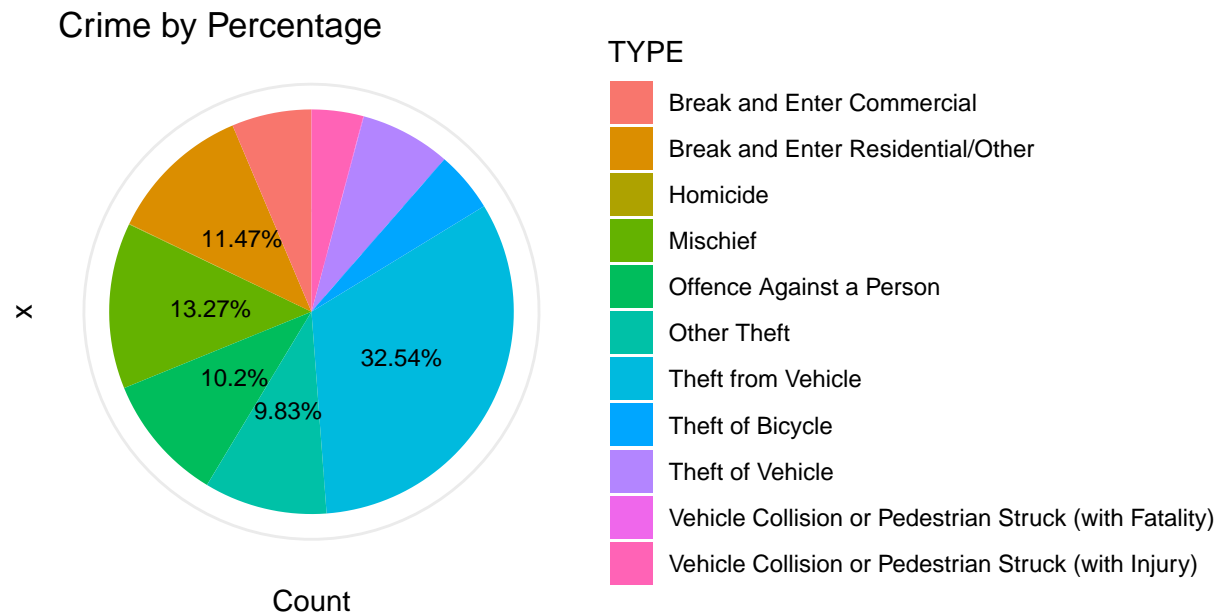# Exploratory data analysis of Crime in Vancouver

The data set used in this project comes from **the Vancouver Open Data Catalogue**. It includes 529.652 crimes reported between January 1, 2003 to July 13, 2017. The data set is also avialable on https://www.kaggle.com/wosaku/crime-in-vancouver

Below table summarize the total number of each reported crime type

```
## # A tibble: 11 x 3
##    TYPE                                              Count Percentage
##    <chr>                                             <int> <chr>
##  1 Theft from Vehicle                               172700 32.54%
##  2 Mischief                                          70413 13.27%
##  3 Break and Enter Residential/Other                60862 11.47%
##  4 Offence Against a Person                          54142 10.2%
##  5 Other Theft                                       52167 9.83%
##  6 Theft of Vehicle                                  38418 7.24%
##  7 Break and Enter Commercial                        33845 6.38%
##  8 Theft of Bicycle                                  25730 4.85%
##  9 Vehicle Collision or Pedestrian Struck (with Injury)    21901 4.13%
## 10 Vehicle Collision or Pedestrian Struck (with Fatality)    254 0.05%
## 11 Homicide                                            220 0.04%
```

Top three reported crime type are Theft from Vehicle, Mischief and Break and Enter Residential/Other.

Crime by Percentage

The project would also explore the density of reported crime for each neighbourhoods

```
## # A tibble: 24 x 2
##    NEIGHBOURHOOD             Count
##    <chr>                    <int>
##  1 Central Business District 110947
##  2 West End                  41352
##  3 Fairview                  32161
##  4 Mount Pleasant            30536
##  5 Grandview-Woodland        27180
##  6 Renfrew-Collingwood       26761
##  7 Kitsilano                 26699
##  8 Kensington-Cedar Cottage  24941
##  9 Strathcona                20919
## 10 Hastings-Sunrise          18126
## # ... with 14 more rows
```

Top 5 neighbouhoods with most reported crimes