

Data Preprocessing

```
In [1]: import pandas as pd
import seaborn as sns
import numpy as np
```

```
In [2]: df=pd.read_csv('vgsales.csv')
df.shape
```

Out[2]: (16598, 11)

```
In [5]: t2 = pd.read_csv('vgsales.csv')
df=pd.read_csv('vgsales.csv')
df.head()
```

Out[5]:

	Rank	Name	Platform	Year	Genre	Publisher	NA_Sales	EU_Sales	JP_Sales	Othe
0	1	Wii Sports	Wii	2006.0	Sports	Nintendo	41.49	29.02	3.77	
1	2	Super Mario Bros.	NES	1985.0	Platform	Nintendo	29.08	3.58	6.81	
2	3	Mario Kart Wii	Wii	2008.0	Racing	Nintendo	15.85	12.88	3.79	
3	4	Wii Sports Resort	Wii	2009.0	Sports	Nintendo	15.75	11.01	3.28	
4	5	Pokemon Red/Pokemon Blue	GB	1996.0	Role-Playing	Nintendo	11.27	8.89	10.22	

```
In [10]: from sklearn.preprocessing import LabelEncoder
labelencoder_df=LabelEncoder()
df['Genre']=labelencoder_df.fit_transform(df['Genre'])
df['Platform']=labelencoder_df.fit_transform(df['Platform'])
df.head()
```

Out[10]:

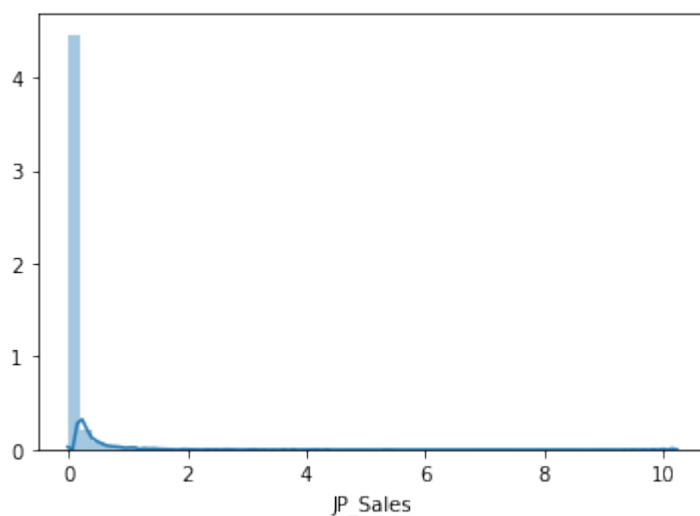
	Rank	Name	Platform	Year	Genre	Publisher	NA_Sales	EU_Sales	JP_Sales	Other_
0	1	Wii Sports	26	2006.0	10	Nintendo	41.49	29.02	3.77	
1	2	Super Mario Bros.	11	1985.0	4	Nintendo	29.08	3.58	6.81	
2	3	Mario Kart Wii	26	2008.0	6	Nintendo	15.85	12.88	3.79	
3	4	Wii Sports Resort	26	2009.0	10	Nintendo	15.75	11.01	3.28	
4	5	Pokemon Red/Pokemon Blue	5	1996.0	7	Nintendo	11.27	8.89	10.22	

```
In [12]: df.shape
```

```
Out[12]: (16598, 11)
```

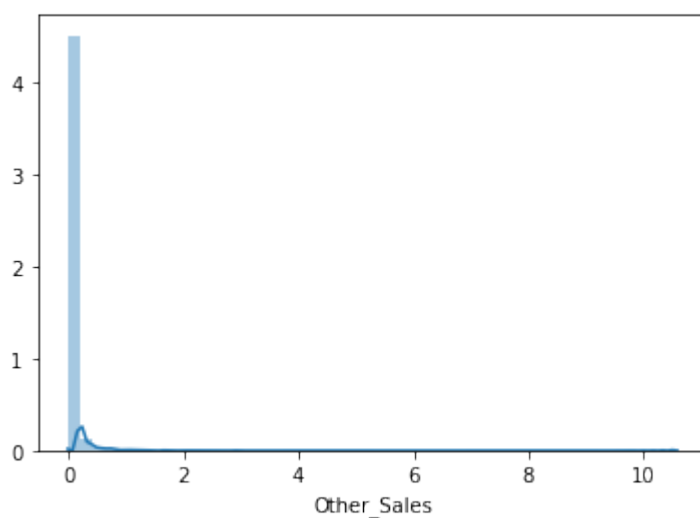
```
In [13]: sns.distplot(df['JP_Sales'])
```

```
Out[13]: <matplotlib.axes._subplots.AxesSubplot at 0x238fed0e5f8>
```



