

RESEARCH PAPER ON “THE FINEST SELECTION OF MOVIES SINCE 2000”

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ABSTRACT

Film-making today, whether massively expensive or made with tiny budgets, shot on celluloid or video, is thriving artistically as much as it ever has. But today you'll find greater diversity in the kinds of films being made, if not in the people who are making them.

A lot of films from the 2000s have won awards, become classics, and been met with praise from both critics and audiences. And whether you're looking for a gory horror movie or a family-friendly flick, film critics can recommend a film from just about every genre.



Pictured from left, characters from ‘Spotlight,’ ‘Dunkirk,’ ‘I’m Not There,’ ‘Spirited Away,’ ‘The Royal Tenenbaums,’ ‘Old Joy,’ ‘Hunger,’ ‘Boyhood,’ ‘Son of Saul,’ ‘Stories We Tell,’ ‘You Can Count on Me’ and ‘The Hurt Locker.’

OBJECTIVE

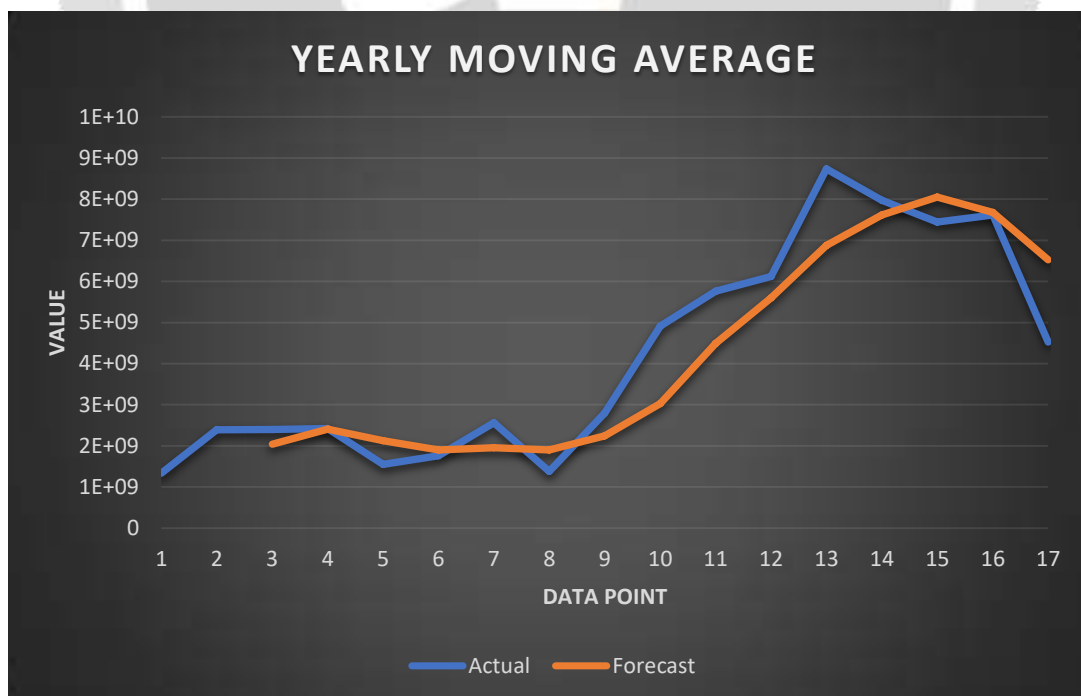
We are now approximately one-sixth of the way through the 21st century, and thousands of movies have already been released. Which means that it's high time for the sorting, and the fighting to start. Gangsters, superheroes, schoolkids, lovers, slaves, peasants, techies, Tenenbaums and freefalling astronauts – they're all here in my countdown of cinema's best movies since 2000.

SUMMARY

*A list of the greatest films of the 21st Century should include the year 2000, even though we recognise that there was no ‘Year Zero’ and that 2001 is mathematically the start of the century, not only did we all celebrate the turn of the millennium on 31 December 1999, but the year 2000 was a landmark in global cinema, and, in particular, saw the emergence of new classics from Asia like nothing we had ever seen before. I believe that the new classics on this list are destined to become old classics. Whether or not that happens is ultimately up to you, the moviegoers. But one thing is certain, **Cinema Isn't Dying, Its Evolving.***

MOVING AVERAGE

Row Labels	Sum of Gross Revenue
2000	1331473428
2001	2388910321
2002	2397502393
2003	2422567625
2004	1547189989
2005	1756788942
2006	2562909318
2007	1373780031
2008	2795020042
2009	4908004093
2010	5760451854
2011	6120668981
2012	8736901345
2013	7971287663
2014	7441094671
2015	7609118320
2016	4522767604
Grand Total	71646436620



The above graph shows that the Moving Average of Gross Revenue, in accordance to the Release Year slowly moves up in the beginning, and starts to go down eventually at the end of 2016.

