

Box Office Explorations

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Project Overview

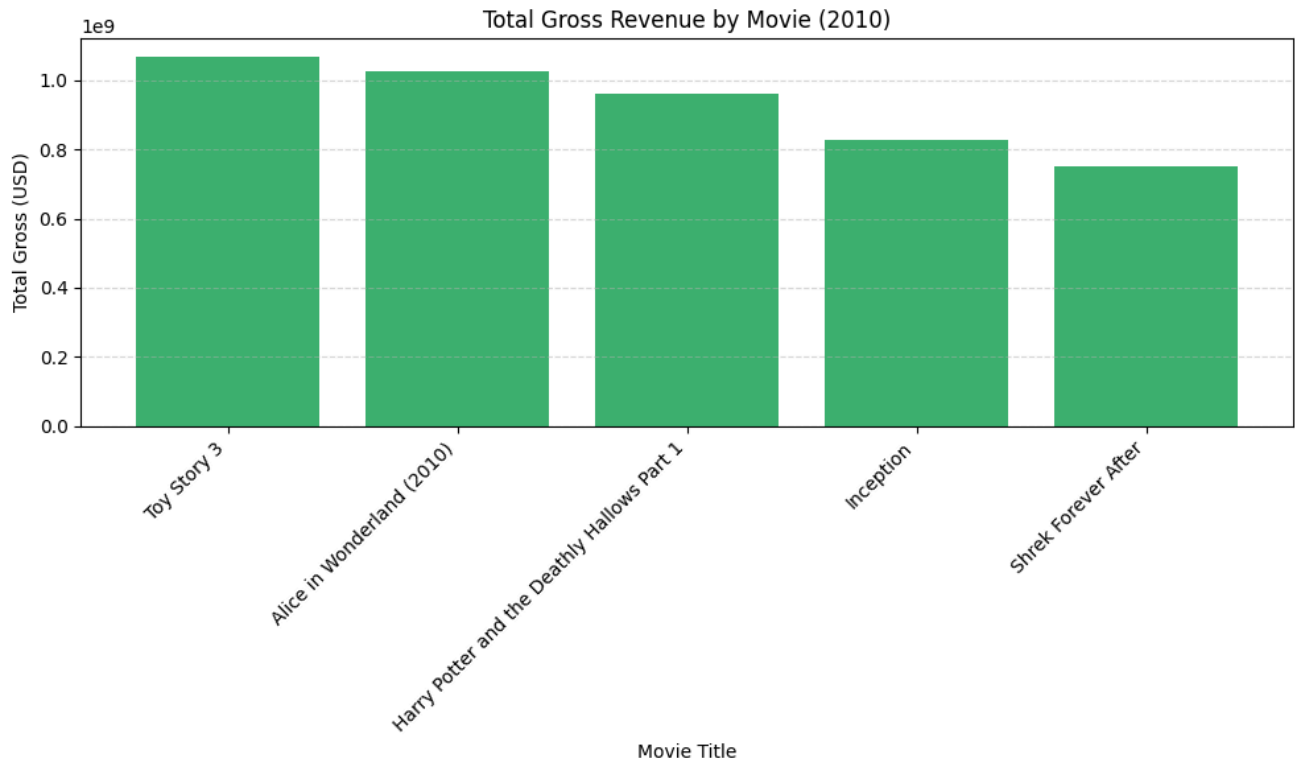
Analyzing global box office revenue by studio

- Dataset: Movie gross earnings across markets
- Focus: Domestic vs. Foreign performance, Ratings, Genres, and Release timing

	title	studio	domestic_gross	foreign_gross	year
0	Toy Story 3	BV	415000000.0	652000000	2010
1	Alice in Wonderland (2010)	BV	334200000.0	691300000	2010
2	Harry Potter and the Deathly Hallows Part 1	WB	296000000.0	664300000	2010
3	Inception	WB	292600000.0	535700000	2010
4	Shrek Forever After	P/DW	238700000.0	513900000	2010

Top titles as of 2010

An analysis of the top gross generating movies.



```

<class 'pandas.core.frame.DataFrame'>
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Data columns (total 5 columns):
 #   Column          Non-Null Count  Dtype  
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 0   title           3387 non-null   object  
 1   studio          3382 non-null   object  
 2   domestic_gross  3359 non-null   float64  
 3   foreign_gross   2037 non-null   object  
 4   year            3387 non-null   int64  
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Shape: (3387, 5)

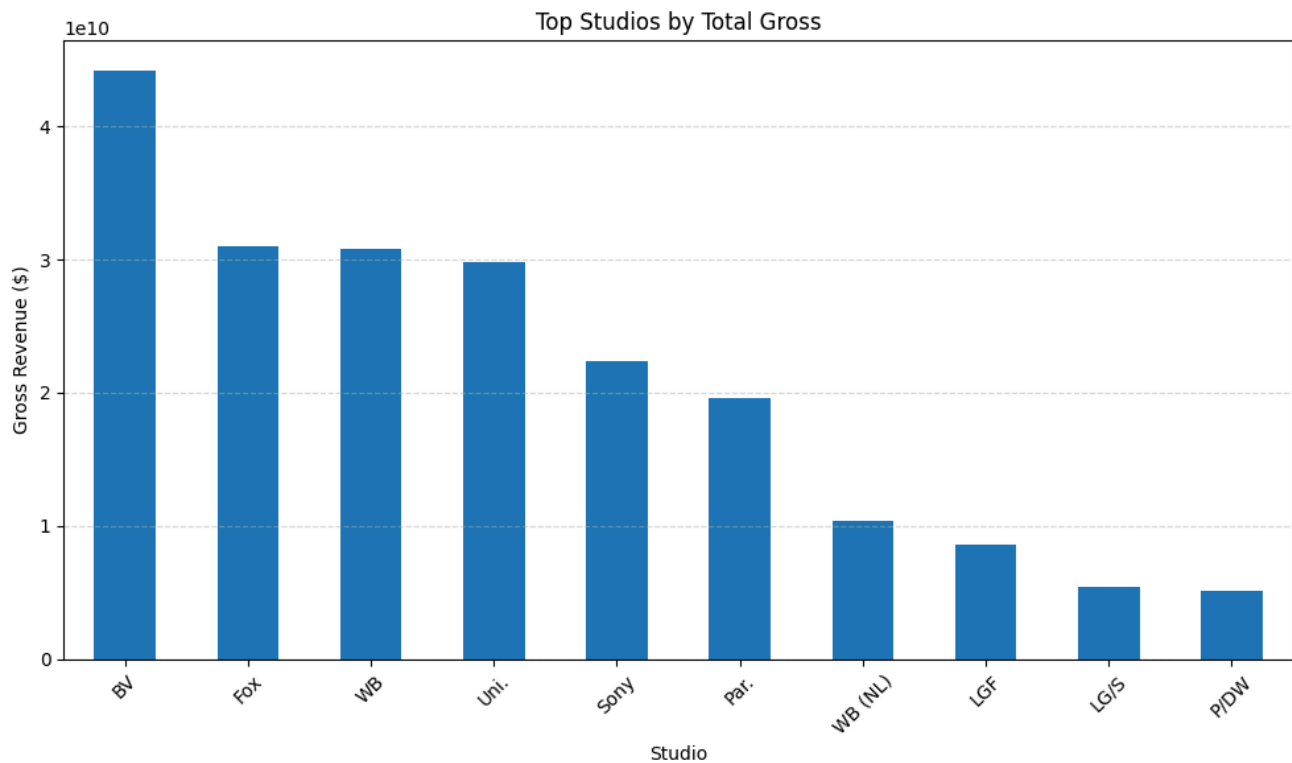
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title           0
domestic_gross  0
foreign_gross   0
dtype: int64

```

	domestic_gross	foreign_gross	total_gross
count	3.387000e+03	3.387000e+03	3.387000e+03
mean	2.850821e+07	4.502979e+07	7.353800e+07
std	6.675575e+07	1.126843e+08	1.705091e+08
min	0.000000e+00	0.000000e+00	1.000000e+02
25%	1.115000e+05	0.000000e+00	2.740000e+05
50%	1.300000e+06	1.500000e+06	5.475000e+06
75%	2.750000e+07	2.915000e+07	6.135000e+07
max	9.367000e+08	9.605000e+08	1.518900e+09



Project Question

Which studios consistently produce high-grossing films, and how does domestic vs. foreign revenue vary by studio? Which genres generate the most foreign revenue?

