

```
In [1]: #importing Libraries

import numpy as np
import pandas as pd
from matplotlib import pyplot as plt
import seaborn as sns
```

```
In [2]: #read csv file

book = pd.read_csv('bestsellers_with_categories_2022_03_27.csv')
```

```
In [3]: book.head()
```

```
Out[3]:
```

	Name	Author	User Rating	Reviews	Price	Year	Genre
0	Act Like a Lady, Think Like a Man: What Men Re...	Steve Harvey	4.6	5013	17	2009	Non Fiction
1	Arguing with Idiots: How to Stop Small Minds a...	Glenn Beck	4.6	798	5	2009	Non Fiction
2	Breaking Dawn (The Twilight Saga, Book 4)	Stephenie Meyer	4.6	9769	13	2009	Fiction
3	Crazy Love: Overwhelmed by a Relentless God	Francis Chan	4.7	1542	14	2009	Non Fiction
4	Dead And Gone: A Sookie Stackhouse Novel (Sook...	Charlaine Harris	4.6	1541	4	2009	Fiction

```
In [4]: book.tail()
```

```
Out[4]:
```

	Name	Author	User Rating	Reviews	Price	Year	Genre
695	The Wonderful Things You Will Be	Emily Winfield Martin	4.9	20920	9	2022	Fiction
696	Ugly Love: A Novel	Colleen Hoover	4.7	33929	10	2022	Fiction
697	Verity	Colleen Hoover	4.6	71826	11	2022	Fiction
698	What to Expect When You're Expecting	Heidi Murkoff	4.8	27052	13	2022	Non Fiction
699	Where the Crawdads Sing	Delia Owens	4.8	208917	10	2022	Fiction

In [5]: `book.shape`

Out[5]: (700, 7)

In [6]: `book.describe()`

Out[6]:

	User Rating	Reviews	Price	Year
count	700.000000	700.000000	700.000000	700.000000
mean	4.639857	19255.195714	12.700000	2015.500000
std	0.218586	23613.443875	9.915162	4.034011
min	3.300000	37.000000	0.000000	2009.000000
25%	4.500000	4987.250000	7.000000	2012.000000
50%	4.700000	10284.000000	11.000000	2015.500000
75%	4.800000	23358.000000	15.000000	2019.000000
max	4.900000	208917.000000	105.000000	2022.000000

In [8]: `book.info()`

```
<class 'pandas.core.frame.DataFrame'>
RangeIndex: 700 entries, 0 to 699
Data columns (total 7 columns):
#   Column      Non-Null Count  Dtype
---  -
0   Name        700 non-null   object
1   Author      700 non-null   object
2   User Rating  700 non-null   float64
3   Reviews     700 non-null   int64
4   Price       700 non-null   int64
5   Year        700 non-null   int64
6   Genre       700 non-null   object
dtypes: float64(1), int64(3), object(3)
memory usage: 38.4+ KB
```

```
In [11]: book.isnull().sum()
```

```
Out[11]: Name          0  
         Author        0  
         User Rating   0  
         Reviews       0  
         Price         0  
         Year          0  
         Genre         0  
         dtype: int64
```

```
In [12]: book['Genre'].value_counts()
```

```
Out[12]: Non Fiction    388  
         Fiction       312  
         Name: Genre, dtype: int64
```

```
In [13]: book['Author'].value_counts()
```

```
Out[13]: Jeff Kinney          14  
         Gary Chapman        14  
         Suzanne Collins     12  
         Rick Riordan        11  
         American Psychological Association 11  
         ..  
         Randall Munroe       1  
         Coloring Books for Adults 1  
         Chris Kyle           1  
         Angie Grace          1  
         Stephen Perrine       1  
         Name: Author, Length: 305, dtype: int64
```

```
In [14]: #books written by jeff kinney
```

```
In [25]: jeff_kinney=book[book['Author']=='Jeff Kinney']
```

```
In [26]: #reseting index
jeff_kinney=jeff_kinney.reset_index()
```

```
In [27]: jeff_kinney.head(14)
```

Out[27]:

	index	Name	Author	User Rating	Reviews	Price	Year	Genre
0	5	Diary of a Wimpy Kid: The Last Straw (Book 3)	Jeff Kinney	4.8	3837	15	2009	Fiction
1	7	Dog Days (Diary of a Wimpy Kid, Book 4) (Volum...	Jeff Kinney	4.8	3181	12	2009	Fiction
2	95	The Ugly Truth (Diary of a Wimpy Kid, Book 5)	Jeff Kinney	4.8	3796	12	2010	Fiction
3	103	Cabin Fever (Diary of a Wimpy Kid, Book 6)	Jeff Kinney	4.8	4505	0	2011	Fiction
4	193	The Third Wheel (Diary of a Wimpy Kid, Book 7)	Jeff Kinney	4.7	6377	7	2012	Fiction
5	205	Diary of a Wimpy Kid: Hard Luck, Book 8	Jeff Kinney	4.8	6812	0	2013	Fiction
6	254	Diary of a Wimpy Kid: The Long Haul	Jeff Kinney	4.8	6540	22	2014	Fiction
7	328	Old School (Diary of a Wimpy Kid #10)	Jeff Kinney	4.8	6169	7	2015	Fiction
8	359	Double Down (Diary of a Wimpy Kid #11)	Jeff Kinney	4.8	5118	20	2016	Fiction
9	432	The Getaway	Jeff Kinney	4.8	5836	0	2017	Fiction
10	489	The Meltdown (Diary of a Wimpy Kid Book 13)	Jeff Kinney	4.8	5898	8	2018	Fiction
11	548	Wrecking Ball (Diary of a Wimpy Kid Book 14)	Jeff Kinney	4.9	9413	8	2019	Fiction
12	586	The Deep End (Diary of a Wimpy Kid Book 15)	Jeff Kinney	4.9	38674	7	2020	Fiction
13	604	Big Shot Diary of a Wimpy Kid Book 16	Jeff Kinney	4.9	12259	7	2021	Fiction

```
In [31]: #checking which book got highest reviews
highest_reviewed_book=jeff_kinney.sort_values(by=['Reviews'],ascending=False)
```

```
In [33]: highest_reviewed_book.head(5)
```

```
Out[33]:
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	index	Name	Author	User Rating	Reviews	Price	Year	Genre
12	586	The Deep End (Diary of a Wimpy Kid Book 15)	Jeff Kinney	4.9	38674	7	2020	Fiction
13	604	Big Shot Diary of a Wimpy Kid Book 16	Jeff Kinney	4.9	12259	7	2021	Fiction
11	548	Wrecking Ball (Diary of a Wimpy Kid Book 14)	Jeff Kinney	4.9	9413	8	2019	Fiction
5	205	Diary of a Wimpy Kid: Hard Luck, Book 8	Jeff Kinney	4.8	6812	0	2013	Fiction
6	254	Diary of a Wimpy Kid: The Long Haul	Jeff Kinney	4.8	6540	22	2014	Fiction

```
In [34]: # avg User rating he got between 2009 to 2022
jeff_kinney['User Rating'].mean()
```

```
Out[34]: 4.814285714285714
```

```
In [36]: # Genre in which he writes books
jeff_kinney['Genre'].value_counts()
```

