



# Electric Car Data Visualization

Team Four

# Agenda

- Purpose of our application
- Our users and their goals
- How did we fulfill the goals
- Data sources
- How do we visualize the data
- Demo

# Why Electric Cars?

- Nowadays we can see more electric cars on road than before, charging stations  
Many people are interested in electric cars
- Fashion and Green
- New driving and riding experience
- no satisfied application

# Purpose of Our Application

- Contrast the performance and all currently on sale electric cars in America
- Let people know more about the electric cars and know which dealer can offer the best price in SF bay area
- Choose the one you like

# Our Users and Their Goals

- People who are interested in the electric cars and want to know something about electric cars
- Above people and they also want to buy an electric car near SF bay area

# How did we fulfill their goals?

- Selected all pure electric cars on sale in US
- Gathered the information the user will care about and contrast them through data visualization methods
- We searched the best offer for each car for users and show them on a map in our application

# Data Source

We got data from

- cars.com
- truecar.com
- goodcarbadcar.com
- NHTSA-national highway traffic sf admin
- official website for each car

Then we join them together by car brand

# How Do We Visualize the Data?

Dashboard

In the Price Dashboard

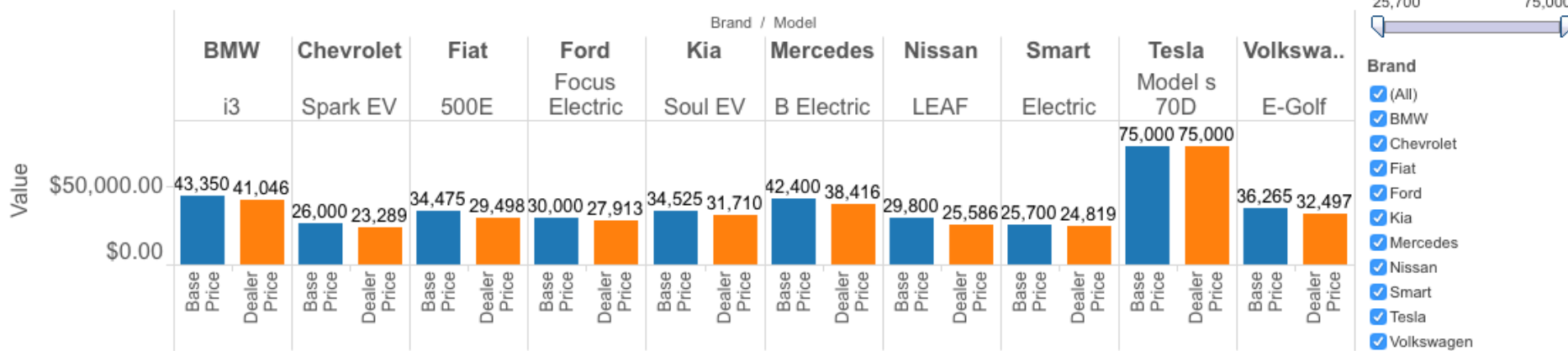
Two kinds of bar chart to show MSRP and dealership price. On the bottom we show loan price and lease price.

With filter:

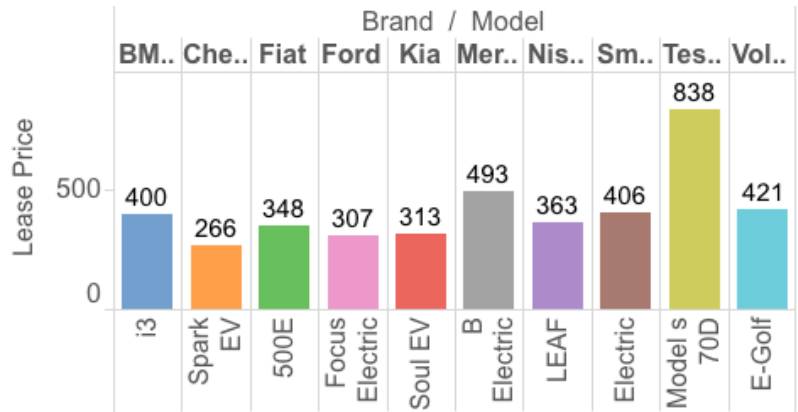
Price range Slider and Brand Checklist



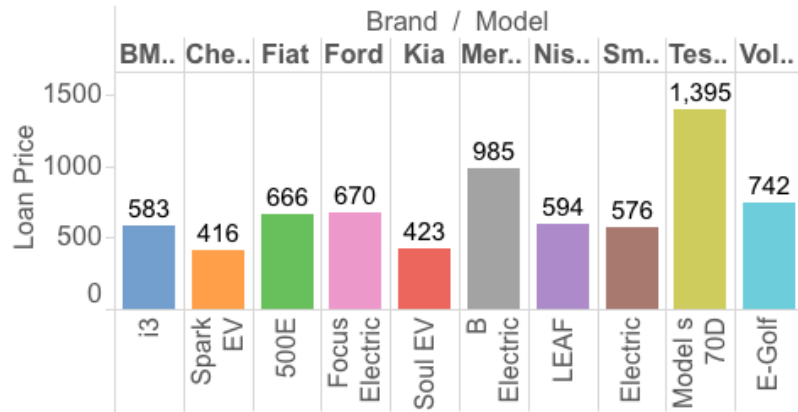
### Base & Dealer Price



### Lease Fee per Month



### Loan Price per Month



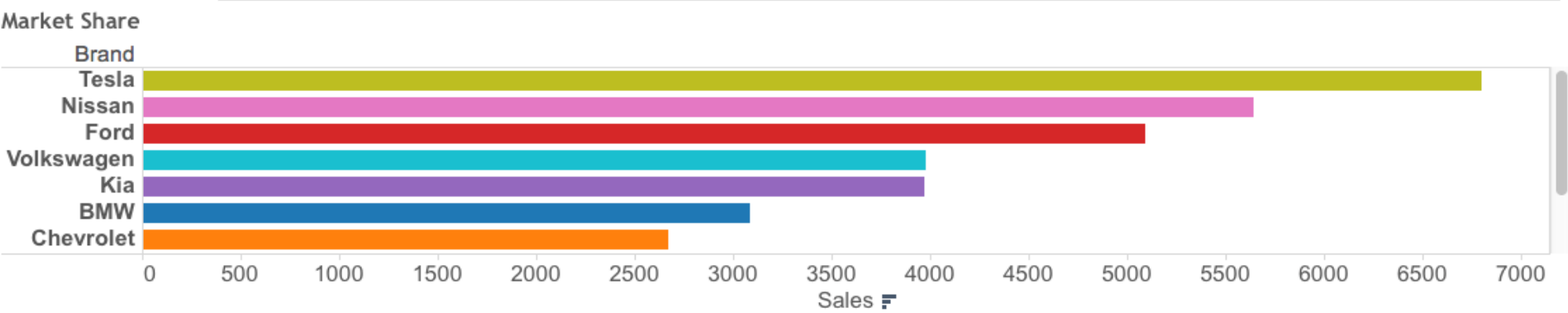
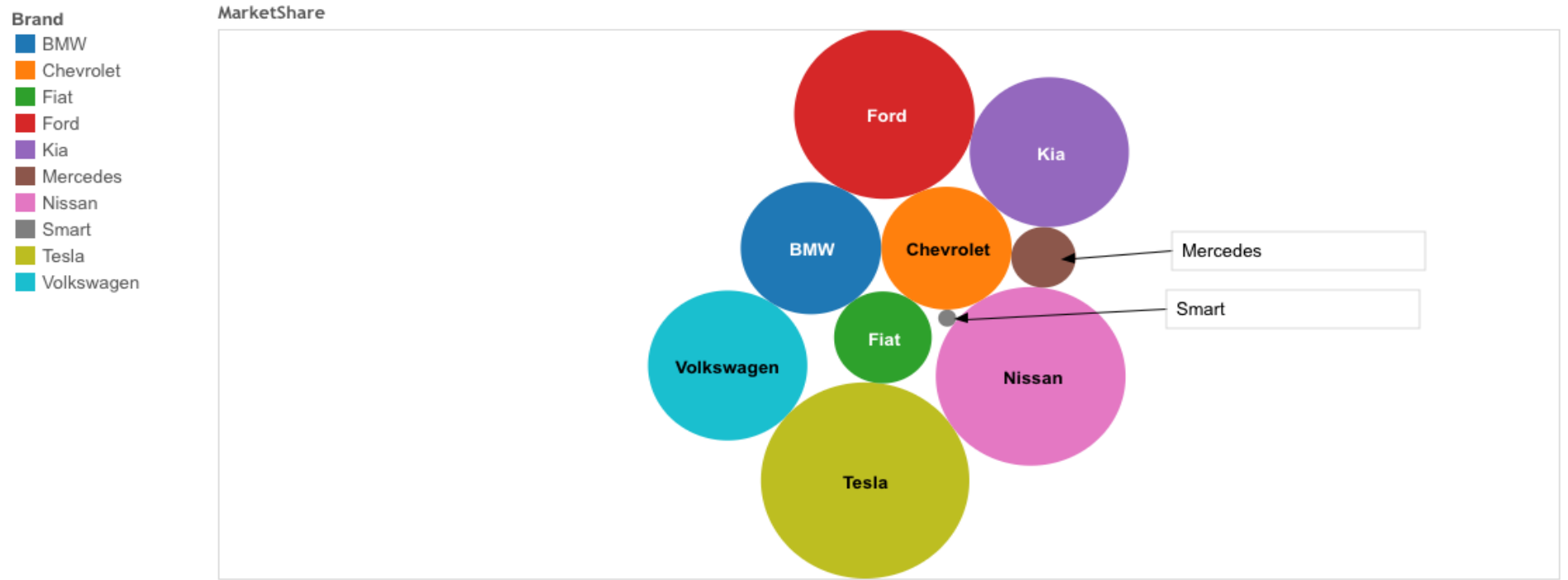
# How Do We Visualize The Data?

In the Market Share Dashboard

We used packed bubbles and bar chart to show the total sales number for 2015

packed bubbles: enhance the top brand and smallest share brand

bar chart: give the detail about sales



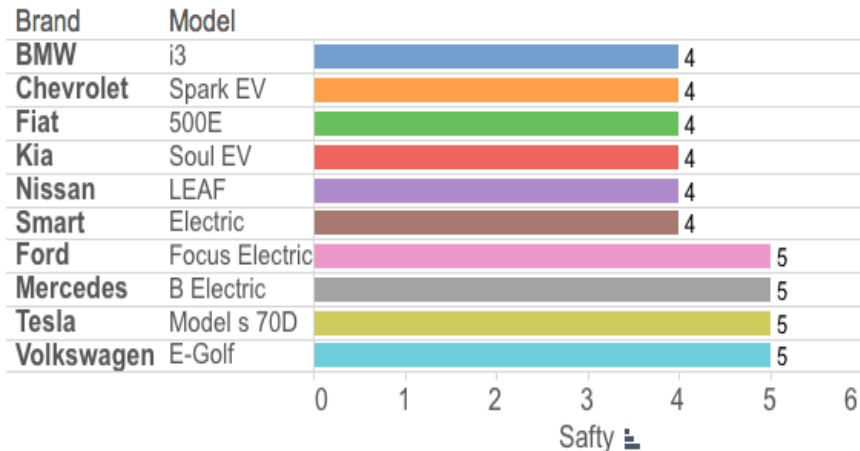
# How Do We Visualize The Data?

In Performance Dashboard

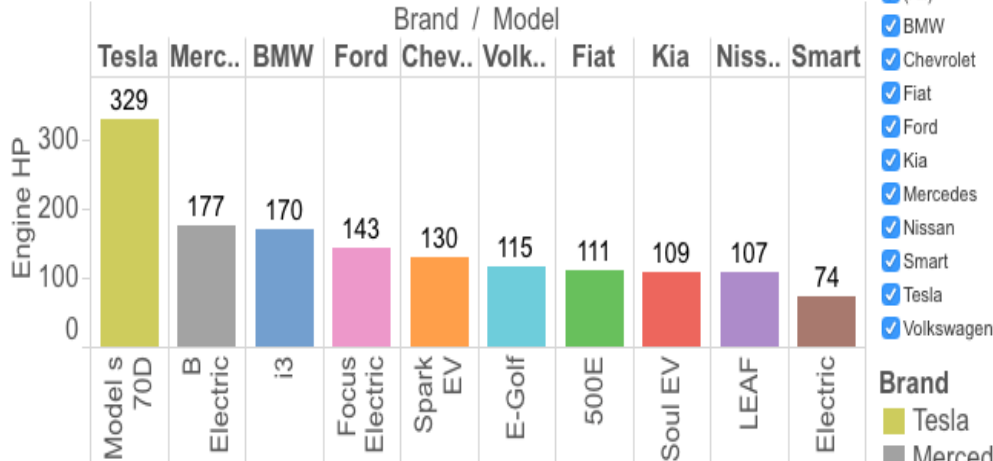
people care about the performance detail if they are interested in or plan to purchase

Filter: Brand Checklist

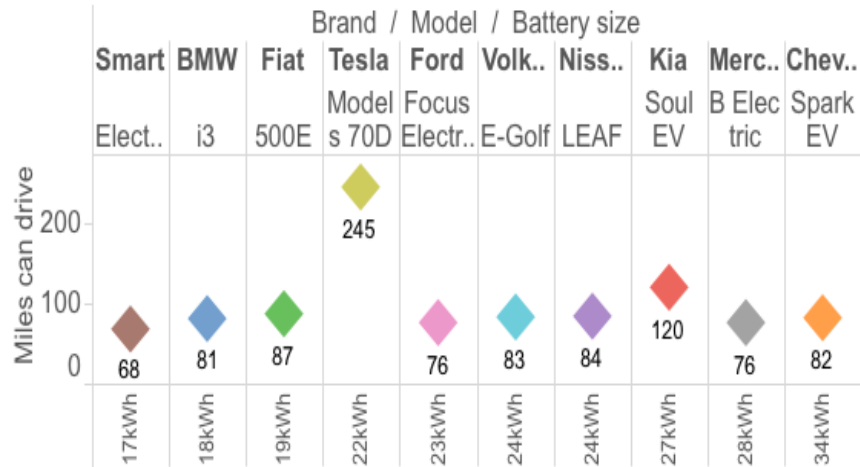
## Safety Rating



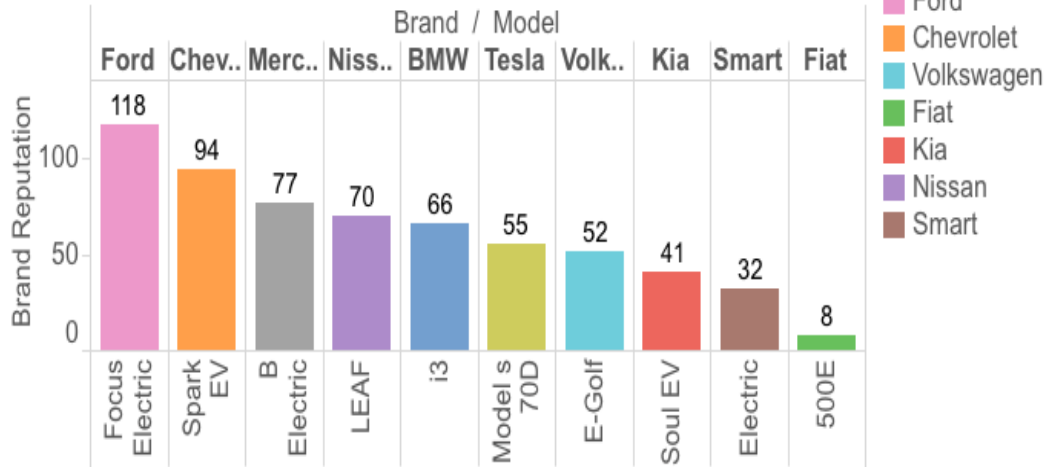
## Engine Horse Power



## Battery Capacity and Miles Charge



## Reputation



Brand

- (All)
- BMW
- Chevrolet
- Fiat
- Ford
- Kia
- Mercedes
- Nissan
- Smart
- Tesla
- Volkswagen