Do certain studios excel in either domestic or foreign markets?

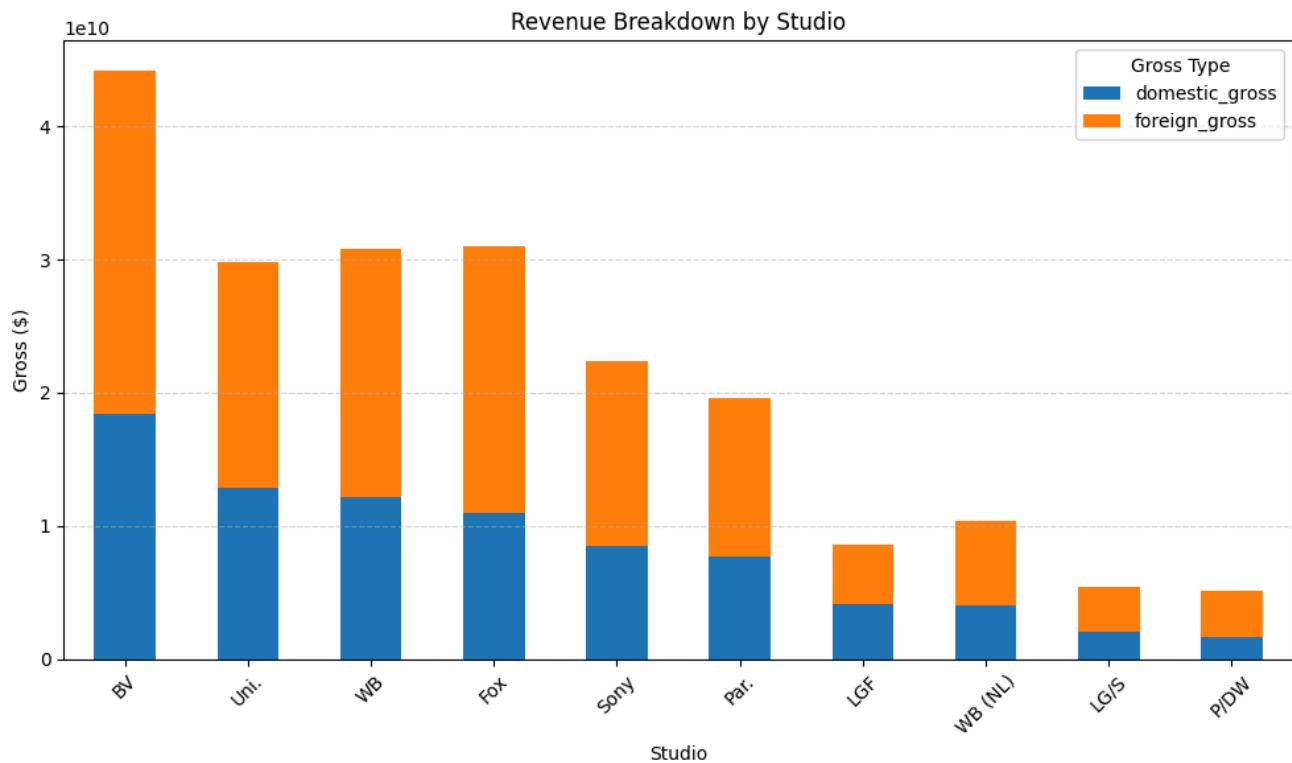
Is there a correlation between total gross and number of theaters?

How has total gross evolved across release years or months?

What's the distribution of total gross for different movie ratings (G, PG, PG-13, R)?

Justification

Understanding studio performance helps identify patterns in global vs. local audience preferences, useful for future distribution or investment decisions.



Visual Highlight: Revenue Breakdown by Studio

The chart above shows the total domestic and foreign gross for top studios between 2010–2020. Notably, BV and WB dominate both categories, making them strong candidates for Microsoft's partnership strategy.

Insights

- Disney and Warner Bros. lead in gross revenue.
- Foreign earnings often surpass domestic, especially for major studios.
- Distribution strategy and global appeal matter more than just local success.

Conclusion

Studio performance varies significantly, and global revenue plays a critical role. This analysis supports deeper research into genre influence and international distribution.