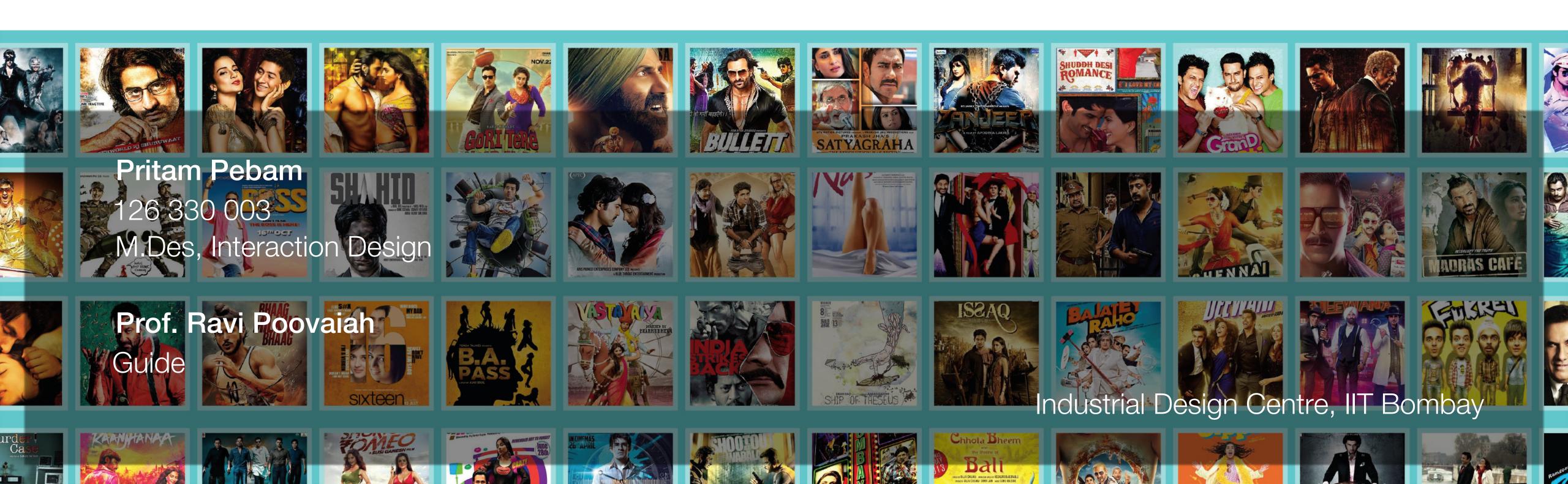
Interactive Information Explorer

for Bollywood Data



Summary so far

The definition

Interactive Information Explorer (IIE) is an interaction model which represents collated data in such a manner that helps reduce human cognitive load.

Project Direction

- -Structuring
 - —Information Architecture
- **Presentation**
 - —Information Visualization

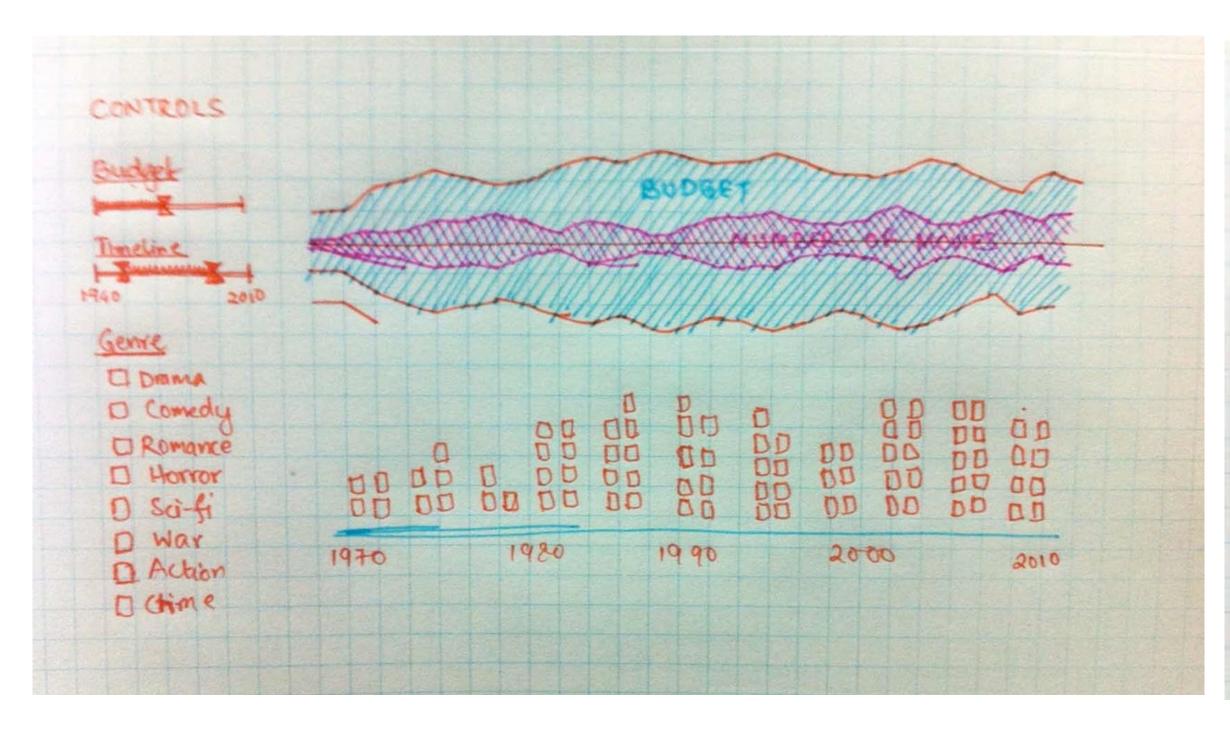
User Group

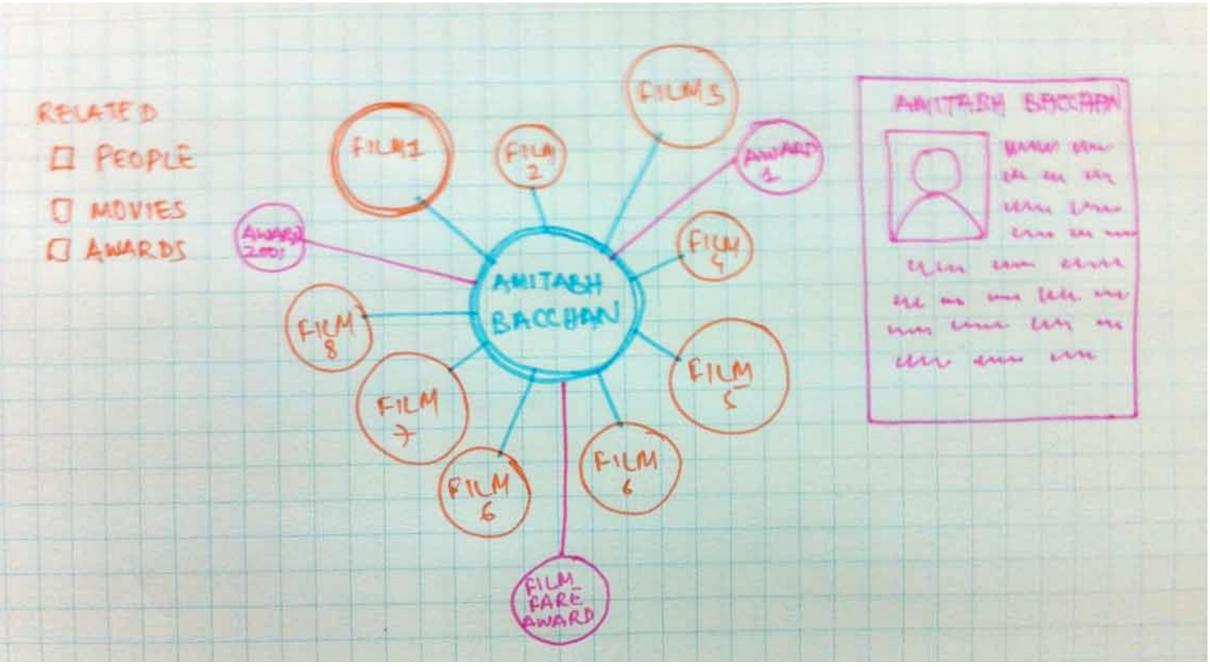
Movie Lovers

User Persona

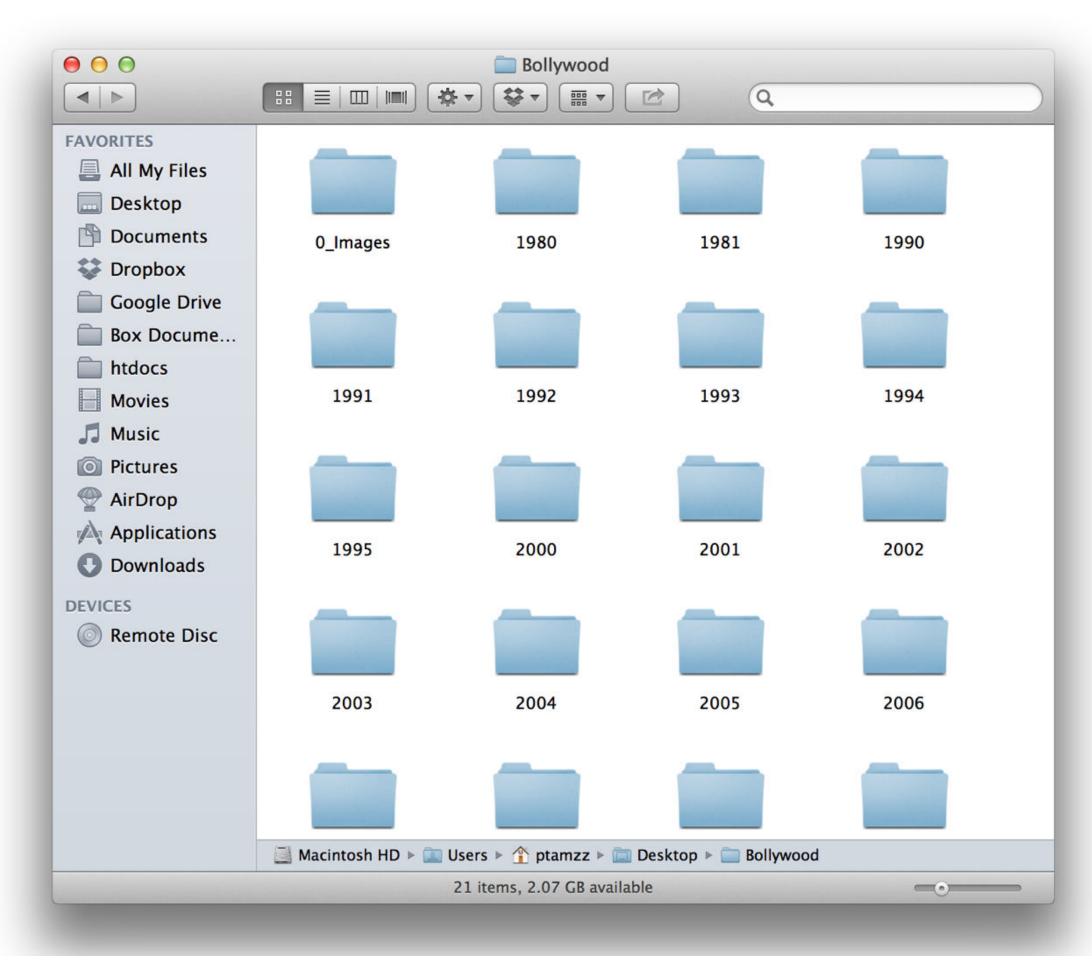
- A college student
- Interested in film making
- -People usually take movies from him
- -Friends usually ask him for movie suggestions
- -Has a huge collection of movies

Ideation: Stage 1



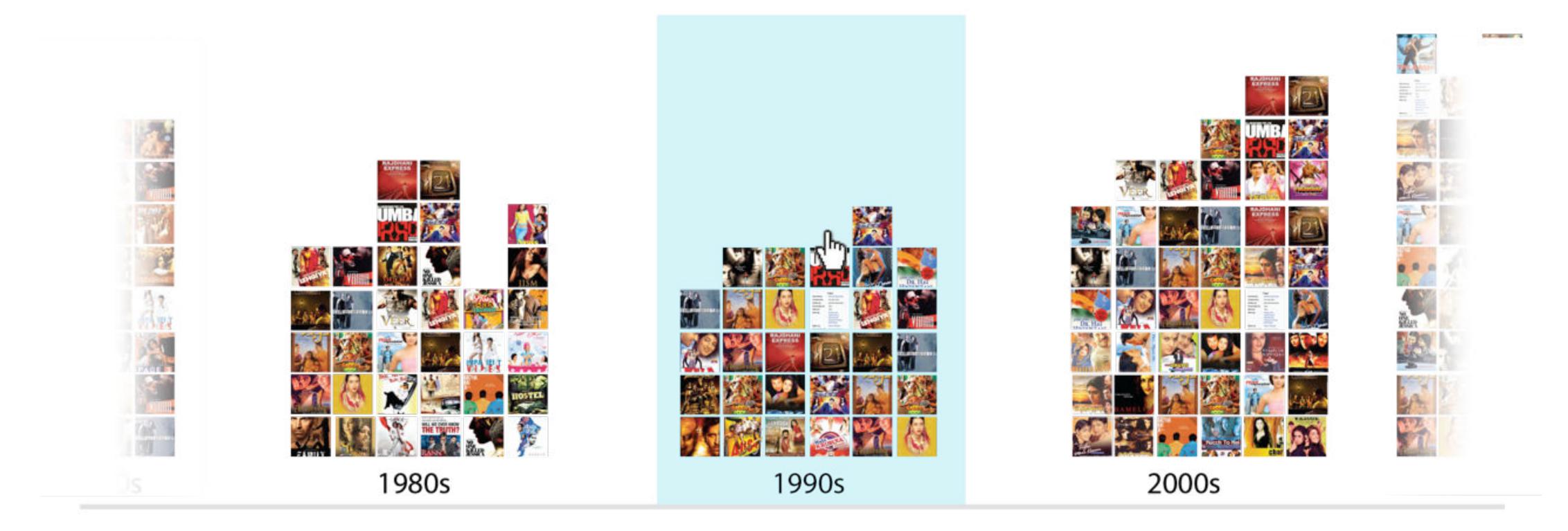


Ideation: Stage 1



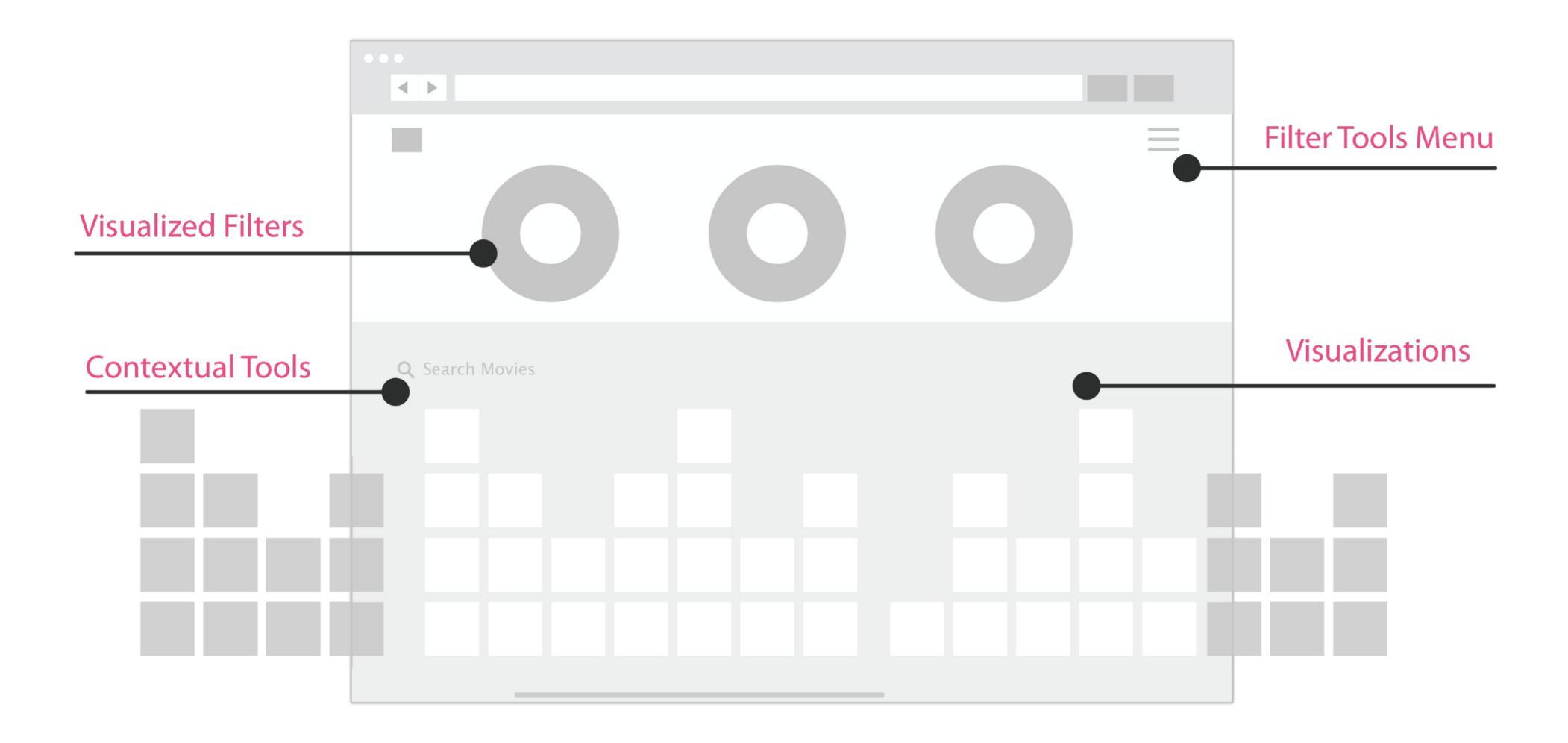


Ideation: Phase 2

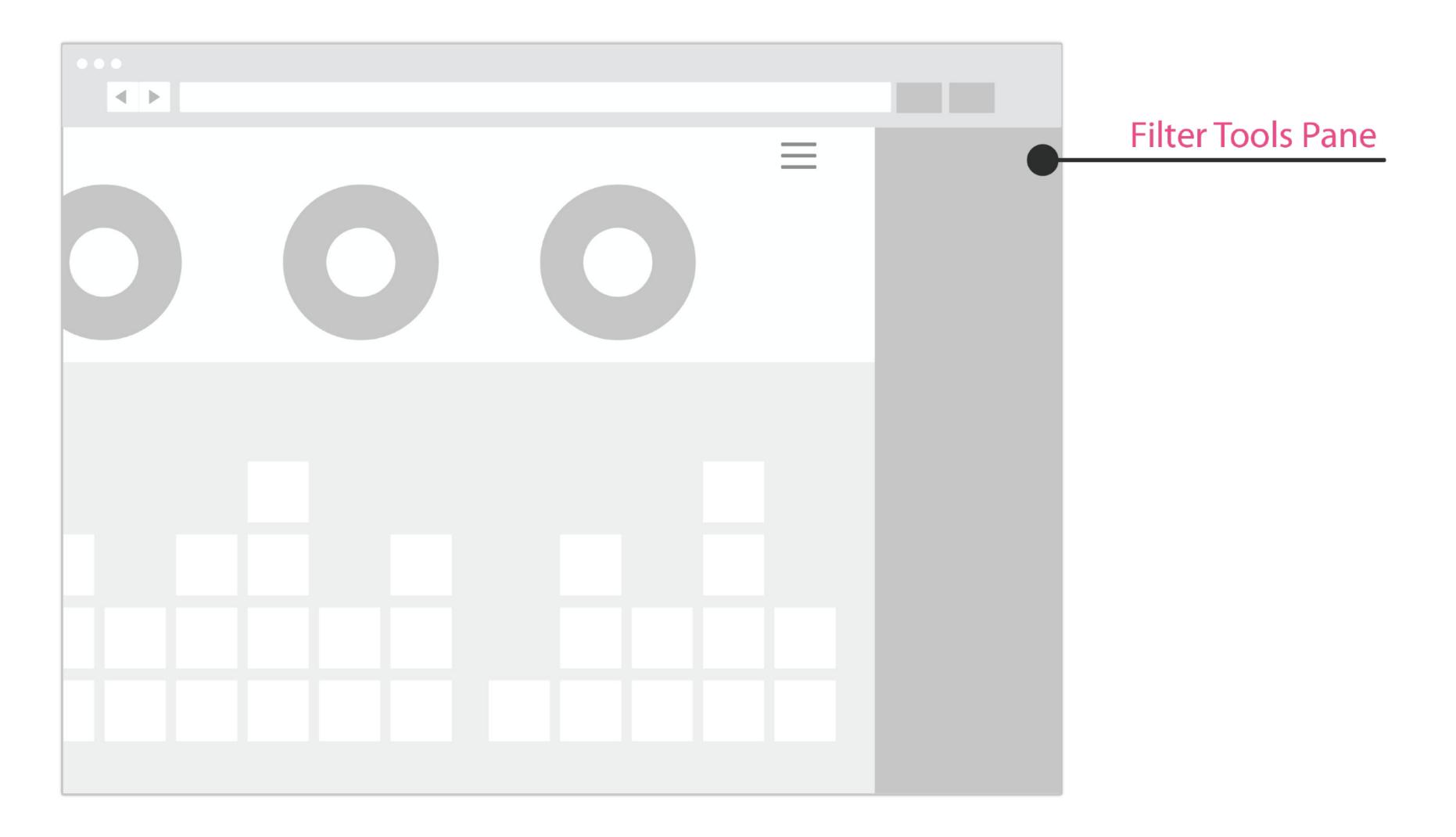


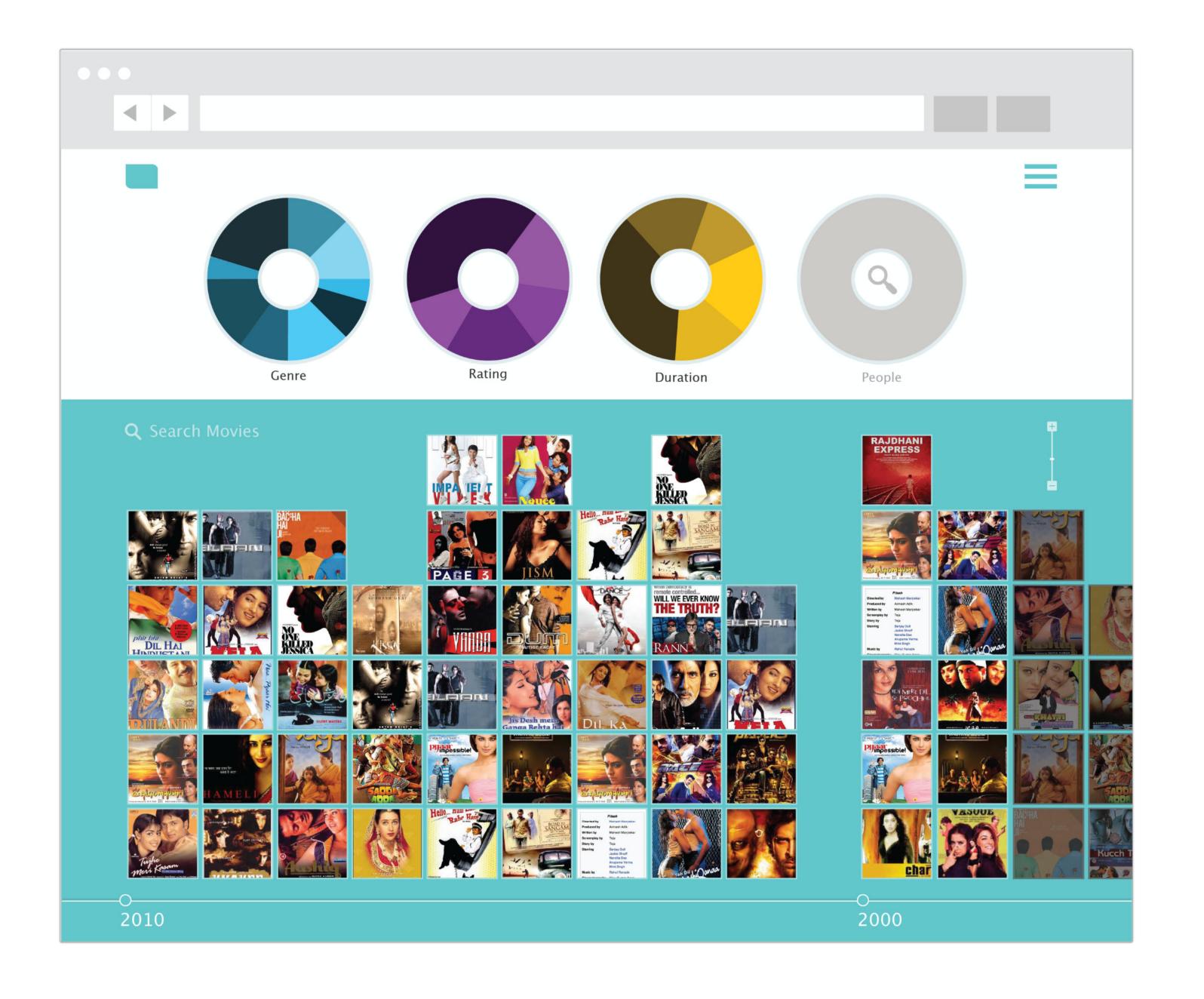
Drama	Sci-Fi	Comedy	Romand	ce	Horror War
50cr+ 50	-10cr	10-8cr	8-5cr	< 5c	r

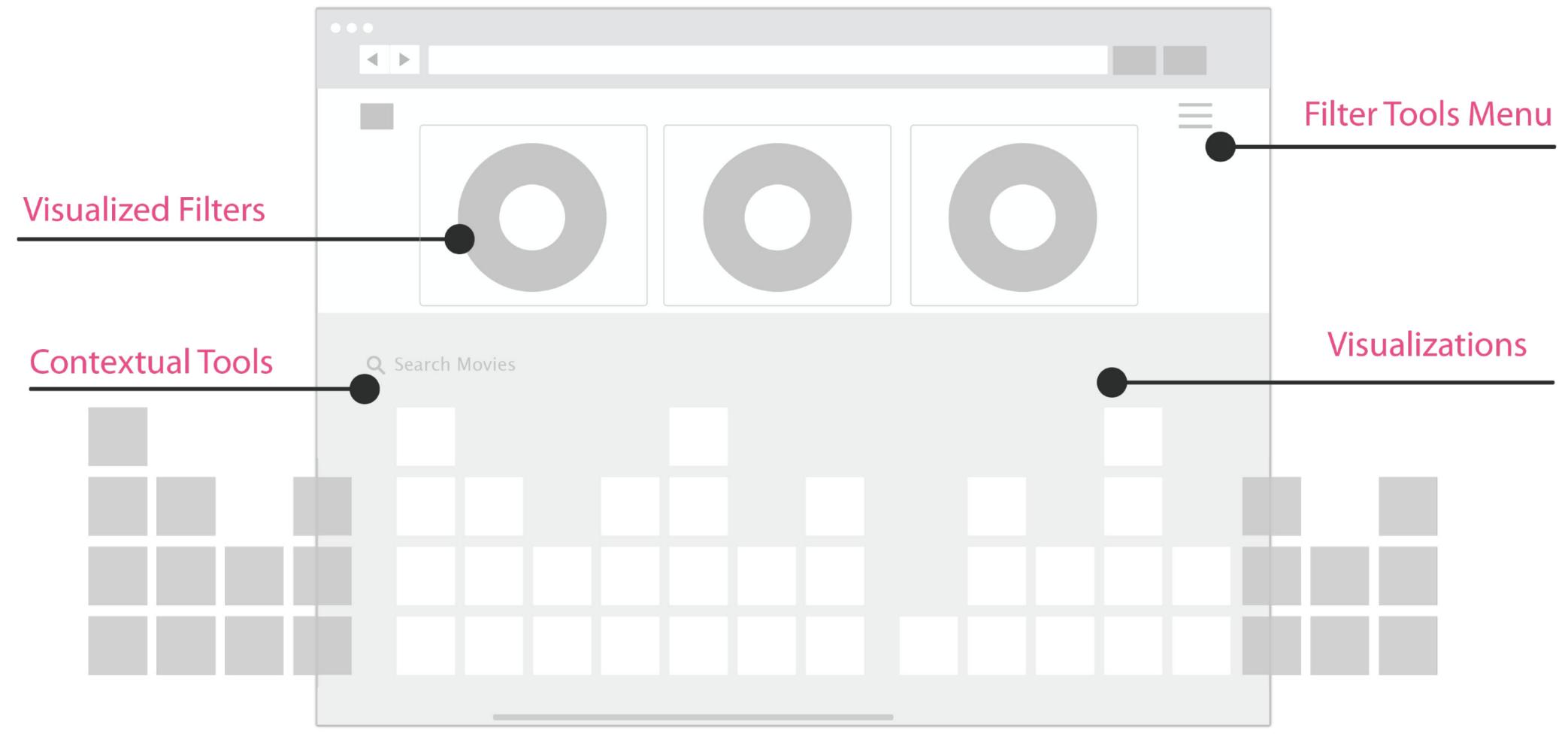
Ideation: Phase 3



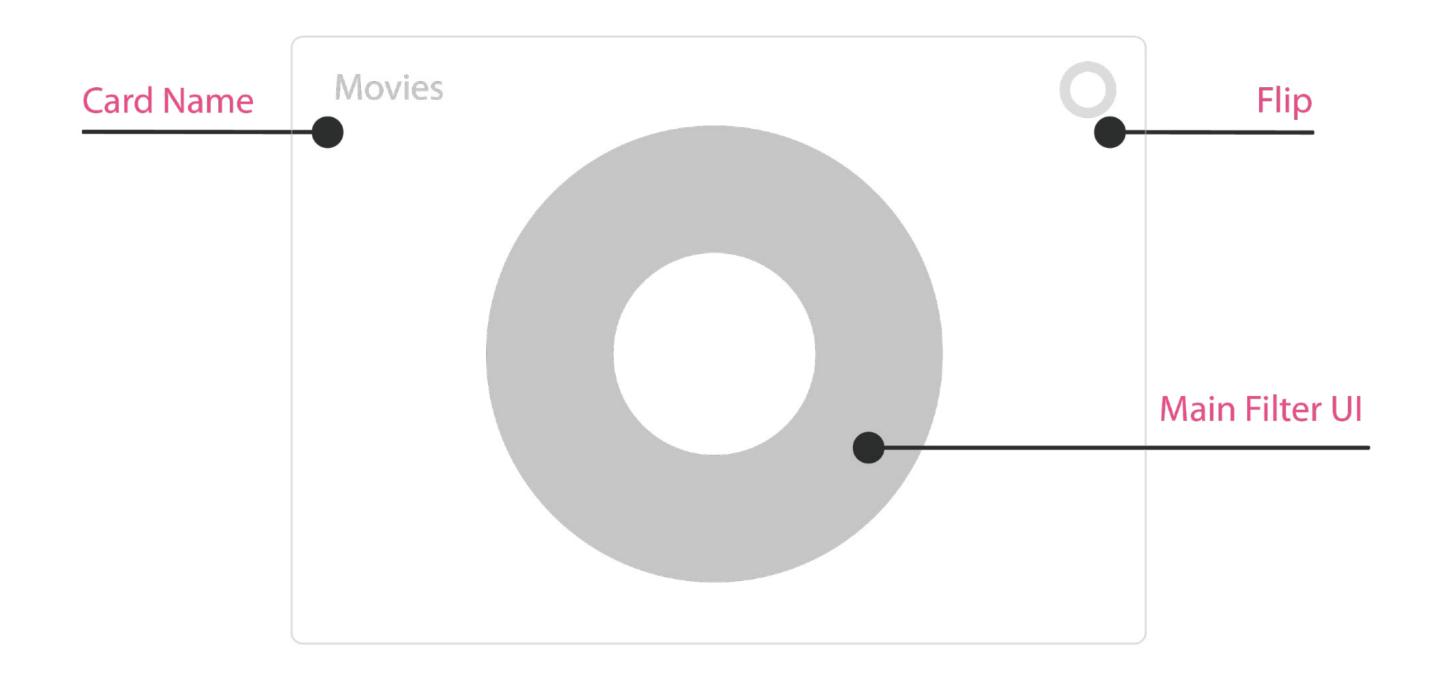
Ideation: Phase 3



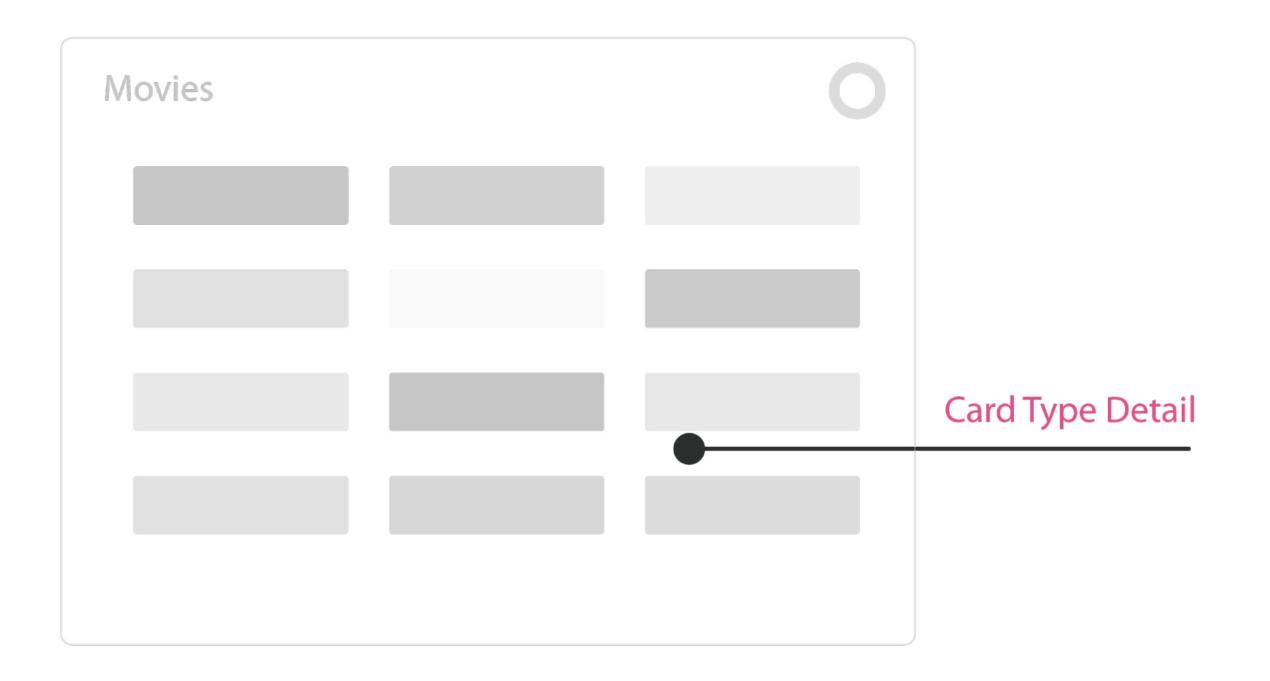




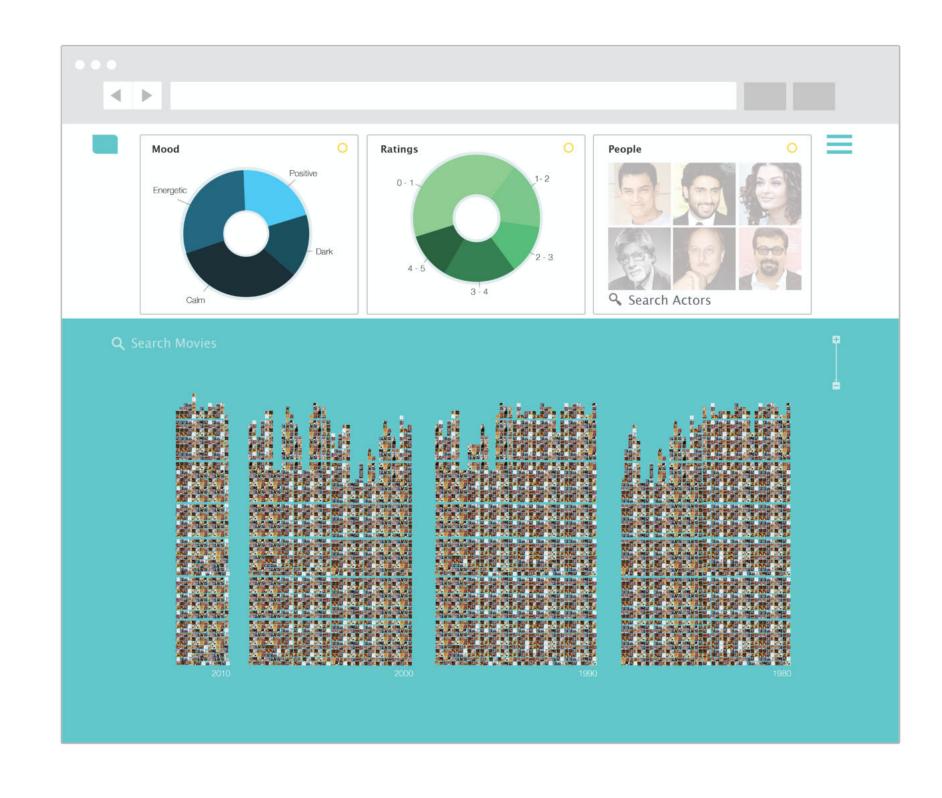
Introducing 'card' as basic UI element



Front: Shows main information or interaction elements



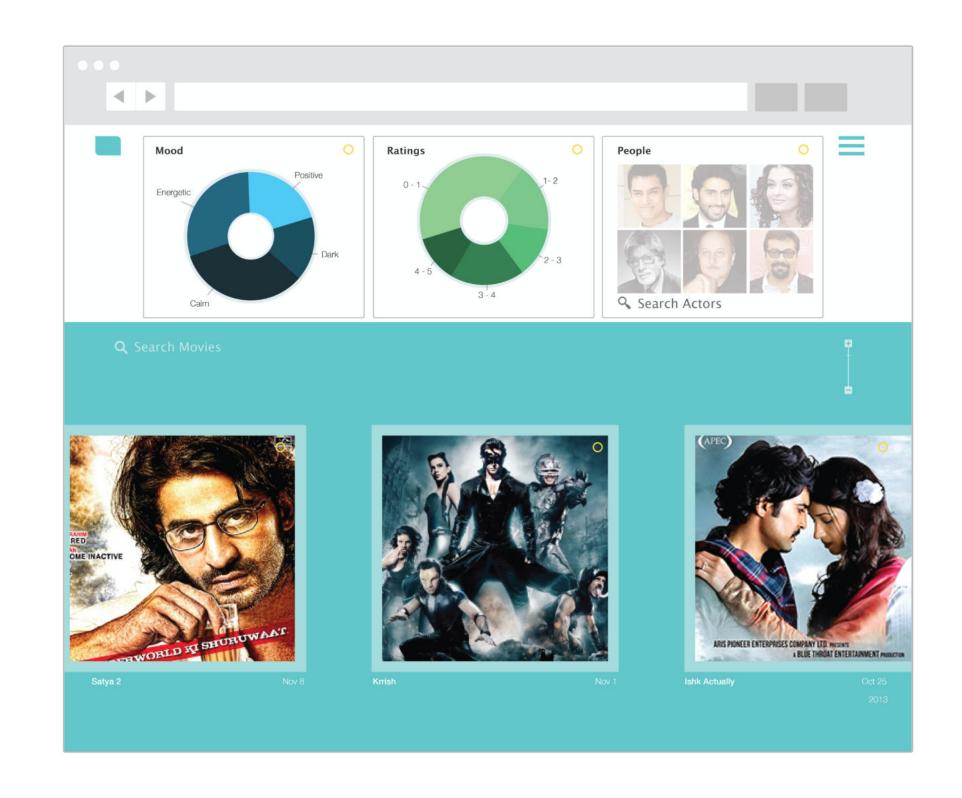
Flip to back: Shows contextual detailed information of the card type



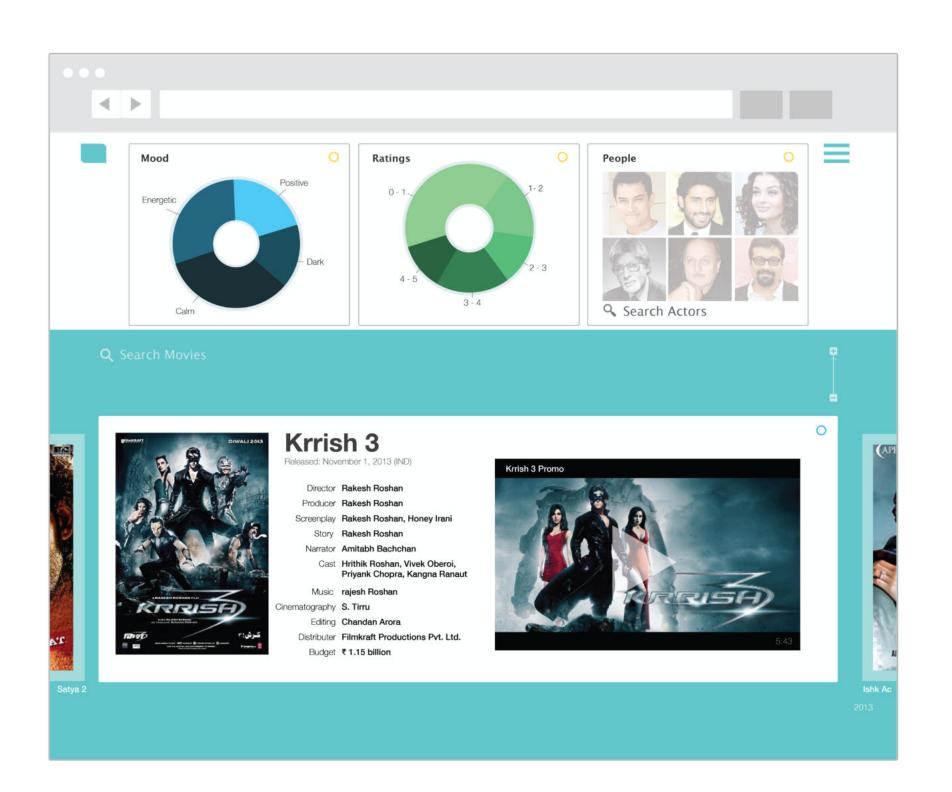
Q. Search Movies

Q. Search Mo

Decade view Year View



Movie Card View



Detailed View after flipping the Movie Card

Research

Understanding Building Blocks

Understanding Microsoft Pivot

-Analysis of Existing Visualizations

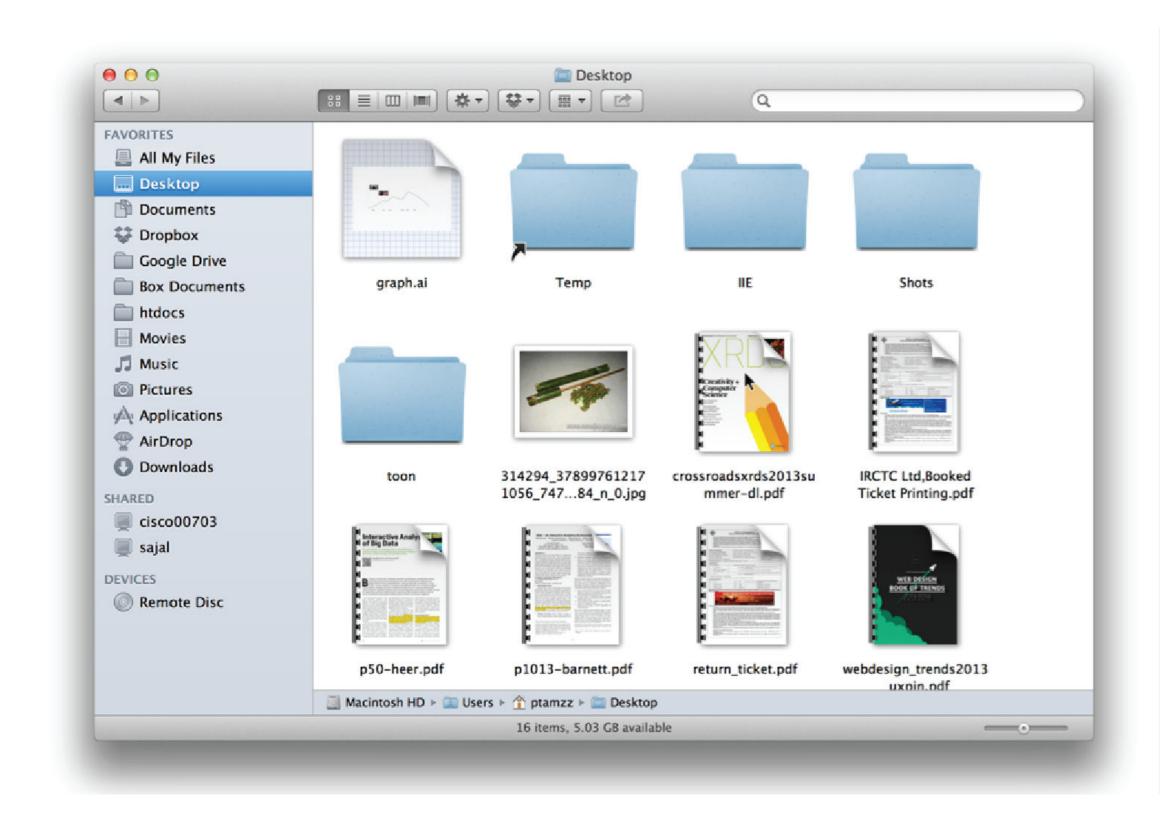
- Understanding Building Blocks
 - "Interactive", "Information", "Explorer"?
- Understanding Microsoft Pivot

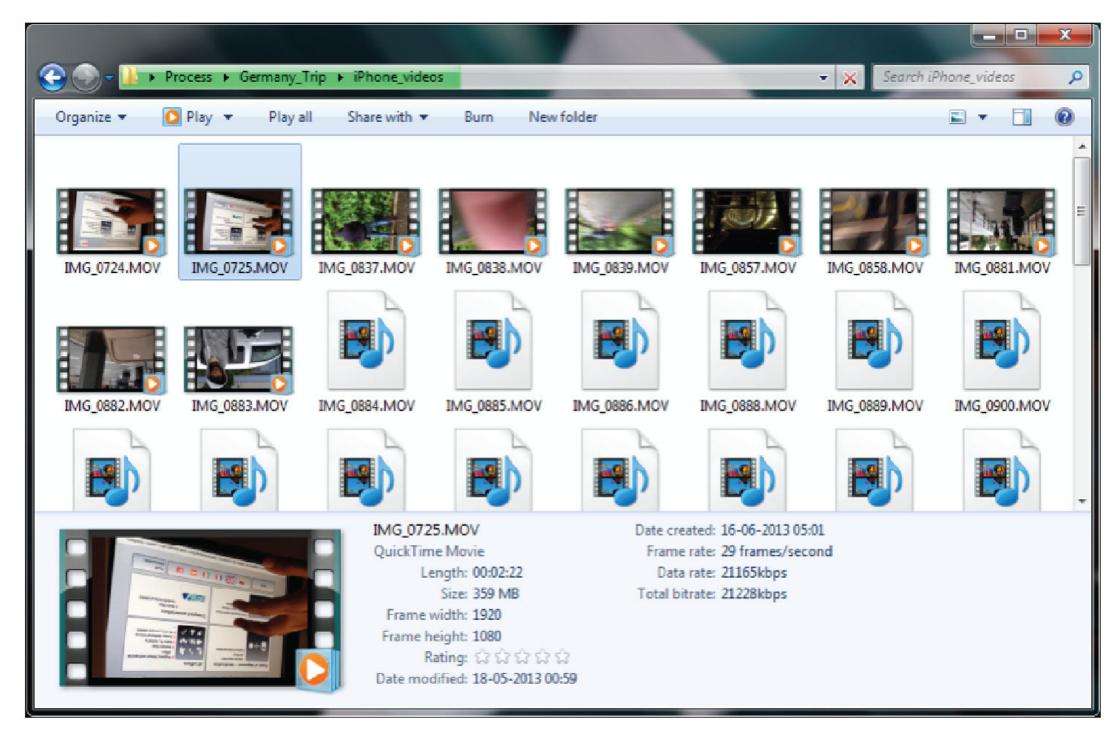
-Analysis of Existing Visualizations

- Understanding Building Blocks "Interactive", "Information", "Explorer"?
- Understanding Microsoft Pivot How Microsoft Pivot organises data?
- -Analysis of Existing Visualizations

- Understanding Building Blocks "Interactive", "Information", "Explorer"?
- Understanding Microsoft Pivot How Microsoft Pivot organises data?
- Analysis of Existing Visualizations
 Insights from existing visualizations

Understanding Building Blocks





What is a Explorer?

Understanding Building Blocks

Population Data

India 1.237 billion (2012)

China 1.351 billion (2012)

Information

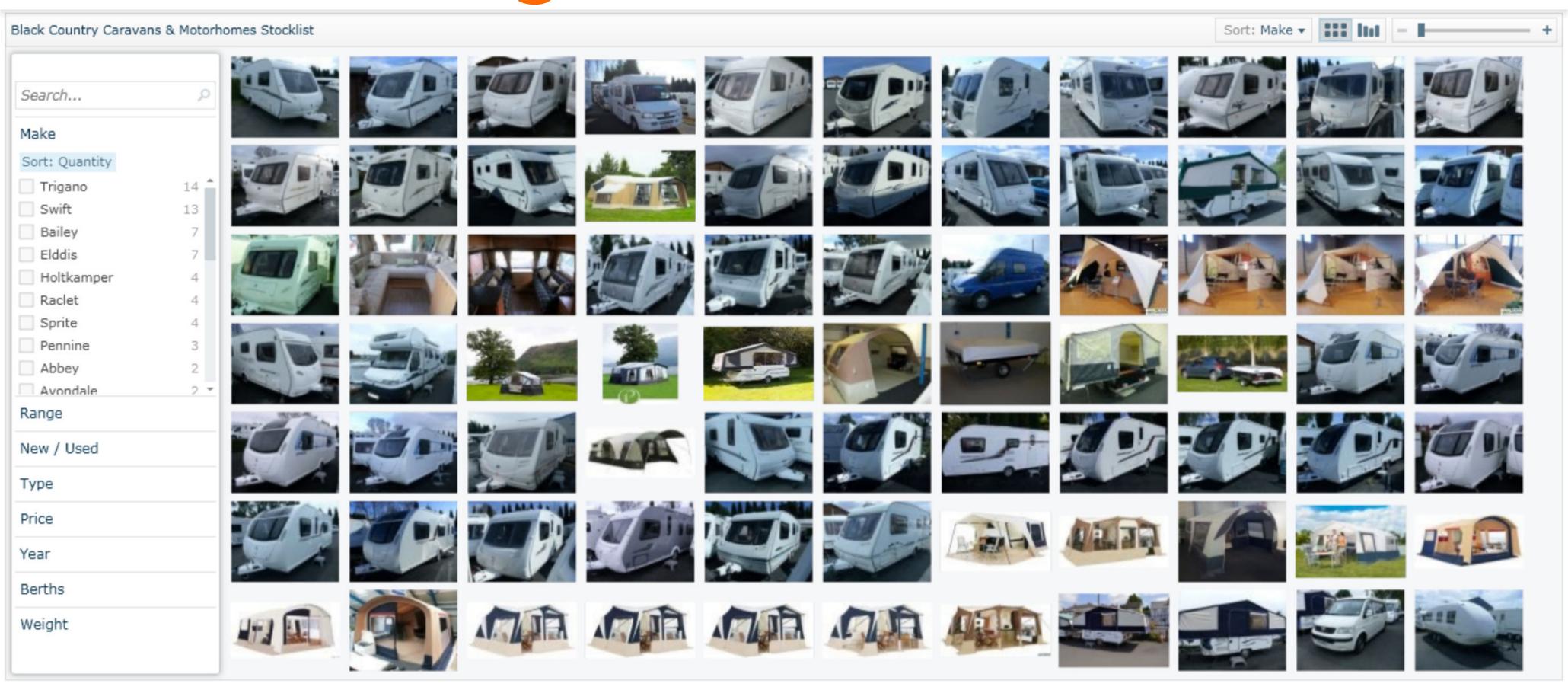
China is 1.09 times more populated as India

Understanding Building Blocks

What is a 'Information'?

- consists of one or more data
- the data is well-formed
- the well-formed data are meaningful

Understanding Microsoft Pivot

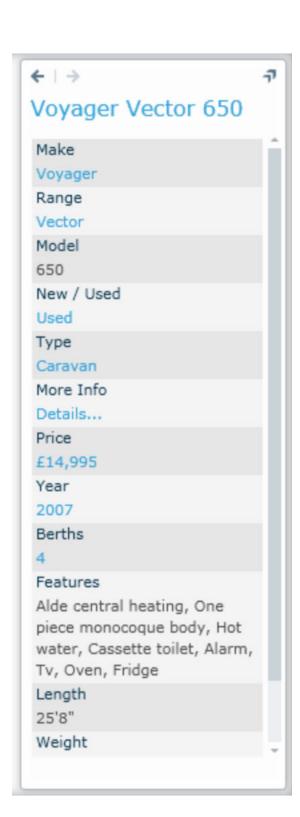


Zoomable Area

Understanding Microsoft Pivot



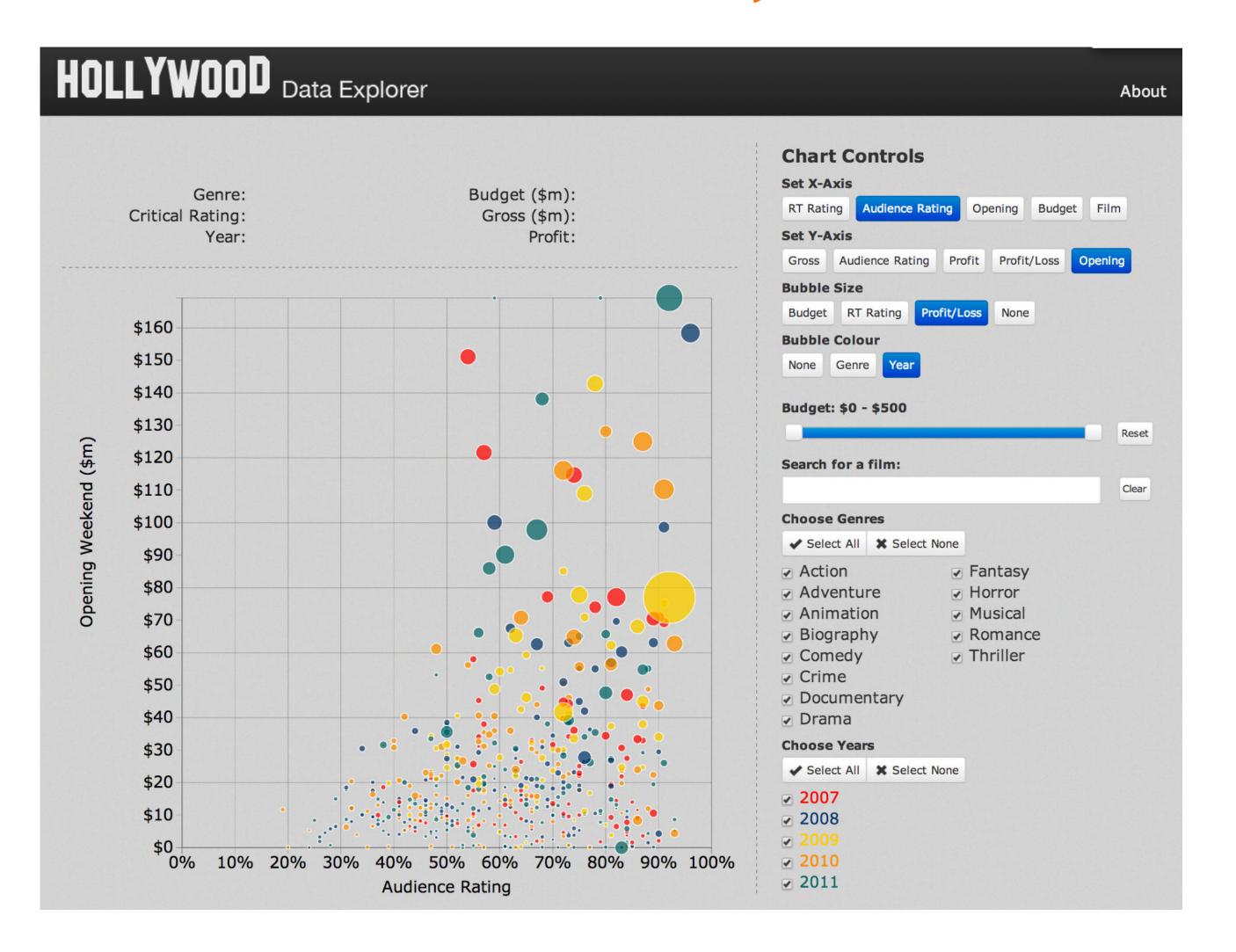
Control Tools



Meta Data

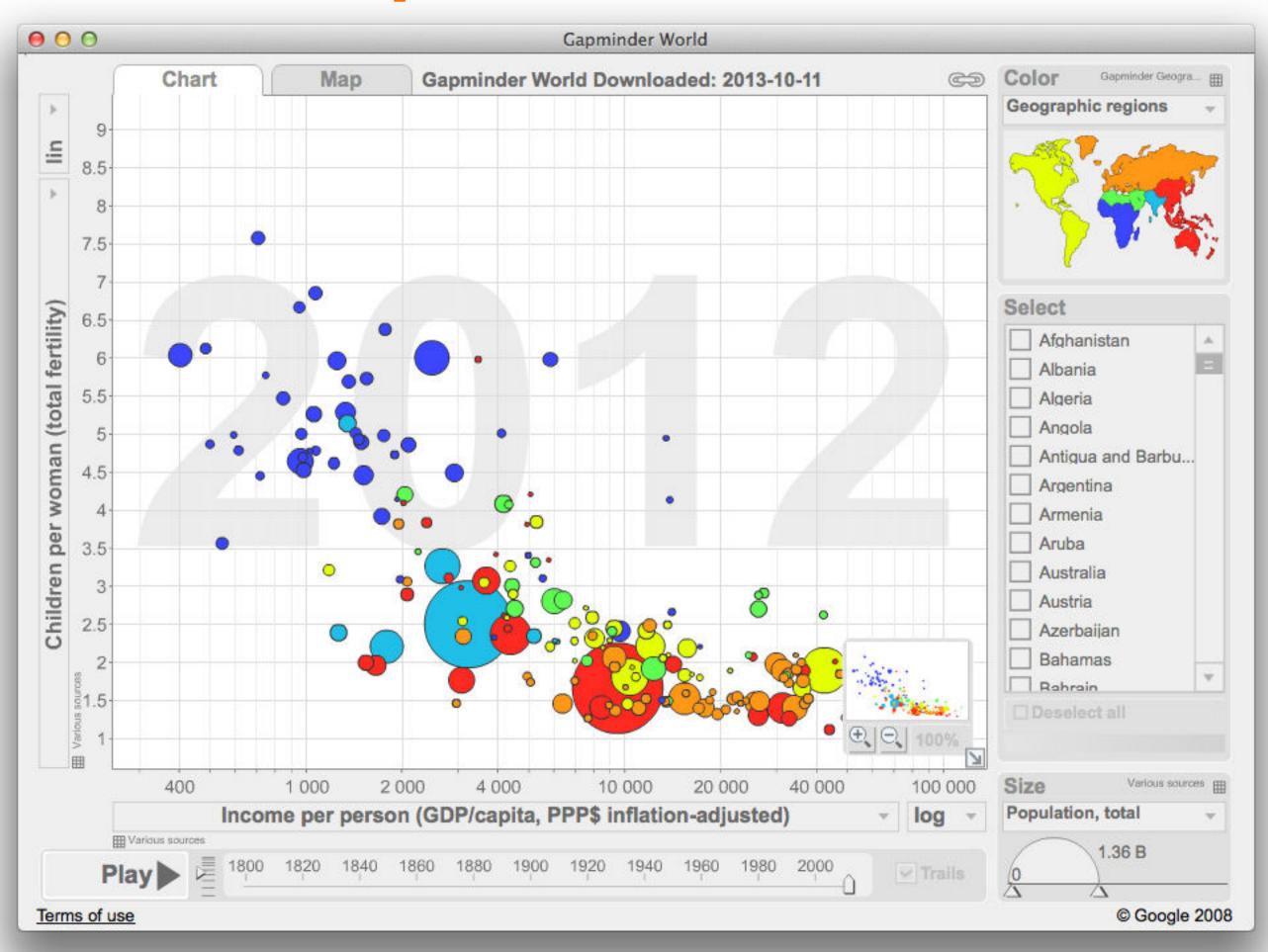
Primary Research: Analysis of Existing Products

