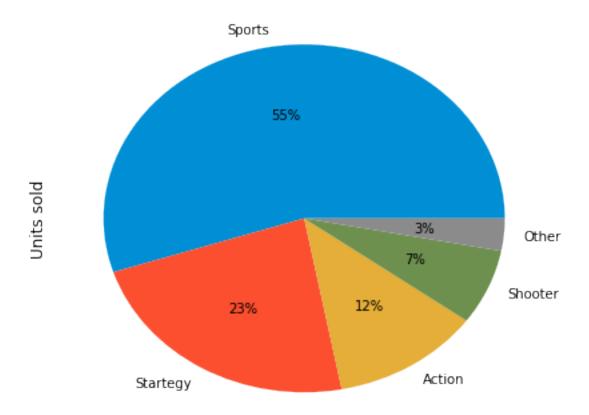
# 01 Statistics Visualizing Information

April 30, 2018

### 1 Visualizing Information

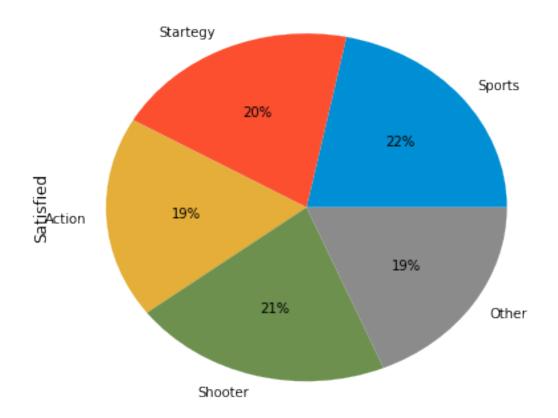
```
In [1]: # importing required libraries
        import numpy as np
        import pandas as pd
        import matplotlib.pyplot as plt
        %matplotlib inline
        plt.style.use('fivethirtyeight')
   Analysing "Data Flick's solutions private limited"
   importing data
In [2]: no_units = pd.read_excel('./data/statistics/df_genre_units.xlsx') # reading data
In [3]: no_units = no_units.set_index('Genre')
In [4]: no_units
Out[4]:
                  Units sold
        Genre
        Sports
                       27500
        Startegy
                       11500
        Action
                        6000
        Shooter
                        3500
        Other
                        1500
In [5]: plt.figure(figsize=(6,6))
        no_units['Units sold'].plot.pie(autopct='%.0f\\\')
        plt.show()
```



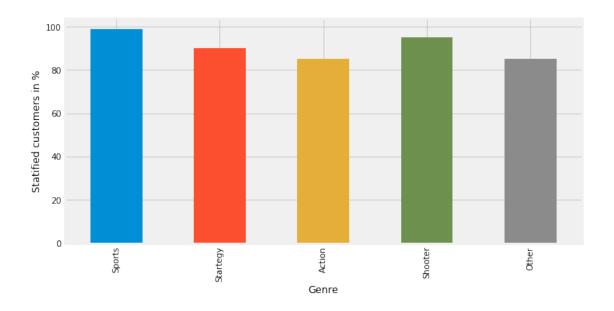
#### Visualizing statisfied customers

Out[6]:		Satisfied
	Genre	
	Sports	99
	Startegy	90
	Action	85
	Shooter	95
	Other	85

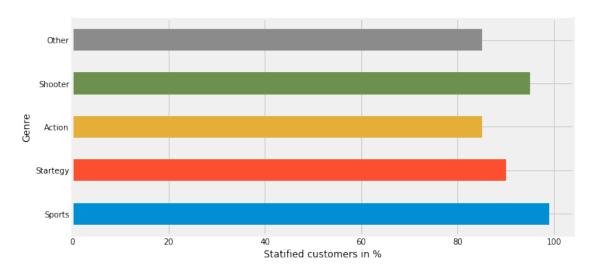
Out[7]: <matplotlib.axes.\_subplots.AxesSubplot at 0x7f589a120b10>



# **Bar plot** > vertical plot



# horizontal plot



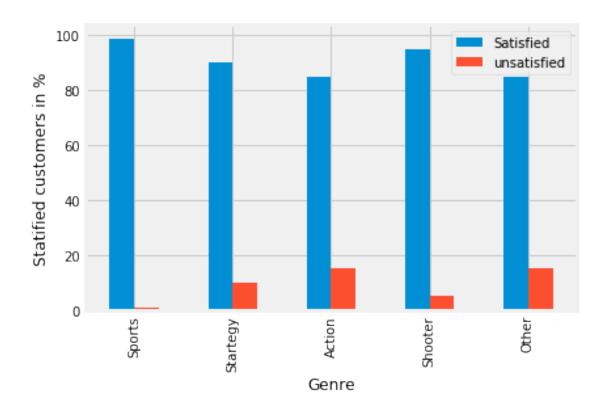
In [10]: satisfied['unsatisfied'] = 100-satisfied['Satisfied']

In [11]: satisfied

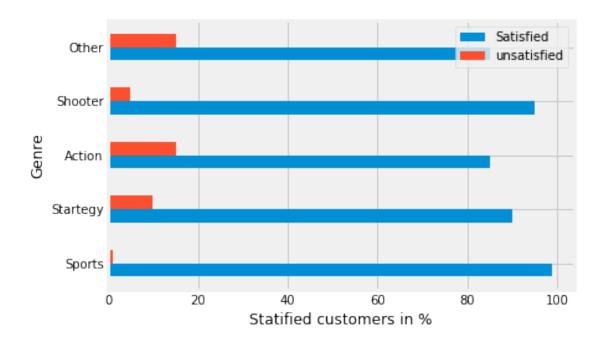
```
Out[11]:
                    Satisfied unsatisfied
         Genre
         Sports
                           99
                                          1
         Startegy
                           90
                                         10
         Action
                           85
                                         15
                                          5
         Shooter
                           95
         Other
                           85
                                         15
```

Split Category bar plot > Vertical

<Figure size 720x360 with 0 Axes>



#### Horizontal



#### **Split Category bar plot** > Vertical

<Figure size 720x360 with 0 Axes>