DESCRIPTIVE STATISTICS

<i>IMDB Rating</i>		<i>Gross Revenue</i>	
Mean	6.509932886	Mean	96169713.58
Standard Error	0.038304209	Standard Error	3686115.545
Median	6.6	Median	62563543
Mode	6.7	Mode	144512310
Standard Deviation	1.045501434	Standard Deviation	100611374.2
Sample Variance	1.093073248	Sample Variance	1.01226E+16
Kurtosis	0.406449707	Kurtosis	6.723380076
Skewness	-0.471242388	Skewness	2.207245044
Range	6.8	Range	760496634
Minimum	2.2	Minimum	9213
Maximum	9	Maximum	760505847
Sum	4849.9	Sum	71646436620
Count	745	Count	745

CORRELATION

	<i>Gross Revenue</i>	<i>IMDB Rating</i>
<i>Gross Revenue</i>	1	
<i>IMDB Rating</i>	0.409778856	1

INTERPRETATION***Imperfect Positive Correlation***

Since there is an Imperfect Positive correlation, it means there is direct relation between the two variables, that is, as the IMDB Rating increases, the Gross Revenue will also increase. But since it is Imperfect, the relation may not be proportional.

REGRESSION

SUMMARY OUTPUT							
Regression Statistics							
Multiple R	0.409778856						
R Square	0.16791871						
Adjusted R Square	0.166798816						
Standard Error	91837915.97						
Observations	745						
ANOVA							
	<i>df</i>	<i>SS</i>	<i>MS</i>	<i>F</i>	<i>Significance F</i>		
Regression	1	1.26464E+18	1.26464E+18	149.9416024	1.55771E-31		
Residual	743	6.26661E+18	8.4342E+15				
Total	744	7.53125E+18					
	<i>Coefficients</i>	<i>Standard Error</i>	<i>t Stat</i>	<i>P-value</i>	<i>Lower 95%</i>	<i>Upper 95%</i>	<i>Lower 95.0%</i> <i>Upper 95.0%</i>
Intercept	-160543666.2	21232928.47	-7.561070364	1.1809E-13	-202227343	-118859989	-202227343 -118859989
IMDB Rating	39434105.43	3220408.167	12.24506441	1.55771E-31	33111922.71	45756288.15	33111922.71 45756288.15

Y ESTIMATE EQUATION

$$Y = a + bX$$

$$Y = -160543666.2 + 39434105.43X$$

INTERPRETATION

If the IMDB Rating changes by 39434105.43, then 1 unit of the Gross Revenue will increase with a constant value of -160543666.2. So it is found that **Higher Rated** movies tend to be seen more than the ones which are **Rated Lower**. Therefore, movies like *The Patriot*, *A.I.*, *The Fast and Furious*, *Lord of the Rings* etc. get watched more as compared to the other movies released in those years.



APPENDIX

Movie Title	Director Name	Release Year	Number of Critic Reviews	Duration	Gross Revenue	Genres	Country	IMDb Rating	Movie Facebook Likes
The Piano	Richard Linklater	2000	180	142	11330332	Action/Drama/History/Biography	USA	7.7	4300
Gladiator	Ridley Scott	2000	285	171	18781866	Action/Drama/Romance	USA	8.5	21000
Carlito's Way	Robert Rodriguez	2000	211	143	23265478	Action/Drama/Romance	USA	7.7	22000
Carlito's Way: The Getaway	Kevin Smith	2000	84	100	88241305	Action/Drama/Comedy/Family	USA	4.8	372
Murphy Brown II: The Klump	Peter Segal	2000	54	109	153307945	Comedy/Romance/Sci-Fi	USA	4.3	374
Red Planet	Antony Hickox	2000	145	106	1473248	Action/Sci-Fi/Thriller	USA	5.7	985
The Adventures of Rocky & Bullwinkle	Des McAnuff	2000	49	92	28000610	Adventure/Animation/Comedy/Family/Fantasy	USA	4.1	413
Proof of Life	Taylor Hackford	2000	134	125	32588901	Action/Drama/Thriller	USA	6.2	889
Lucky Numbers	Nate Kaplan	2000	60	105	10014254	Comedy/Drama	France	9	177
Almost Famous	Cameron Crowe	2000	149	152	3252332	Adventure/Comedy/Drama/Music	USA	7.9	15000
Supercop	Walter Hill	2000	190	91	14718888	Horror/Sci-Fi/Thriller	USA	4.8	588
The Fastones in Viva Rock Vegas	Drew Lerner	2000	57	90	35231395	Comedy/Family/Romance/Sci-Fi	USA	3.8	506
What Planet Are You From?	Mike Nichols	2000	82	87	6291400	Comedy/Sci-Fi	USA	5.8	269
All the Pretty Horses	Billy Bob Thornton	2000	85	120	15207125	Drama/Romance/Western	USA	5.8	952
Hangnail US	Dave Karger	2000	82	94	36057839	Comedy/Drama	Germany	4.7	506
Play It Forward	Mimi Lerner	2000	167	128	8340892	Drama	USA	7.2	18000
The Art of War	Christian Duguay	2000	110	116	33108105	Action/Adventure/Crime/Thriller	USA	5.7	418
Bees for the Honey	Chuck Russell	2000	193	107	38274178	Crime/Drama/Thriller	USA	5.1	284
Get Carter	Stephen King	2000	182	102	14287182	Action/Crime/Thriller	USA	5.1	304
Reinhold Gansel	John Frankehauser	2000	126	124	32365779	Action/Adventure/Crime/Drama/Family/Fantasy/Romance/Thriller	USA	5.7	852
101 Dalmatians	Andrew Bergman	2000	85	95	2954400	Biography/Comedy/Romance	USA	5.3	123
I Dreamed of Africa	Hugh Hudson	2000	52	114	8543194	Adventure/Drama/Romance	USA	5.6	314
Big Momma's House	Raja Gosnell	2000	120	89	117688438	Action/Comedy/Drama	USA	5.1	5000
The Whistle	Joe Chappelle	2000	183	97	58207120	Crime/Drama/Mystery/Thriller	USA	5.3	483
Rugrats in Paris: The Movie	Stig Bergqvist	2000	41	76	78501436	Adventure/Animation/Comedy/Family/Romance	Germany	5.1	191
Last Seals	Jarvis Pomeroy	2000	190	97	18778836	Drama/Thriller	USA	4.8	208
The Fast and the Furious	Rob Cohen	2001	187	106	144312310	Action/Crime/Thriller	USA	6.7	14000
Harry Potter and the Sorcerer's Stone	Chris Columbus	2001	268	159	317651891	Adventure/Family/Fantasy	UK	7.5	18000
The Matrix	Kyle Newacheck	2001	217	111	31835737	Action/Adventure/Drama/Heist	New Zealand	8.8	23000
Black Hawk Down	Ridley Scott	2001	290	152	188628745	Drama/Action/War	USA	7.7	18000
A.I. Artificial Intelligence	Steven Spielberg	2001	281	146	78518888	Adventure/Animation/Sci-Fi	USA	7.1	13000
The Fast and the Furious	Rob Cohen	2001	187	106	144312310	Action/Crime/Thriller	USA	6.7	14000
A Beautiful Mind	Robe Marshall	2001	255	135	17870888	Biography/Drama	USA	8.2	28000
Monkeybone	Henry Selick	2001	74	83	5428817	Animation/Comedy/Fantasy	USA	4.7	503
Dr. Seuss' How to Succeed in School Without Really Studying	Steve Carr	2001	91	87	112865221	Comedy/Family/Fantasy	USA	4.6	388
Over the Top	Henry Hahn	2001	199	116	32818888	Action/Drama/Sport	USA	4.5	888
Damascus Journal	Bobby Farrelly	2001	81	95	12588911	Action/Adventure/Animation/Comedy/Crime/Family/Fantasy	USA	5.2	2000
Moulin Rouge	Baz Luhrmann	2001	299	127	87588388	Drama/Music/Romance	USA	7.8	18000
Domestic Disturbance	Harold Becker	2001	98	89	45207120	Crime/Drama/Thriller	USA	5.3	361
Don't Say a Word	Gary Fleder	2001	113	115	54991476	Crime/Drama/Mystery/Thriller	USA	6.3	978
Arrested Development	Joe Roth	2001	142	102	83907873	Comedy/Romance	USA	5.7	881
10 Minutes	John Hershey	2001	131	120	34375436	Action/Crime/Drama/Thriller	USA	6.1	748
The Mexican	Gore Verbinski	2001	126	123	8888816	Adventure/Comedy/Crime/Romance	USA	6.1	2000
The Musketeer	Peter Hyams	2001	187	104	27255815	Action/Adventure/Romance	Germany	4.7	298
Sweet November	Pat O'Connor	2001	84	118	35178465	Drama/Romance	USA	6.7	8000
Archie	Jean-Pierre Jeunet	2001	242	132	33201881	Comedy/Romance	France	8.4	88000
Inspector	Gary Fleder	2001	83	103	8114237	Drama/Mystery/Sci-Fi/Thriller	USA	6.2	880
Just Writing	Jean-Marie Poiré	2001	81	84	8772207	Comedy/Drama/Sci-Fi	France	5.8	889
The Fast and the Furious	Rob Cohen	2001	187	106	144312310	Action/Crime/Thriller	USA	6.7	14000
Headcase	David Miller	2001	115	125	6153454	Comedy/Sci-Fi	USA	6.2	889

ALL THE DATA IS SECONDARY, COLLECTED BY EXTERNAL SOURCES.