```
Out[36]: Fiction      14
Name: Genre, dtype: int64
```

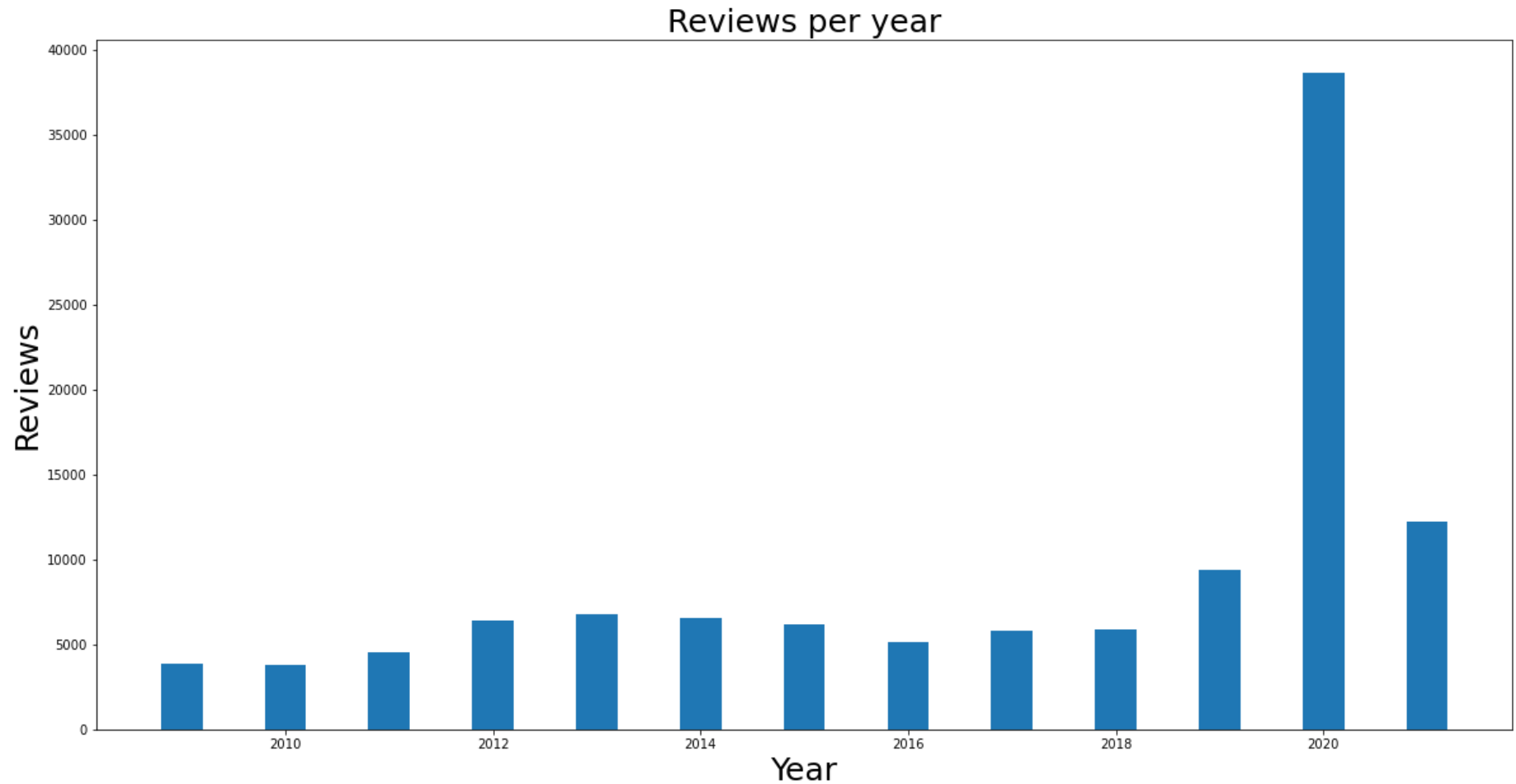
```
In [38]: # most expensive book of jeff kinney
expensive_book=jeff_kinney.sort_values(by=['Price'],ascending=False)
```

