```python
In [1]:  import pandas as pd
         import numpy as np
         import matplotlib.pyplot as plt
         %matplotlib inline
```

```python
In [2]:  googleOne = pd.read_csv("./g/googleplaystore.csv")
         googleOne.fillna(0.0,inplace = True)
         appleOne = pd.read_csv("./a/AppleStore.csv")
```

```python
In [3]:  googleOne.head()
```

Out[3]:

	App	Category	Rating	Reviews	Size	Installs	Type	Price	Content Rating	
0	Photo Editor & Candy Camera & Grid & ScrapBook	ART_AND_DESIGN	4.1	159	19M	10,000+	Free	0	Everyone	
1	Coloring book moana	ART_AND_DESIGN	3.9	967	14M	500,000+	Free	0	Everyone	De
2	U Launcher Lite – FREE Live Cool Themes, Hide ...	ART_AND_DESIGN	4.7	87510	8.7M	5,000,000+	Free	0	Everyone	
3	Sketch - Draw & Paint	ART_AND_DESIGN	4.5	215644	25M	50,000,000+	Free	0	Teen	
4	Pixel Draw - Number Art Coloring Book	ART_AND_DESIGN	4.3	967	2.8M	100,000+	Free	0	Everyone	Des

In [4]: `appleOne.head()`

Out[4]:

	Unnamed: 0	id	track_name	size_bytes	currency	price	rating_count_tot	rating_count_
0	1	281656475	PAC-MAN Premium	100788224	USD	3.99	21292	
1	2	281796108	Evernote - stay organized	158578688	USD	0.00	161065	
2	3	281940292	WeatherBug - Local Weather, Radar, Maps, Alerts	100524032	USD	0.00	188583	2
3	4	282614216	eBay: Best App to Buy, Sell, Save! Online Shop...	128512000	USD	0.00	262241	
4	5	282935706	Bible	92774400	USD	0.00	985920	5

In [5]:
```
#Now try to streamline both datasets.
#first change all the object values to numeric values in the google data
set and rename them
```

In [6]:
```python
remove_google_columns = ['Genres','Last Updated','Current Ver', 'Android
Ver','Installs','Type']
remove_apple_columns = ['Unnamed: 0','currency','id','rating_count_ver',
'user_rating_ver','ver','sup_devices.num','ipadSc_urls.num','lang.num',
'vpp_lic']
```

In [7]:
```python
googleOne.drop(remove_google_columns, axis = 1, inplace = True)
appleOne.drop(remove_apple_columns, axis = 1, inplace = True)
```

In [8]: `googleOne.head()`

Out[8]:

	App	Category	Rating	Reviews	Size	Price	Content Rating
0	Photo Editor & Candy Camera & Grid & ScrapBook	ART_AND_DESIGN	4.1	159	19M	0	Everyone
1	Coloring book moana	ART_AND_DESIGN	3.9	967	14M	0	Everyone
2	U Launcher Lite – FREE Live Cool Themes, Hide ...	ART_AND_DESIGN	4.7	87510	8.7M	0	Everyone
3	Sketch - Draw & Paint	ART_AND_DESIGN	4.5	215644	25M	0	Teen
4	Pixel Draw - Number Art Coloring Book	ART_AND_DESIGN	4.3	967	2.8M	0	Everyone

```
In [9]:  appleOne.head()
```

Out[9]:

	track_name	size_bytes	price	rating_count_tot	user_rating	cont_rating	prime_genre
0	PAC-MAN Premium	100788224	3.99	21292	4.0	4+	Games
1	Evernote - stay organized	158578688	0.00	161065	4.0	4+	Productivity
2	WeatherBug - Local Weather, Radar, Maps, Alerts	100524032	0.00	188583	3.5	4+	Weather
3	eBay: Best App to Buy, Sell, Save! Online Shop...	128512000	0.00	262241	4.0	12+	Shopping
4	Bible	92774400	0.00	985920	4.5	4+	Reference

```
In [10]:  google_rename = {"App":"name","Category":"category", "Rating":"rating",
          'Reviews':'nreviews','Size':'size','Price':'price','Content Rating':'con
          tent_rating'}
          apple_rename = {"track_name":"name","prime_genre":"category","user_ratin
          g":"rating",'cont_rating':'content_rating','size_bytes':'size'}

          googleOne.rename(columns=google_rename, inplace = True)
          appleOne.rename(columns=apple_rename, inplace = True)
```

```
In [11]:  googleOne.to_csv("main_google.csv", index = False)
          appleOne.to_csv("main_apple.csv", index = False)
```