Brand

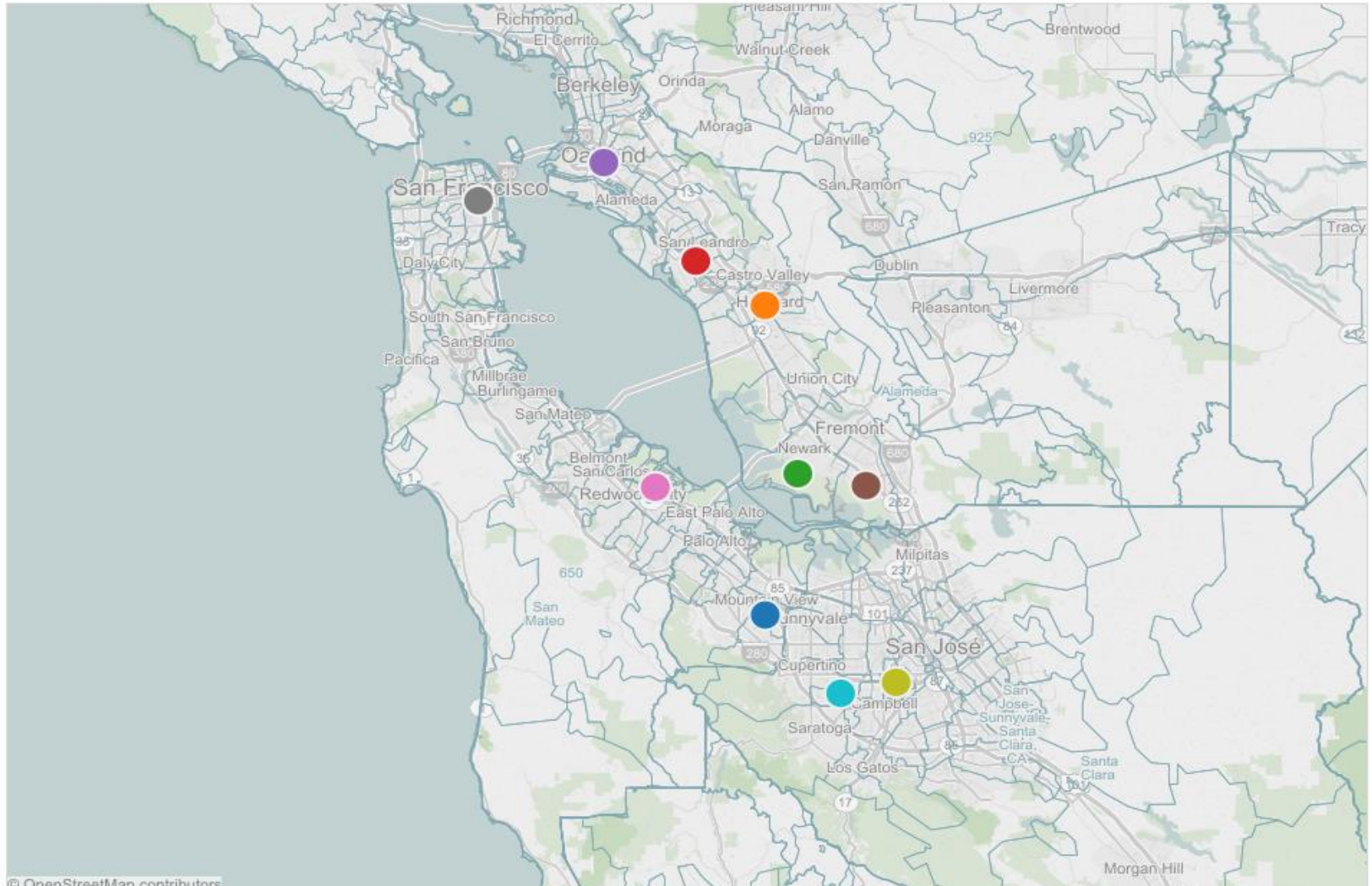
- Tesla
- Mercedes
- BMW
- Ford
- Chevrolet
- Volkswagen
- Fiat
- Kia
- Nissan
- Smart

# How Do We Visualize The Data?

## Where To Buy Dashboard

we used map to show users which dealer can offer the best price and where the dealer is.

- Brand**
- BMW
  - Chevrolet
  - Fiat
  - Ford
  - Kia
  - Mercedes
  - Nissan
  - Smart
  - Tesla
  - Volkswagen



**Demo**



Thank you!