

## Milestone 2

**Project Title:** Analyzing the Evolution and Impact of Animated Movies Worldwide

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**Template Link:** <https://com-480-data-visualization.github.io/MoscowMickeyMule/#home>

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### Break-down

#### Animations Movie Map

##### Description

This visualization displays a choropleth world map that **shows animation movie data by country across time** (1900-2023). The map uses color intensity to represent animation-related metrics for each country. Users can **interact with a timeline slider** to see how animation production and popularity have evolved over different time periods.

When a country is selected, a details **panel** appears showing:

- Number of animation studios
- Number of animated movies produced
- Most popular animation genre
- Best-rated animated movie

A sidebar shows additional **global information** including:

- Average revenue of animated movies
- Most popular animated movie (with poster)

##### Tools Needed:

- HTML, CSS, JavaScript for the base structure and styling
- D3.js for creating the interactive map visualization and timeline slider
- GeoJSON data for the world map
- CSV/JSON for the animation movie dataset

##### Relevant Lectures:

- **Data & D3.js** - For implementing the core D3 visualization
- **Practical Maps** - For creating the choropleth world map
- **Interactions & More Interactive D3.js** - For the timeline slider and country selection
- **Perception Colors, Mark & Channels** - For effective use of color intensity to represent data
- **Storytelling** - For creating a narrative through time with the slider
- **Javascript Part 1 and More Javascript** - For the underlying programming

##### Minimal-Viable Product:

- Core: Interactive world map with color-coded countries showing animation production data
- Timeline slider (1900-2023) that updates the map data

##### Enhancement Features:

- Country detail panel with additional statistics
- Animation of data changes when sliding through timeline
- Sidebar with global statistics and trending information (available to view any statistic with dropdown)

## Animation Movies By Genre

### Description

This visualization creates an **interactive dashboard** that allows users to explore animated movies categorized by genres. The interface includes a genre selection panel on the left side where users can select multiple genres as filters. When genres are selected, they appear highlighted in the "Active filters" section. The main display area shows **four horizontally structured information points**:

- Top movies within those genres
- Average ratings for those genres
- Top studios producing movies in those genres
- Number of movies with the selected genre combination

### Tools Needed:

- HTML, CSS, JavaScript for the base structure and styling
- D3.js for creating the interactive bar charts and filter system
- JSON/CSV data containing movie information categorized by genre
- Event listeners to handle genre selection and filtering

### Relevant Lectures:

- **Tabular Data** - For organizing and filtering the movie dataset by genre
- **Data & D3.js** - For implementing the core D3 visualization elements
- **Interactions & More Interactive D3.js** - For creating the interactive filter system
- **Perception Colors, Mark & Channels** - For effective use of visual elements
- **Javascript Part1 and More Javascript** - For programming the interactive elements
- **Text Viz** - For presenting the textual information in the right panel

### Minimal Viable Products:

- Core: Genre filter system with movie poster display
- Two basic bar charts showing ratings and production volume

### Enhancement Features:

- Multi-genre filtering with visual indicators
- Studio logo integration
- Interactive poster displays with hover information

## Your Personal Movie Comparer

### Description

This visualization creates an **interactive movie comparison tool** that allows users to search for and compare two movies side by side. The interface consists of three main components:

A **"Movie Finder"** search panel on the left that includes:

- A search box with magnifying glass icon
- Filter options by genre, year, and movie name
- Ability to select movies from search results

**Two movie information panels** in the center that display details about the selected movies (Movie 1 and Movie 2)

A **comparison section** at the bottom that analyzes and visually compares the selected movies across multiple metrics like popularity, user ratings average, genre and popularity of genre, and box office revenue

### Tools Needed:

- HTML, CSS, JavaScript for the basic structure and styling
- D3.js for creating the comparative visualizations
- JSON/CSV data containing comprehensive movie information
- Event listeners for search functionality and movie selection

### Relevant Lectures:

- **Interactions & More Interactive D3.js** - For implementing the interactive search and comparison features
- **Tabular Data** - For organizing and filtering the movie dataset
- **Data & D3.js** - For implementing the core data visualization components
- **Javascript Part1 and More Javascript** - For programming the search and comparison functionality
- **Perception Colors, Mark & Channels** - For effective visual comparison between movies
- **Storytelling** - For presenting comparative narratives between films

### Minimal Viable Products:

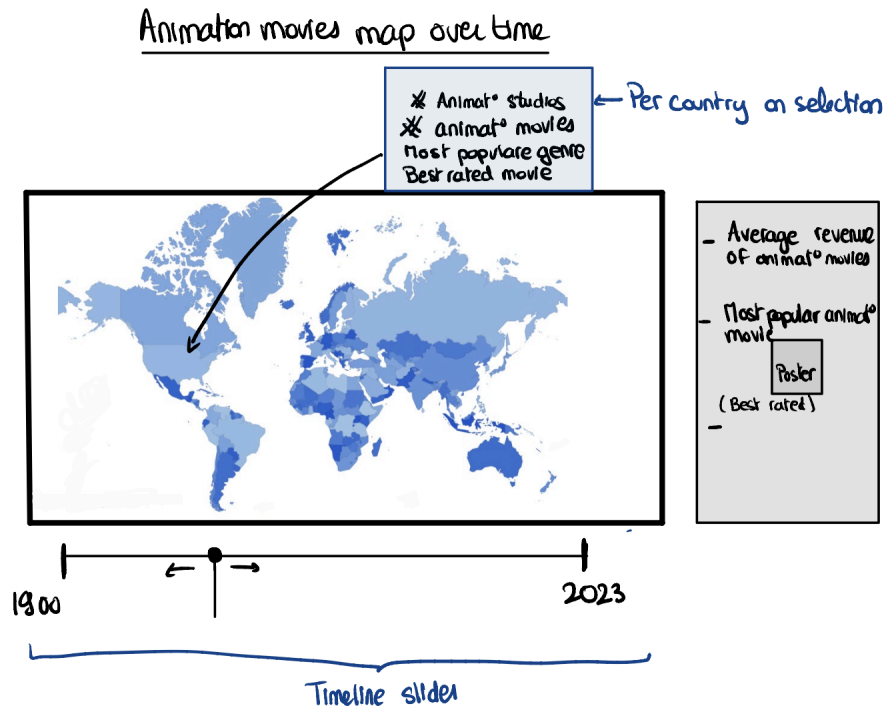
- Core: Search functionality with basic filters
- Side-by-side comparison of two movies with key metrics displayed

### Enhancement Features:

- Advanced metric visualization with animated transitions
- Related movies recommendations
- Save comparison feature for multiple pairs
- Radar charts for multi-dimensional comparison

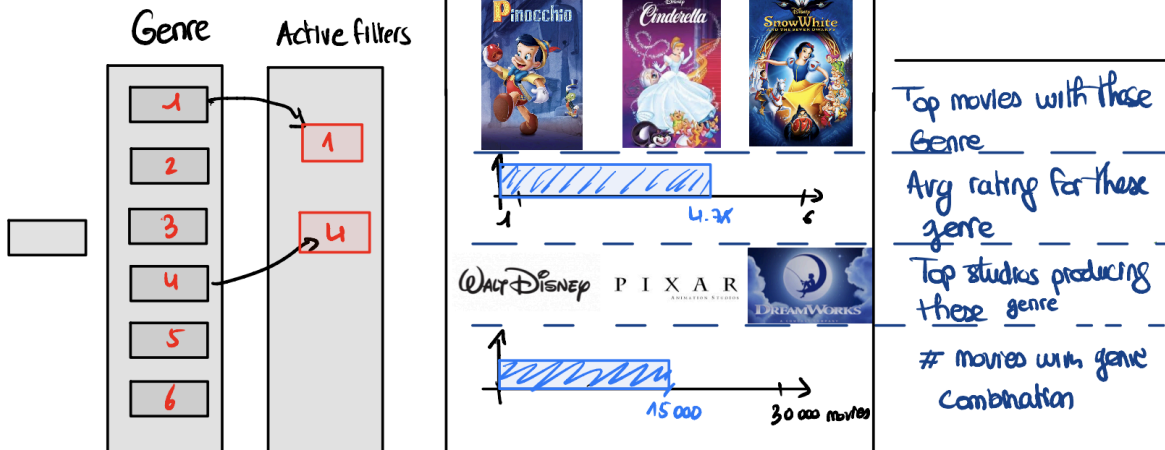
## Figures/Sketches

### Animation Movies Map Over Time:



### Animation Movies by Genre:

### Animation movies by Genre



Your Personal Movie Comparison:

