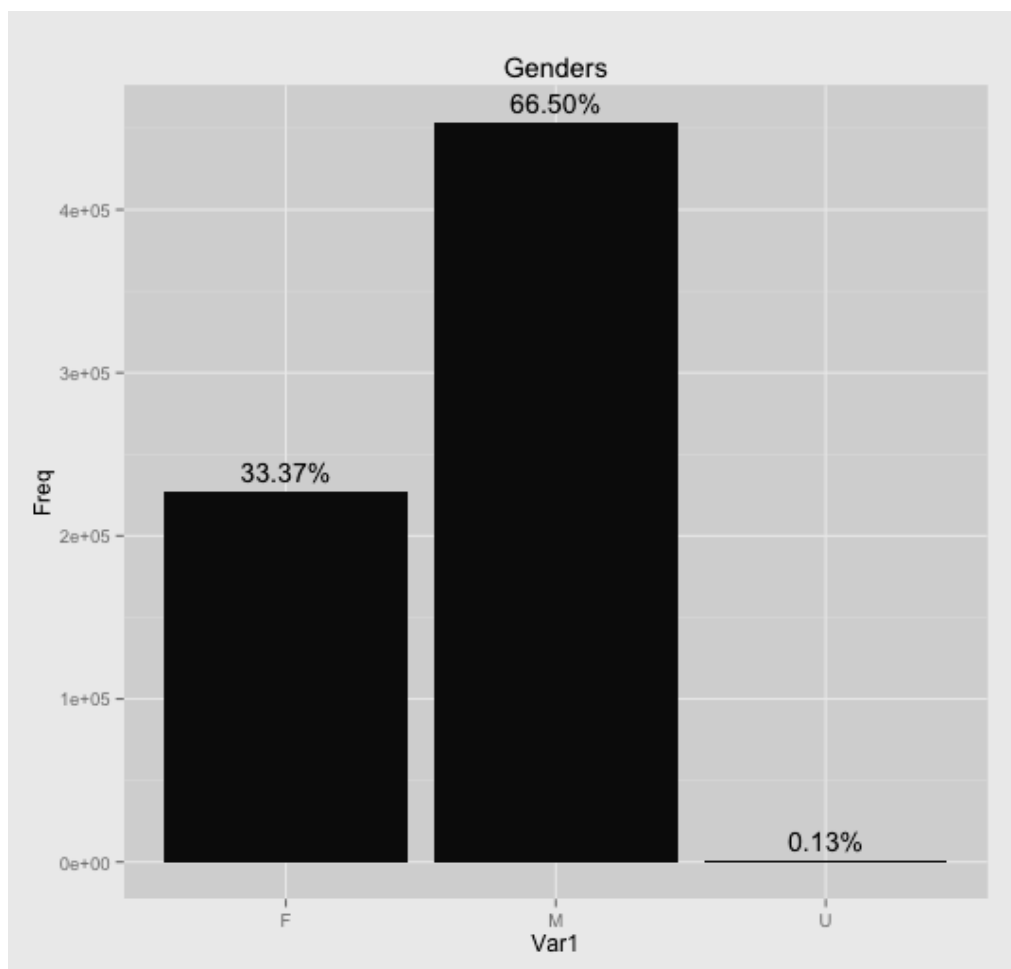


Fig 1. Gender Distribution

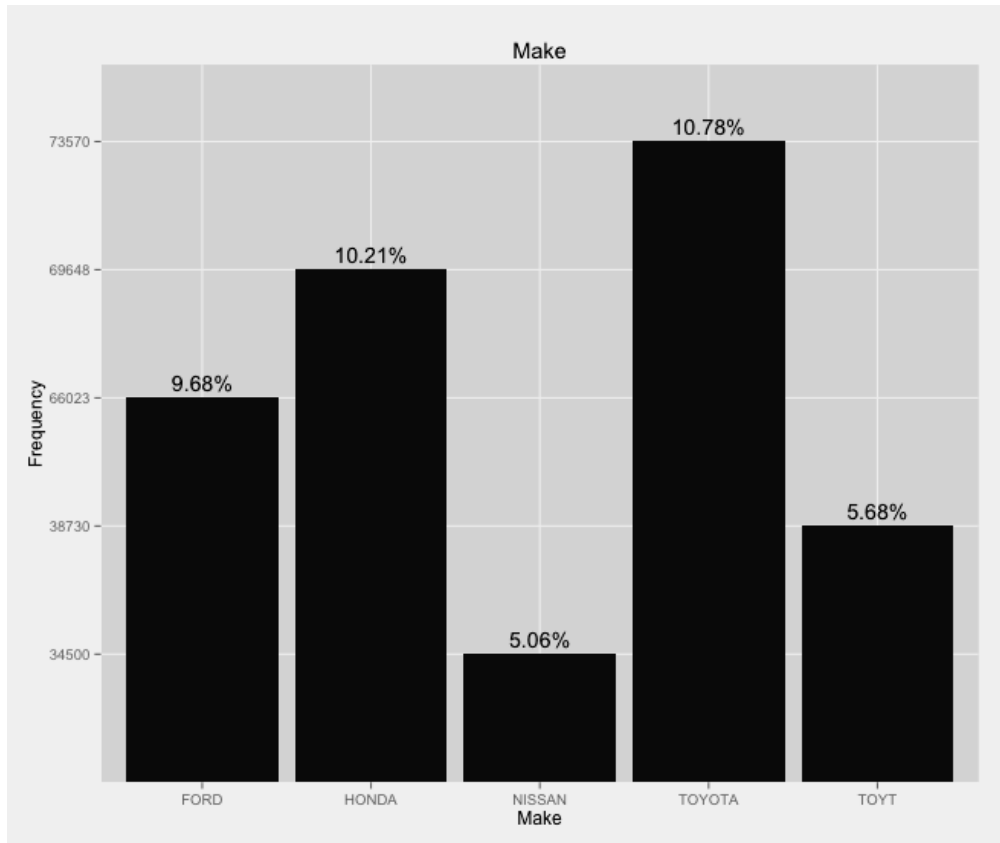


