

```
In [79]: import pandas as pd
import numpy as np
import seaborn as sns
import matplotlib.pyplot as plt
%matplotlib inline
```

```
In [80]: HM_2015 = pd.read_csv('2015.csv')
HM_2016= pd.read_csv('2016.csv')
HM_2017 = pd.read_csv('2017.csv')
HM_2018= pd.read_csv('2018.csv')
HM_2019= pd.read_csv('2019.csv')
```

```
In [81]: HM.head()
```

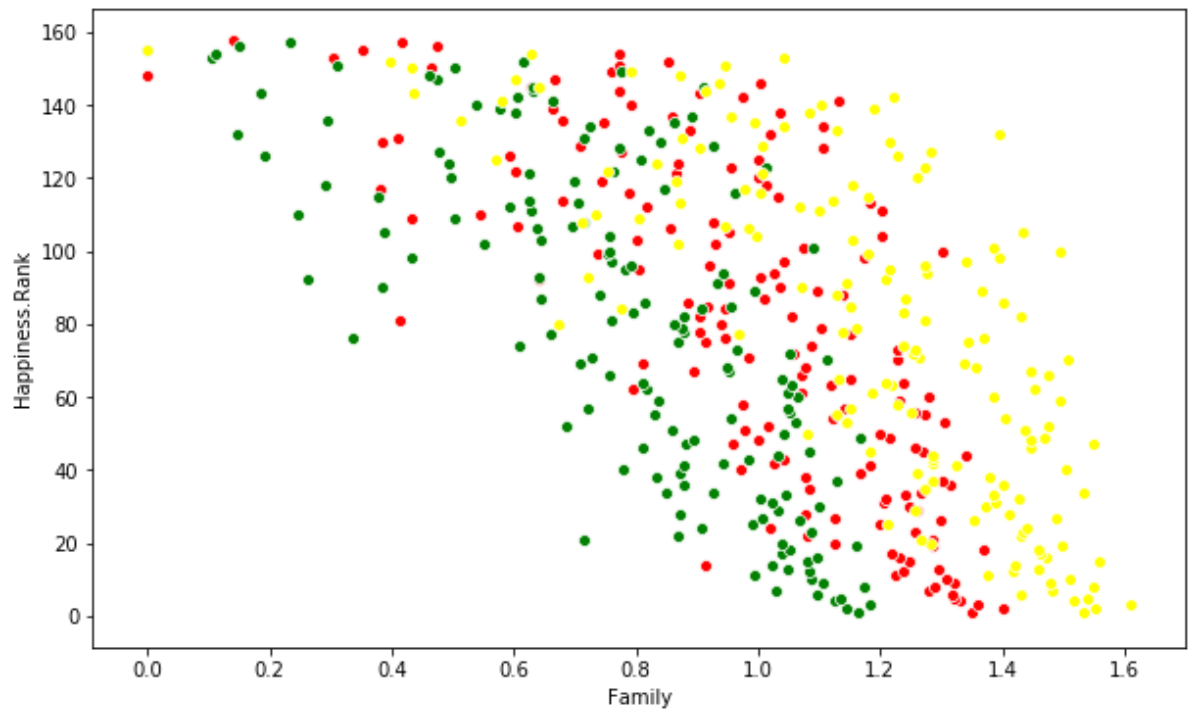
Out[81]:

	Country	Region	Happiness Rank	Happiness Score	Standard Error	Economy (GDP per Capita)	Family	Health (Life Expectancy)	Freec
0	Switzerland	Western Europe	1	7.587	0.03411	1.39651	1.34951	0.94143	0.66
1	Iceland	Western Europe	2	7.561	0.04884	1.30232	1.40223	0.94784	0.62
2	Denmark	Western Europe	3	7.527	0.03328	1.32548	1.36058	0.87464	0.64
3	Norway	Western Europe	4	7.522	0.03880	1.45900	1.33095	0.88521	0.66
4	Canada	North America	5	7.427	0.03553	1.32629	1.32261	0.90563	0.63

Comparison of category of family

```
In [82]: plt.subplots(figsize=(10,6))
sns.scatterplot(x='Family', y='Happiness Rank', color = 'red' ,data=HM_2015)
sns.scatterplot(x='Family', y='Happiness Rank', color = 'green',data=HM_2016)
sns.scatterplot(x='Family', y='Happiness.Rank', color = 'yellow',data=HM_2017)
```

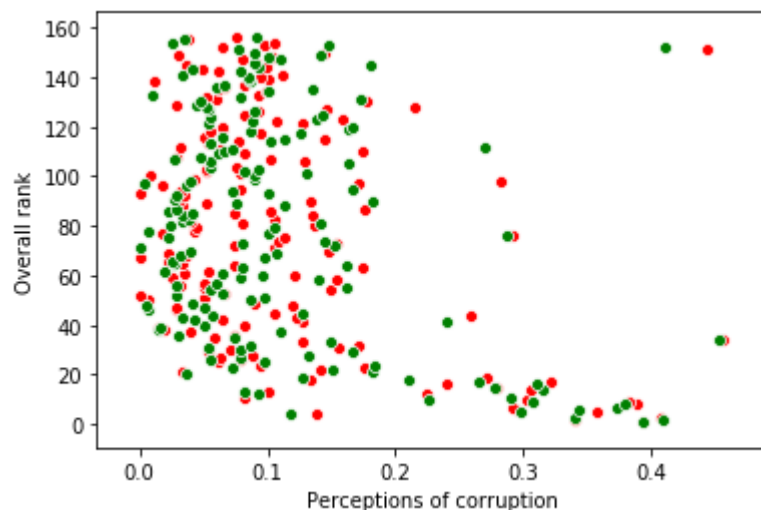
Out[82]: <matplotlib.axes._subplots.AxesSubplot at 0x258046ce808>



Overall Rank as per the preception of corruption in the year 2018 & 2019

```
In [83]: sns.scatterplot(x='Perceptions of corruption', y='Overall rank', color = 'red',
, data=HM_2018)
sns.scatterplot(x='Perceptions of corruption', y='Overall rank', color = 'green',
, data=HM_2019)
```

Out[83]: <matplotlib.axes._subplots.AxesSubplot at 0x2580472b3c8>



Comparison of happiness score for the year 2015 & 2019

```
In [85]: HM_2015 = HM_2015["Happiness Score"].head()
HM_2019 = HM_2019["Score"].head()

comp_data = pd.concat([HM_2015, HM_2019], axis = 1)
comp_data
```

Out[85]:

	Happiness Score	Score
0	7.587	7.769
1	7.561	7.600
2	7.527	7.554
3	7.522	7.494
4	7.427	7.488

In []:

In []: