#DataVis with Seaborn

Assumptions - In the magazine, I did not consider the skin images that were in B/W. The three classes are size of skin samples, color of skin samples as required and third one is intensity that has value from 1-5 to take camera flash into consideration during the magazine photoshoots.

The Data Visualization has primarily used bar graphs, histograph and pie chart

```
In [6]: import pandas as pd
   import numpy as np
   import matplotlib.pyplot as plt
   import seaborn as sns

//matplotlib inline
```

```
In [7]: train = pd.read_csv("dataset.csv")
```

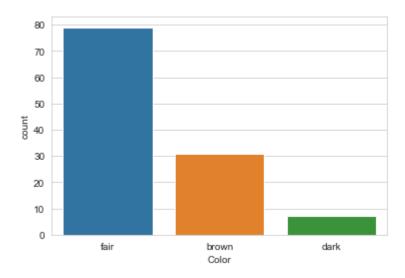
In [8]: train.head()

Out[8]:

	Index	Sample_Name	Color	Size	Intensity
0	1	pg_1	fair	medium	3
1	2	pg_7_7	fair	small	4
2	3	pg_9	fair	small	5
3	4	pg_10	brown	medium	3
4	5	pg_13	brown	small	2

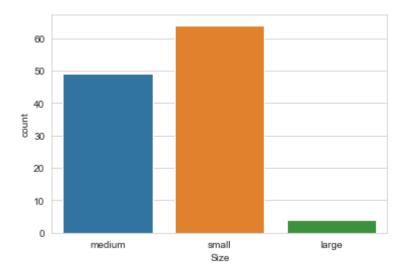
```
In [9]: sns.set_style('whitegrid')
sns.countplot(x='Color', data=train)
```

Out[9]: <matplotlib.axes._subplots.AxesSubplot at 0x2d618061508>



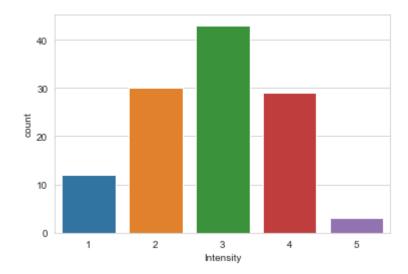
In [10]: sns.countplot(x='Size', data=train)

Out[10]: <matplotlib.axes._subplots.AxesSubplot at 0x2d618062d08>



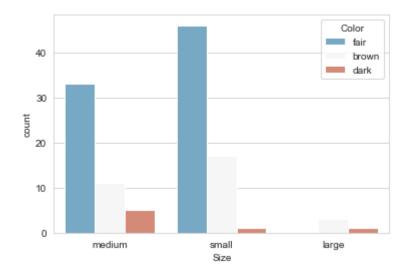
In [11]: sns.countplot(x='Intensity', data=train)

Out[11]: <matplotlib.axes._subplots.AxesSubplot at 0x2d618116848>



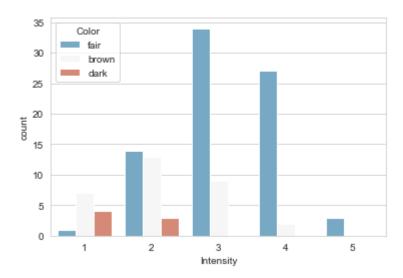
```
In [12]: sns.set_style('whitegrid')
sns.countplot(x='Size', hue='Color', data=train, palette='RdBu_r')
```

Out[12]: <matplotlib.axes._subplots.AxesSubplot at 0x2d61817c8c8>



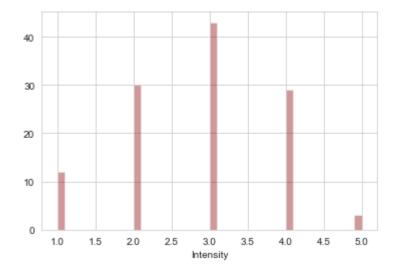
```
In [13]: sns.set_style('whitegrid')
sns.countplot(x='Intensity', hue='Color', data=train, palette='RdBu_r')
```

Out[13]: <matplotlib.axes._subplots.AxesSubplot at 0x2d6181f5348>



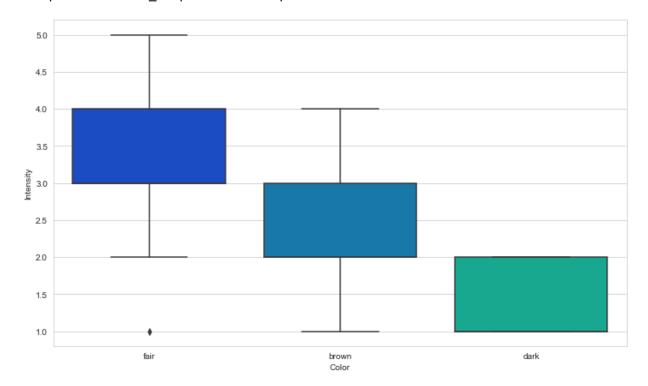
```
In [14]: sns.distplot(train['Intensity'].dropna(), kde=False, color='darkred', bins=40)
```

Out[14]: <matplotlib.axes._subplots.AxesSubplot at 0x2d6181d5c48>



```
In [15]: plt.figure(figsize=(12, 7))
    sns.boxplot(x='Color', y='Intensity', data=train, palette='winter')
```

Out[15]: <matplotlib.axes._subplots.AxesSubplot at 0x2d6182b9f48>



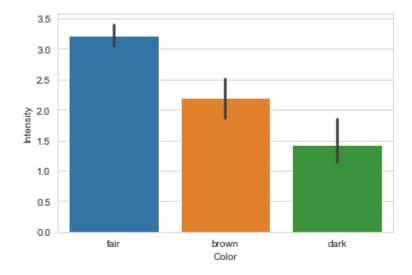
In [16]: sns.heatmap(train.corr())

Out[16]: <matplotlib.axes._subplots.AxesSubplot at 0x2d6183fa748>



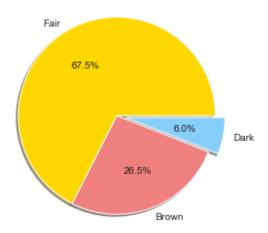


Out[18]: <matplotlib.axes._subplots.AxesSubplot at 0x2d6188a1088>



```
In [19]: # also showing the piechart of percentage
labels = 'Fair', 'Brown', 'Dark'
sizes = [79, 31, 7]
colors = ['gold', 'lightcoral', 'lightskyblue']
explode = (0, 0, 0.1)

plt.pie(sizes, explode=explode, labels=labels, colors=colors, autopct='%1.1f%',
    plt.axis('equal')
plt.show()
```



Thankyou!

In []: