# Private Car Resale Market in Singapore User Guide

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## 1. Getting Started

Our application consists of 5 sections: Home, Overall resale market analysis (treemap), Market analysis on vehicle types and car brands (bubble chart), Correlations between price and key factors (scatter matrix), and Car age profile analysis (radar chart). User can jump to a specific section by clicking the icons at the home page.

### 2. Visualization Guide

### 2.1 Problem Overview

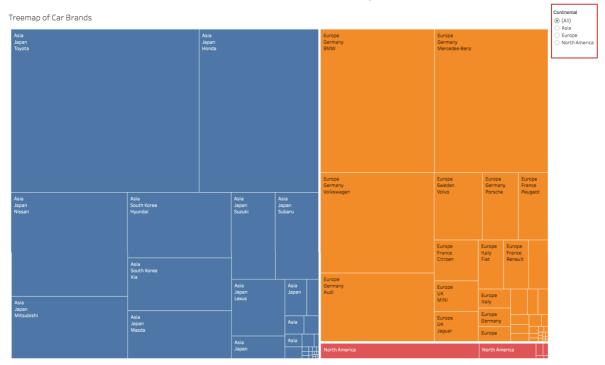


This is the home page of the application. It states the motivations and objectives of the application at the top. At the bottom, there are 4 icons linking to different sections and there is a short description of the section below each icon.

## 2.2 Analysis 2.2.1 Treemap

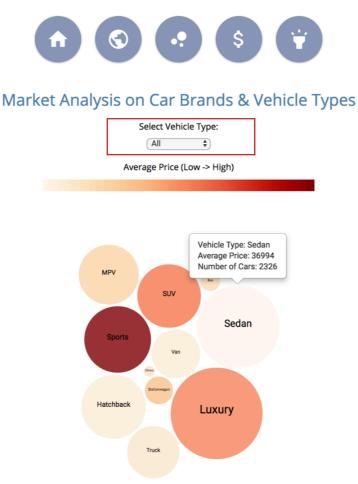


**Overall Resale Market Analysis** 



This treemap is to provide an overall market analysis on resale cars to show the most popular car brands available for sale. User can click the filter at the right of the treemap (highlighted in red box) to further drill down by continent. Besides, user can click the icons at the top of the page to jump to other sections, including the home page.

## 2.2.2 Bubble Chart

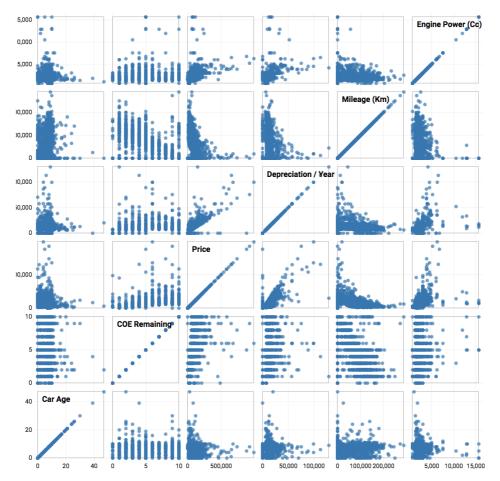


This force bubble chart is to provide a deeper understanding of different vehicle types available in the resale market based on price and quantity. User can further drill down each vehicle type by car brands by selecting the vehicle type using the dropdown list at the top (highlighted in red box). Details including average price and number of cars can be retrieved by hover over on each bubble.

## 2.2.3 Scatter Matrix



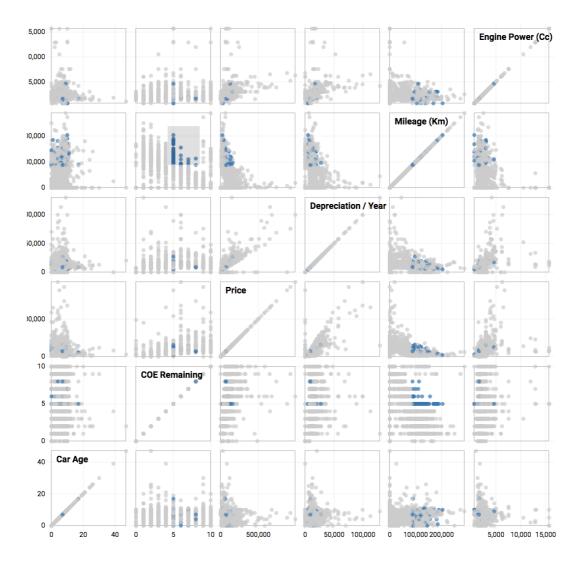
**Correlations Between Price & Key Factors** 



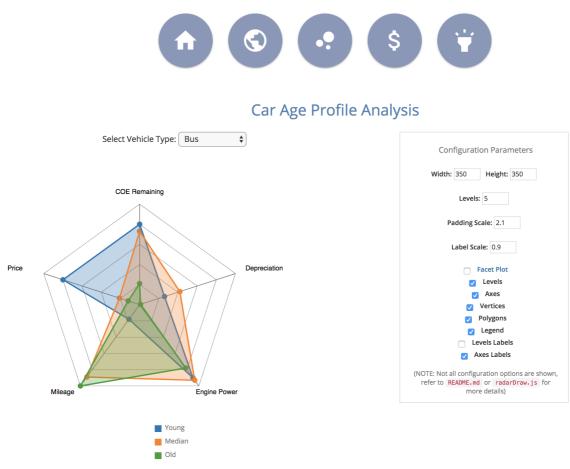
This scatterplot matrix displays the correlations between multiple variables such as Car age, COE remaining, Price, Depreciation/year, Mileage, Engine Power (cc). User could use brushing functions by selecting data points on the graph. Thus, only the selected points will be highlighted and the rest will be colored in grey.



## **Correlations Between Price & Key Factors**



2.2.4 Radar Chart



This radar chart shows the profiles for vehicle from different age groups. User can select a specific vehicle type from the dropdown list. And they could also change the configuration parameters such as width, height, level, padding scale from the right panel.