```
In [39]: expensive_book.head()
```

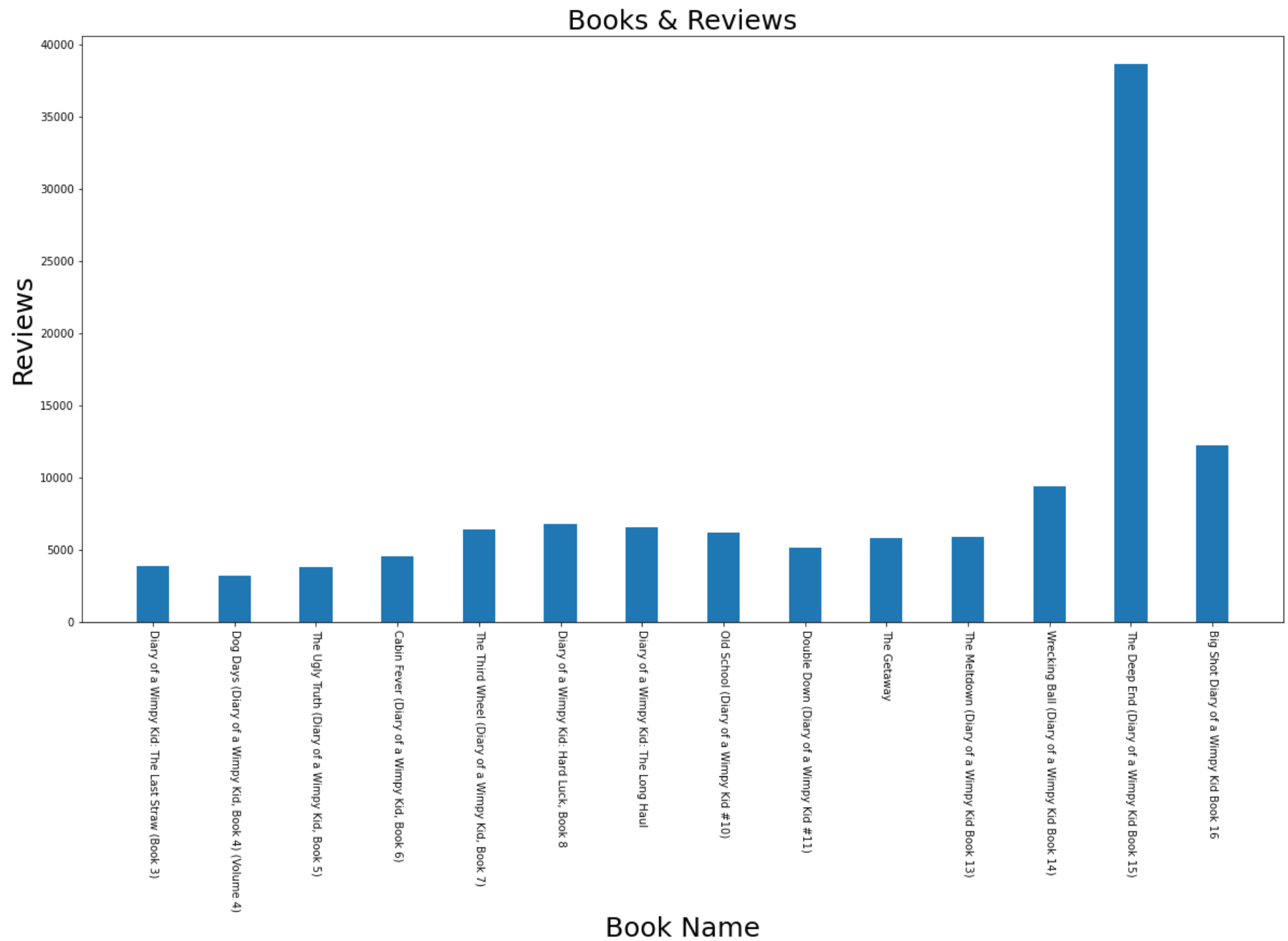
```
Out[39]:
```

	index	Name	Author	User Rating	Reviews	Price	Year	Genre
6	254	Diary of a Wimpy Kid: The Long Haul	Jeff Kinney	4.8	6540	22	2014	Fiction
8	359	Double Down (Diary of a Wimpy Kid #11)	Jeff Kinney	4.8	5118	20	2016	Fiction
0	5	Diary of a Wimpy Kid: The Last Straw (Book 3)	Jeff Kinney	4.8	3837	15	2009	Fiction
1	7	Dog Days (Diary of a Wimpy Kid, Book 4) (Volum...	Jeff Kinney	4.8	3181	12	2009	Fiction
2	95	The Ugly Truth (Diary of a Wimpy Kid, Book 5)	Jeff Kinney	4.8	3796	12	2010	Fiction

```
In [46]: plt.figure(figsize=(20,10))
plt.bar(jeff_kinney['Year'],jeff_kinney['Reviews'],width=0.4)
plt.xlabel("Year",size=25)
plt.ylabel("Reviews",size=25)
plt.title("Reviews per year",size=25)
plt.show()
```



```
In [57]: plt.figure(figsize=(20,10))
plt.bar(jeff_kinney['Name'],jeff_kinney['Reviews'],width=0.4)
plt.xlabel("Book Name",size=25)
plt.xticks(rotation=270)
plt.ylabel("Reviews",size=25)
plt.title("Books & Reviews",size=25)
plt.show()
```

SUMMARY

- Highest Reviews among all book is 2,08,917
- There are 388 Non fiction books & 312 fiction books
- Highest number of book is been written by Jeff kinney (between yr 2009-22)
- jeff kinney is fiction book writer.
- Highest Reviewed book of jeff kinney is "The Deep End (diary of wimpy kid book 15)"
- Jeff kinney got 38,674 reviews of his highest reviewed book
- price of jeff kinney's highest reviewed book is 7 dollar.
- In year 2020 jeff kinney published book which is his highest reviewed book
- Avg Rating Jeff kinney got between year 2009-22 is 4.8
- jeff kinney's most expensive book is "Diary of wimpy kid : The long Haul" published in year 2014 and he got 6540 review on book