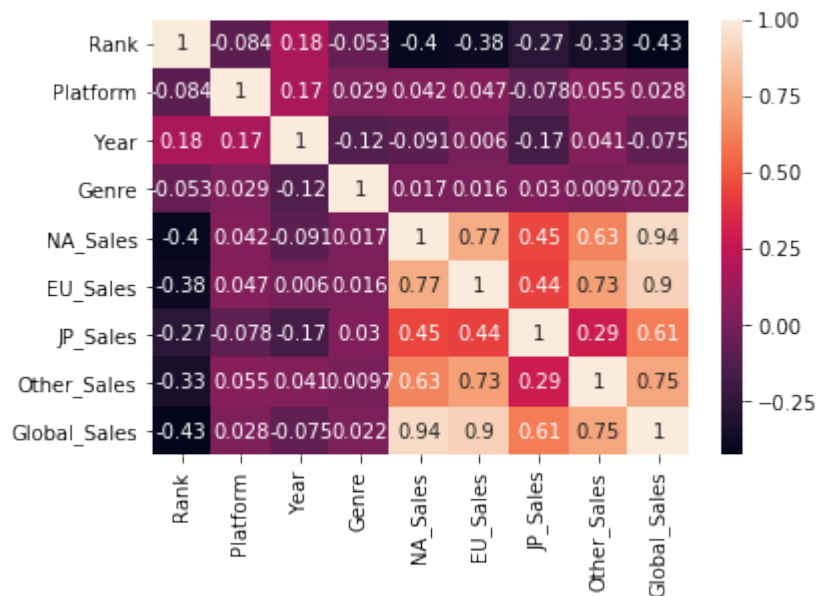
```
In [14]: sns.distplot(df['Other_Sales'])
```

```
Out[14]: <matplotlib.axes._subplots.AxesSubplot at 0x238fec22470>
```



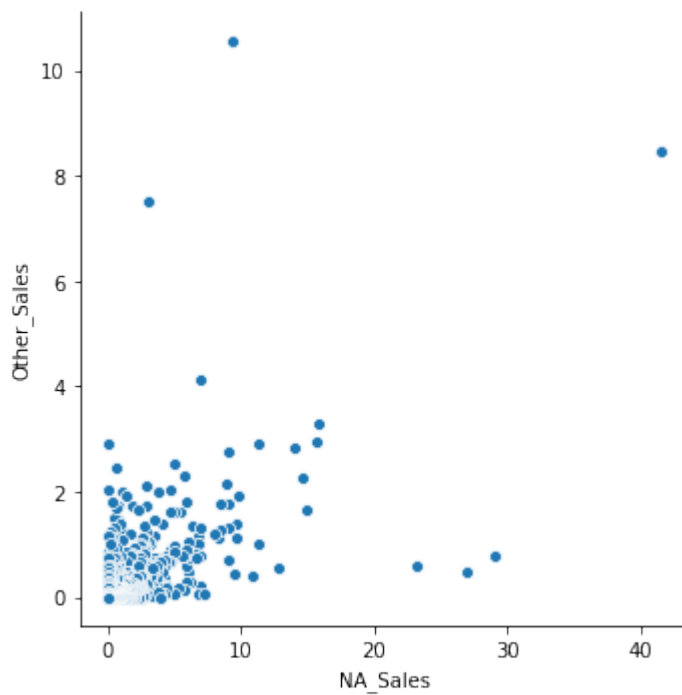
```
In [15]: corr_matrix=df.corr()  
sns.heatmap(data=corr_matrix, annot=True)
```

```
Out[15]: <matplotlib.axes._subplots.AxesSubplot at 0x238feeedd68>
```



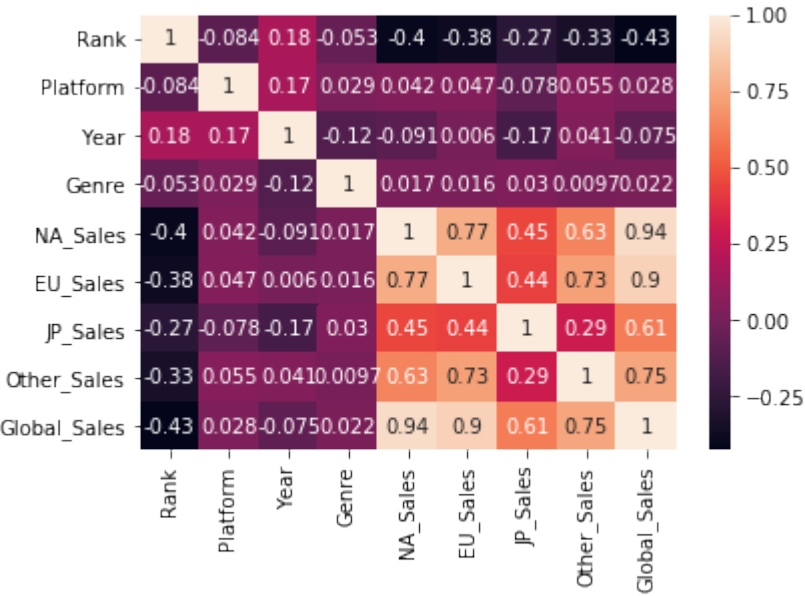
```
In [16]: sns.relplot(x='NA_Sales', y='Other_Sales', data=df)
```

```
Out[16]: <seaborn.axisgrid.FacetGrid at 0x238ff054240>
```



```
In [11]: corr_matrix=df.corr()  
sns.heatmap(data=corr_matrix, annot=True)
```

```
Out[11]: <matplotlib.axes._subplots.AxesSubplot at 0x238fe8f6f98>
```



```
In [ ]:
```