Fig 2. Car Manufacturer Distribution(Top 5)

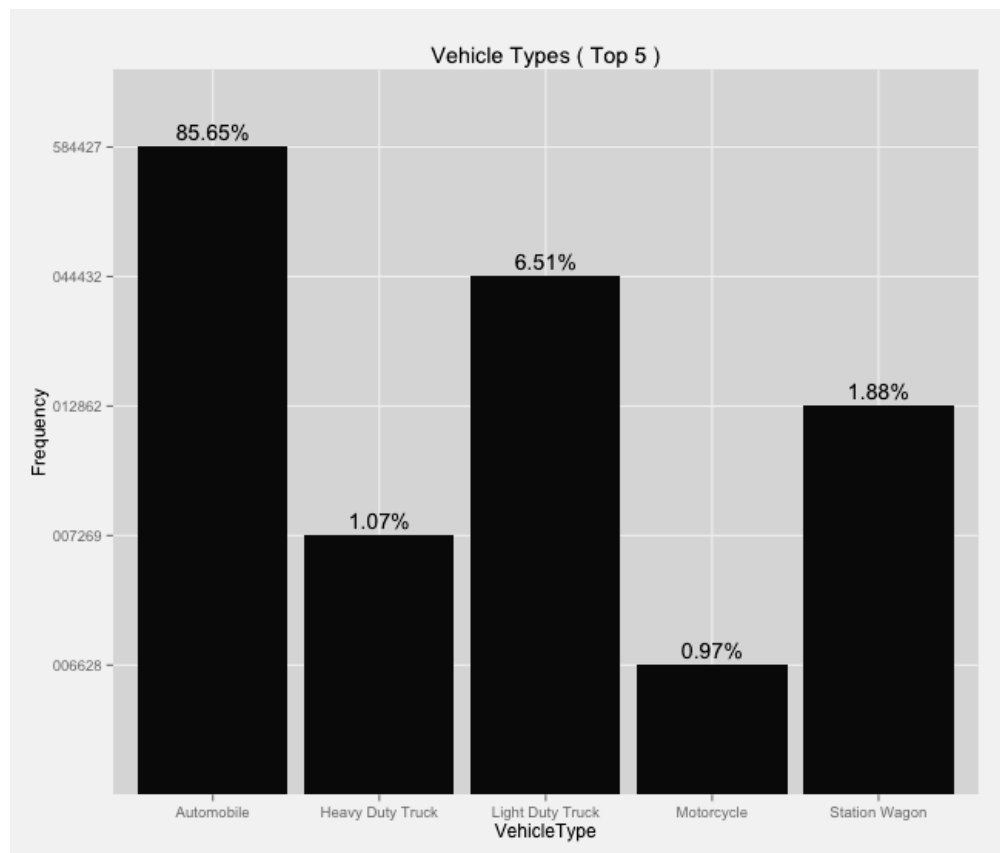


Fig 3. Vehicle Types Distribution (Top 5)

