



MovieTweetings: a Movie Rating Dataset Collected From Twitter

@sidooms

Simon Dooms



Research datasets

- Recsys research needs datasets
- To evaluate, experiment and demonstrate
- I need datasets

Available for download:

- MovieLens 100K
- MovieLens 1M
- MovieLens 10M



Braveheart (1995)

Director: **Mel Gibson**

Cast: **Patrick McGoohan, Angus Macfadyen, Sophie Marceau, Mel Gibson**

Genre: **History, Biography, Drama, Action, War**

Runtime: 2 hrs 57 mins



Forrest Gump (1994)

Director: **Robert Zemeckis**

Cast: **Robin Wright, Sally Field, Gary Sinise, Tom Hanks**

Genre: **Romance, Comedy, Drama**

Runtime: 2 hrs 22 mins



Liar Liar (1997)

Director: **Tom Shadyac**

Cast: **Cary Elwes, Jim Carrey, Justin Cooper, Maura Tierney**

Genre: **Fantasy, Family, Comedy**

Runtime: 1 hr 26 mins

Research datasets

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- I needed datasets

Available for download:

- | | |
|------------------|---------------------------|
| ■ MovieLens 100K | ~ most recent movie: 1998 |
| ■ MovieLens 1M | ~ most recent movie: 2000 |
| ■ MovieLens 10M | ~ most recent movie: 2008 |

I need up-to-date movie ratings

Finding data

- Data is all around us

The image shows the IMDb page for the movie **Death Proof (2007)**. Several elements are circled in red:

- Top 5000**: A badge indicating the movie's ranking.
- Your rating: 7,1**: A star rating of 7.1/10 from 147,254 users and 545 reviews.
- Like button**: A button to like the movie, showing 7,118 likes.
- Awards section**: A yellow bar indicating 3 nominations and a link to see more awards.

The page includes a search bar at the top, navigation tabs (Movies, TV, News, Showtimes, Community, IMDbPro, Apps), and a sidebar with Quick Links (Full Cast and Crew, Plot Summary, Trivia, Quotes, Awards, Message Board, Parents Guide, User Reviews, Release Dates, Company Credits). The main content area features a movie poster, a synopsis, director (Quentin Tarantino), writer (Quentin Tarantino), stars (Kurt Russell, Zoe Bell, Rosario Dawson), and a Watchlist button.

facebook Search for people, places and things Simon Doods Find Friends Home

About Death Proof

Deathproof was merged with this page [?] - Movie

Death Proof is a 2007 American action thriller slasher film written and directed by Quentin Tarantino. It stars Kurt Russell, Michael Fassbender, and Rosario Dawson. The film is a double feature with Grindhouse.

364,238 people like this topic

People who like Death Proof

- Add Friend
- Add Friend
- Add Friend
- Add Friend
- Add Friend
- Add Friend

About Death Proof

Directed by

Directed by

Grindhouse

Quentin Tarantino

Quentin Tarantino


Genres


This Page is automatically generated based on what Facebook users are interested in and not affiliated with or endorsed by anyone associated with the topic. See More


Links


- Netflix
- IMDb

Home Connect Discover Me death proof

 **vrunt** @vrunt
death proof was a good movie and a great plot point
Expand

 **Oldtimer** @auldtimer
All those clever "but why not Chauhan? Why not Parrikar?" arguments seem to have died a quiet **death. Proof** that Con bribed oped writers
Expand

 **Sean Raitt** @seanraitt1
Right enough of this Tweeting back to my Next Movie **#DeathProof** with StuntMan Mike ... He's BadAss pic.twitter.com/9dglivatNR
[View photo](#)

 **PrinceCharles Cinema** @ThePCCLondon
TONIGHT our Grindhouse Mini-Thon finally arrives. This 4-headed beast features Planet Terror & **Death Proof**,... fb.me/2l8uHQ65z
Expand

 **michael** @michaelestelle
Death Proof is one of my all time favorite movies.
Expand

Finding data

- Data is all around us
BUT extremely unstructured
- What we want:

1::122::5::838985046

1::185::5::838983525

1::231::5::838983392

1::292::5::838983421

1::316::5::838983392

(user, item, rating, time)

Structured data

The image shows the IMDb page for the movie "Death Proof" (2007). The page layout includes a top navigation bar with the IMDb logo, a search bar, and links to Movies, TV, News, Showtimes, Community, IMDbPro, and Apps. The movie's poster is on the left, showing a car crash. The main content area on the right includes the movie title, year, genre, and runtime. It also features a star rating of 7.1/10, a plot summary, director and writer information, and a list of stars. At the bottom of the main content area, there are buttons for "Watchlist" and "Share...". The "Watchlist" button is highlighted with a red circle. To the right of the main content area, there are sections for "Quick Links" (Full Cast and Crew, Plot Summary, Trivia, Quotes, Awards, Message Board, Parents Guide, User Reviews, Release Dates, Company Credits) and "Explore More". At the bottom right, there is a "Related News" section with a link to "Another Clip, TV Spot & Poster For 'Machete Kills'".

IMDb Find Movies, TV shows, Celebrities and more... All

Simon Doods | **Your Watchlist**

Movies **TV** **News** **Showtimes** **Community** **IMDbPro** **Apps**

Death Proof (2007) **Top 5000**

16 113 min - Action | Thriller - 7 June 2007 (Netherlands)

Your rating: ★★★★★★★★ -/10
Ratings: **7,1**/10 from 147.254 users
Reviews: 545 user | 193 critic

Two separate sets of voluptuous women are stalked at different times by a scarred stuntman who uses his "death proof" cars to execute his murderous plans.

Director: [Quentin Tarantino](#)
Writer: [Quentin Tarantino](#)
Stars: [Kurt Russell](#), [Zoe Bell](#), [Rosario Dawson](#) | [See full cast and crew](#)

Watchlist **Share...**

Quick Links
[Full Cast and Crew](#) [Plot Summary](#)
[Trivia](#) [Parents Guide](#)
[Quotes](#) [User Reviews](#)
[Awards](#) [Release Dates](#)
[Message Board](#) [Company Credits](#)

Explore More

Like 7,118 people like this. Be the first of your friends.

Related News
[Another Clip, TV Spot & Poster For 'Machete Kills'](#)

Structured data

iPhone



Free Download

Android



Free Download

Windows Phone 7



Free Download

iPad



Free Download

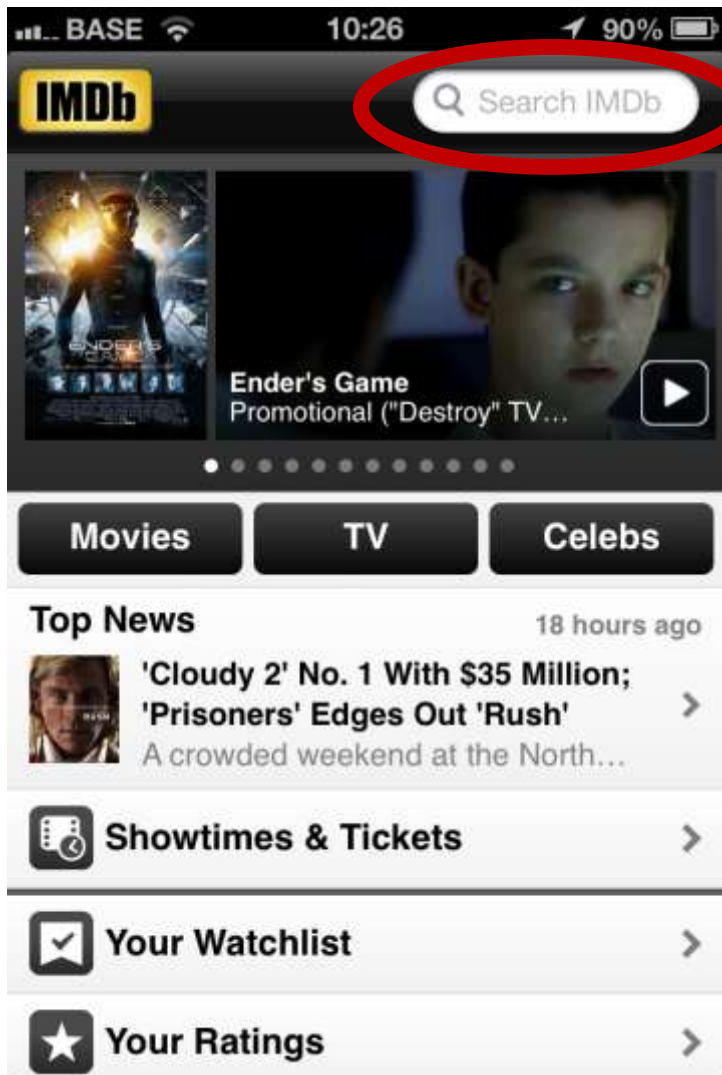
Android Tablet

[Free Download](#)

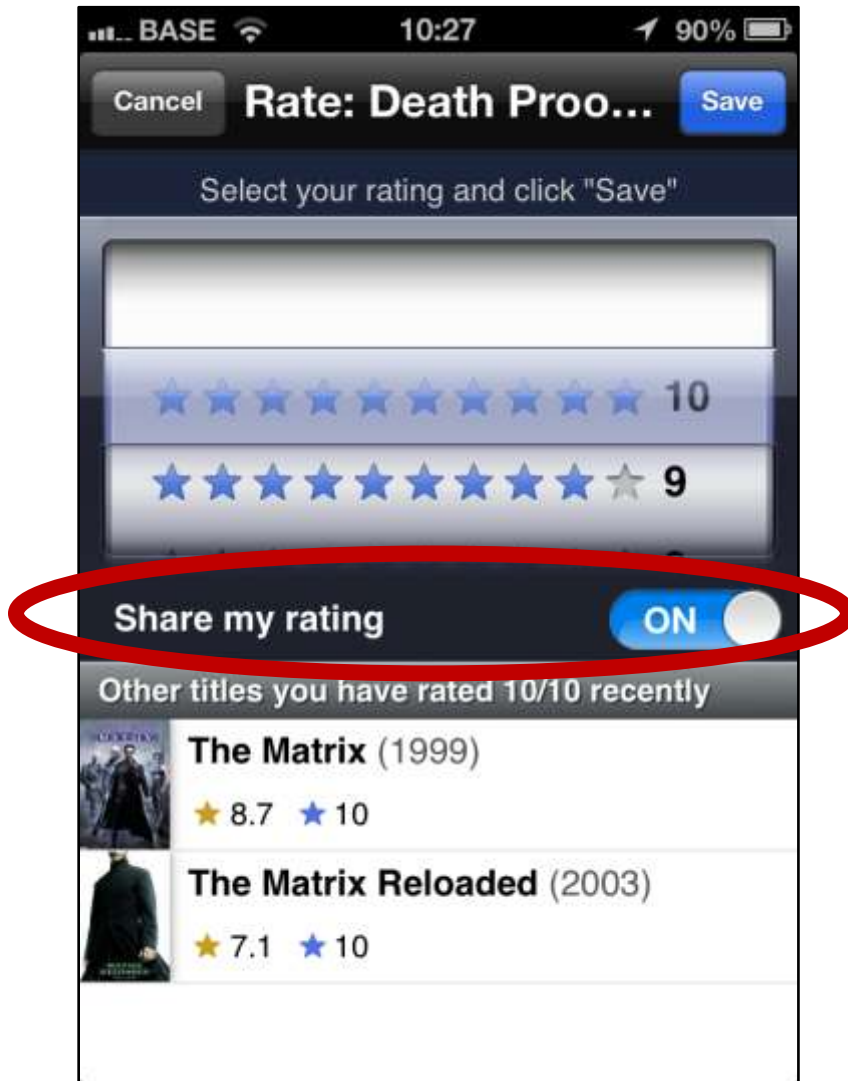
Kindle Fire HD

[Learn More](#)

Structured data



Structured data



Structured data



“I rated Death Proof 10/10 #IMDb”

- User
- Item (movie)
- Rating
- Hashtag

Structured data

Results for I rated #IMDb

Top / All / People you follow

- Erwin Vogelaar** @ErwinVogelaar 5m
I rated Breaking Bad 9/10 #IMDb [imdb.com/title/tt0903747](https://www.imdb.com/title/tt0903747)
Expand
- Flo** @Flogure 31m
I rated Felina 10/10 #IMDb [imdb.com/title/tt2301455](https://www.imdb.com/title/tt2301455)
Expand
- Dread Pirate Roberts** @Drek258 36m
I rated Silver Linings Playbook 8/10 #IMDb [imdb.com/title/tt1045658](https://www.imdb.com/title/tt1045658)
Expand
- Fred Sullivan** @sulifa 56m
I rated Till the Clouds Roll By 6/10 #IMDb [imdb.com/title/tt0039035](https://www.imdb.com/title/tt0039035)
Expand
- dranibal™** @dranibal 1h
I rated No se Aceptan Devoluciones 8/10 #IMDb [imdb.com/title/tt2378281](https://www.imdb.com/title/tt2378281)
Expand
- Danny Mutes** @Danny_mutes 1h
I rated The Hobbit: An Unexpected Journey 7/10 #IMDb [imdb.com/title/tt0903624](https://www.imdb.com/title/tt0903624)
Expand
- Alessandro Reginato** @mchgst 1h
I rated Bling Ring 6/10 #IMDb [imdb.com/title/tt2132285](https://www.imdb.com/title/tt2132285)
Expand
- May (♥) Rawr!** @mooshy_moo_1 2h
I rated The Chronicles of Riddick 10/10 #IMDb [imdb.com/title/tt0296572](https://www.imdb.com/title/tt0296572)

Bingo!

Search Twitter for
"I rated #IMDb"

Collecting data

- We query the Twitter API for “I rated #IMDb”
- Extract relevant information
- Cross-reference with IMDb for extra genre data



IMDb

Find Movies, TV shows, Celebrities and more... All Q

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Movies TV News Showtimes Community IMDbPro Apps Your Watch

Death Proof (2007) Top 5000

16 113 min - Action | Thriller - 7.1/10 (Netherlands)

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Director: [Quentin Tarantino](#)

Quick Links

- Full Cast and Crew
- Plot Summary
- Trivia
- Parents Guide
- Quotes
- User Reviews
- Awards
- Release Dates
- Message Board
- Company Credits

[Explore More](#)

[Like](#) 7,118 people like this. Be the first of your friends.

The data

Ratings.dat

Rating scale from 1 to 10

1::1074638::7::1365029107

1::1853728::8::1366576639

2::0113277::10::1379466669

IMDb ID - <http://www.imdb.com/title/tt0113277>

Movies.dat

1028528::Death Proof (2007)::Action|Thriller

0133093::The Matrix (1999)::Action|Adventure|Sci-Fi

1670345::Now You See Me (2013)::Thriller

Users.dat

1::18405182

2::995885060

3::31260677

Twitter ID (NOT @handle)

Your data

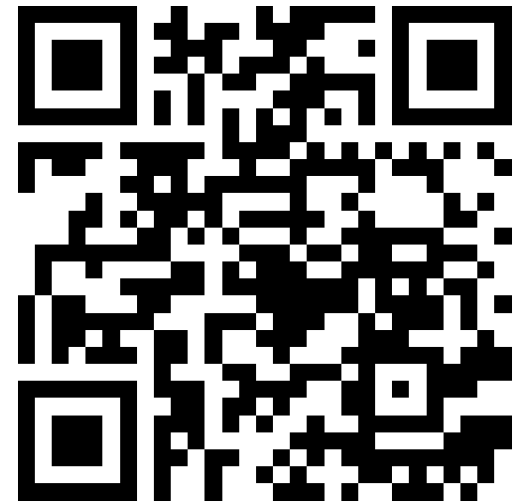
- MovieTweatings dataset available on GitHub
(<https://github.com/sidooms/MovieTweatings>)
- Find it on the **RecSys Wiki** (category datasets)

Latest

- All ratings
- Automagically updated daily

Snapshots

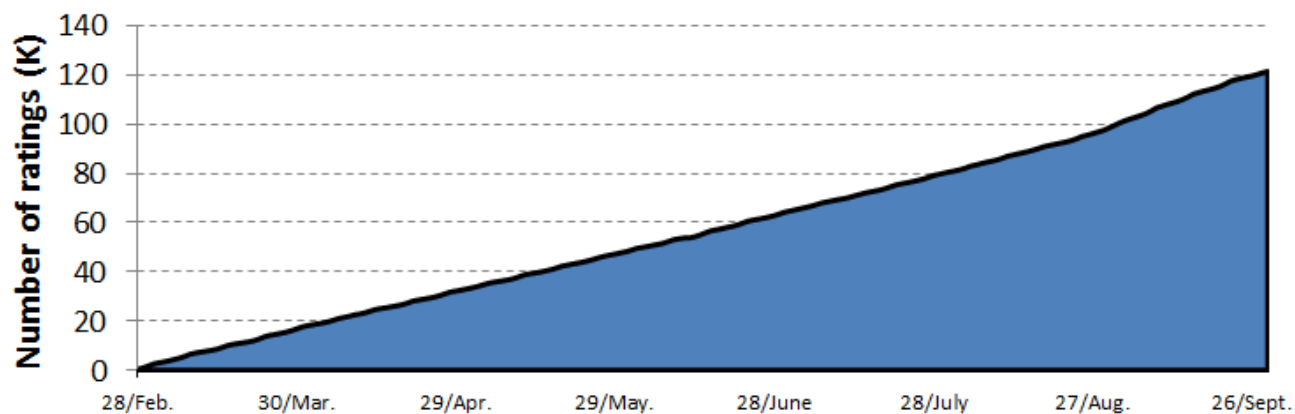
- Fixed portion of dataset
- Added manually when appropriate
- 10K, 20K, 30K, 40K, 50K, 100K



DISCLAIMER: Depending on Twitter API, IMDb apps and me!

Some numbers

Number of ratings collected in 7 months



567/day

	MovieTweetings	MovieLens 100K	MovieLens 1M	MovieLens 10M
Ratings	121,404	100,000	1,000,209	10,000,054
Users	19,464	943	6,040	71,567
Items	11,655	1682	3,900	10,681

(Results on September 30, 2013)

Some fun

Top 3 most rated movies

1. Iron Man 3 (2013)
2. Man of Steel (2013)
3. World War Z (2013)



Top 3 AVG rated movies (min 20 ratings)

1. The Shawshank Redemption (1994)
2. LOTR: The Return of the King (2003)
3. The Dark Knight (2008)



Bottom 3 worst AVG rated movies (min 20 ratings)

3. Scary MoVie (2013)
2. Piranha 3DD (2012)
1. Cosmopolis (2012)



Some conclusions

- Outdated public datasets
- Social media = Unstructured data available
- Structured rating data through Twitter – IMDb
- MovieTweetings: our Movie Rating Dataset
 - Always up-to-date
 - Includes most recent and most relevant movies
 - Unfiltered rating data
 - Publicly available
- Death Proof (2007) really is an awesome movie



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