

# Analyze Best Selling Amazon Books with Pandas

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Draft Session (10m) H O D CPU RAM ⏻

Prerequisites: Python

Versions: Python 3.9.6, pandas 2.0.1

[5]:  

```
import pandas as pd
df = pd.read_csv('/kaggle/input/d/sootersaalu/amazon-top-50-bestselling-books-2009-2019/bestsellers with categories.csv')
df
```

[5]:

	Name	Author	User Rating	Reviews	Price	Year	Genre
0	10-Day Green Smoothie Cleanse	JJ Smith	4.7	17350	8	2016	Non Fiction
1	11/22/63: A Novel	Stephen King	4.6	2052	22	2011	Fiction
2	12 Rules for Life: An Antidote to Chaos	Jordan B. Peterson	4.7	18979	15	2018	Non Fiction
3	1984 (Signet Classics)	George Orwell	4.7	21424	6	2017	Fiction
4	5,000 Awesome Facts (About Everything!) (Natio...	National Geographic Kids	4.8	7665	12	2019	Non Fiction
...	...	...	...	...	...	...	...
545	Wrecking Ball (Diary of a Wimpy Kid Book 14)	Jeff Kinney	4.9	9413	8	2019	Fiction
546	You Are a Badass: How to Stop Doubting Your Gr...	Jen Sincero	4.7	14331	8	2016	Non Fiction
547	You Are a Badass: How to Stop Doubting Your Gr...	Jen Sincero	4.7	14331	8	2017	Non Fiction
548	You Are a Badass: How to Stop Doubting Your Gr...	Jen Sincero	4.7	14331	8	2018	Non Fiction
549	You Are a Badass: How to Stop Doubting Your Gr...	Jen Sincero	4.7	14331	8	2019	Non Fiction

550 rows × 7 columns

[6]:

```
print(df.head())

print(df.shape)

print(df.columns)

print(df.describe())
```

```

                                Name \
0                10-Day Green Smoothie Cleanse
1                11/22/63: A Novel
2                12 Rules for Life: An Antidote to Chaos
3                1984 (Signet Classics)
4  5,000 Awesome Facts (About Everything!) (Natio...

                                Author  User Rating  Reviews  Price  Year      Genre
0                JJ Smith            4.7      17350      8  2016  Non Fiction
1                Stephen King          4.6      2052     22  2011    Fiction
2            Jordan B. Peterson          4.7     18979     15  2018  Non Fiction
3                George Orwell          4.7     21424      6  2017    Fiction
4  National Geographic Kids          4.8      7665     12  2019  Non Fiction
(550, 7)
Index(['Name', 'Author', 'User Rating', 'Reviews', 'Price', 'Year', 'Genre'], dtype='object')

                                User Rating      Reviews      Price      Year
count    550.000000    550.000000    550.000000    550.000000
mean         4.618364   11953.281818    13.100000   2014.000000
std          0.226980   11731.132017    10.842262     3.165156
min          3.300000     37.000000     0.000000   2009.000000
25%          4.500000   4058.000000     7.000000   2011.000000
50%          4.700000   8580.000000    11.000000   2014.000000
75%          4.800000   17253.250000    16.000000   2017.000000
max          4.900000   87841.000000   105.000000   2019.000000
```

```
[9]: df.drop_duplicates(inplace=True)
```

```
[10]: df.rename(columns={"Name": "Title", "Year": "Publication Year", "User Rating": "Rating"}, inplace=True)
```

```
[11]: df["Price"] = df["Price"].astype(float)
```

```
[12]: author_counts = df['Author'].value_counts()
      print(author_counts)
```

```
Author
Jeff Kinney          12
Gary Chapman         11
Rick Riordan         11
Suzanne Collins      11
American Psychological Association  10
..
Keith Richards       1
Chris Cleave          1
Alice Schertle        1
Celeste Ng            1
Adam Gasiewski        1
Name: count, Length: 248, dtype: int64
```

```
[13]: avg_rating_by_genre = df.groupby("Genre")["Rating"].mean()  
      print(avg_rating_by_genre)
```

```
Genre  
Fiction      4.648333  
Non Fiction  4.595161  
Name: Rating, dtype: float64
```

```
[14]: author_counts.head(10).to_csv("top_authors.csv")  
  
      avg_rating_by_genre.to_csv("avg_rating_by_genre.csv")
```