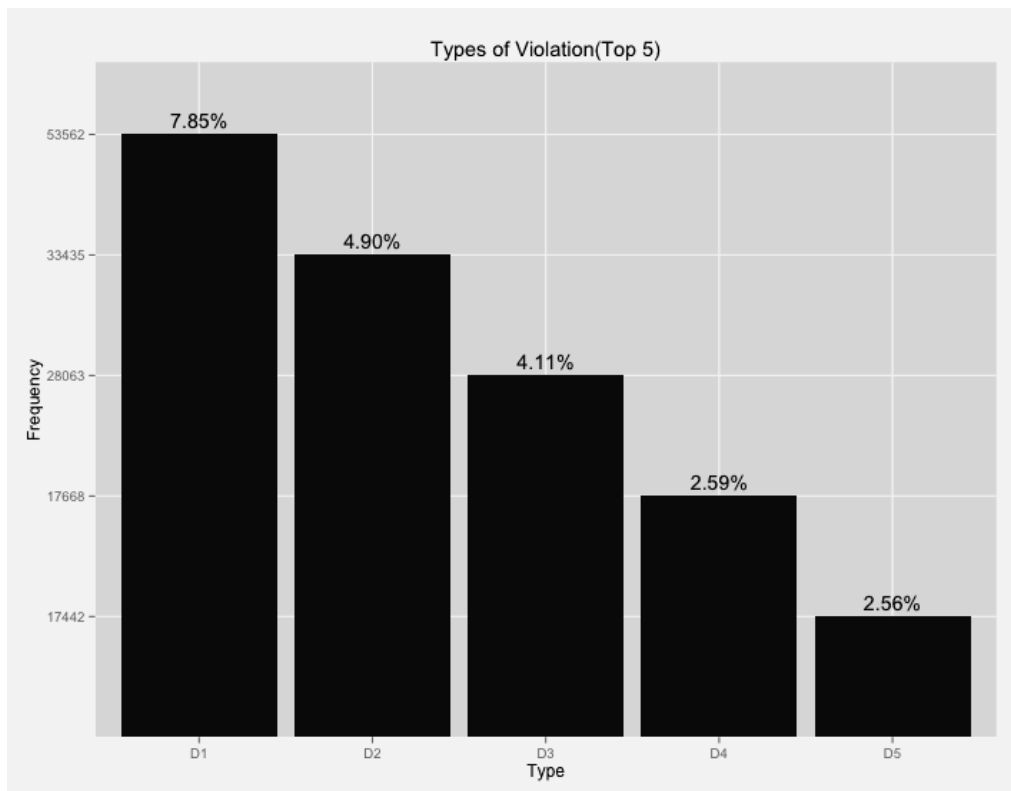


Fig 4. Violation Type Distribution(Top 5)

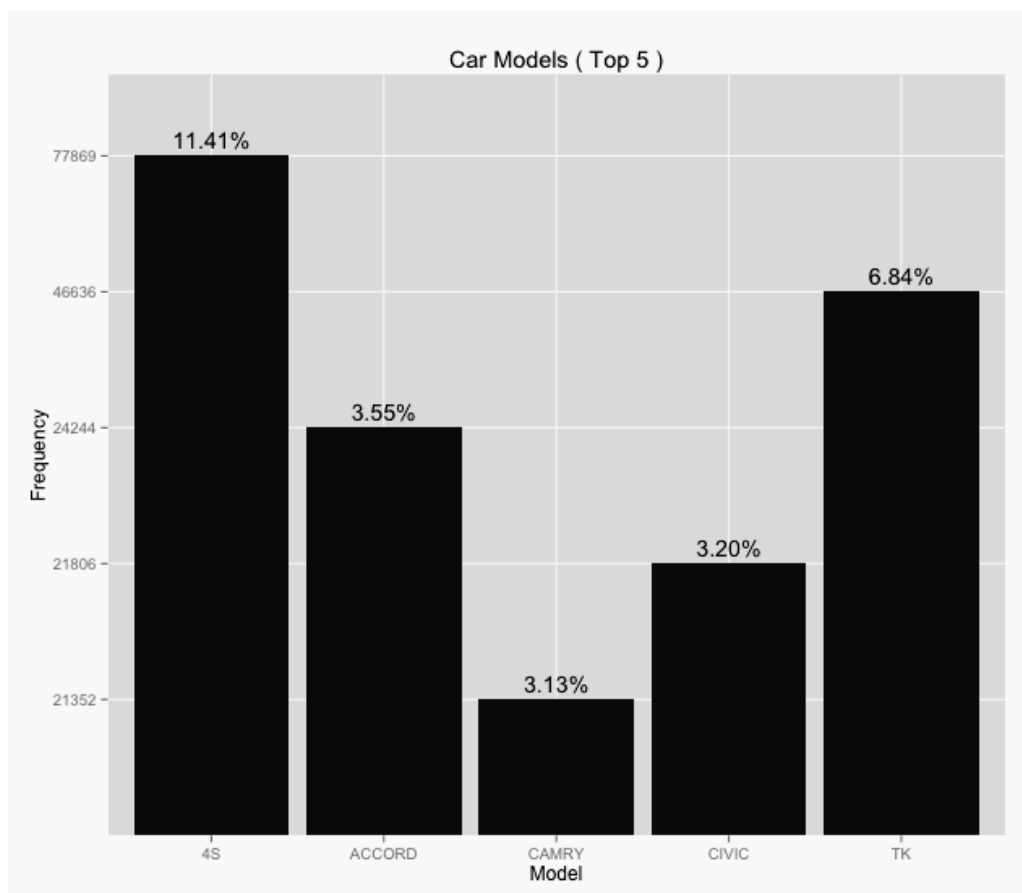


Fig 5. Car Model Distribution (Top 5)

- Plot various information by month to discover seasonal changes of the characteristics of traffic violations
- Discover more correlations and difference between gender by separating the data by gender.