CS 424 - Project 2
Movie Body Counts

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Dataset - Movie Body Counts

- Provided by the Movie Body Counts website.
- A collection of on-screen body counts for a selection of films.
- Contains data for 545 films from 1949 to 2013.
- A selection bias can be assumed.
- To count, the kill/dead body must be visible on screen.
 - Includes humans, humanoids, and other creatures.

MOVIE
BODY COUNTS

HOME

Movie Body Counts tallies the actual, visible "on screen kills/deaths/bodies" of your favorite action, sci/fi, and war films.

Dataset - Movie Body Counts

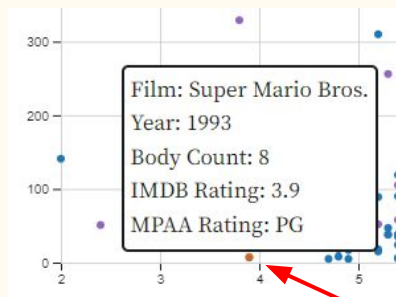|	A	B	C	D	E	F	G	H
1	Film	Year	Body_Cou	MPAA_Rat	Genre	Director	Length_Mi	IMDB_Rating
2	24 Hour Pa	2002	7	R	Biography	Michael W	117	7.3
3	28 Days La	2002	53	R	Horror|Sci	Danny Boy	113	7.6
4	28 Weeks	2007	212	R	Horror|Sci	Juan Carlo	100	7
5	30 Days of	2007	67	R	Horror|Th	David Slad	113	6.6
6	300	2007	600	R	Action|Far	Zack Snyde	117	7.7
7	3:10 To Yu	2007	45	R	Adventure	James Mar	122	7.8
8	8MM	1999	1	R	Crime|My:	Joel Schun	123	6.4
9	A Better T	1986	65	R	Action|Cri	John Woo	95	7.5
10	A Better T	1987	199	R	Action|Cri	John Woo	105	7.3
11	A Bridge T	1977	243	PG	Drama|His	Richard At	175	7.4
12	A Christma	1983	4	PG	Comedy|F	Bob Clark	94	8.1
13	A Clockwo	1971	7	X	Crime|Dra	Stanley Ku	136	8.4
14	A Fistful of	1964	109	M	Western	Sergio Leo	99	8
15	A Fistful of	1971	471	PG	Adventure	Sergio Leo	138	7.7
16	A History c	2005	13	R	Crime|Dra	David Cror	96	7.5
17	A Man Apa	2003	39	R	Action|Cri	F. Gary Gra	109	6
18	A Nightma	1984	4	R	Horror	Wes Crave	91	7.5
19	Above the	1988	18	R	Action|Cri	Andrew Da	99	5.8
20	Action Jacl	1988	17	R	Action|Co	Craig R. Ba	96	4.9
21	Aeon Flux	2005	58	PG-13	Action|Sci	Karyn Kusa	93	5.4
22	Air Force C	1997	54	R	Action|Ad	Wolfgang	124	6.4
23	Akira	1988	119	R	Animation	Katsuhiro (	124	8
24	Alexander	2005	119	R	Action|Ad	Oliver Stor	175	5.4
25	Ali G Indah	2002	11	R	Comedy	Mark Mylc	85	6.1
26	Alien	1979	1	R	Horror|Sci	Ridley Scot	117	8.5

- Rows
  - Films
  - 545 in total
- Columns
  - Film, Year, Body_Count, MPAA_Rating, Genre, Director, Length_Minutes, IMDB_Rating
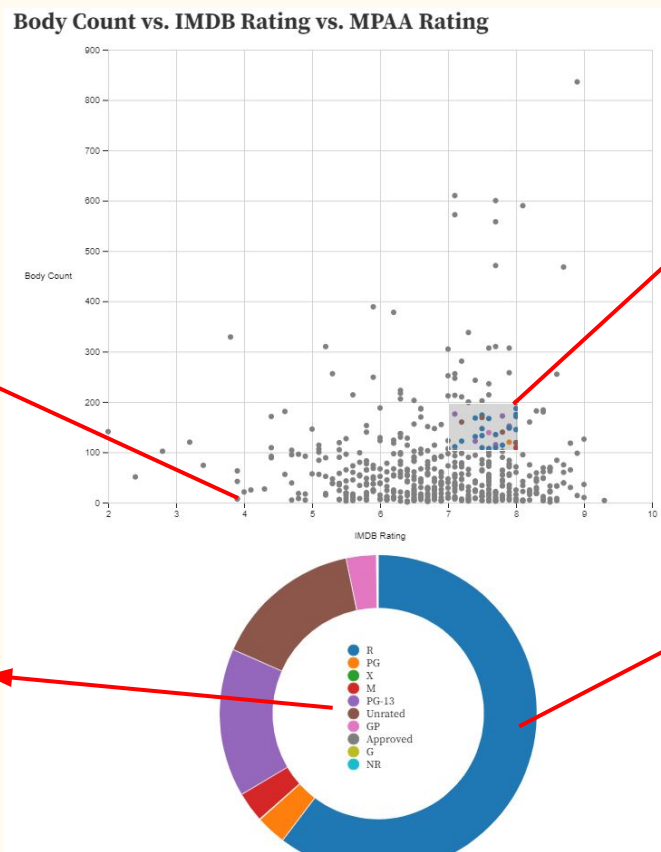 - 8 in total

Vis. 1 - Domain and Data Questions
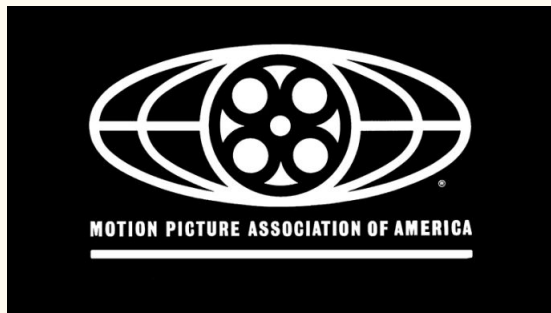
- Is there an observable correlation between the number of on-screen deaths and the IMDB ratings?
- What is the correlation between the aforementioned numerical attributes and MPAA ratings?
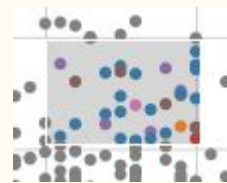- Do MPAA ratings affect IMDB ratings?

# Vis. 1 - Visual Encoding and Interaction Techniques

Body Count vs. IMDB Rating vs. MPAA Rating

Film: Super Mario Bros.
Year: 1993
Body Count: 8
IMDB Rating: 3.9
MPAA Rating: PG

Hovering the mouse over a point lowers the opacity and reveals information about the selected film.

Select subset of data using moveable brush that updates donut chart accordingly.

As shown in the legend, the MPAA ratings are color-coded in both the scatter plot and donut chart.

R
PG
X
M
PG-13
Unrated
GP
Approved
G
NR

R
20
60.61%
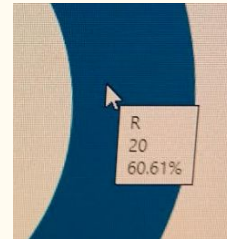
Hovering the mouse over a specific arc of the donut shows the percentage of the whole area selected.

Vis. 1 - Findings
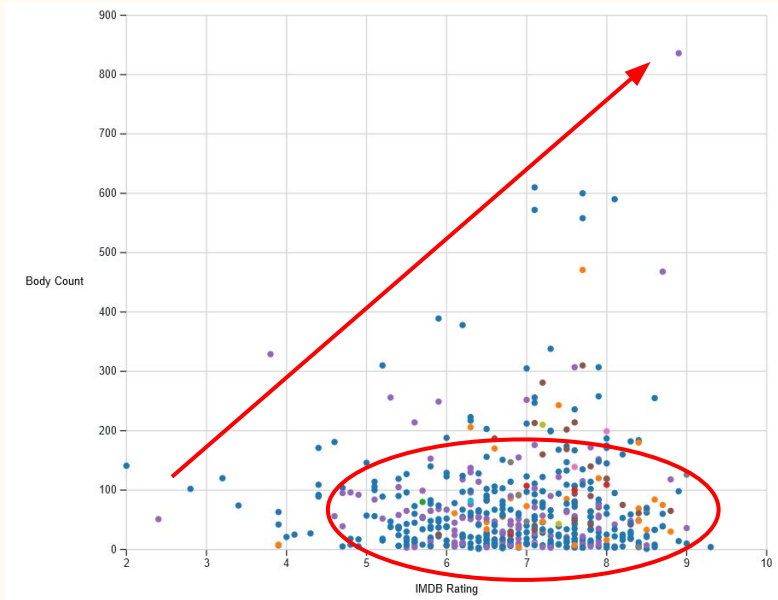
- Observable climb in which films with high body counts receive high IMDB ratings and films with low body counts receive low IMDB ratings.
- Large gathering at bottom: more films with deaths below 100 with IMDB ratings between 5 and 9.

- Among the those included, 60.5% of the films with body counts over 100 are rated R. 0.84% are rated G.
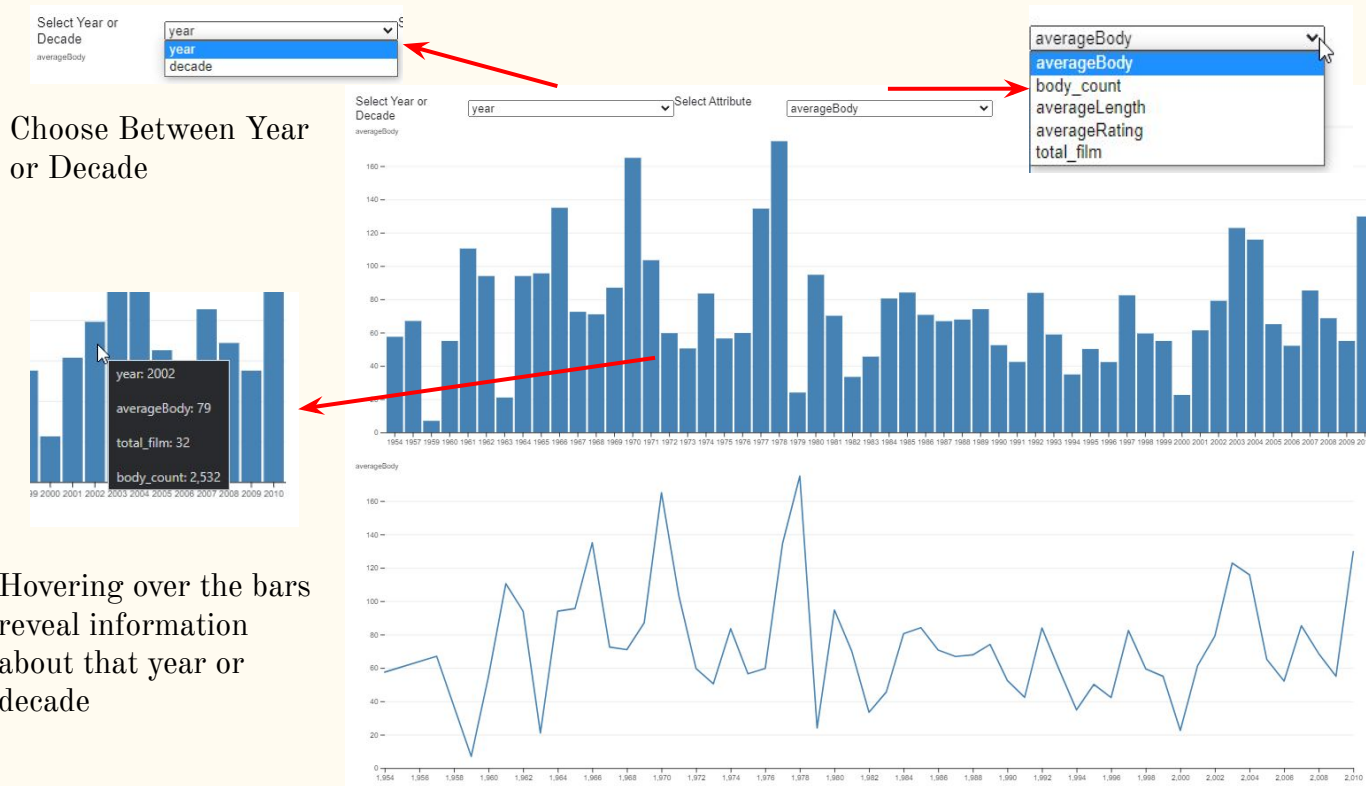- 62.12% of the films with an IMDB rating of 8 or above are rated R. 1.52% are rated X.
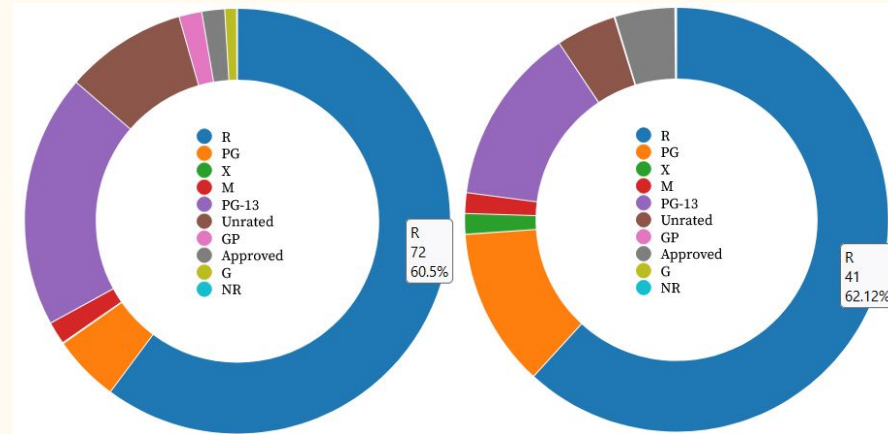
Vis. 2 - Domain and Data Questions

Analyzing General Trend Over the Years/Decades

- Did the number of on-screen death increase over the years?
- Did the movie industry become violent over the years?
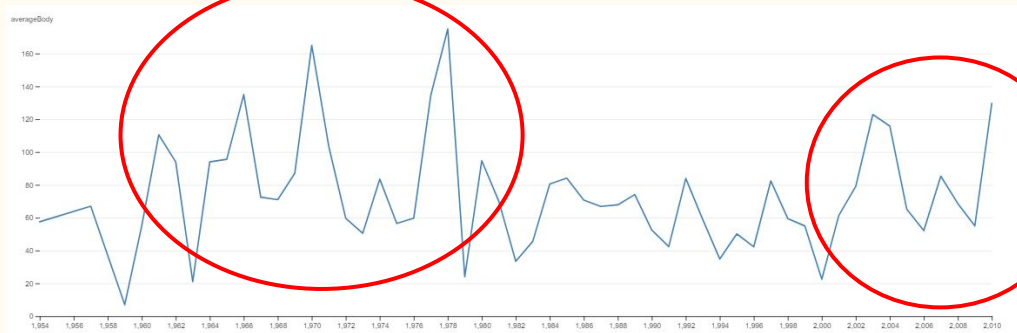
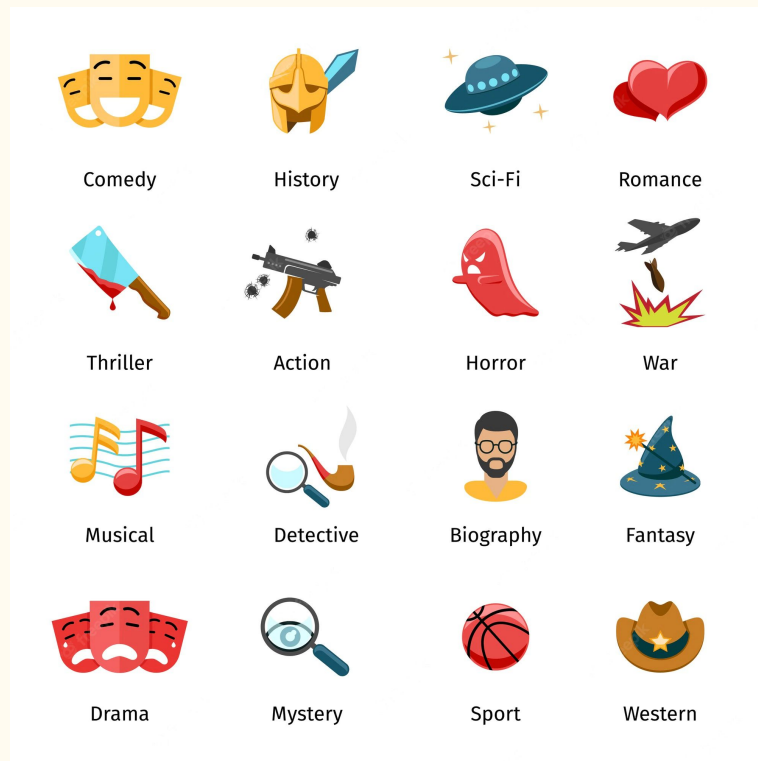# Vis. 2 - Visual Encoding and Interaction Techniques

Vis. 2 - Findings - On-Screen Deaths
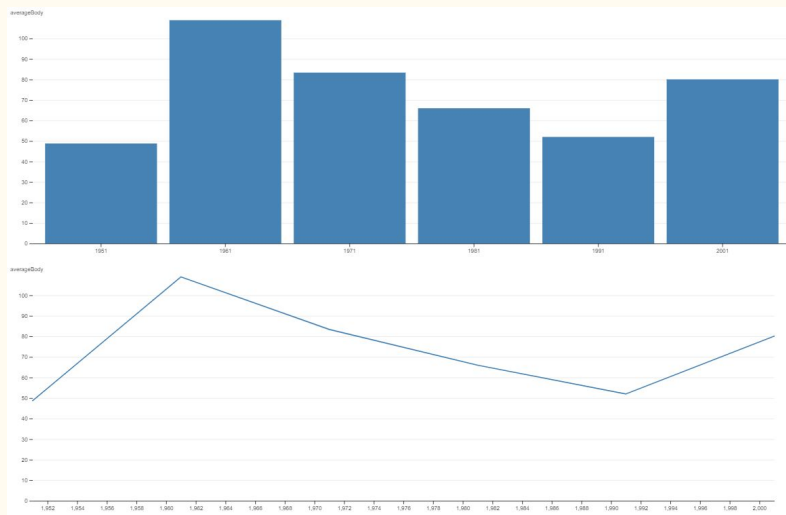
- Early movies had more on-screen deaths
- On-screen deaths were low in the middle phase
- Deaths started to rise in recent years
- On-screen death over the decades shows rise, slowly going down and then rise again in recent years
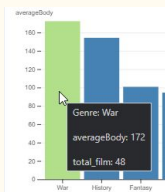
Vis. 3 - Domain and Data Questions

- Which genre has the most on-screen death?
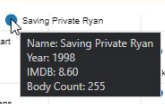- What is the distribution of movies based on each genre?

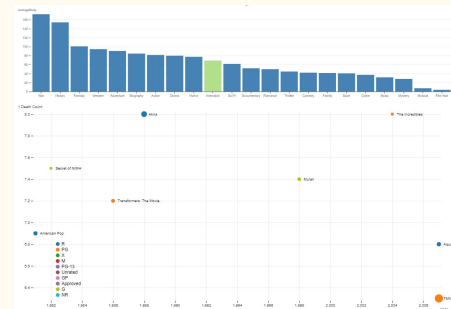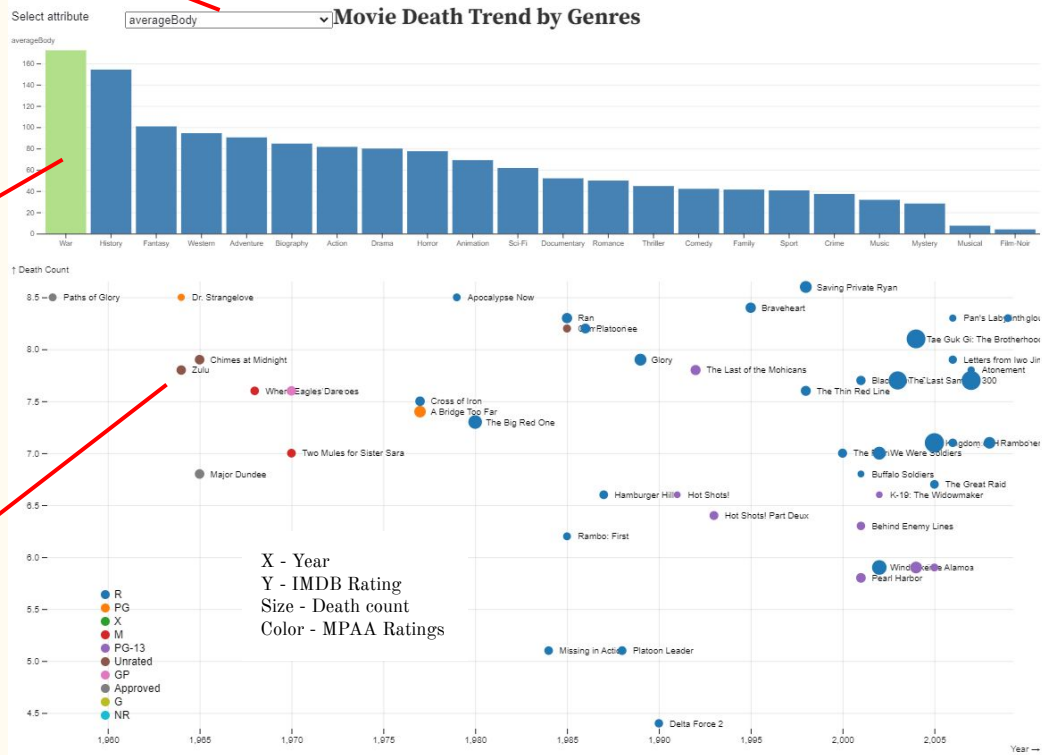# Vis. 3 - Visual Encoding and Interaction Techniques
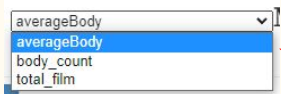

Select different attributes to visualize

Hovering over the bars reveal information about the genre

Hovering over the dots reveal information about the movie

Select attribute [averageBody ▼] **Movie Death Trend by Genres**

Genre: War
averageBody: 172
total_film: 48

Name: Saving Private Ryan
Year: 1998
IMDB: 8.60
Body Count: 255

↑ Death Count

X - Year
Y - IMDB Rating
Size - Death count
Color - MPAA Ratings

- R
- PG
- X
- M
- PG-13
- Unrated
- GP
- Approved
- G
- NR

- Co-ordinated multi-linked views. Selecting the attributes from the drop down will update both views

- Clicking on a genre from the bart chart will reveal movie information of that genre in the scatter plot
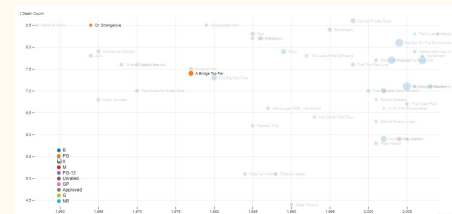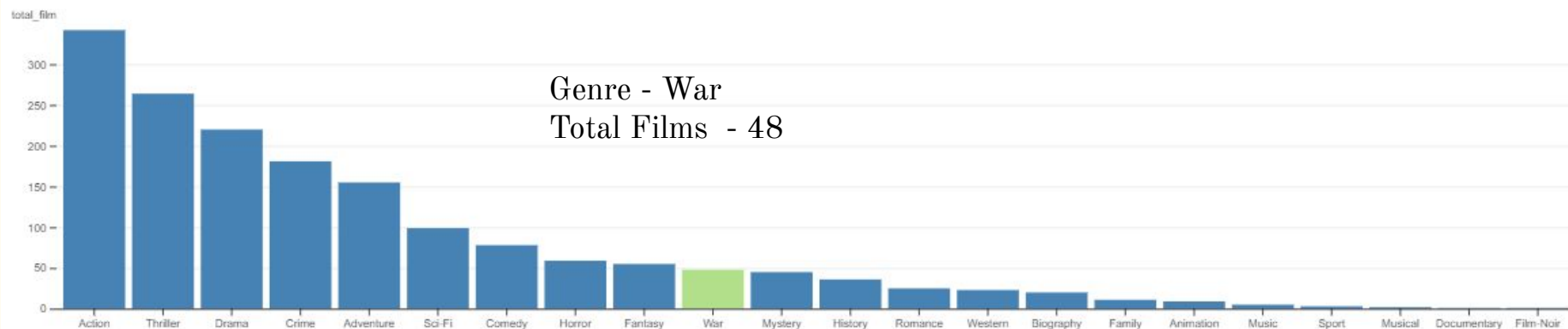
Hovering over the legends filter movies based on the MPAA Rating

Vis. 3 - Findings - Analyze Genres

Genre - War
Avg Body Count - 172
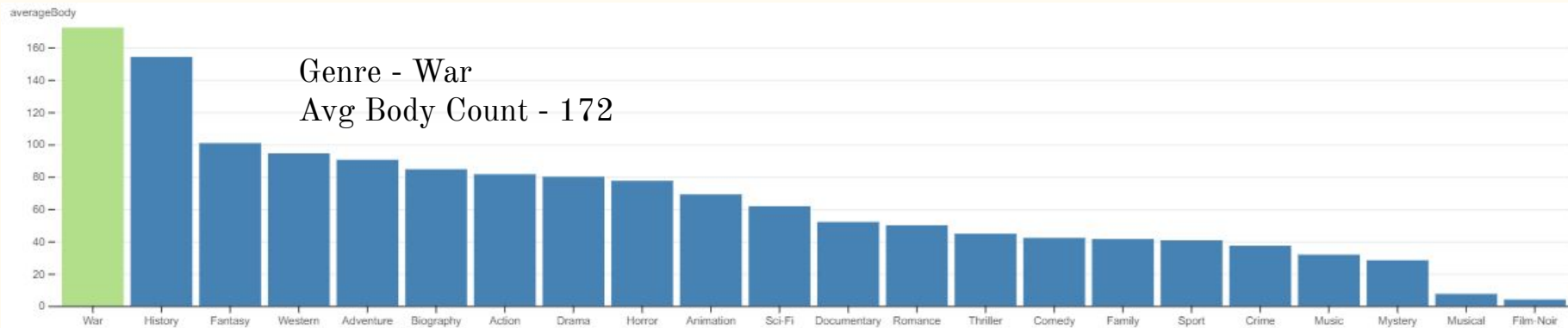
War Movies had highest number of average body count but the number of movies were very low compared to others

Genre - War
Total Films - 48

Thank you for listening!