

1 Proposal

We will do a set of visualisations about various aspects of movies released and documented over time from the IMDb Database.

We'll primarily be relying on a curated dataset of 5000 movies.

Start of the visualisation will include a timelapse showing a cloud of all the movies recorded.

There will be a slider for showing the time lapse which will interact with movie cloud. Once you finalise on an year, it will show a bunch of visualisations for the year.

2 Data

We'll be using a curated dataset of 5000 movies extracted from imdb.

The data will have a lot of dimensions. Most important ones are the following

- Movie Title
- Director Name
- Gross Boxoffice Collection
- Budget
- Genre
- Keywords
- Duration
- Primary Actor
- Primary Actress
- Facebook likes for the movie page
- Facebook likes for the director
- Facebook likes for Actor1, Actor2 etc

3 Must Have Visualisations

3.1

Per year Visualisation

3.1.1 Main Tab

There will be a main tab of visualisation for every year. Once you slide the slider to the corresponding set of years, it'll stabilise the view and arrange the charts. Main Page There are three different navigations from the main page. Key elements in this page are Highest Grossing Movies of the year which is an interactive bar chart. It shows top 10 moveies which are scrollable to show more and when clicked on it, it will go to an overlay boxoffice tab

There is a tile chart of movies that are sorted by a metric (eg: Most popular), the metric is toggleable to other metrics (eg: Most rating, most facebook likes) etc That is selected from a drop down. Clicking on any movie will update the movie detail pane

3.1.2 Movie Detail Pane

Movie detail pane will have tiles showing actors/ other crew members and keywords and genre associated with it. Clicking on a person will take you the Personal Overlay tab and Clicking on the genre/keyword will take you to a tab showing list of movies that have similar keywords or fall under the same genre.

3.2 Navigation Tabs

Clicking on actor/director will get you the personal overlay tab, you can come back to the previous tab or navigate elsewhere

4 Additional Features

4.1 Animated Movie Cloud

Start of the visualisation will include a timelapse showing a cloud of all the movies recorded.

The timelapse could be an additional feature and clean demarcation of lines are definitely additional features.

4.2 Additional Navigation Tabs

Clicking on Genre/Keyword of a movie will show you to Similar movies overlay tab which similar movies in a seperate tab which can navigate to the main page with the selected movie

Clicking on the boxoffice bar will take you the show you similar grossing movies as well as movies with a similar budget as well as a details pane for the current movie. you can navigate to main page again clicking on a movie

5 Timeline

- November 11th: Get the dataset ready, start work on templates of tabs and timelapse
- November 24th: Work on basic timelapse complete, navigation tabs ready
- December 1st: Navigations complete
- December 2nd: Polishing complete.

6 Feedback

These were the key ideas from the feedback provided by Stefan Hamilton and Anil Dhungel

1. Objectives are interesting, especially linking between various objects in panes and timelapse
2. Scope is too large, move most of it to additional features.
3. Design seems scalable
4. Primary encoding: Size of pictures/nodes.
5. Other visual variables: Links between nodes and other items. Colours could be used for genre/keywords.
6. Interaction is responsive
7. Views are coordinated within the timelapse and the navigation tab but not integrated together.
8. Timelapse animation(big bang) during page load might not fit well.

7 List of Figures

A list of figures from the brainstorming sessions and the peer feedback session are attached.

The first figure is the animation timelapse and how it might look like, you can see how each elements interact and how the transitions might look like.

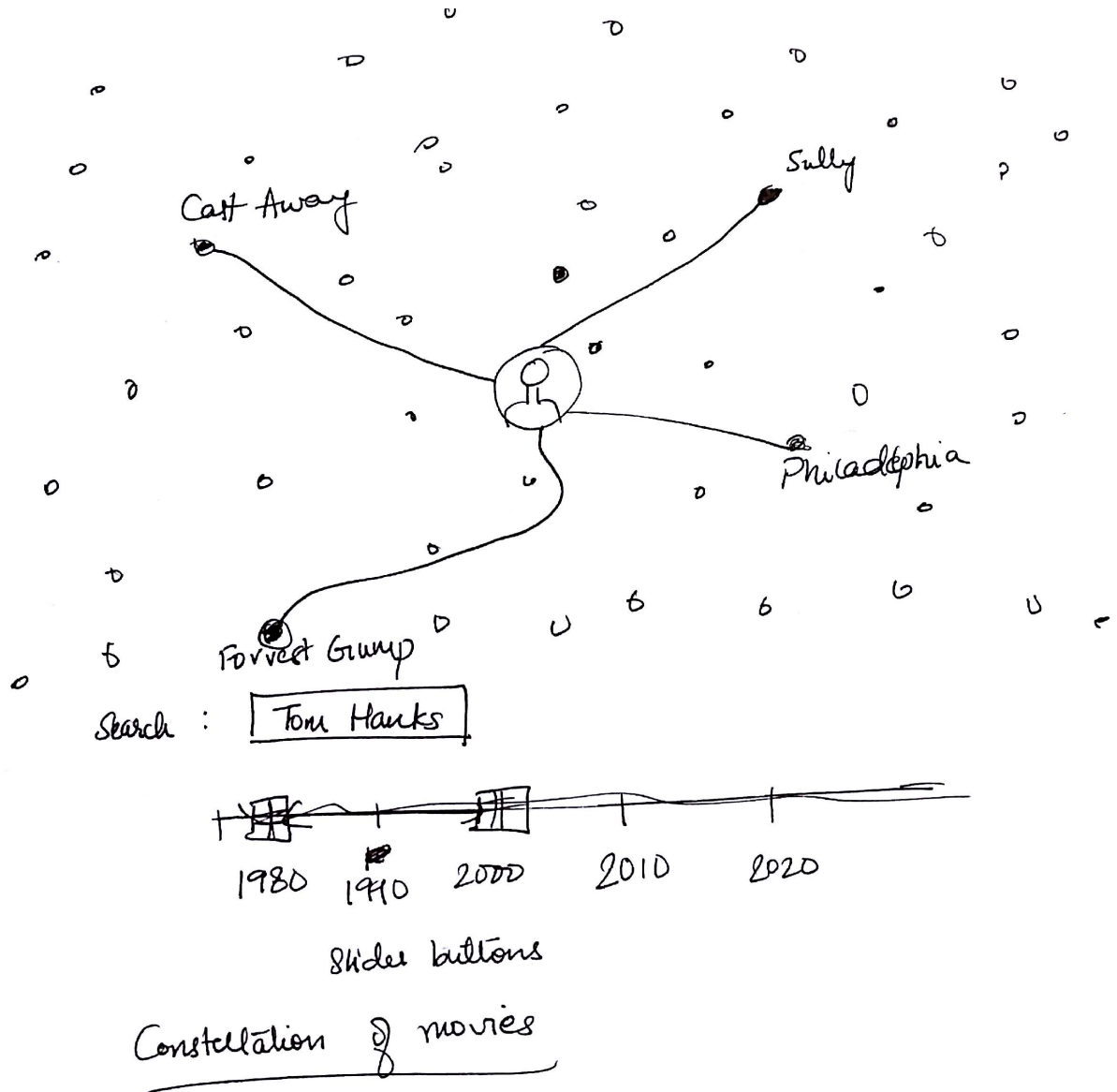
Second figure is the main tab in the visualisation, It contains the movie detail pane, the highest grossing movies chart and a sorted tile chart of movies based on various criteria.

Third figure is the money overlay tab and similar grossing movies. it also shows a detail pane that will rank all money related aspects of the selected movie.

Fourth figure shows the overlay tabs for persons (Actor/Director) as well as the overlay tab for the genre/keyword. It's shown how the similar movies to the genre as well as frequent collaborators and their famous movies to the actor are displayed in this overlay tab.

Final figure is a scanned copy of the peer feedback we received in the feedback session

Main Page (Animation With a cloud of actors and movies)



Movie Details (click on a movie)

Click
go to
actor
overlay

Actor



Crew



Keywords

Genre

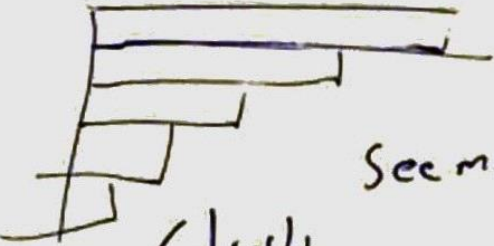
Comedy

Thriller

Action

Sci-Fi

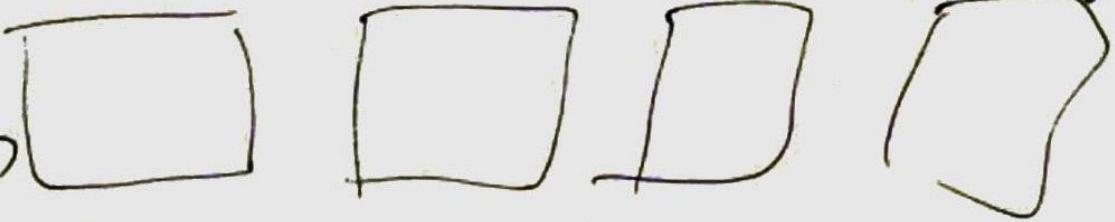
Highest Grossing



See more

Click
go to movie overlay

Most Popular Movies (dropdown other categories)



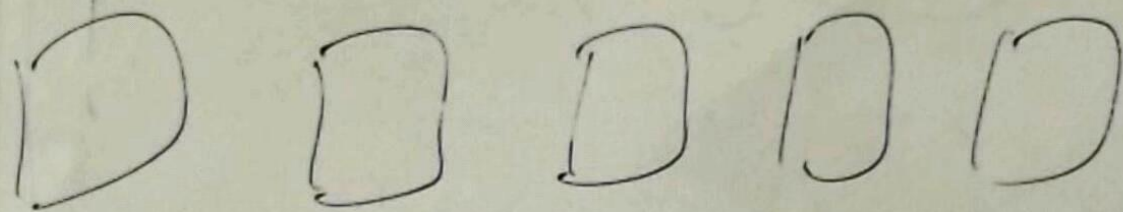
Click
go to
movie
overlay



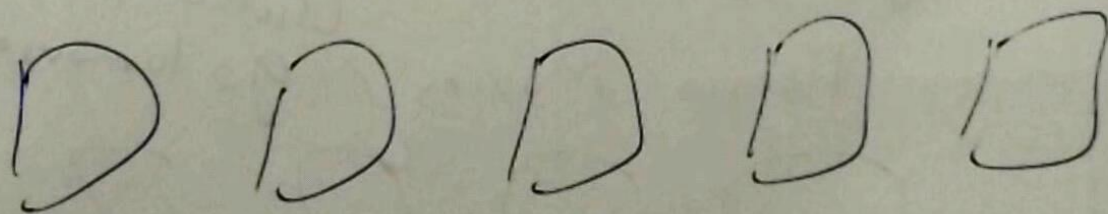
Year

Money Overlay

Similar Budget movies



Similar Grossing Movies



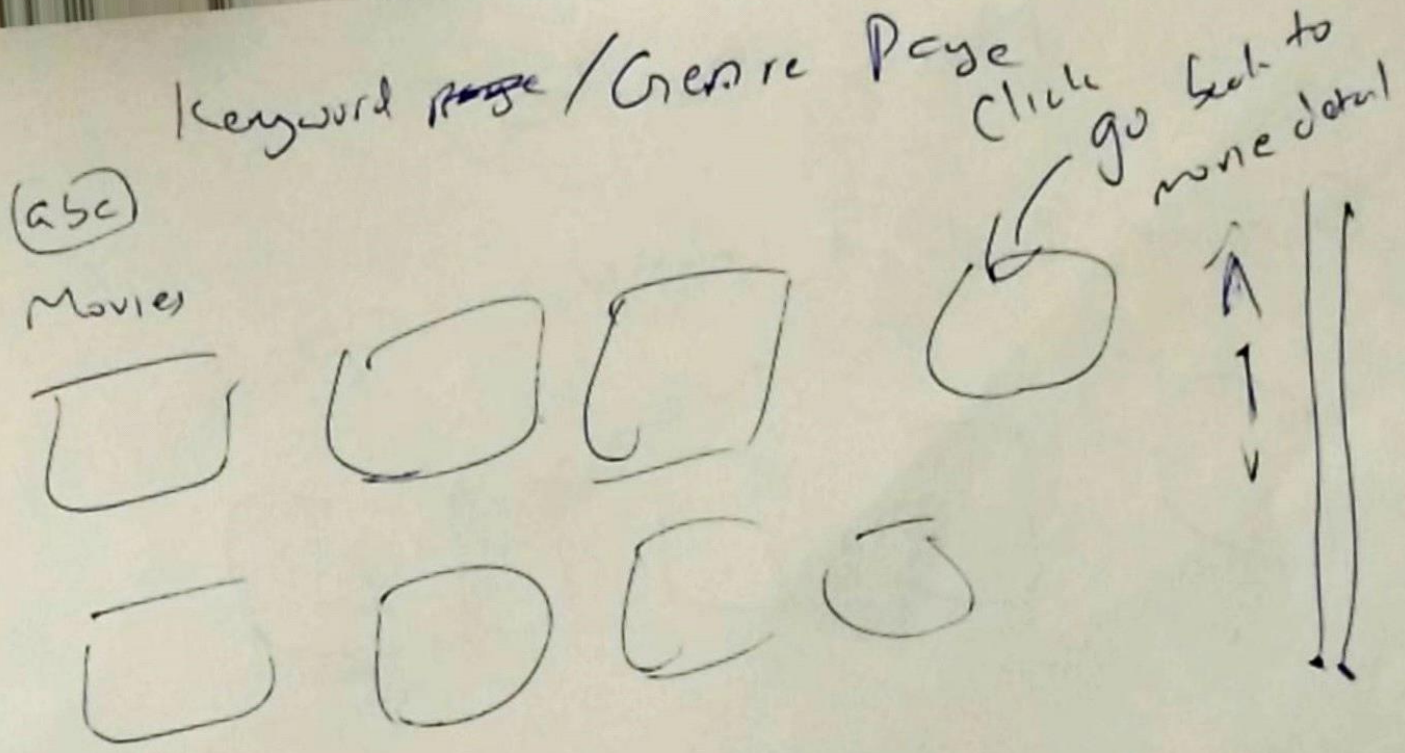
Details of Box office for movies

Total Budget

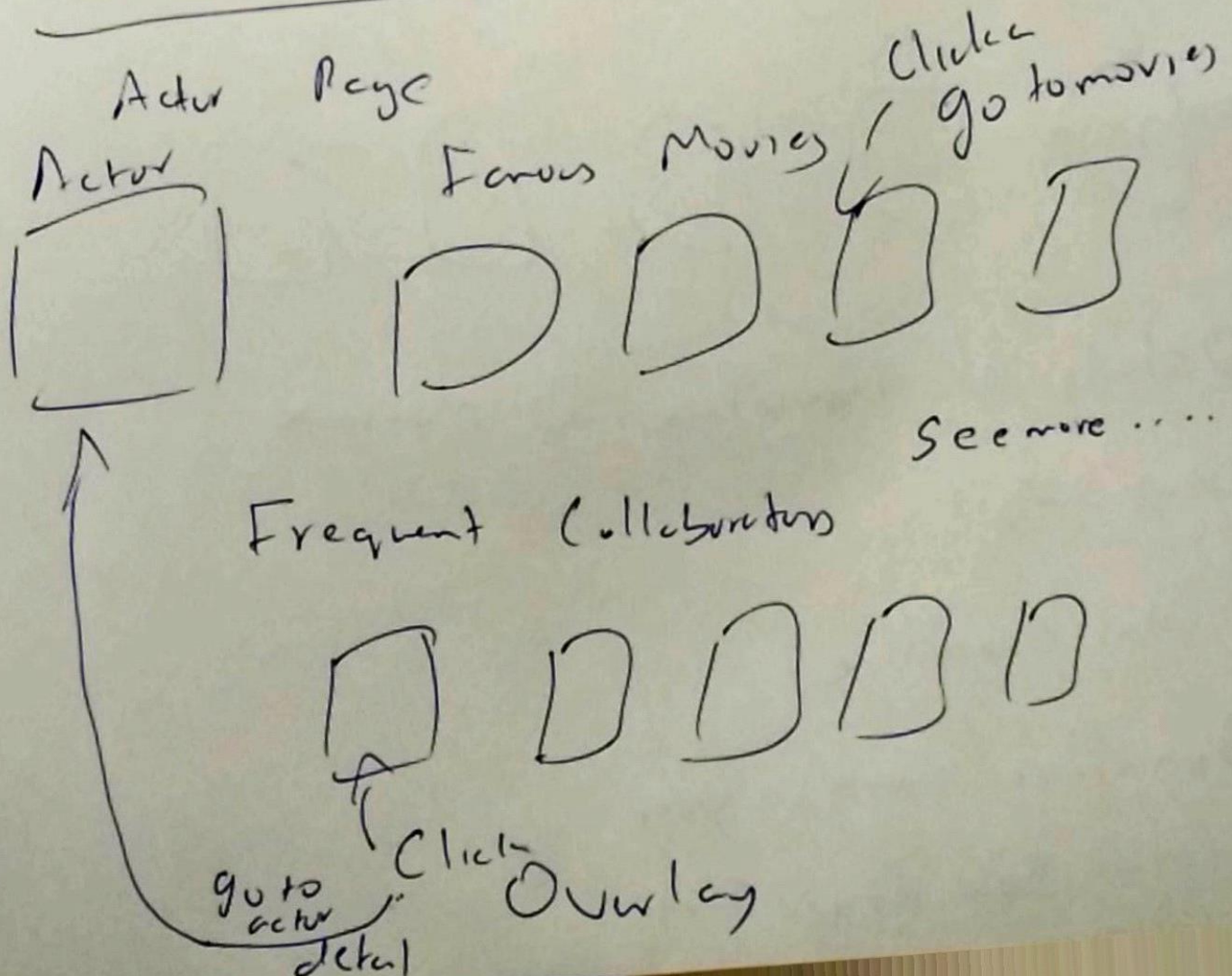
Total Box office

Box office Rank in year:

Total Box office Rank



Overlay



General Questions

Objectives are interesting, especially the node linking.

The scope seems too large, so better definition of required and optional features is recommended. 75% of features could be moved to optional features.

The node and linking is innovative and something I have not seen.

Both should scale

Animation between nodes. Larger nodes represent more important items.

Primary Encoding: Size of pictures/nodes. Encoding matches user selections which are most important

Other visual variables: links, they are effective

Color was not used but could represent genre.

Interaction is meaningful since mostly responsive to human interaction

Views are coordinated for each proposal but not between the two

Big bang during page load. Depends on implementation but could be

Stefan Hamilton

Anil Dhunge