Information is Beautiful: Hollywood Data Explorer



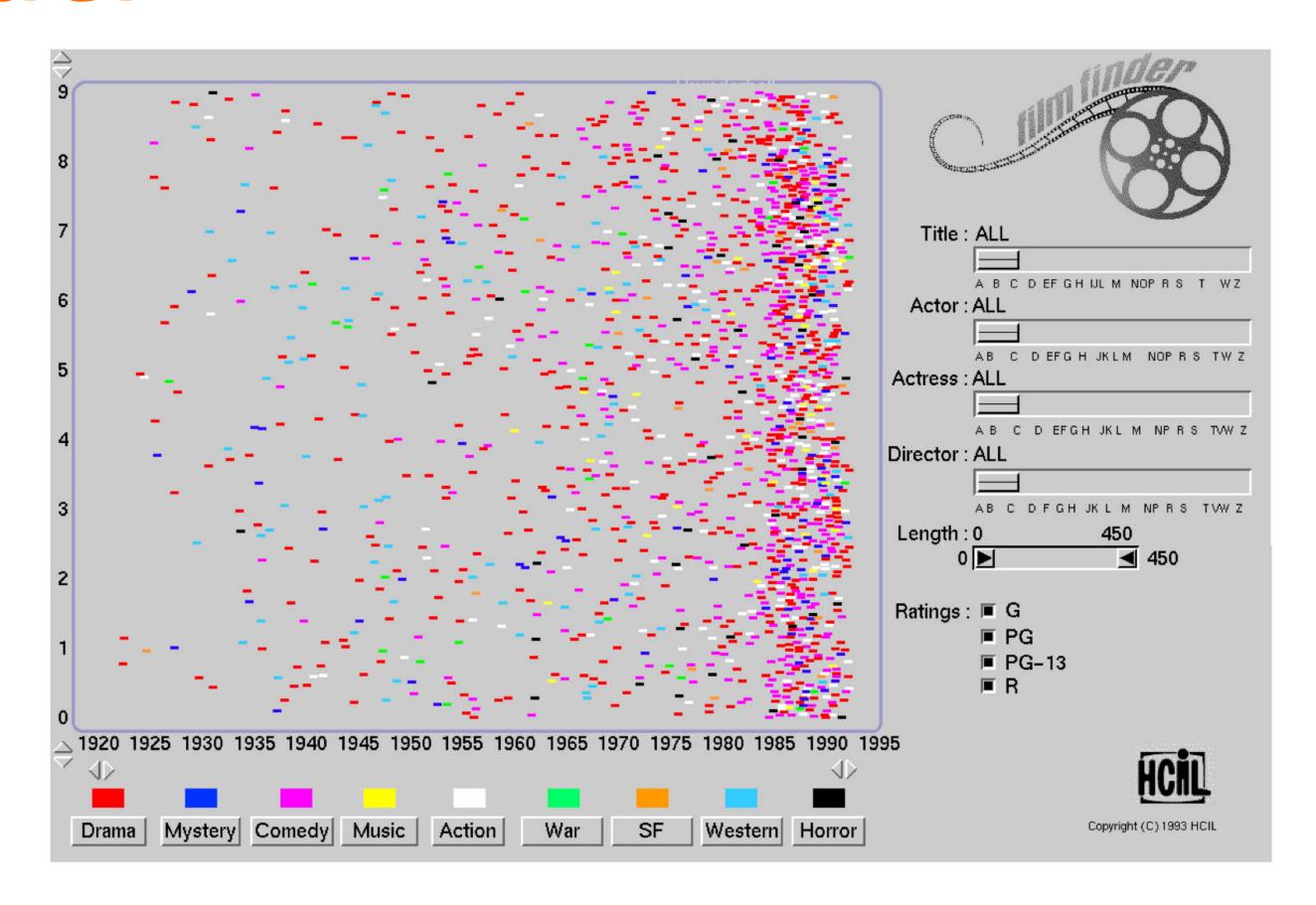
Primary Research: Analysis of Existing Products

Trendalyser: Gapmind Foundation

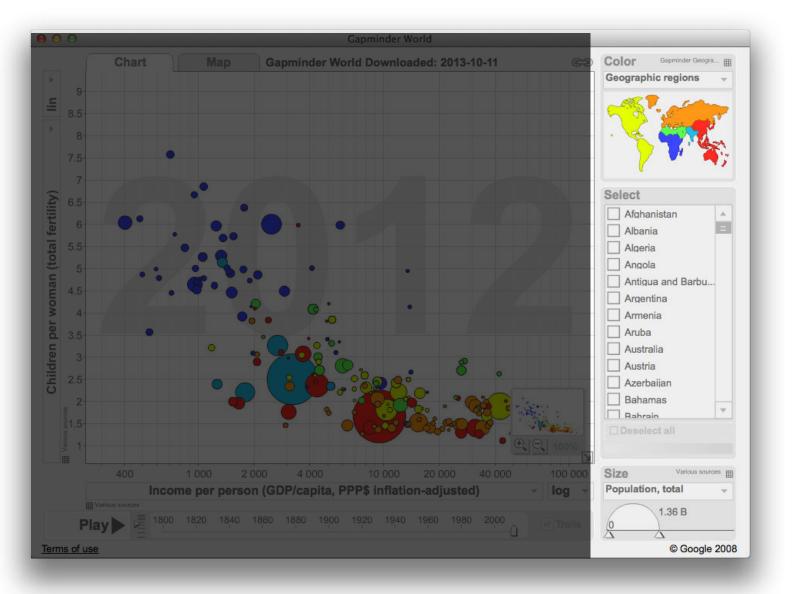


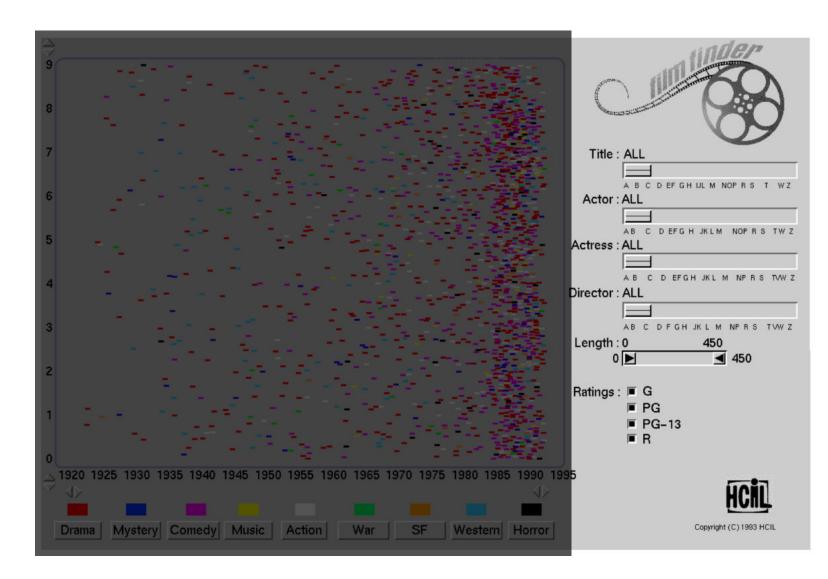
Primary Research: Analysis of Existing Products

FilmFinder









Filters are important: It reduces down data tremendously

The Data

Data

Movie Name (1980 - 2013)

Director Narrator Editing

Producer Music Distributor

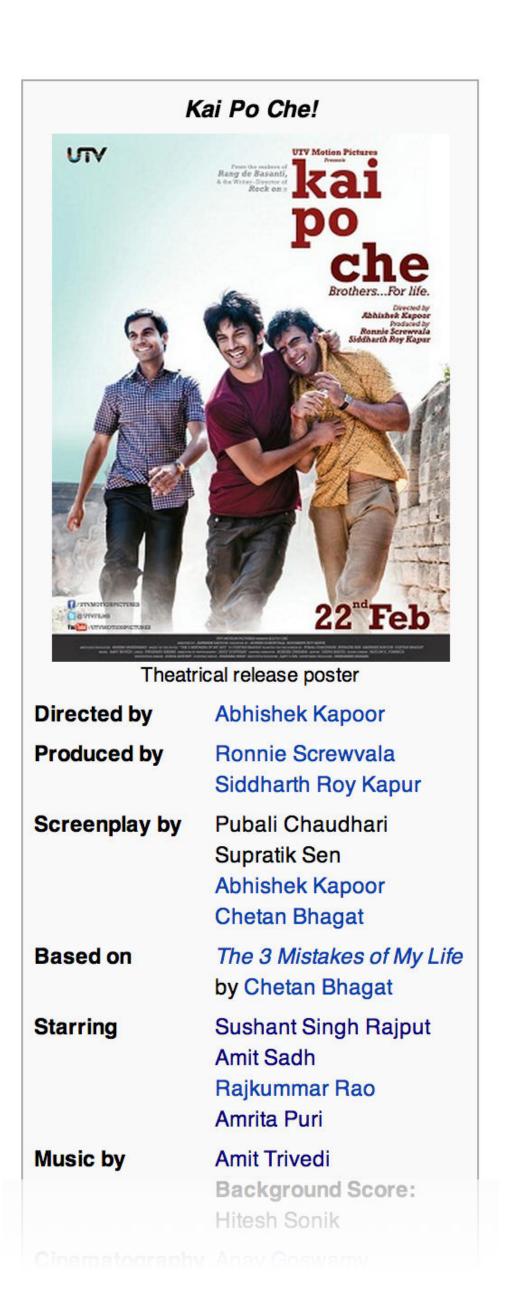
Screenplay Casts Release Date

Story Cinematography Budget

Writer Based on Gross

http://en.wikipedia.org/wiki/List_of_Bollywood_films

http://www.bollywoodhungama.com/



Movie Name (1980 - 2013)

Director Narrator Editing

Producer Music Distributor

Screenplay Casts Release Date

Story Cinematography Budget

Writer Based on Gross

Is a person's or persons' name(s)

Movie Name (1980 - 2013)

Director	Narrator	Editing
Producer	Music	Distributor
Screenplay	Casts	Release Date
Story	Cinematography	Budget
Writer	Based on	Gross

Are conditionally available or sometimes missing

Movie Name (1980 - 2013)

Director Narrator Editing

Producer Music Distributor

Screenplay Casts Release Date

Story Cinematography Budget

Writer Based on Gross

Multiple dates available for different countries

Movie Name (1980 - 2013)

Director Narrator Editing

Producer Music Distributor

Screenplay Casts Release Date

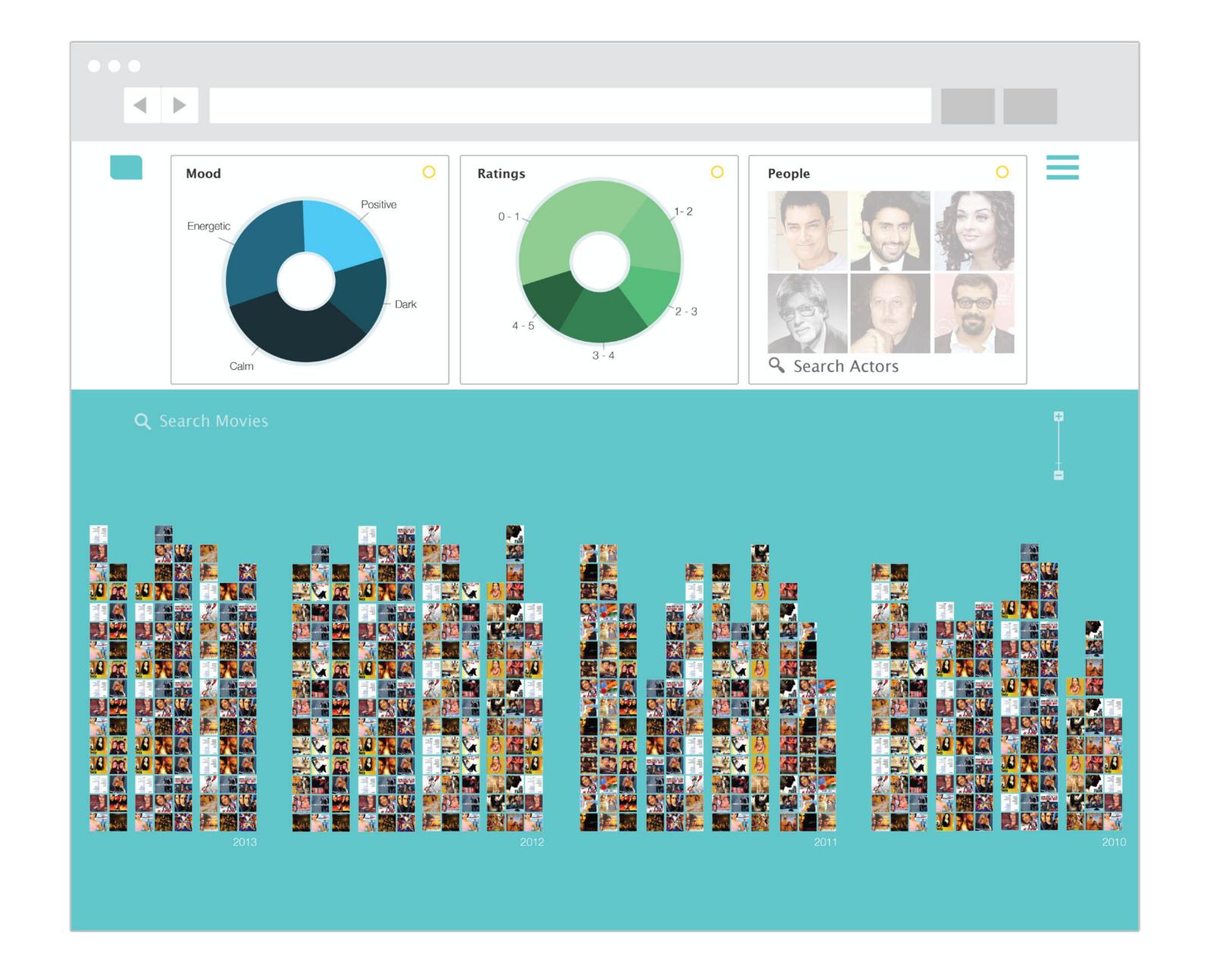
Story Cinematography Budget

Writer Based on Gross

When available, available in USD

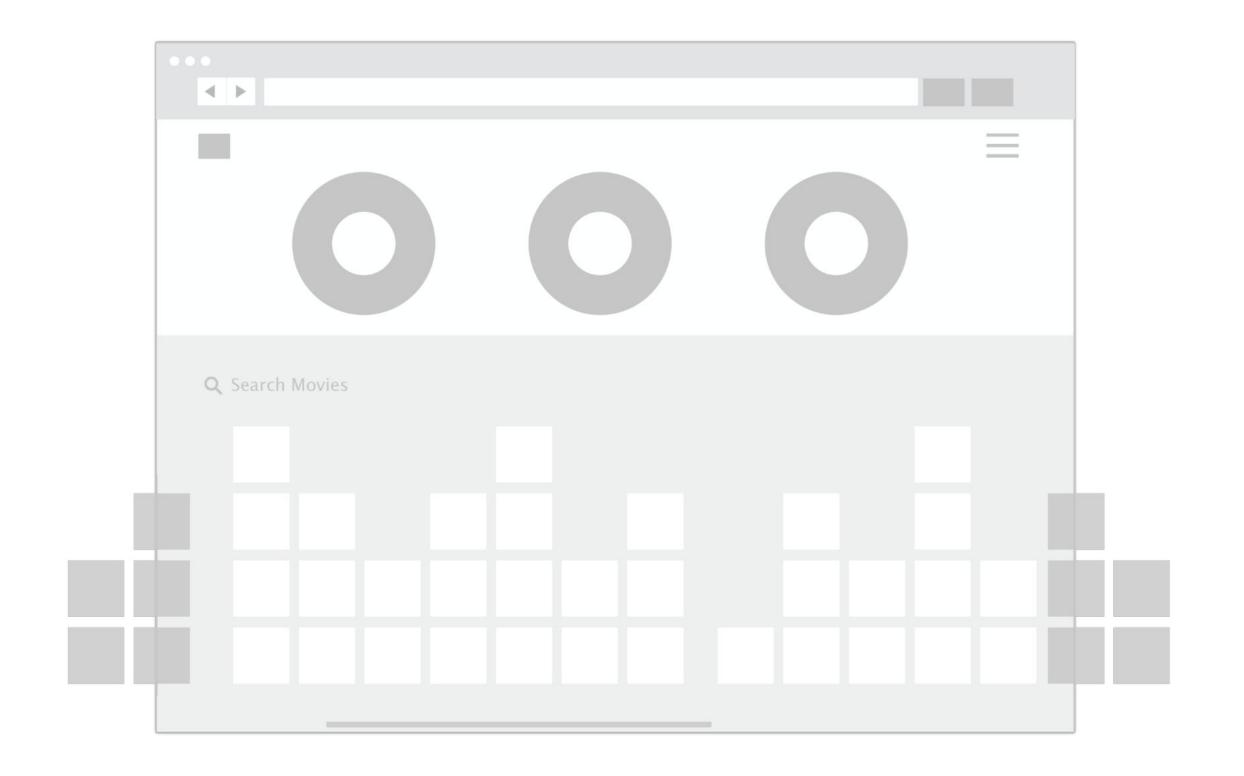
Changes from the feedbacks

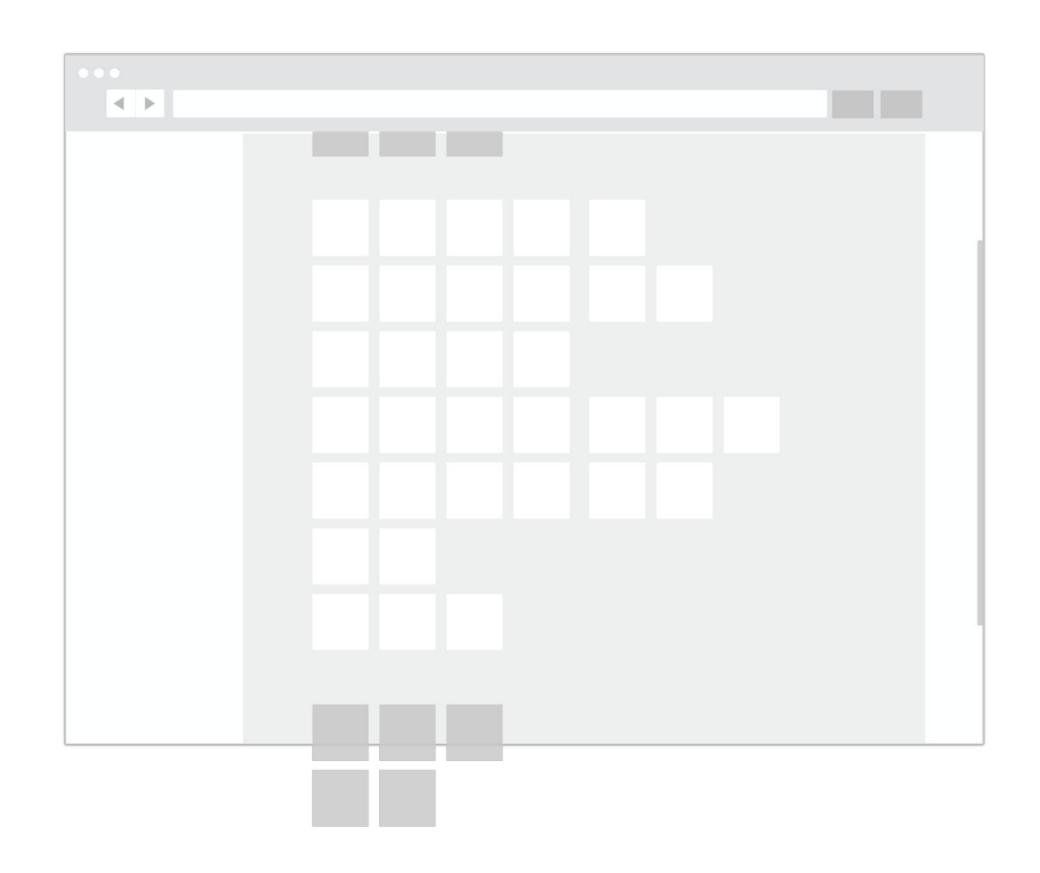
1. Timeline:Left-Right orRight-Left



Jacob Neilson: http://goo.gl/4MGckC

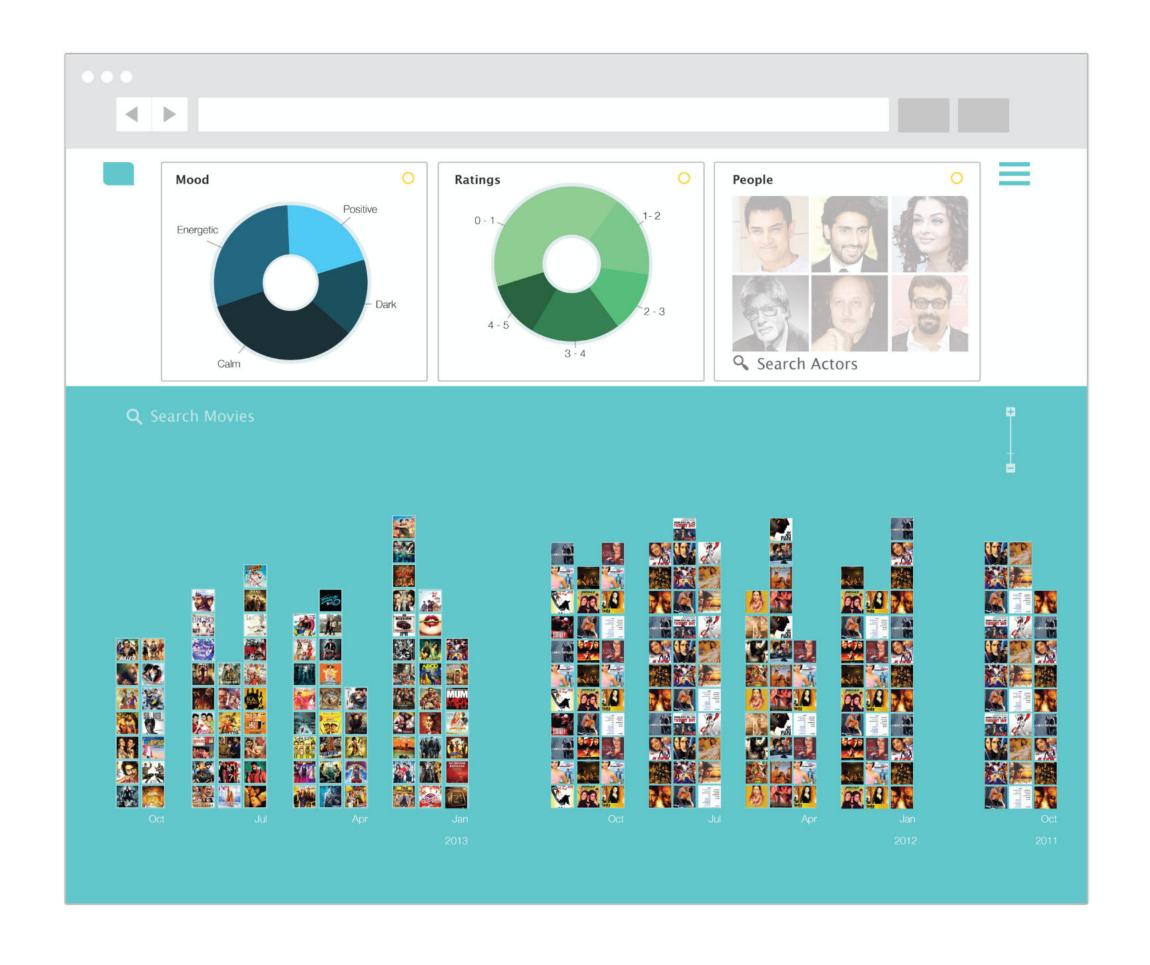
Timeline: Vertical Scroll

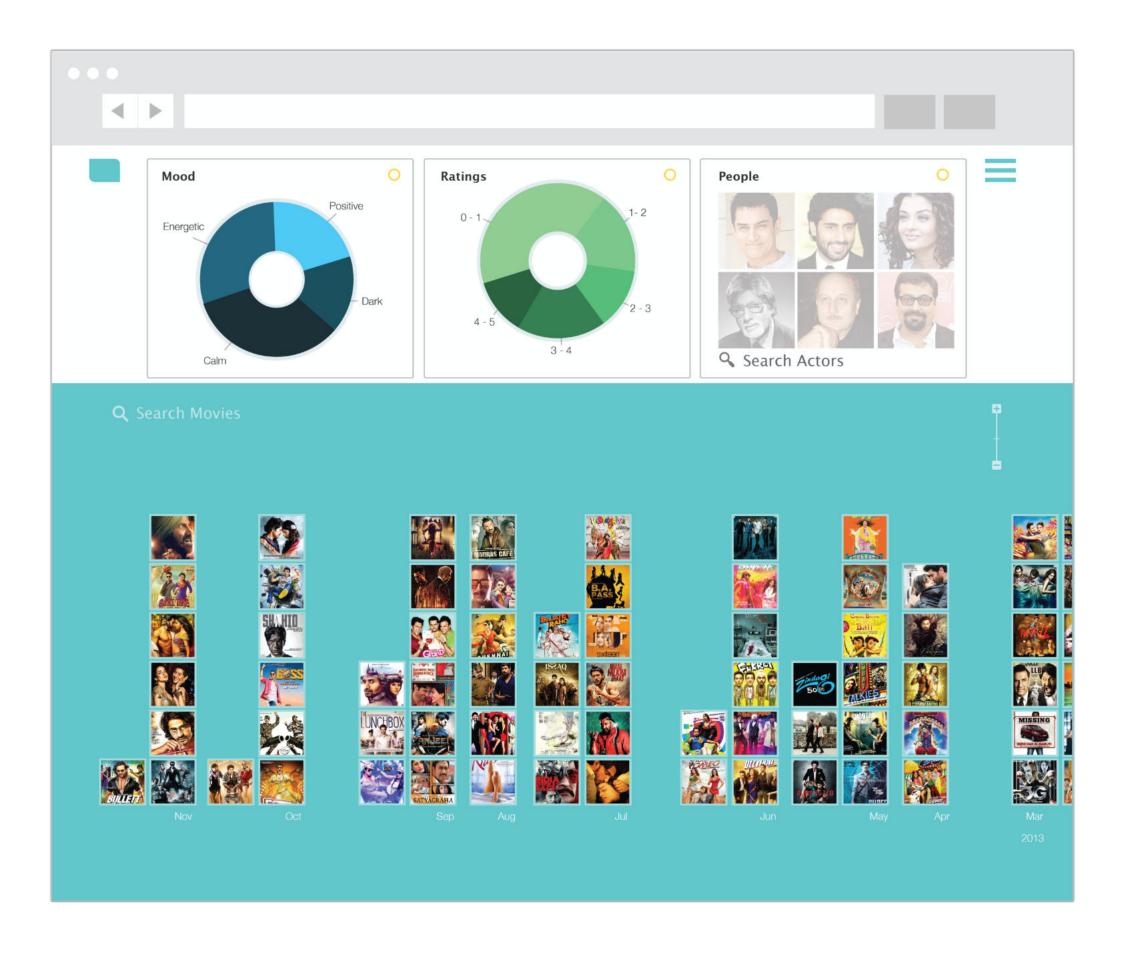




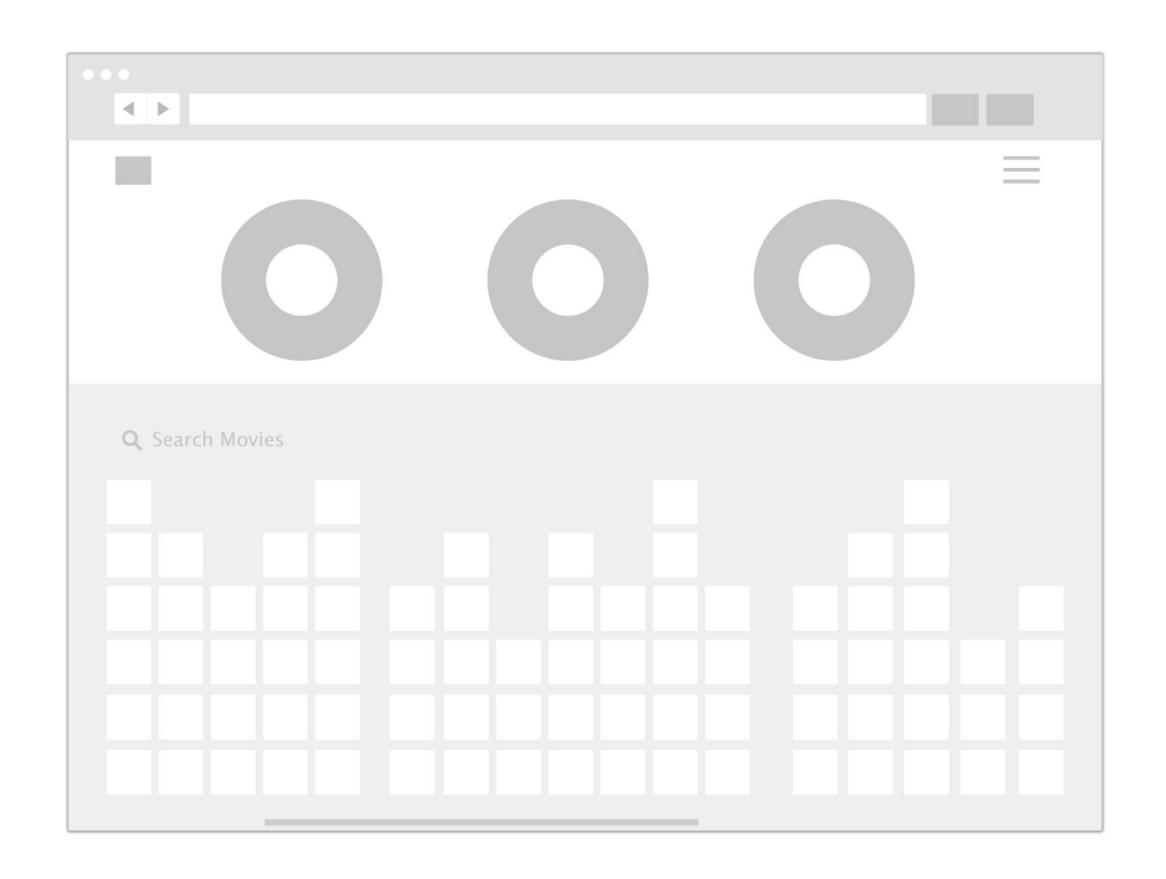
Reverse Chronological order

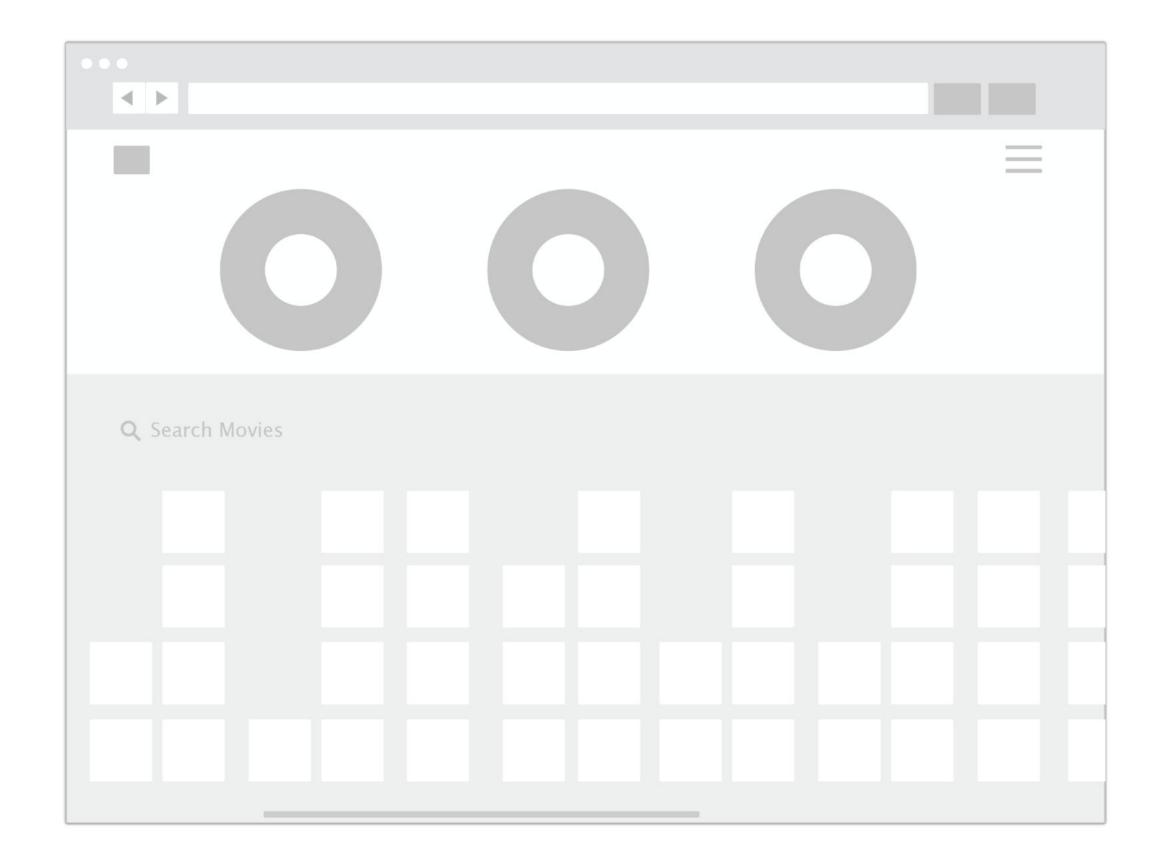
2. Visualization height



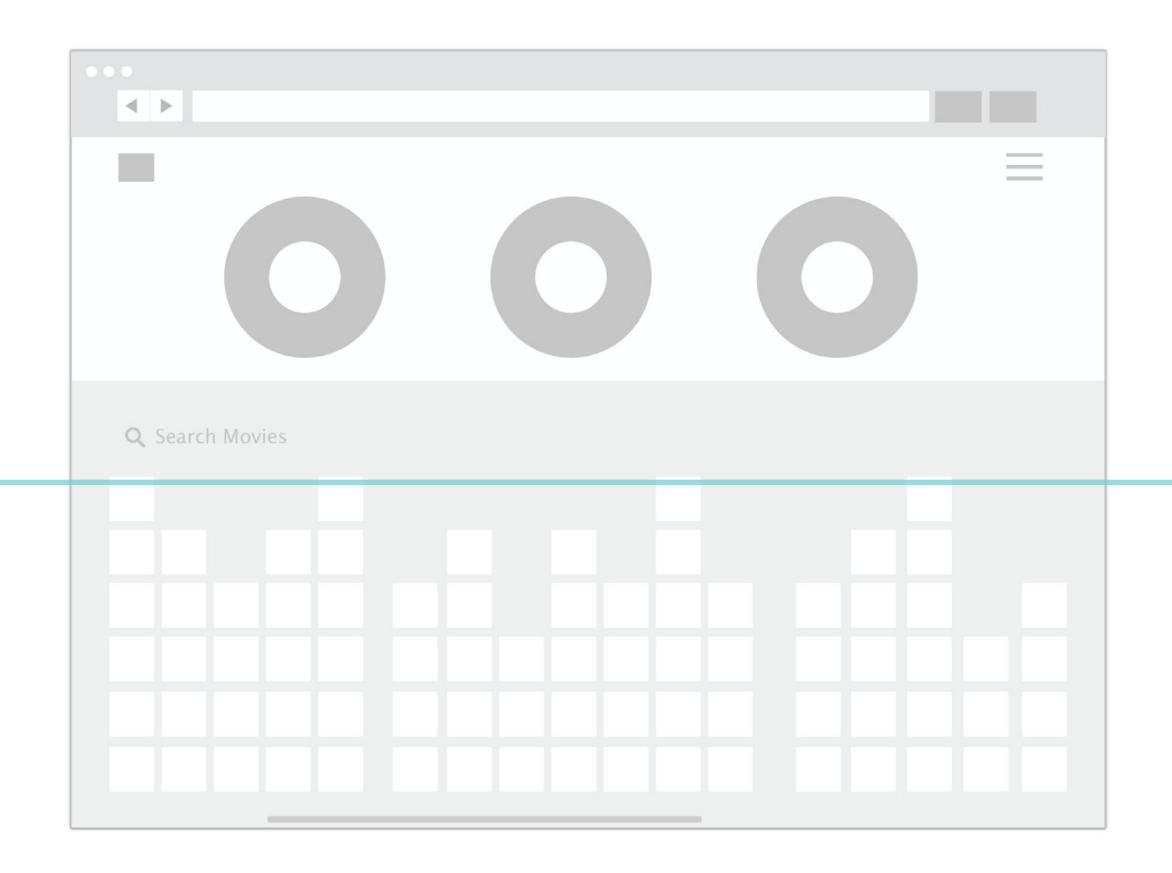


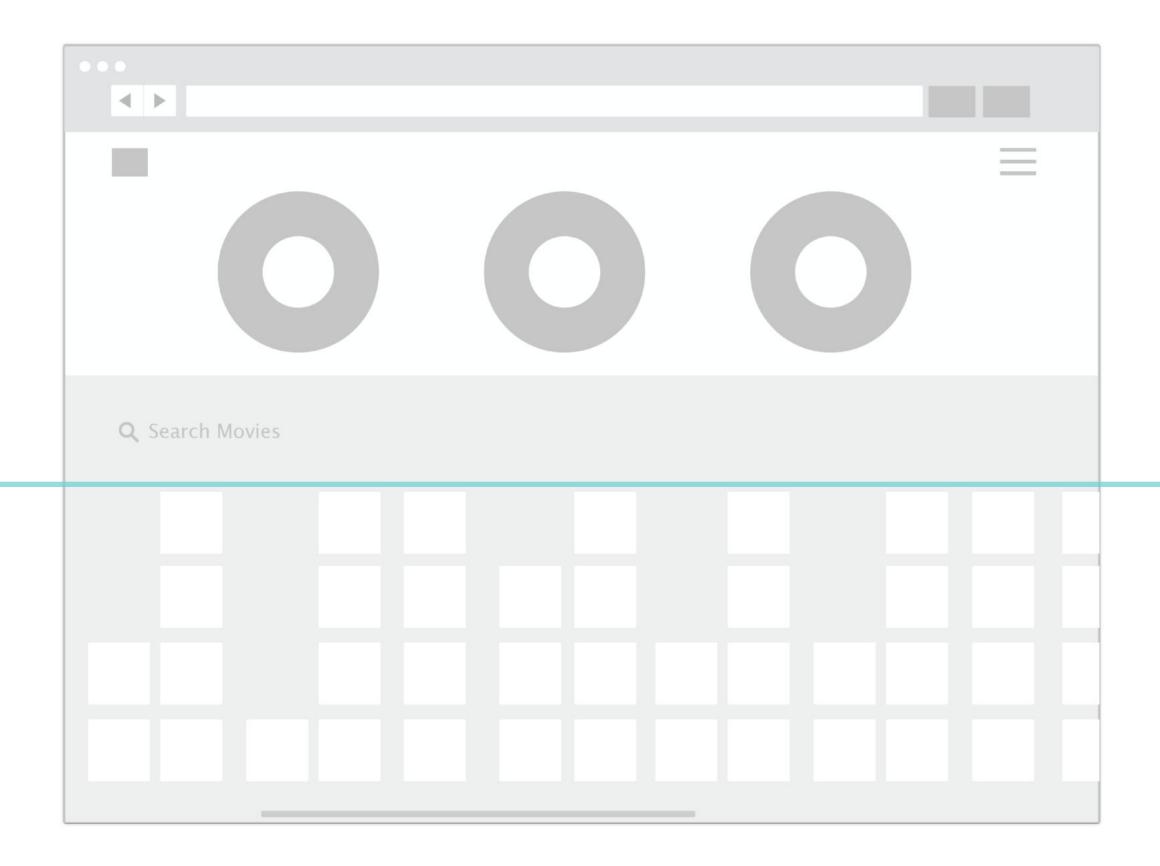
Month View





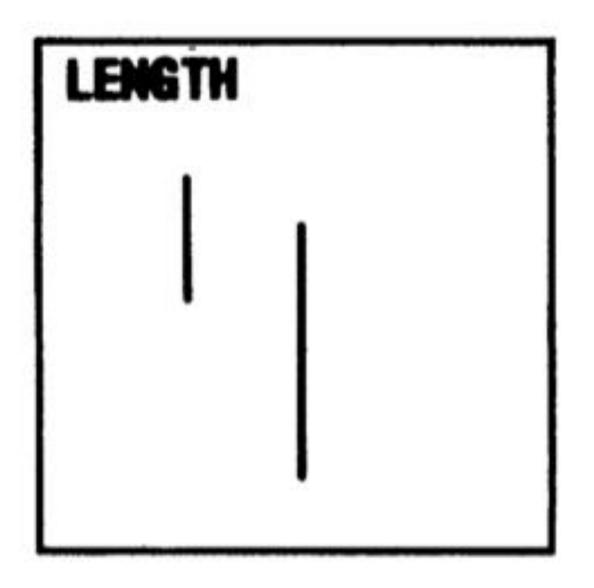
Month View

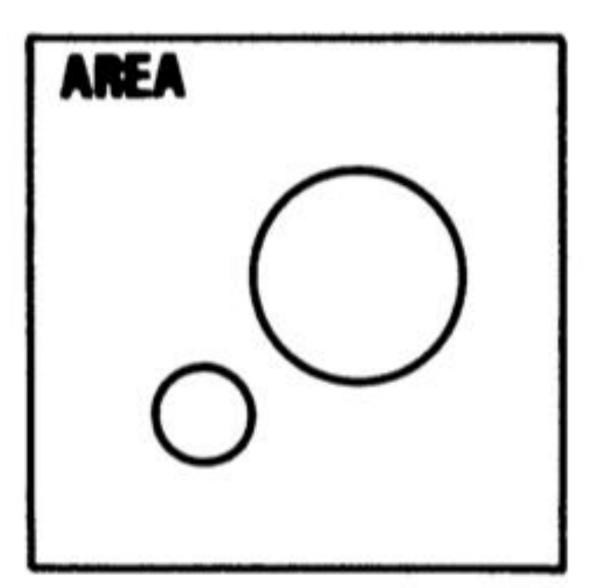




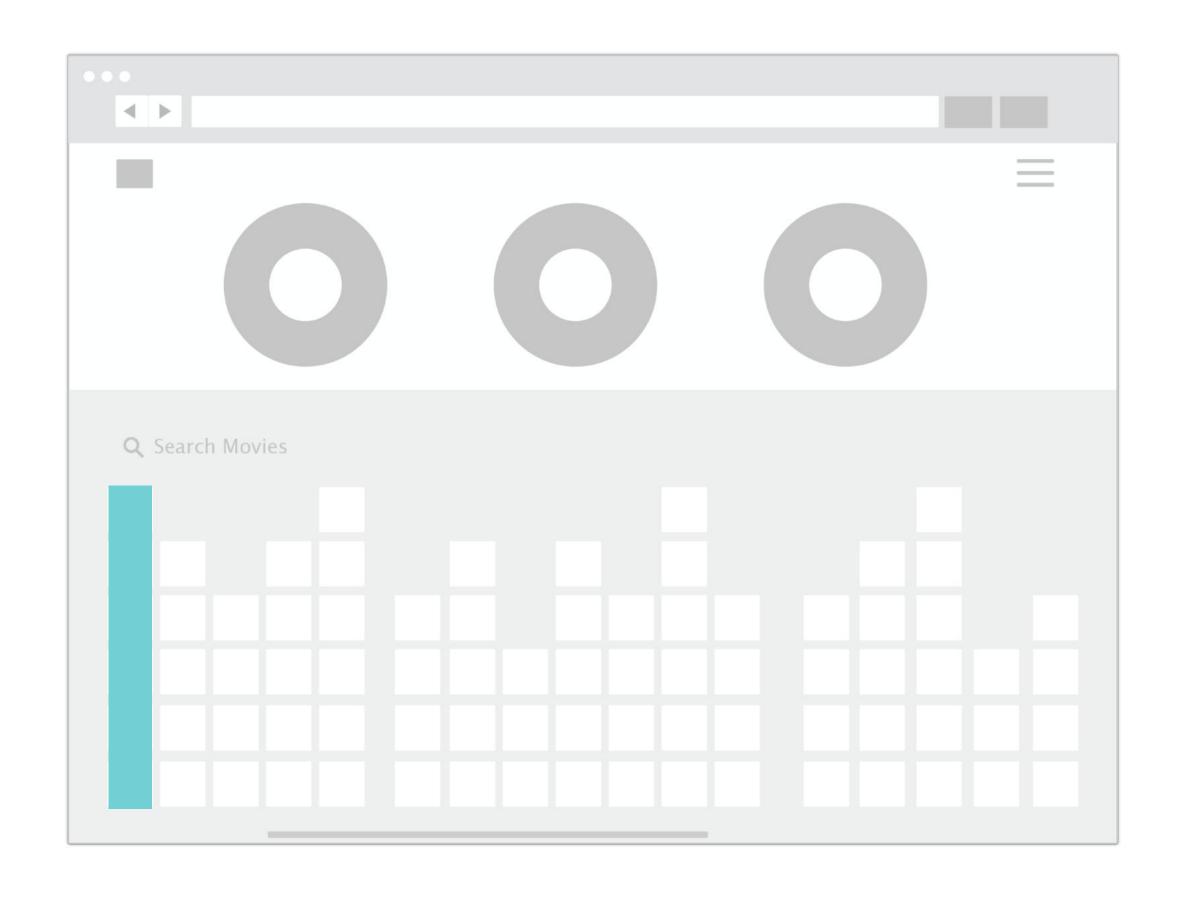
Month View

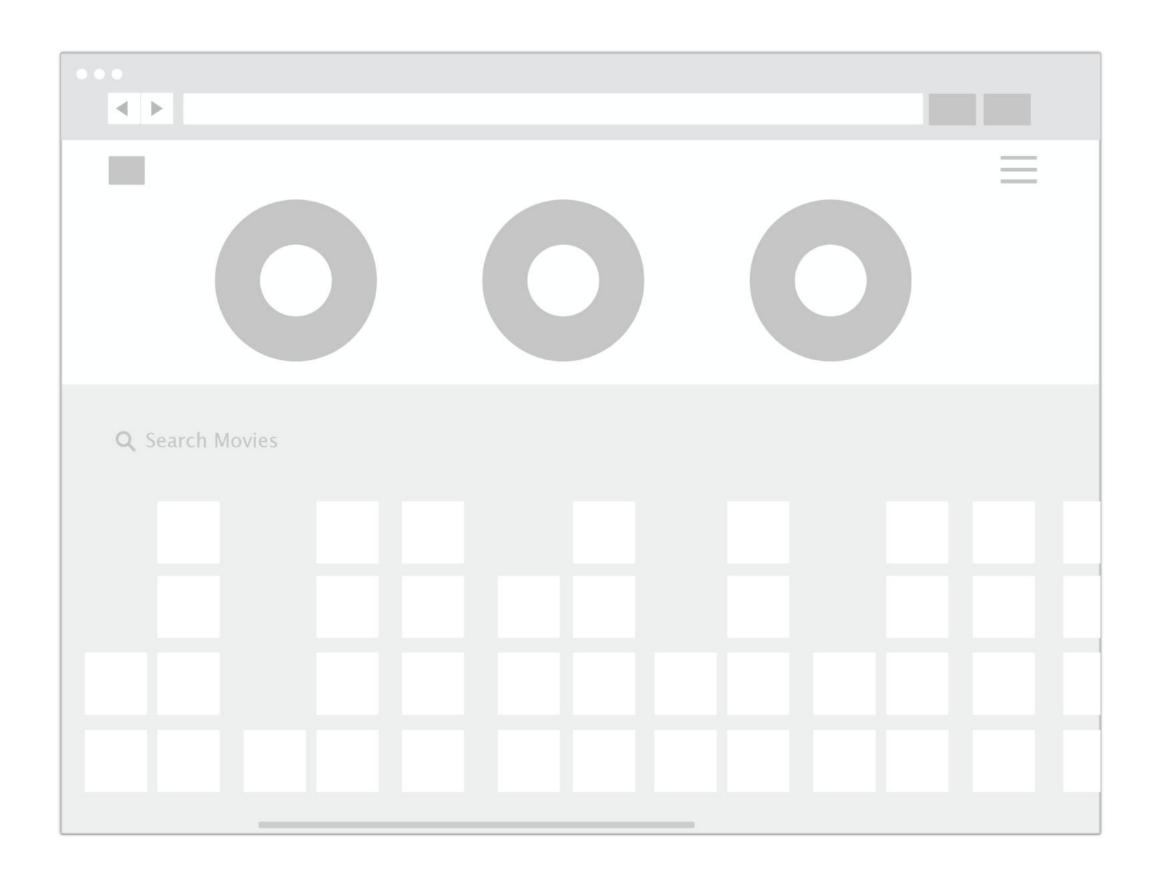
Visualization height



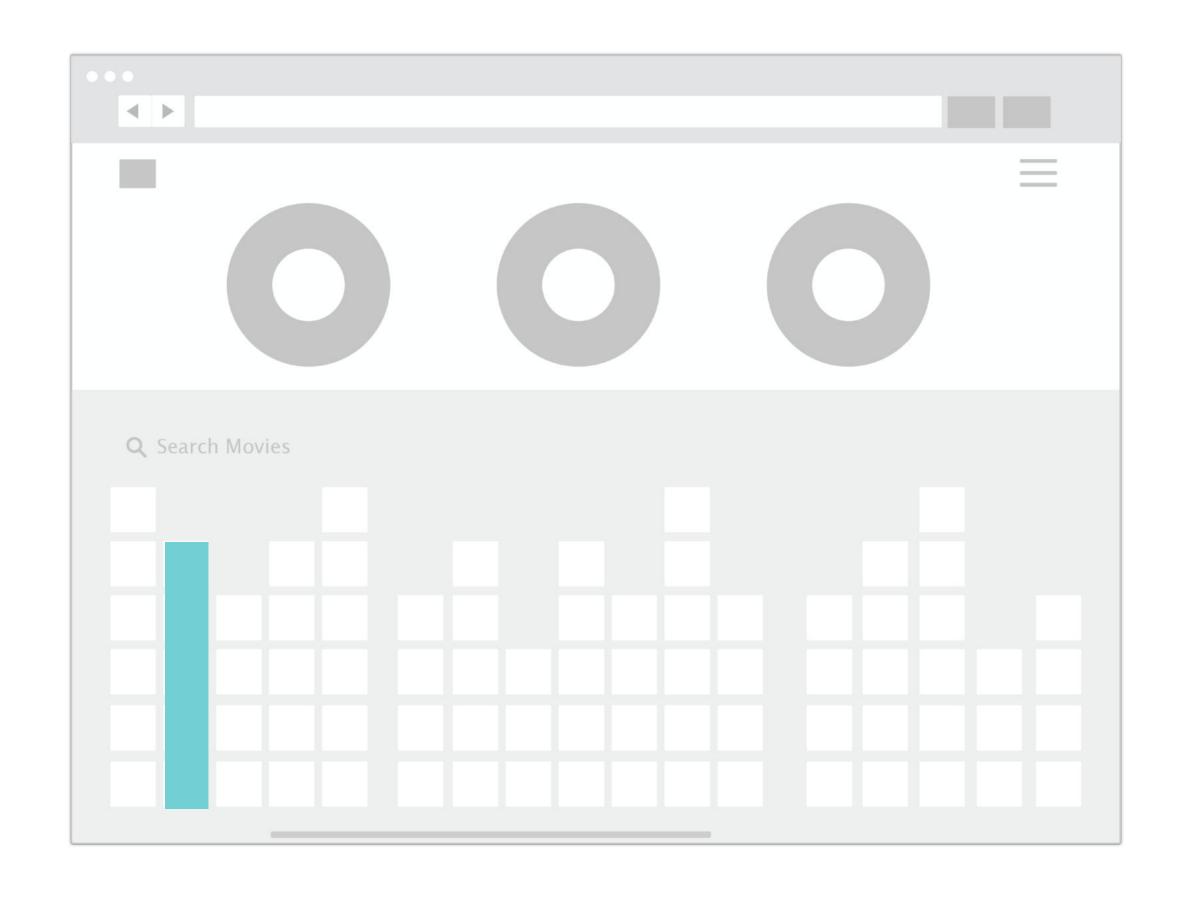


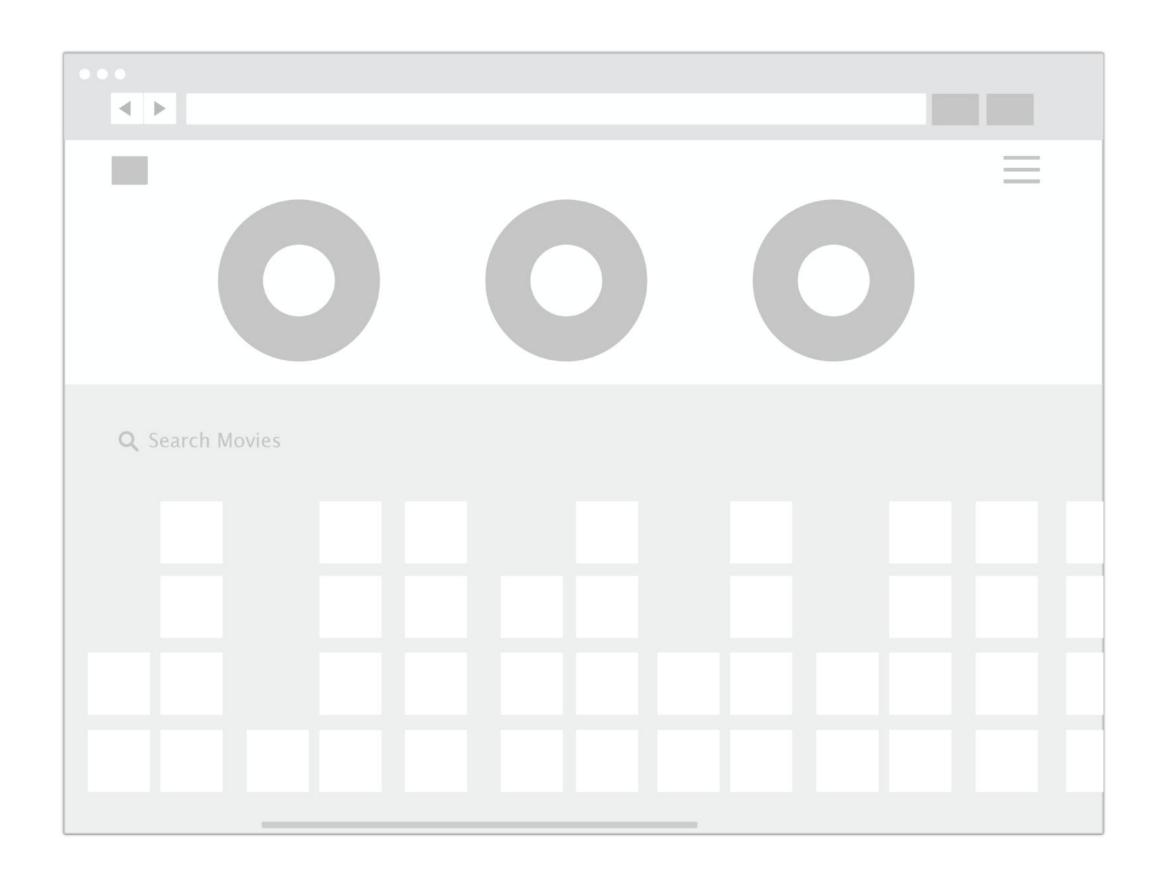
William S. Cleveland and Robert McGill: Graphical Perception: Theory, Experimentation, and Application to the Development of Graphical Methods



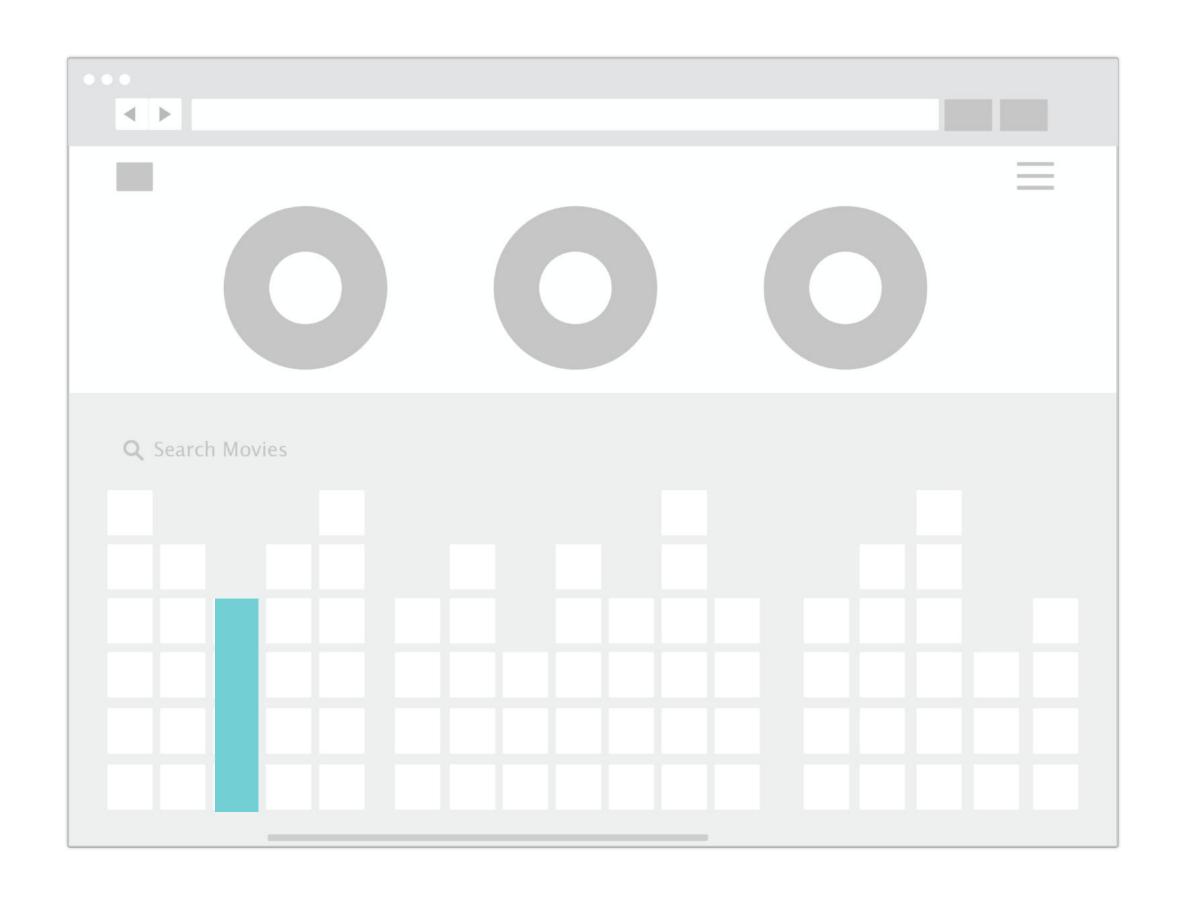


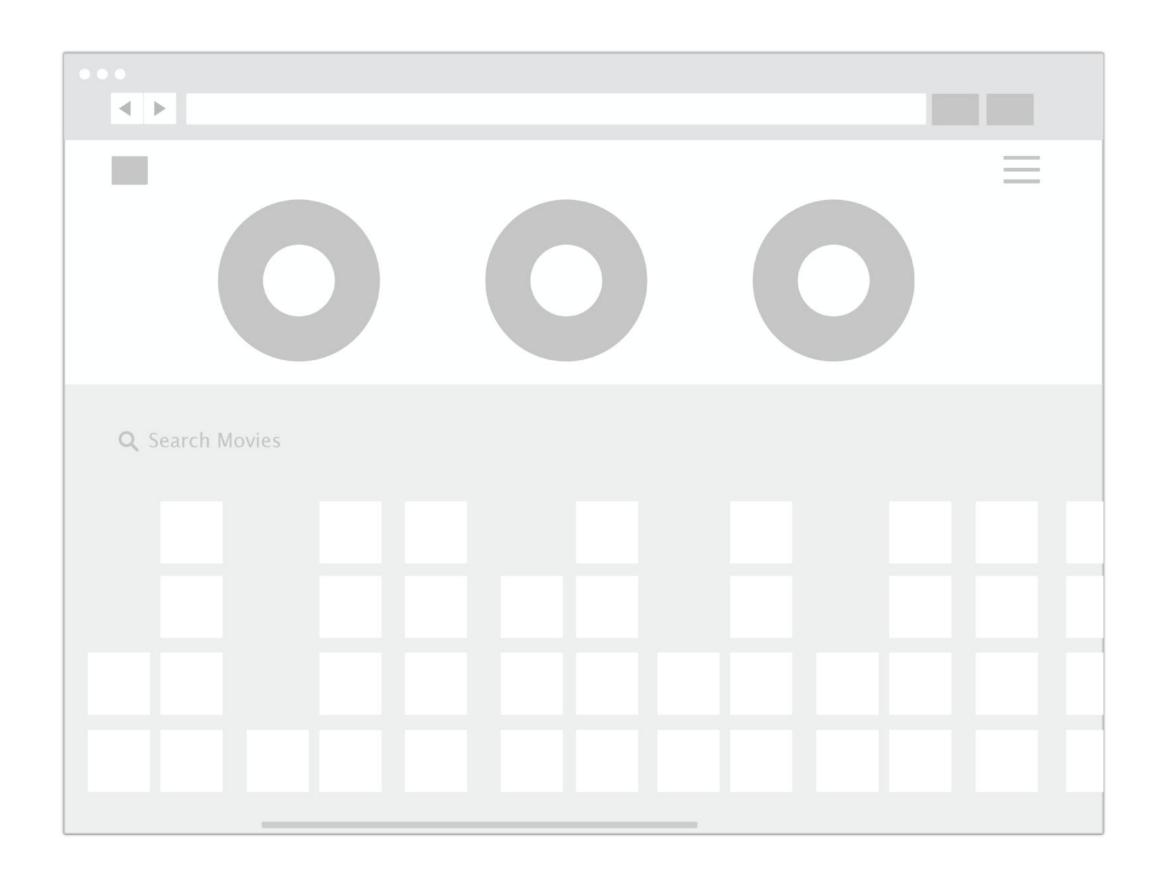
Month View



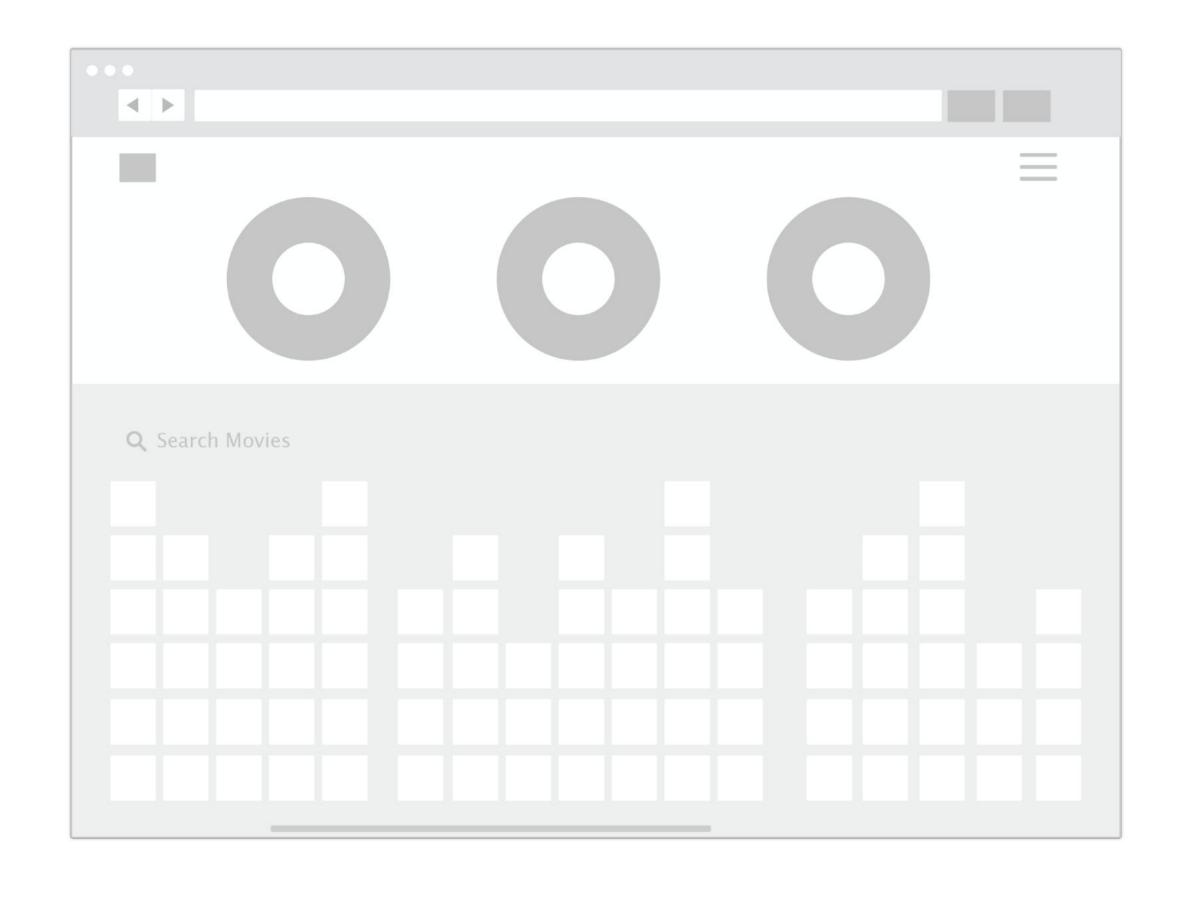


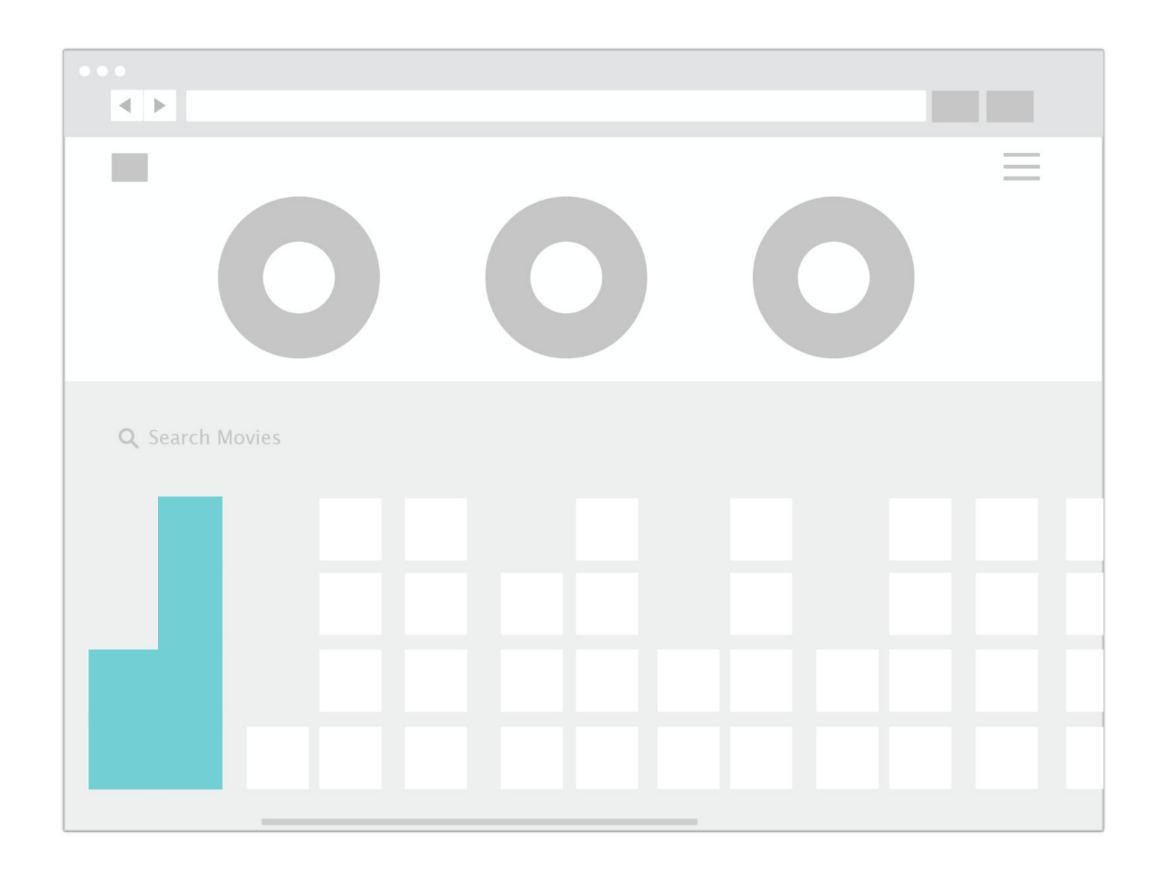
Month View



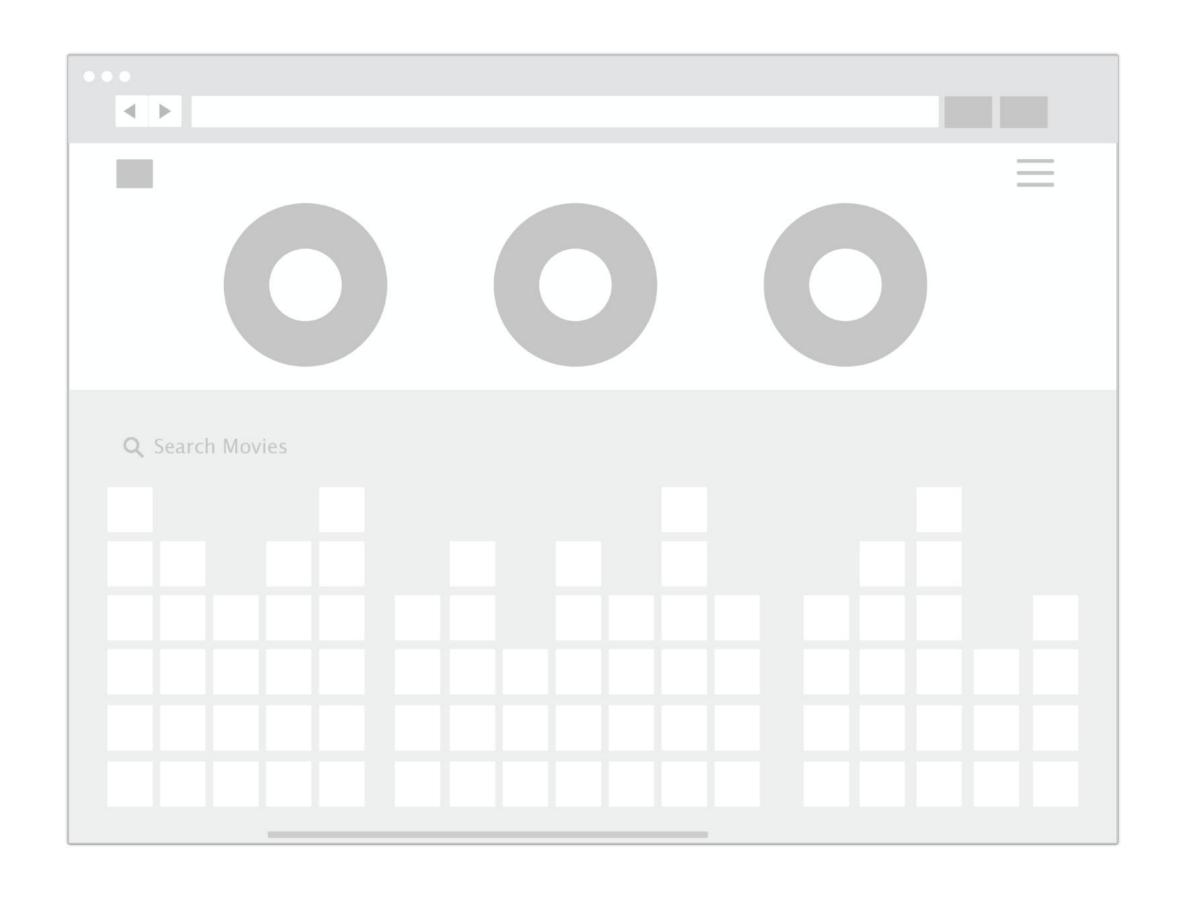


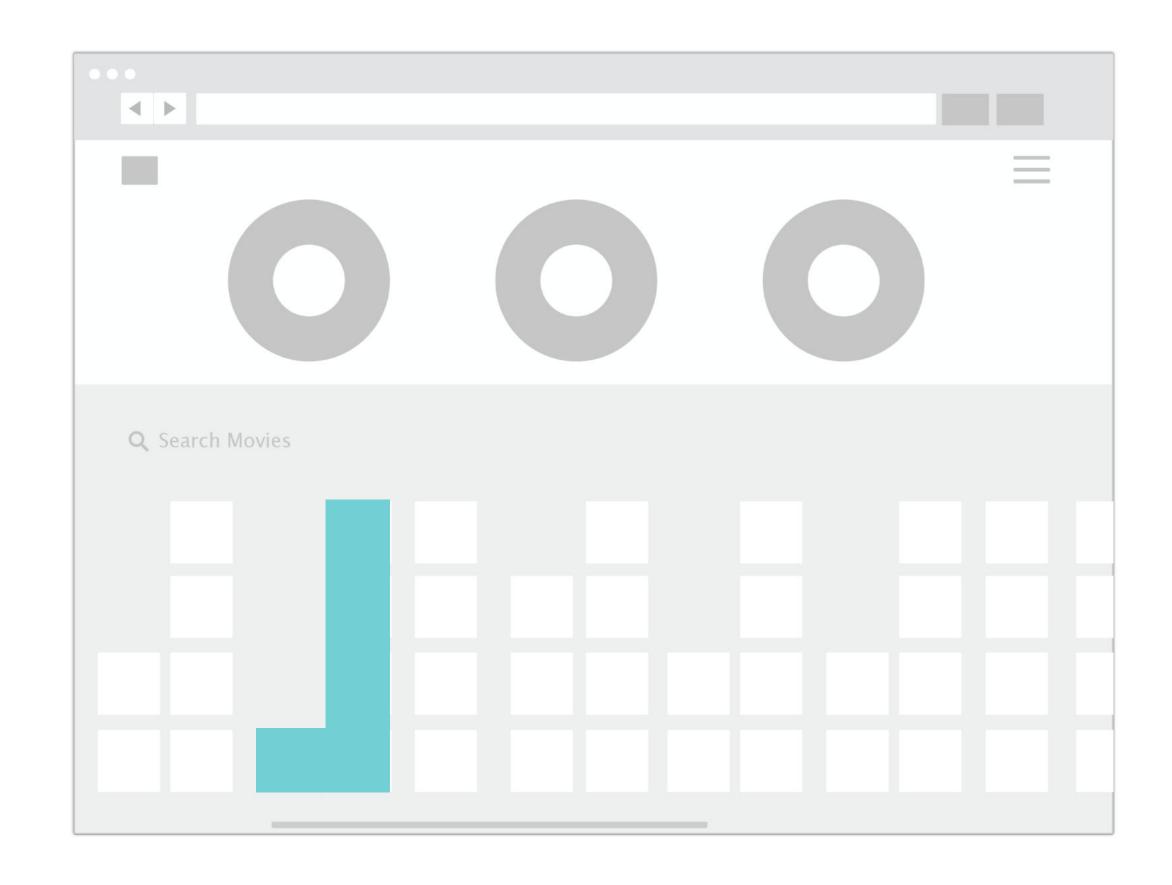
Month View



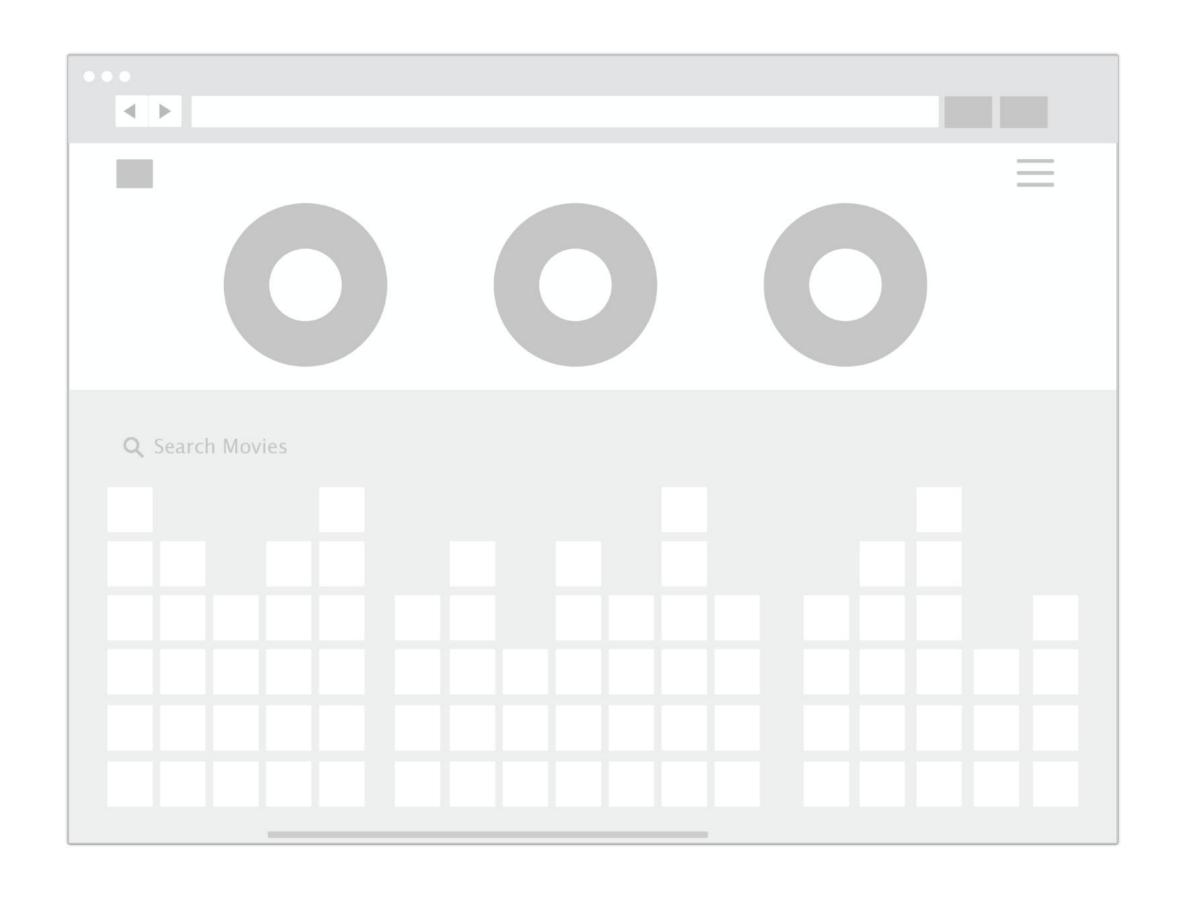


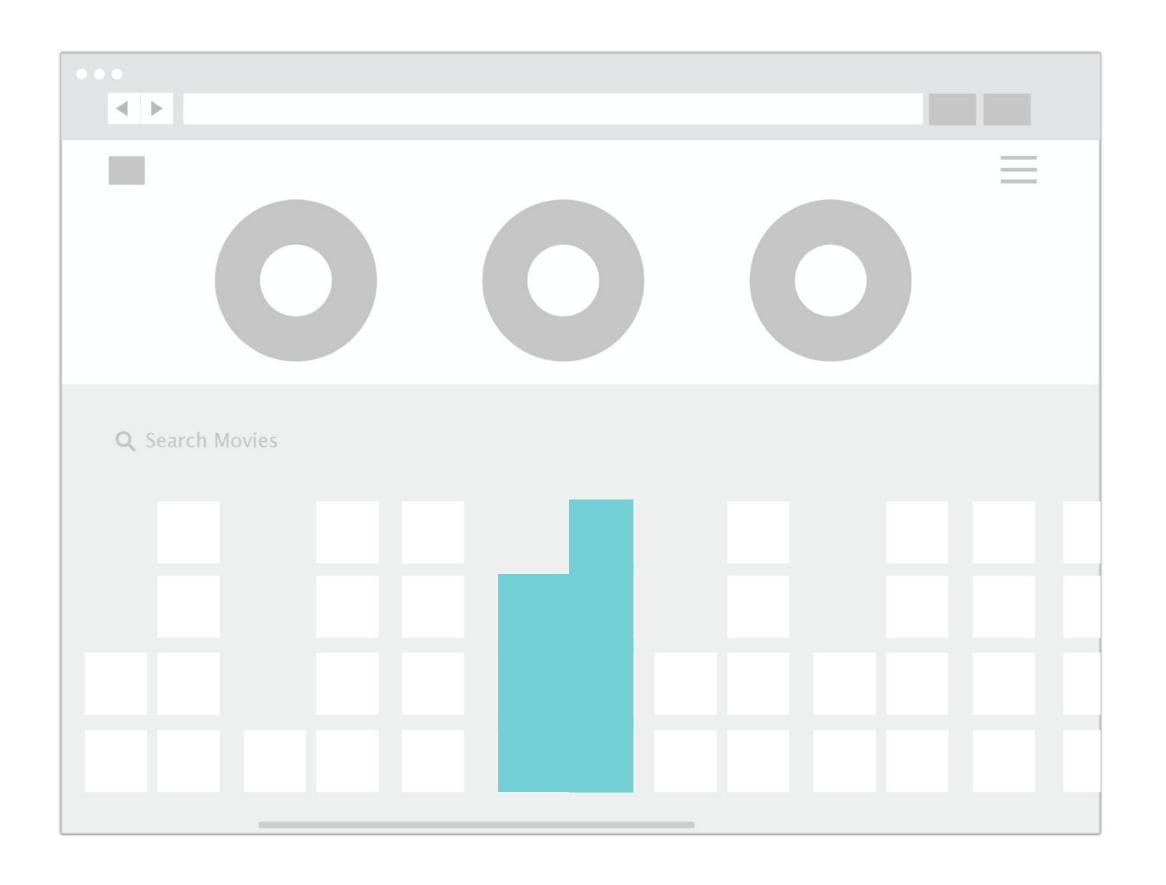
Month View





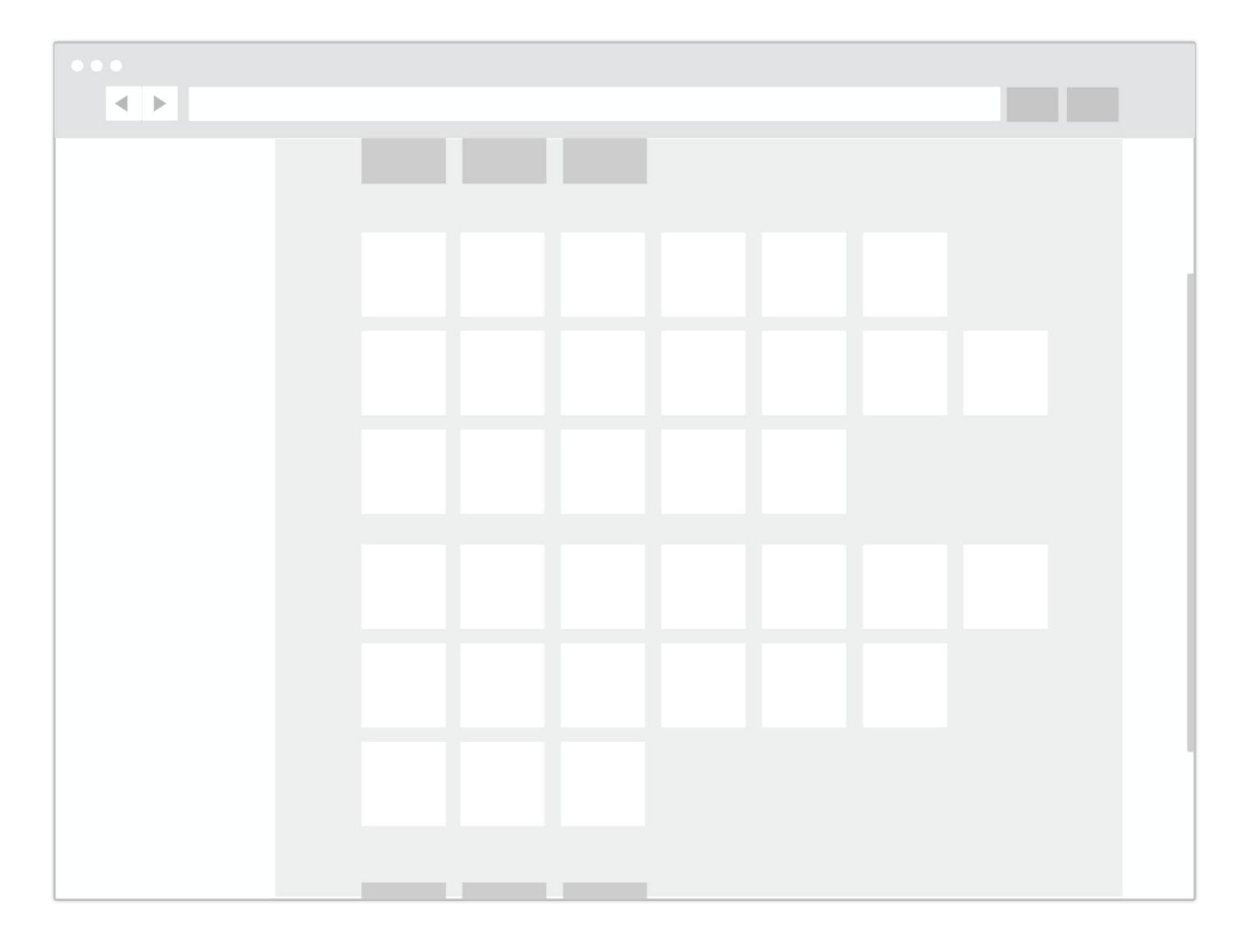
Month View



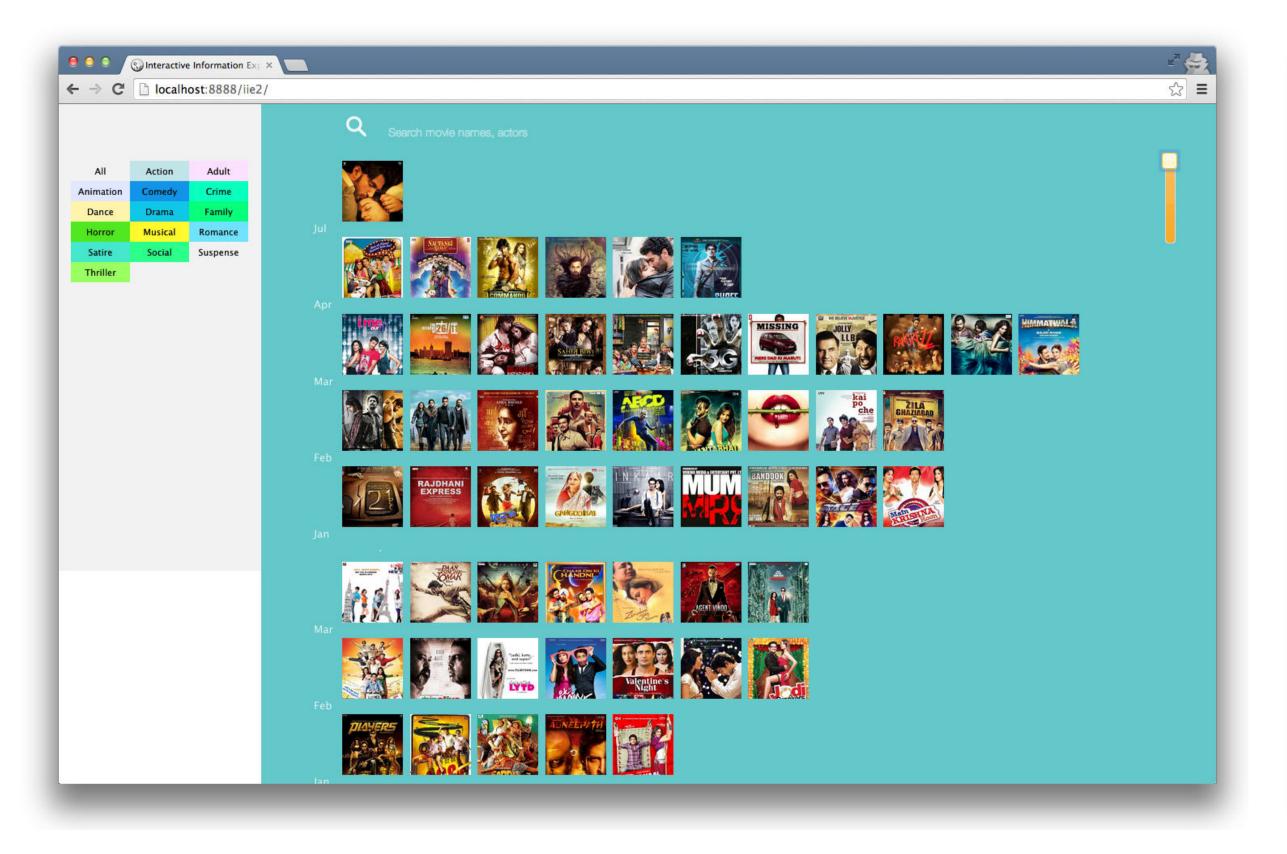


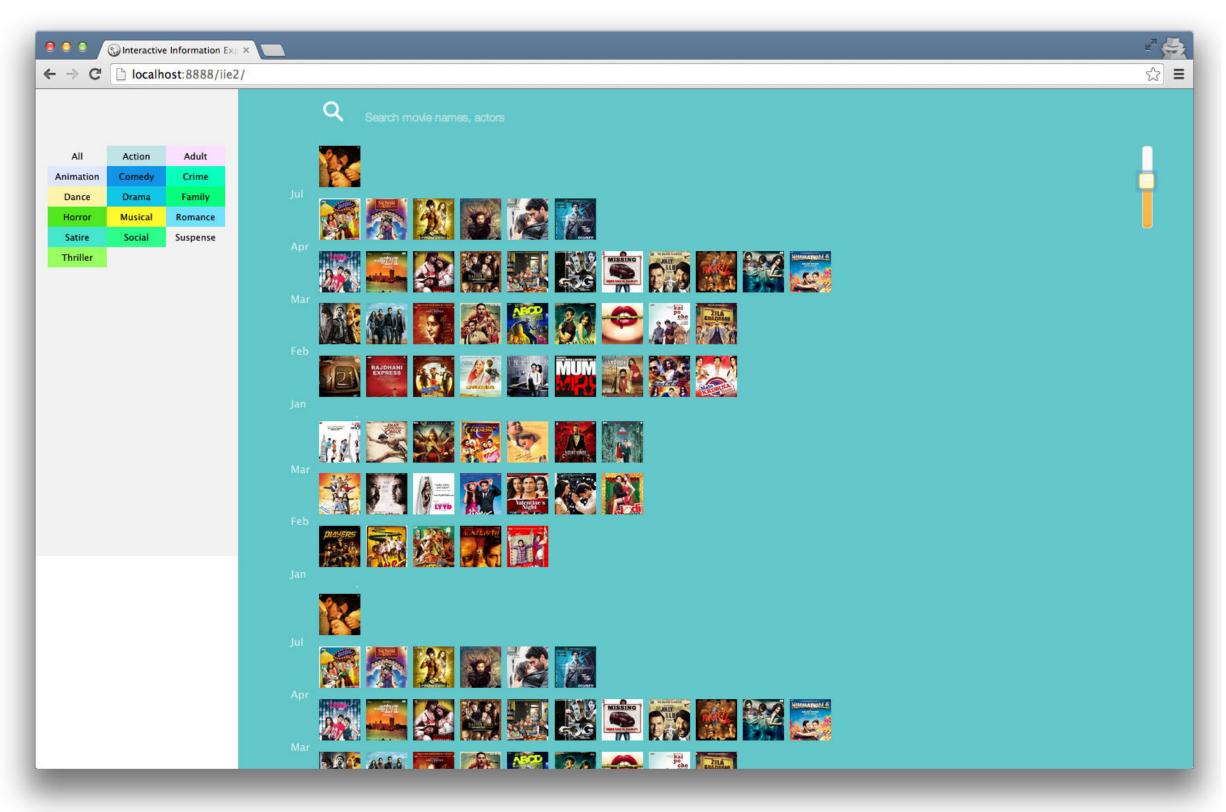
Month View

Timeline: Fixed max width

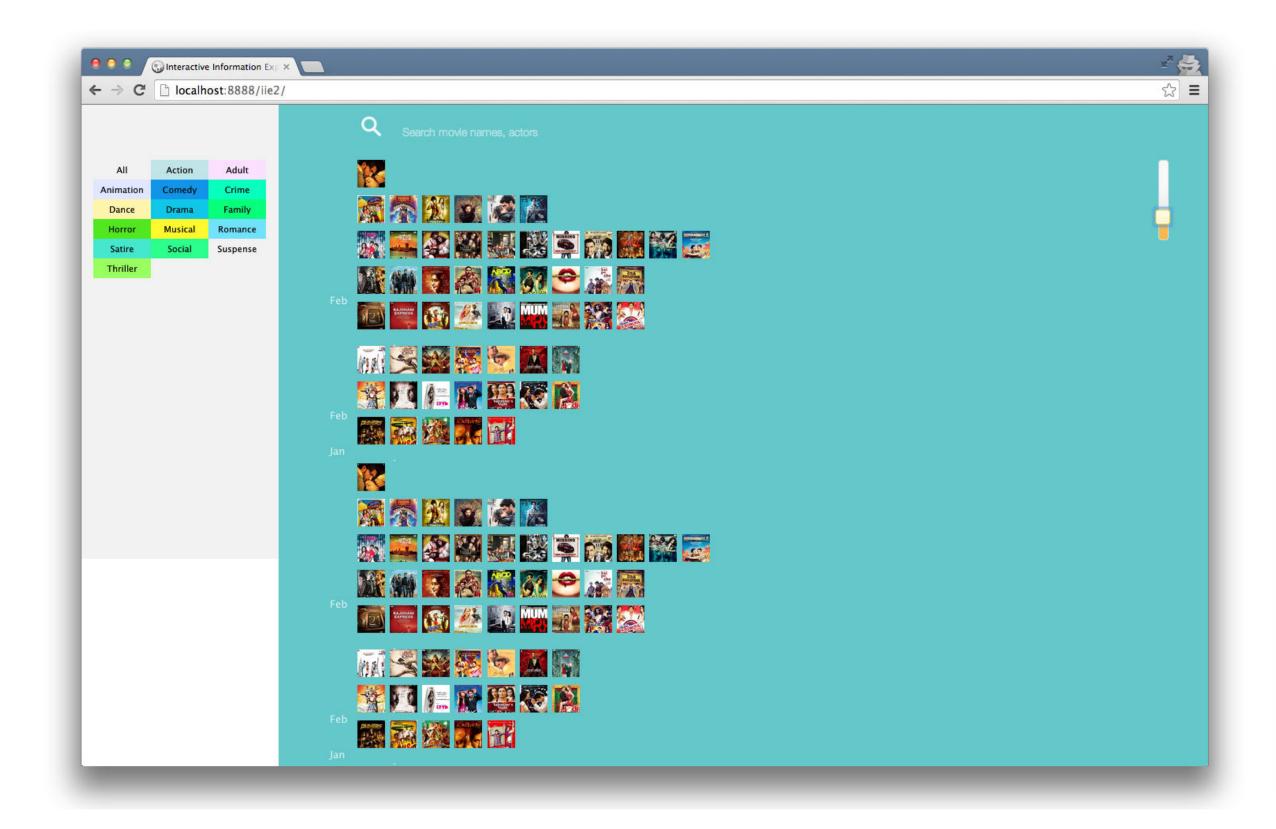


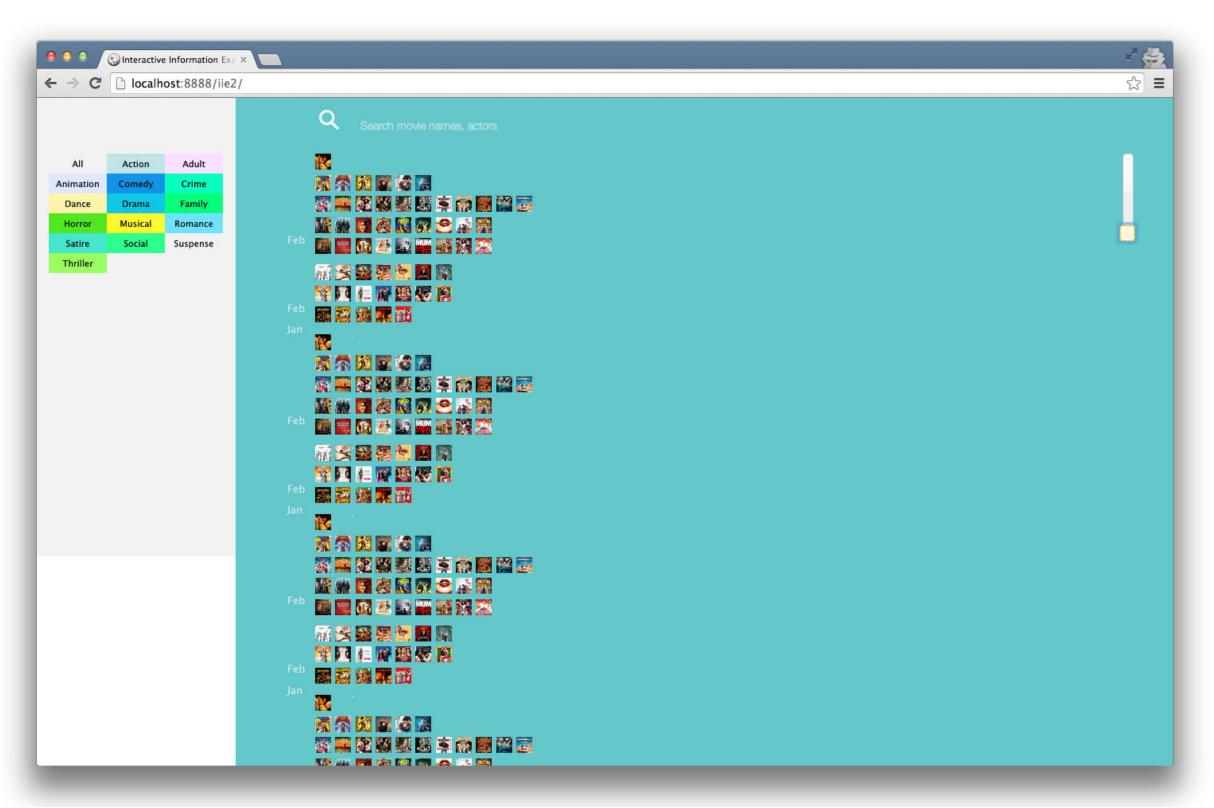
User Test | Thumbnail width



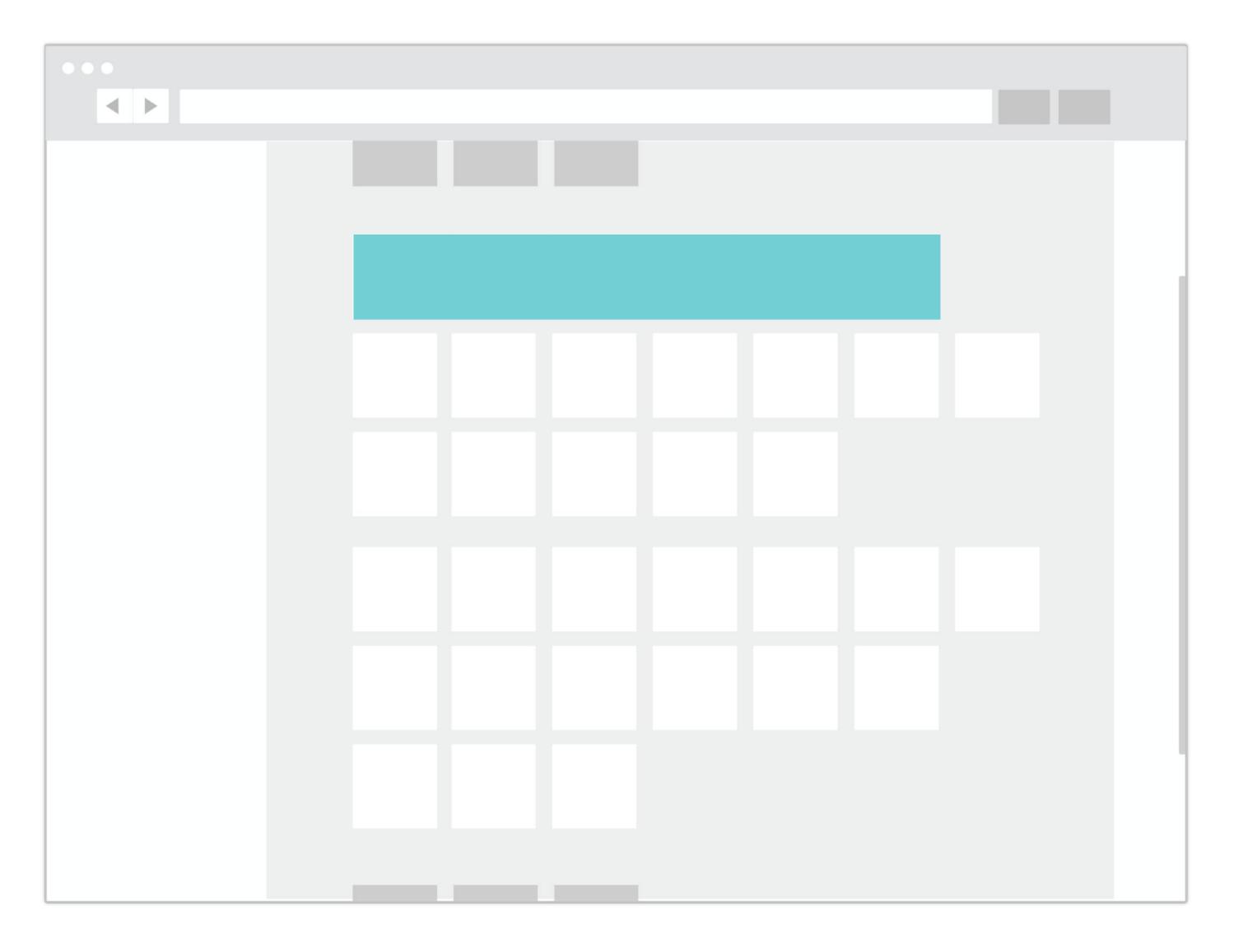


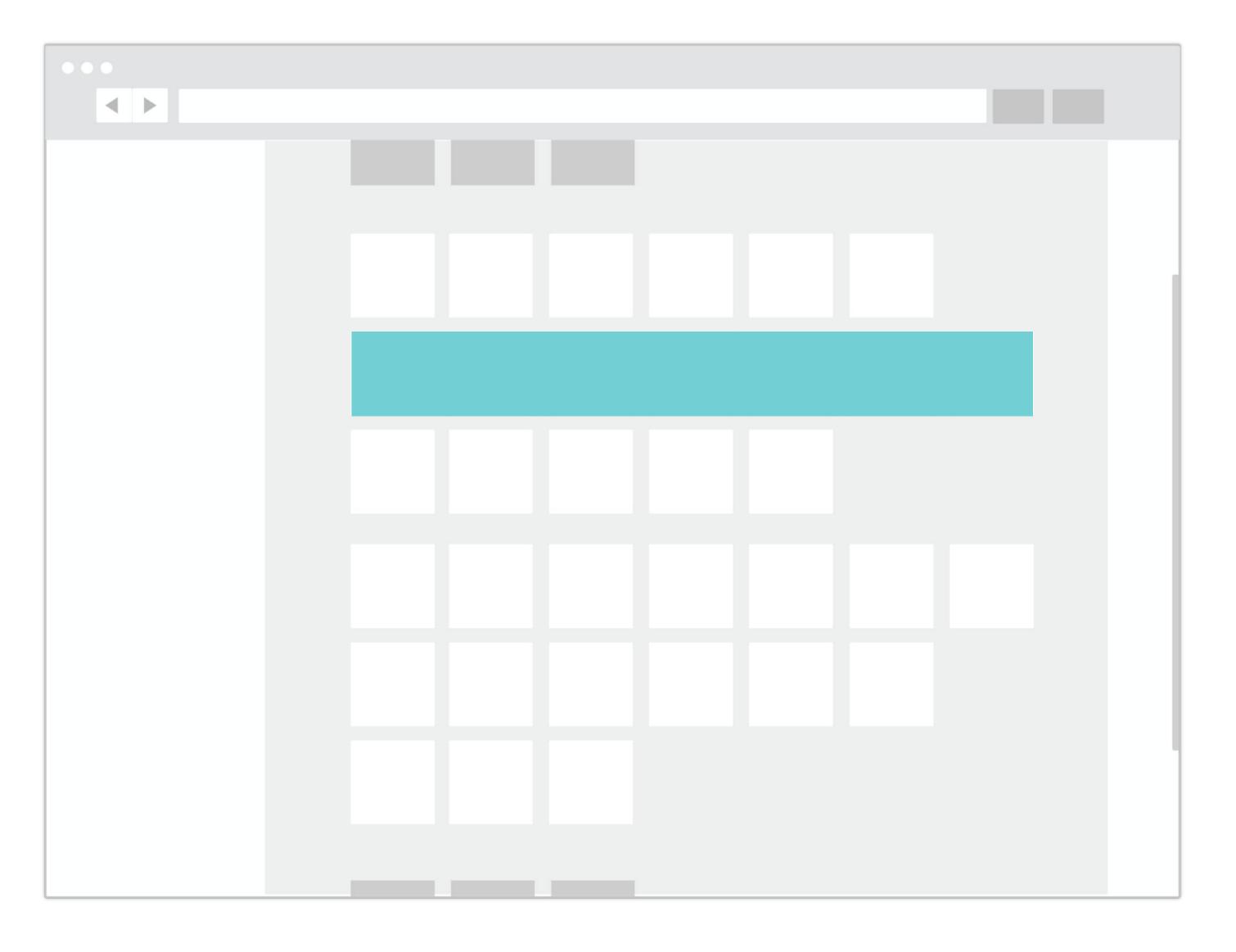
User Test | Thumbnail width

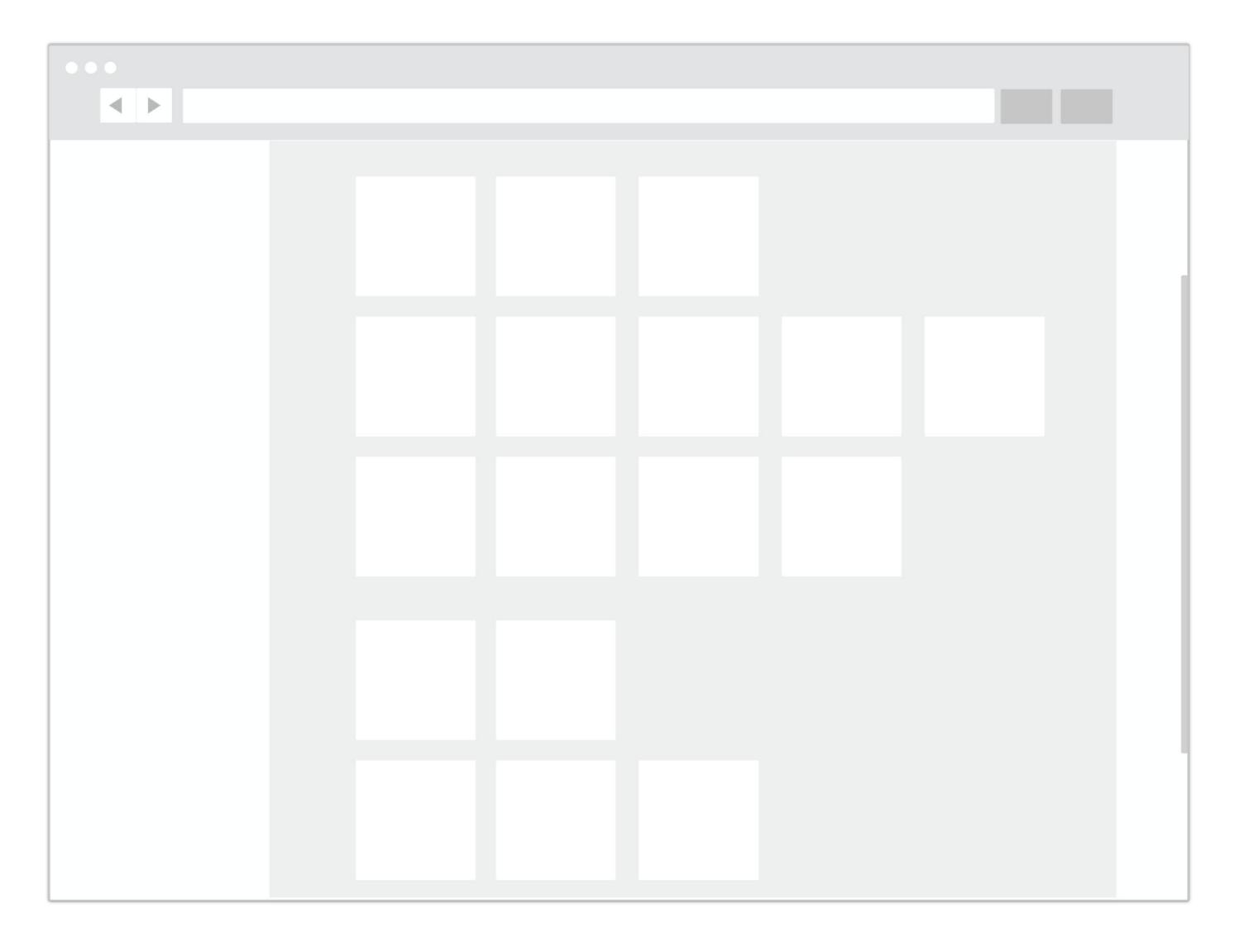


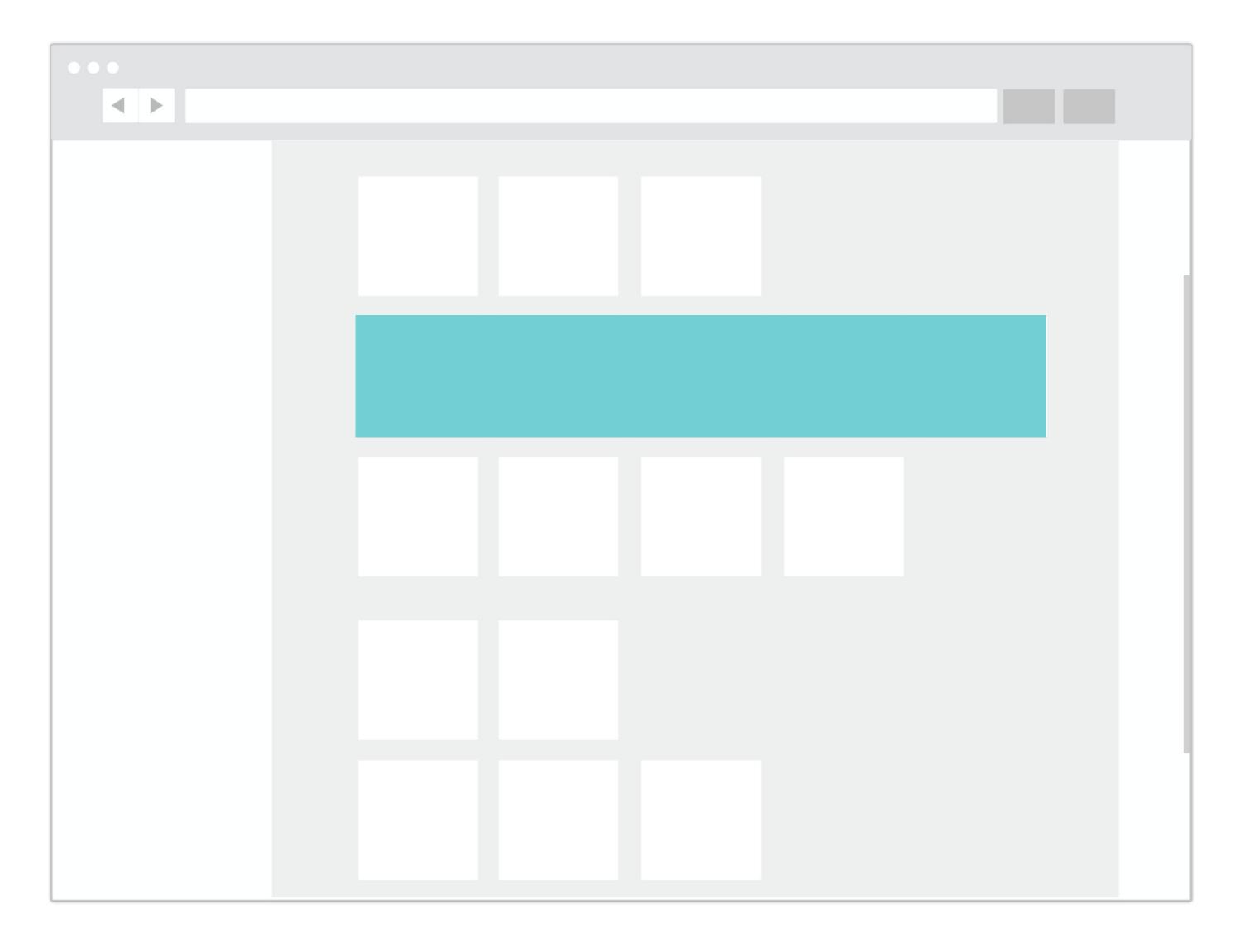


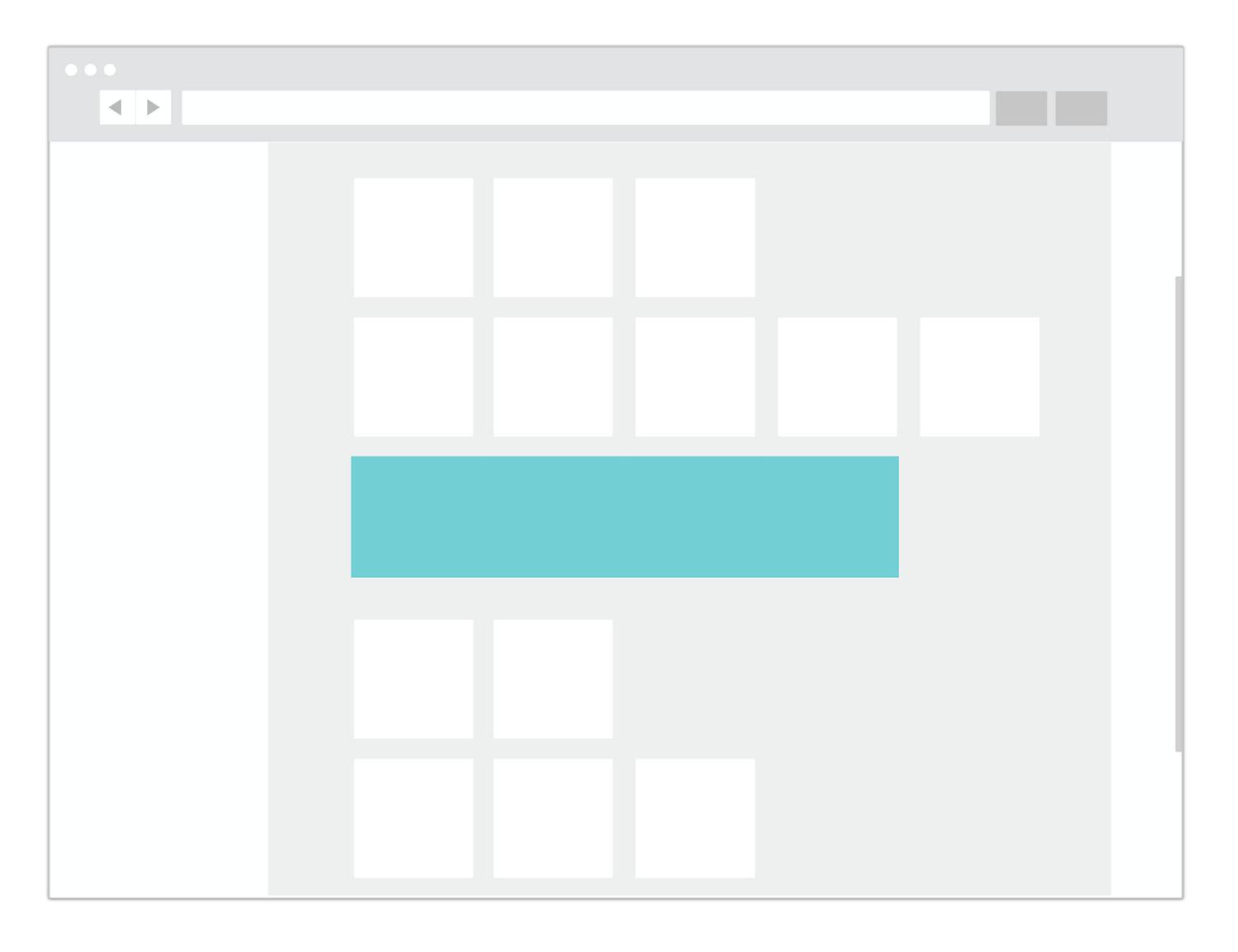
Thumbnail width 54px ± 7



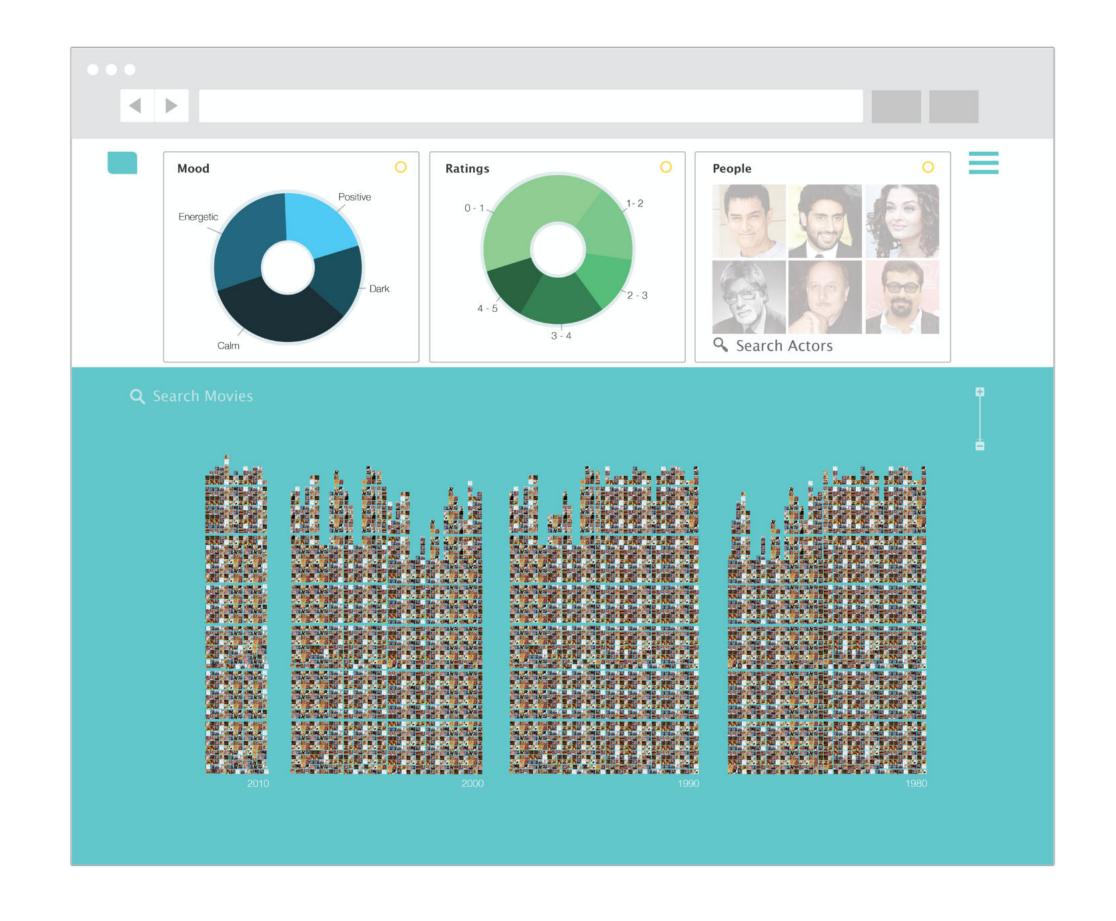


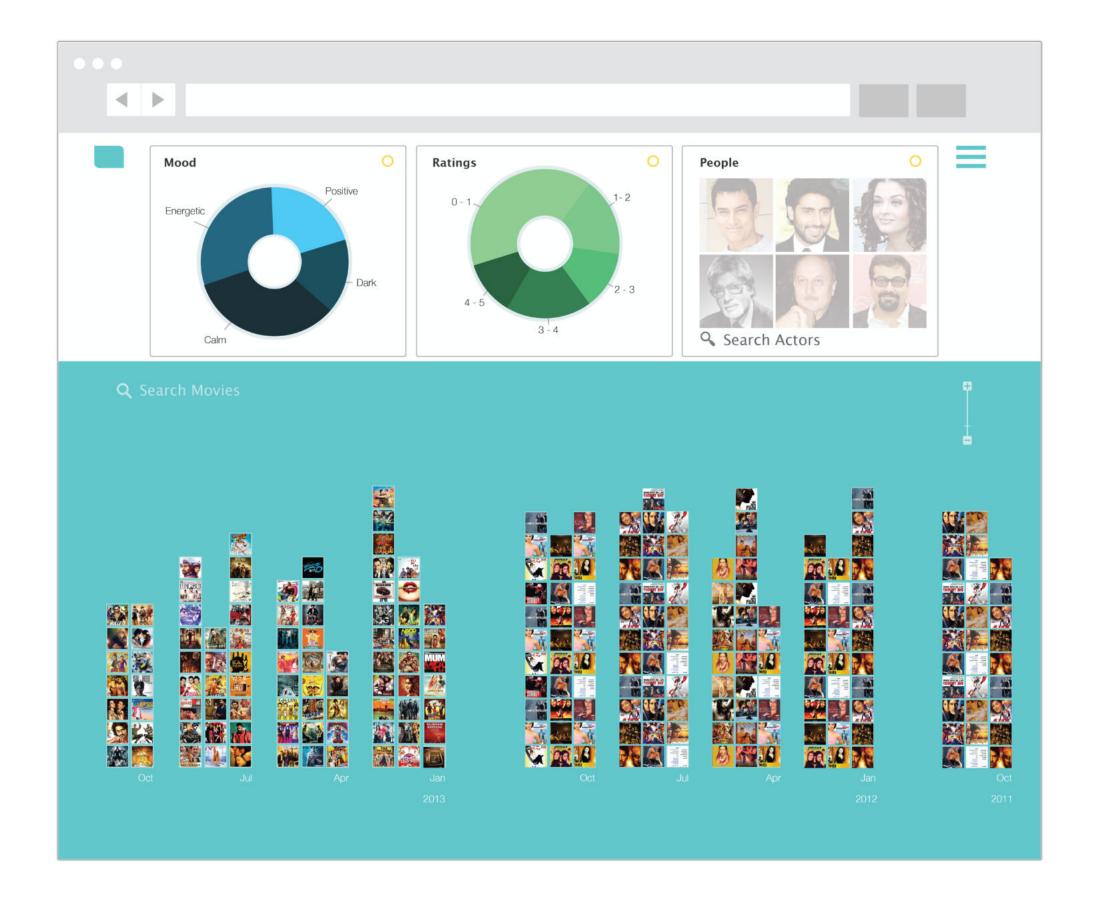




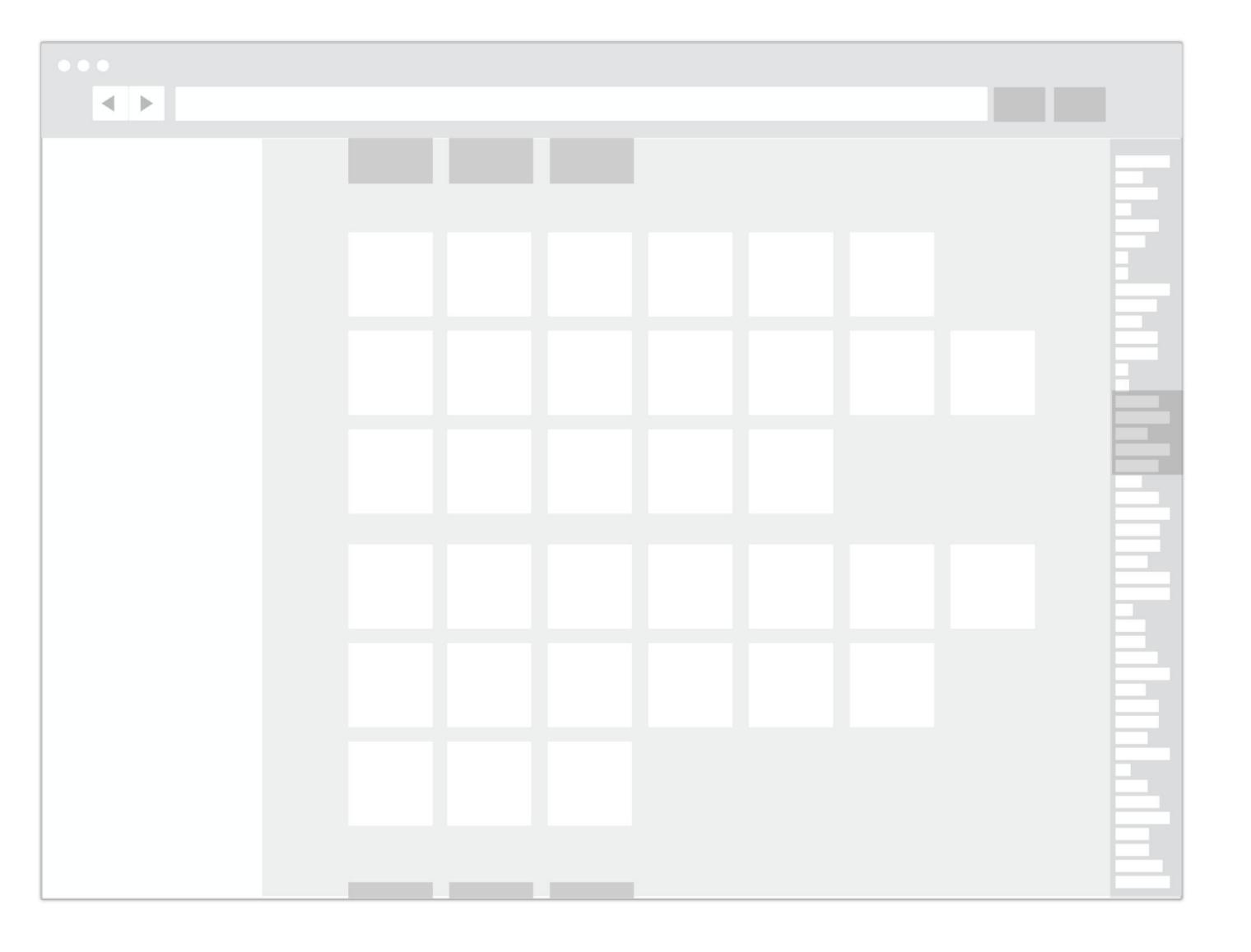


3. Zoom Overview

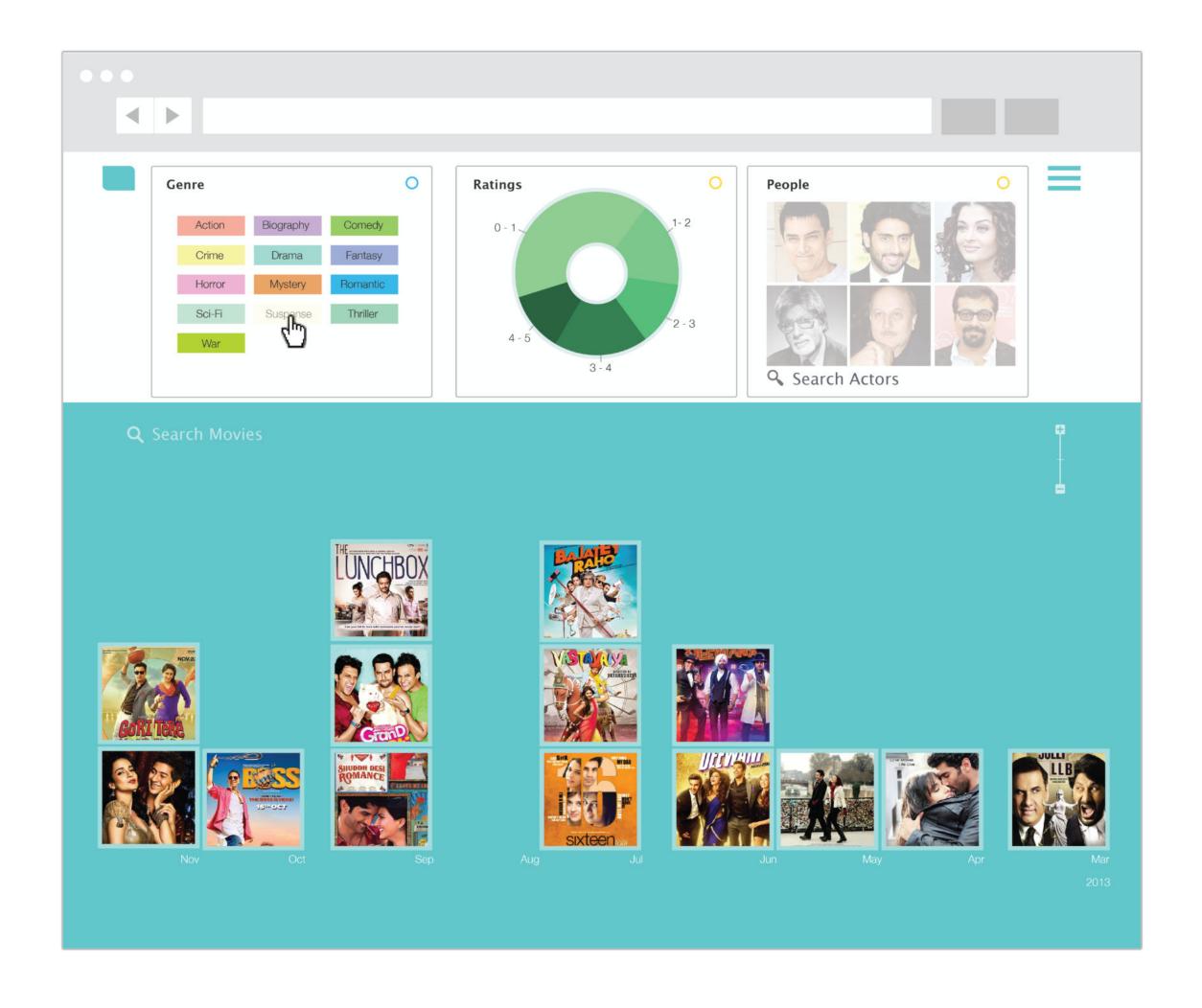




Timeline: Customized Scroller

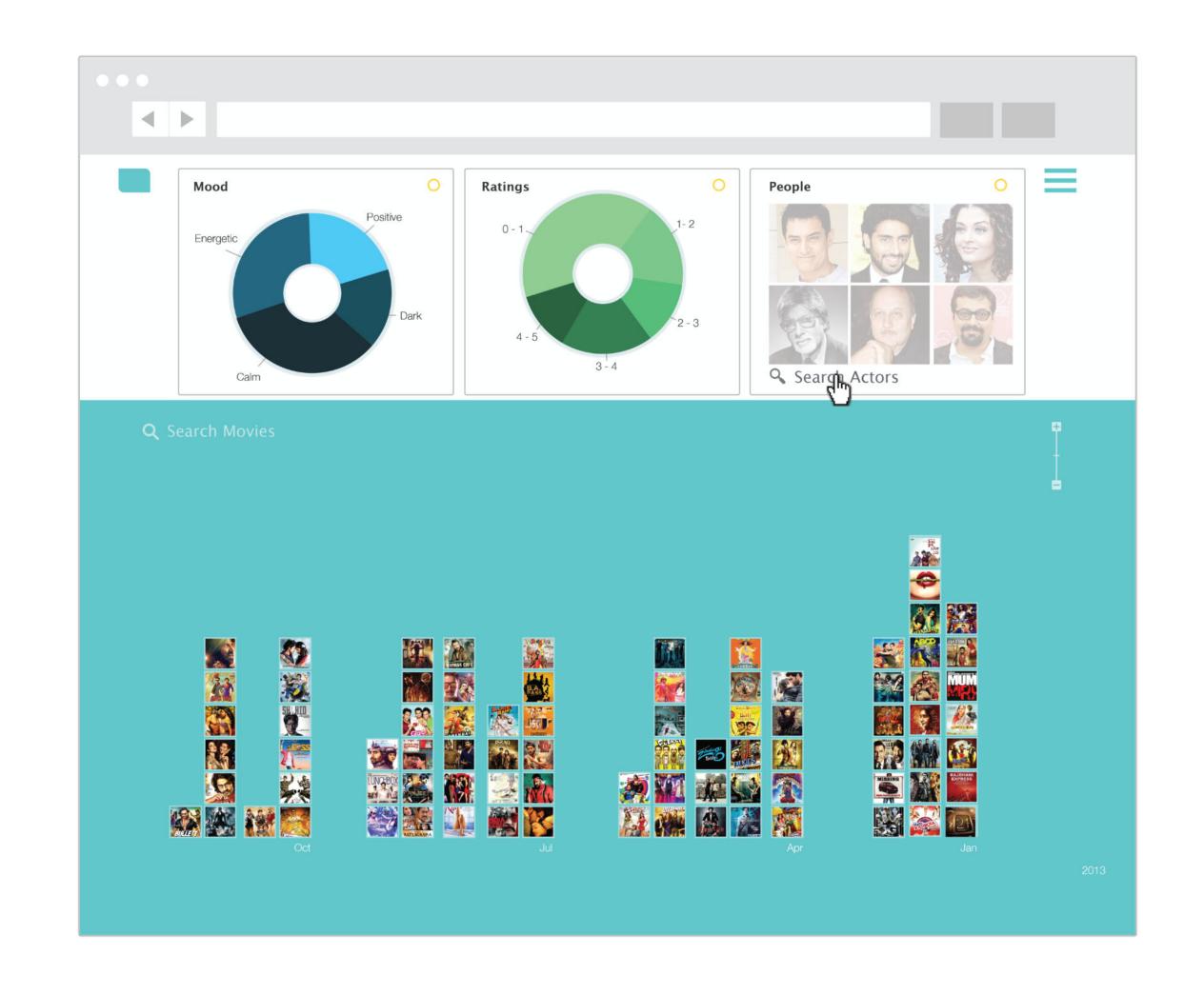


4. Filter

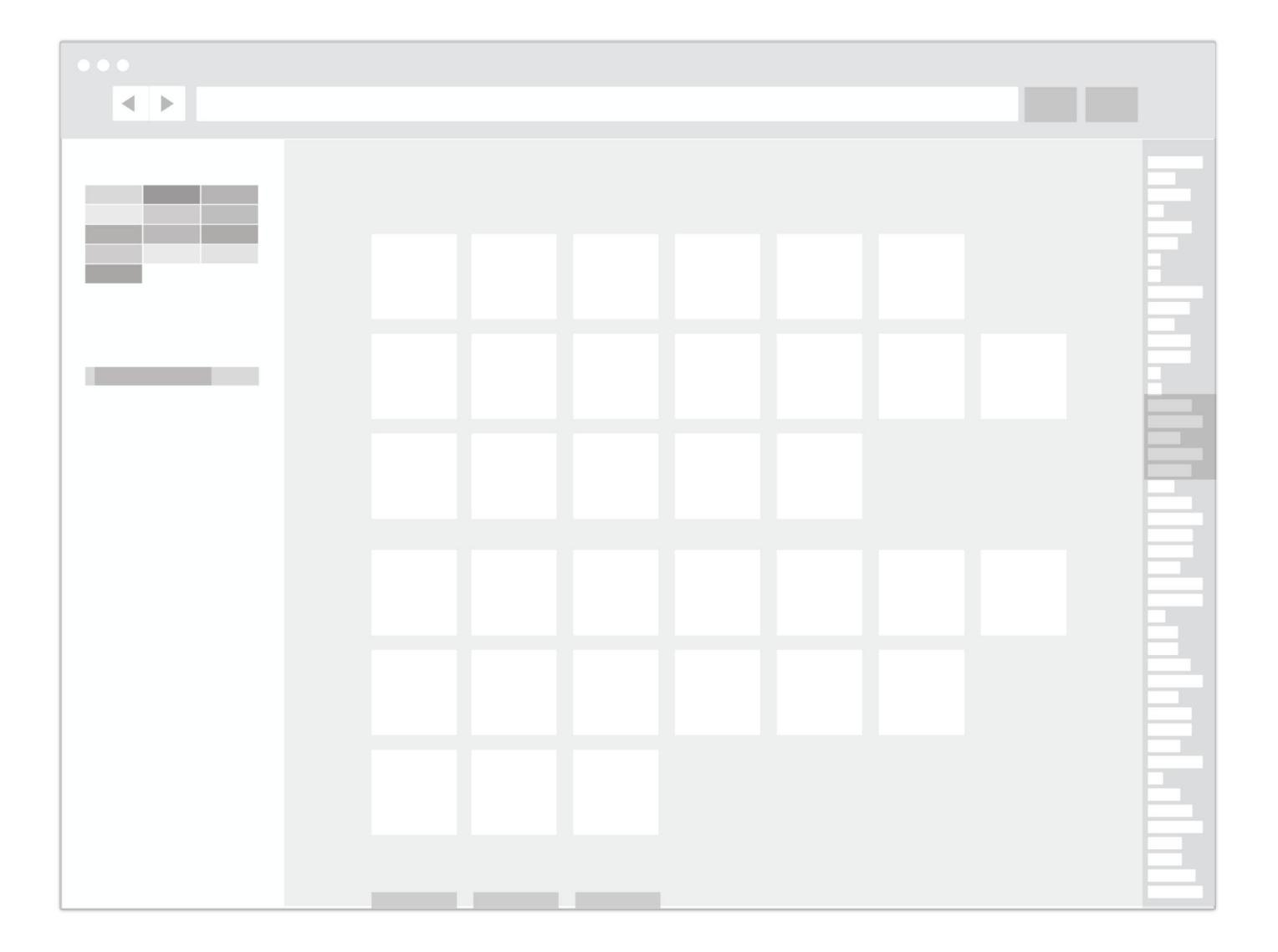


Main filters

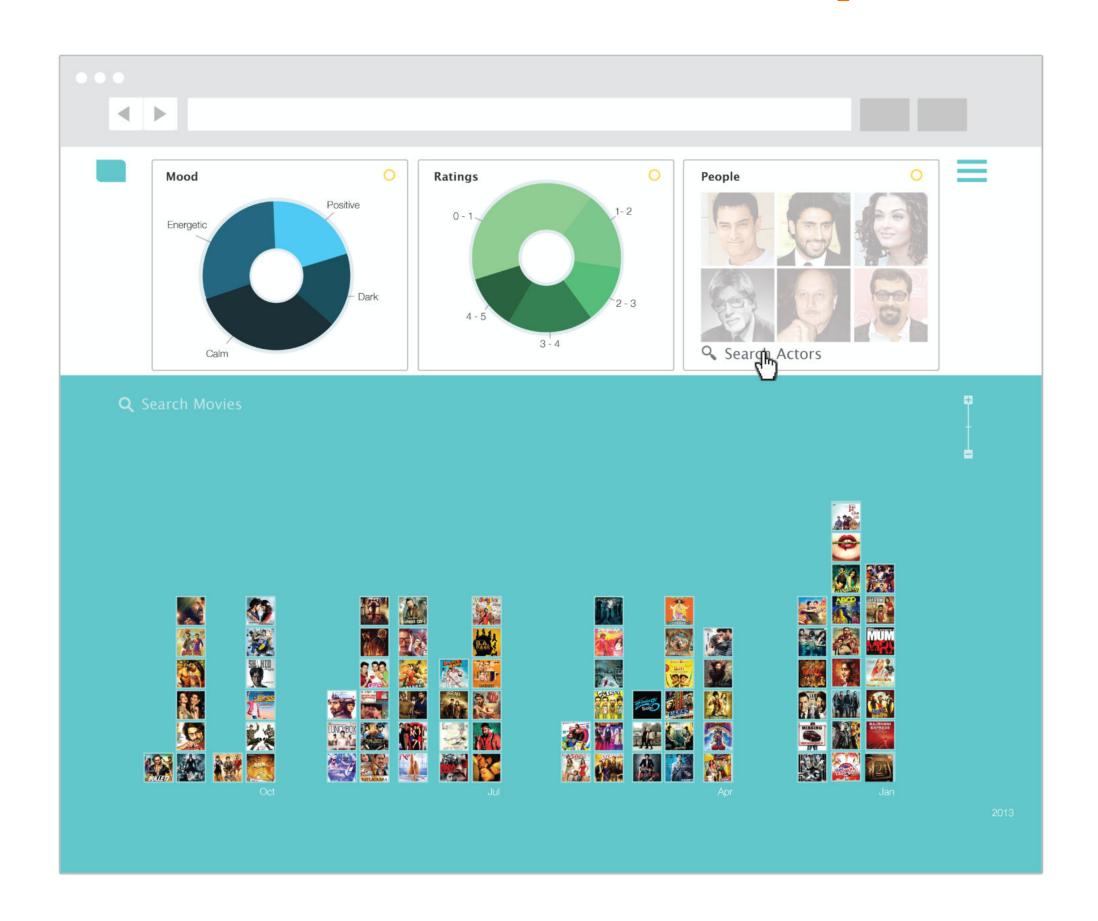
- Genre
- Rating
- PeopleMood

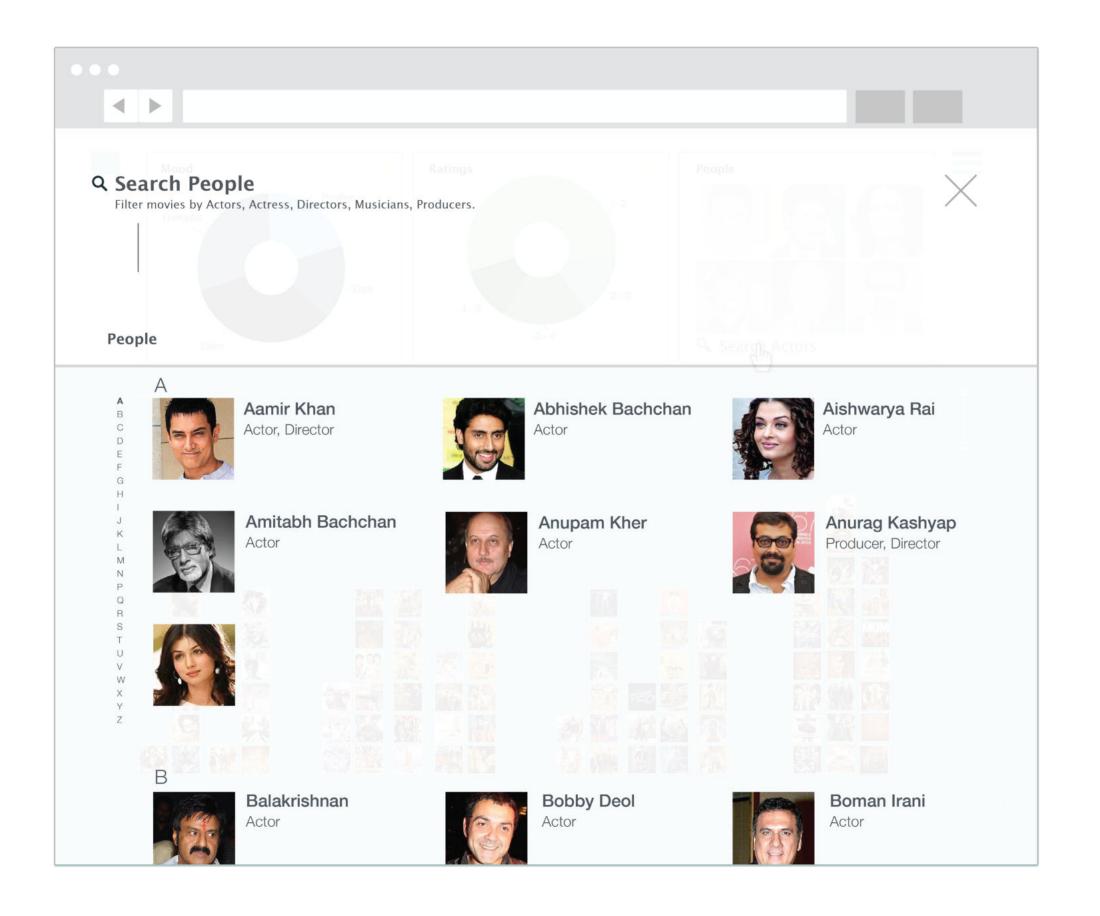


Filters:

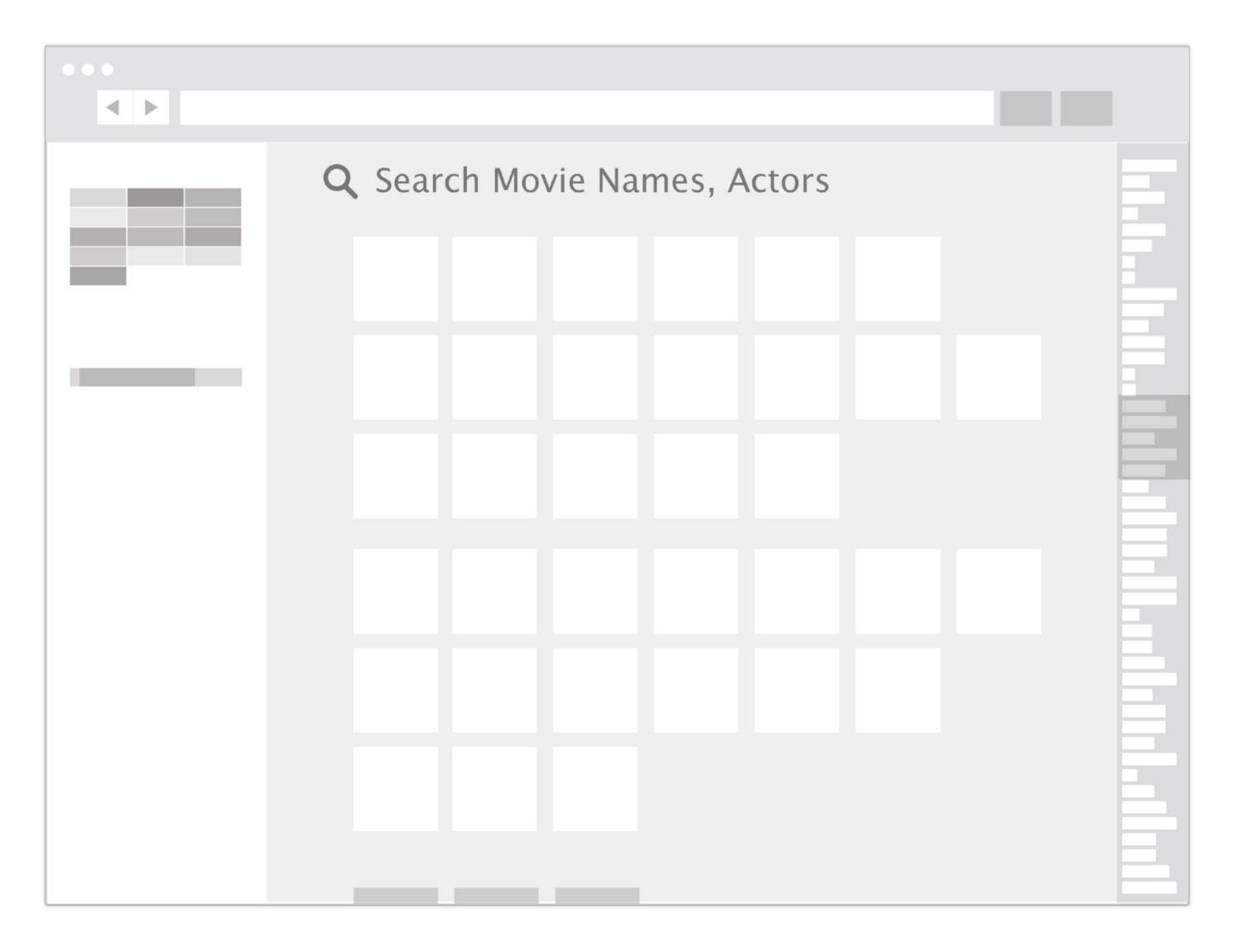


4. Search: People & Movies

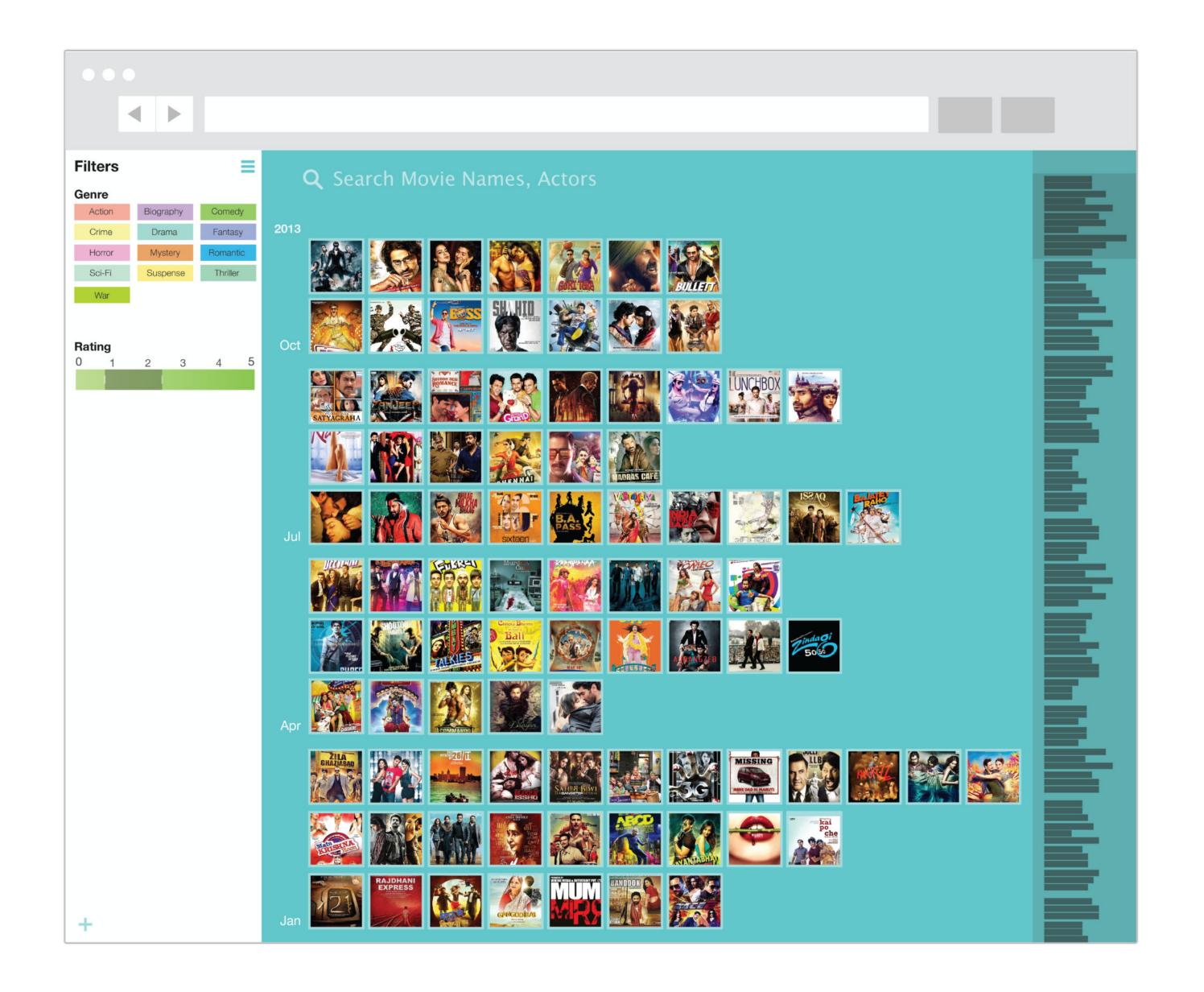


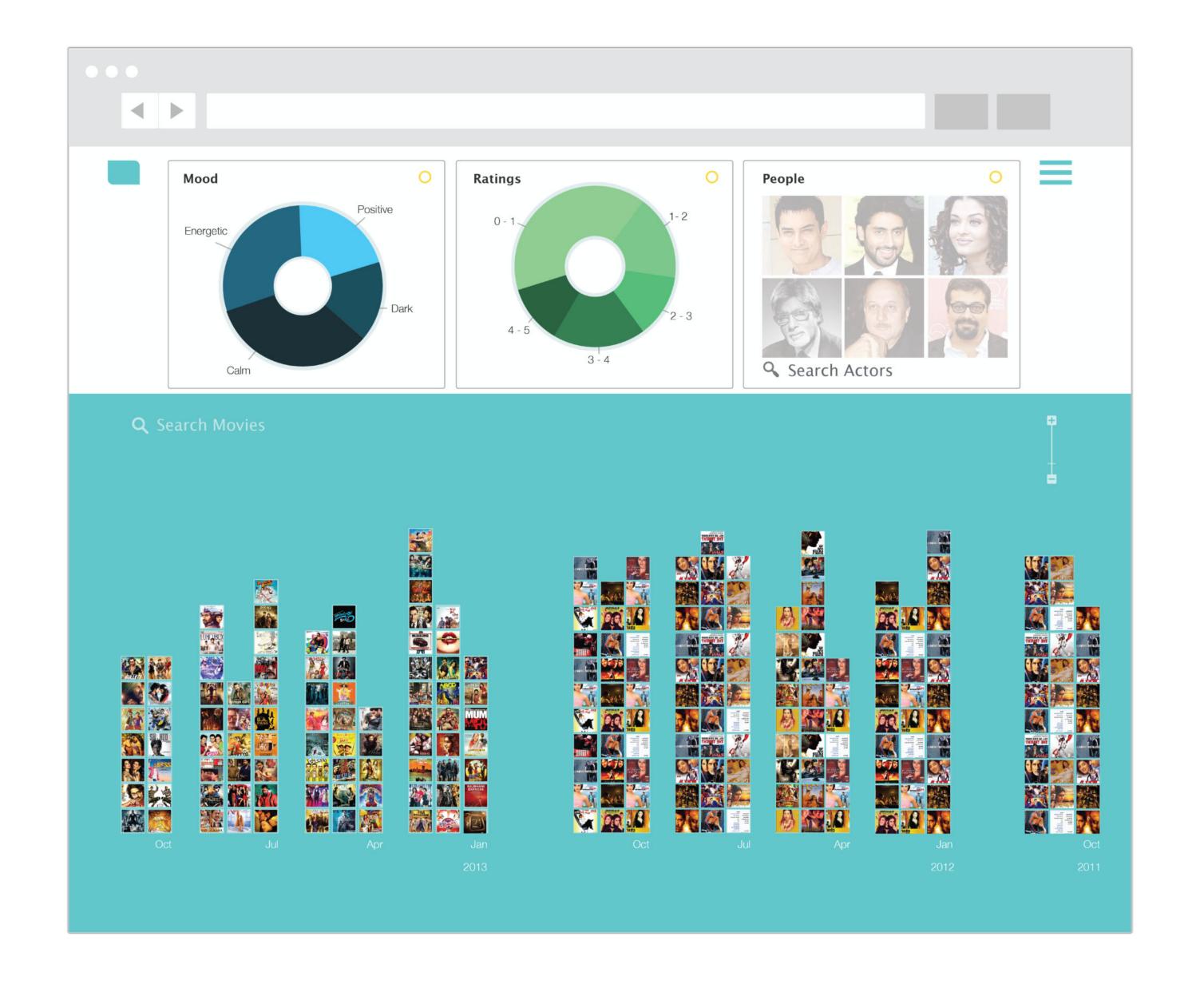


Search:



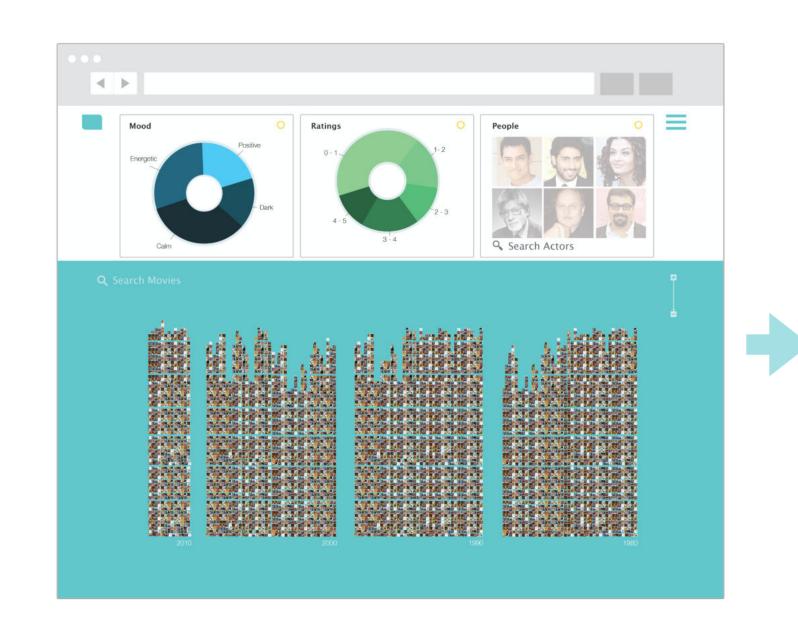
UI Mockups

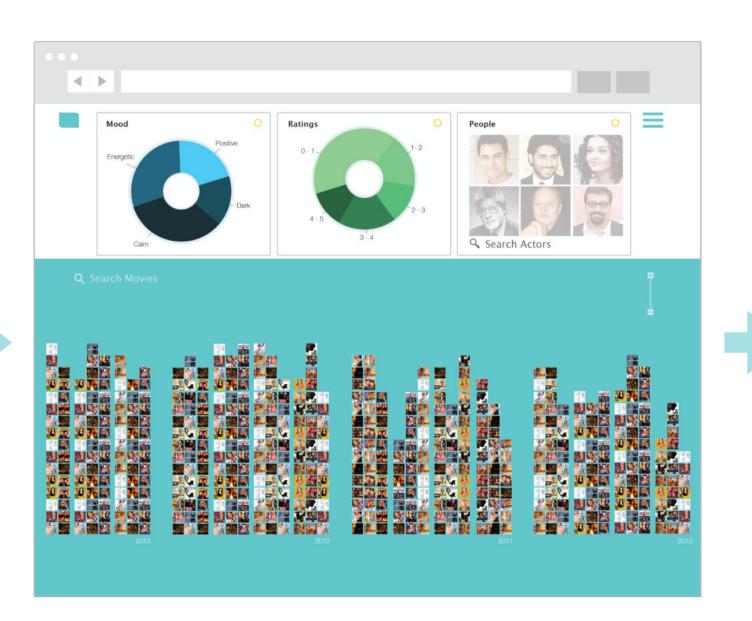


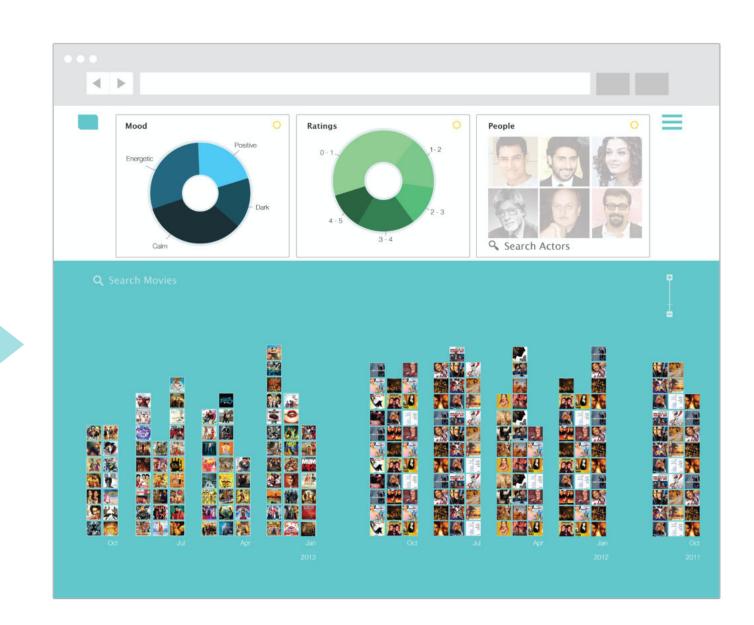


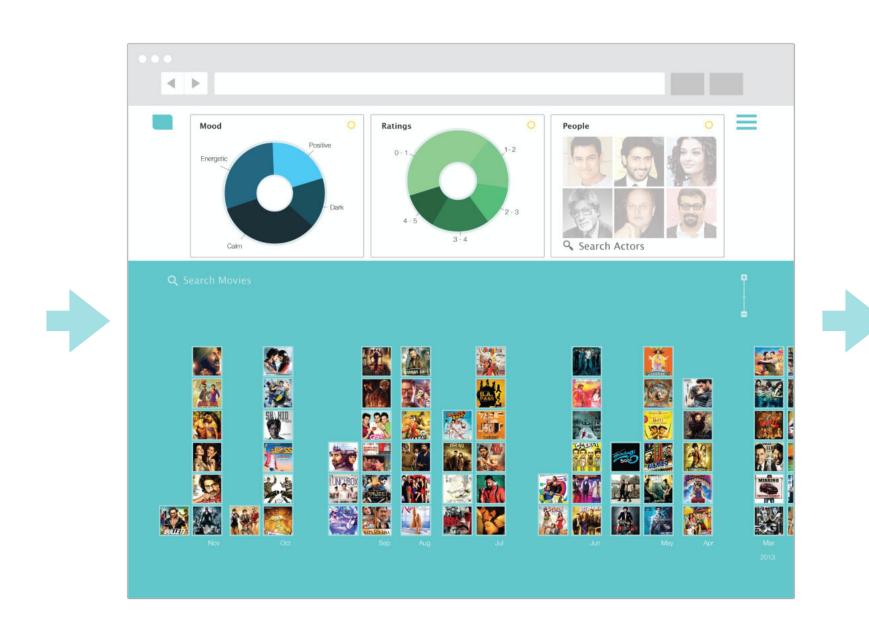
Task 1

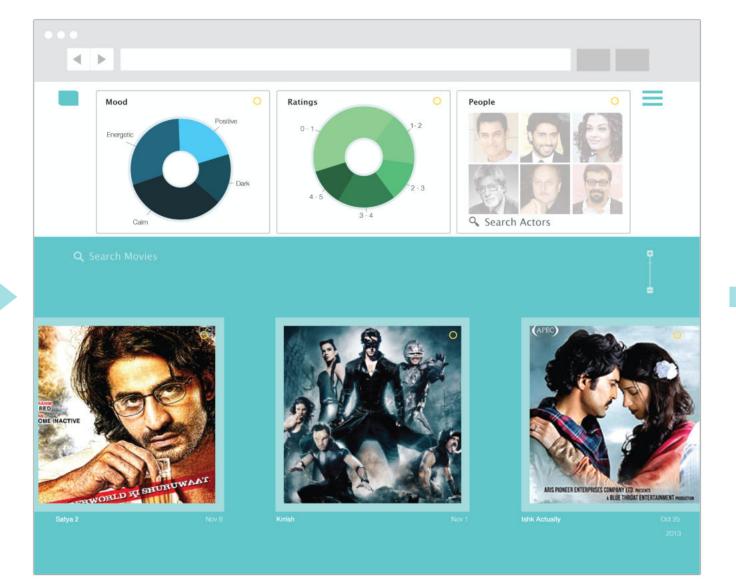
Find a movie released in Jun 1st week, 2013

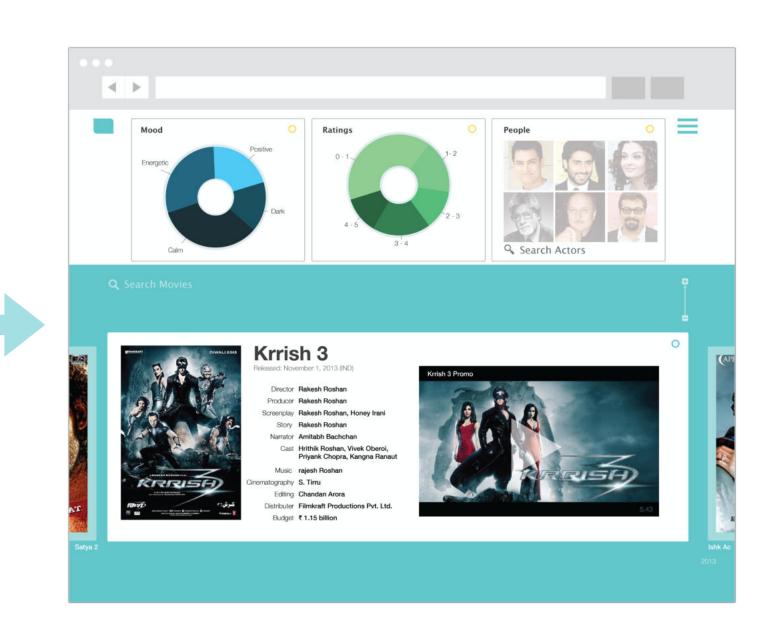


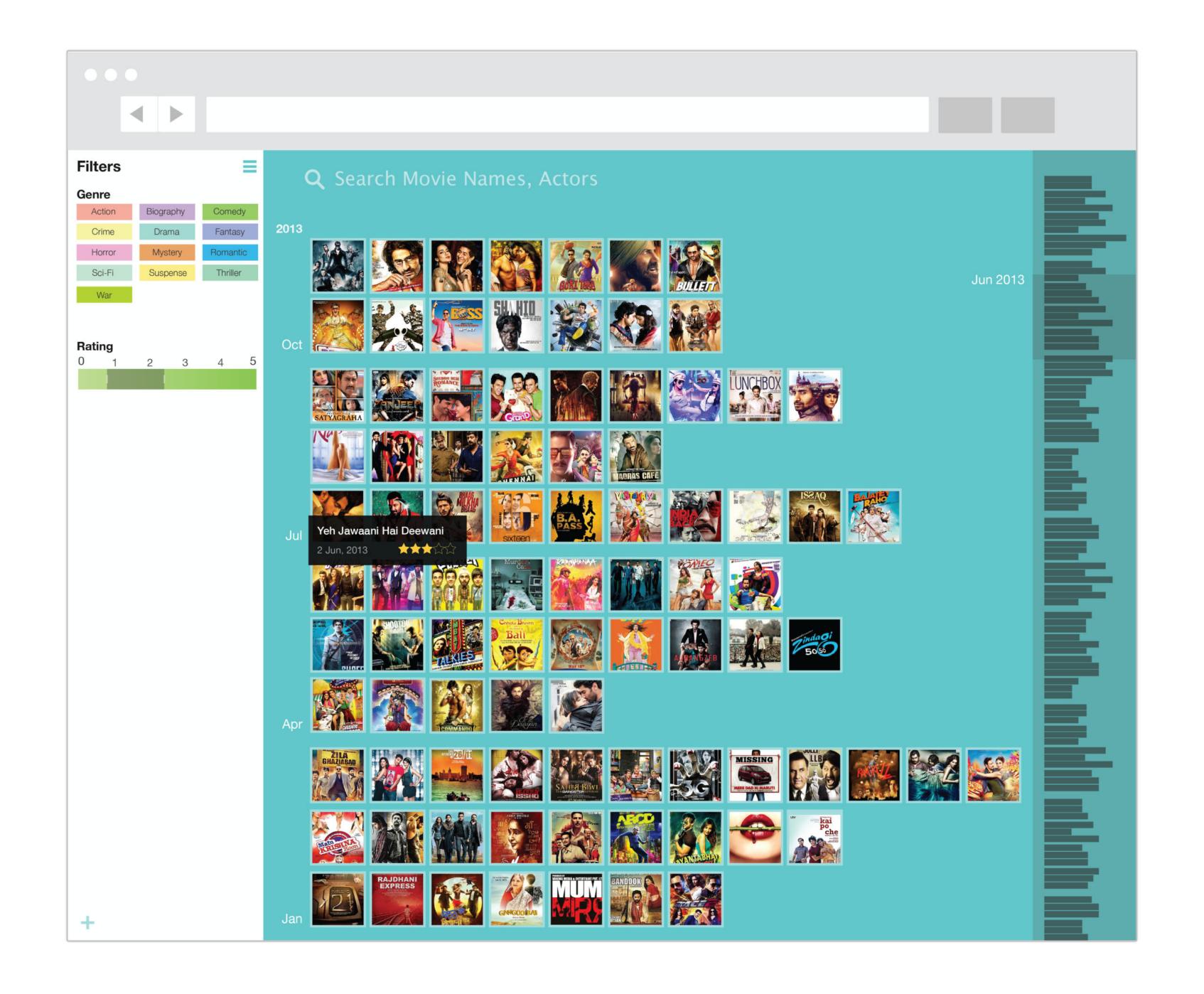






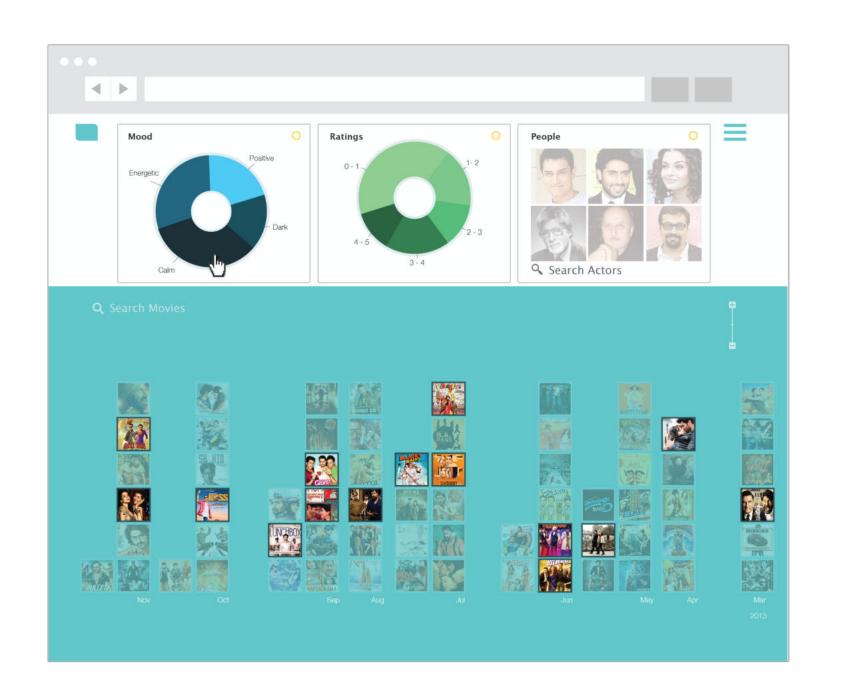


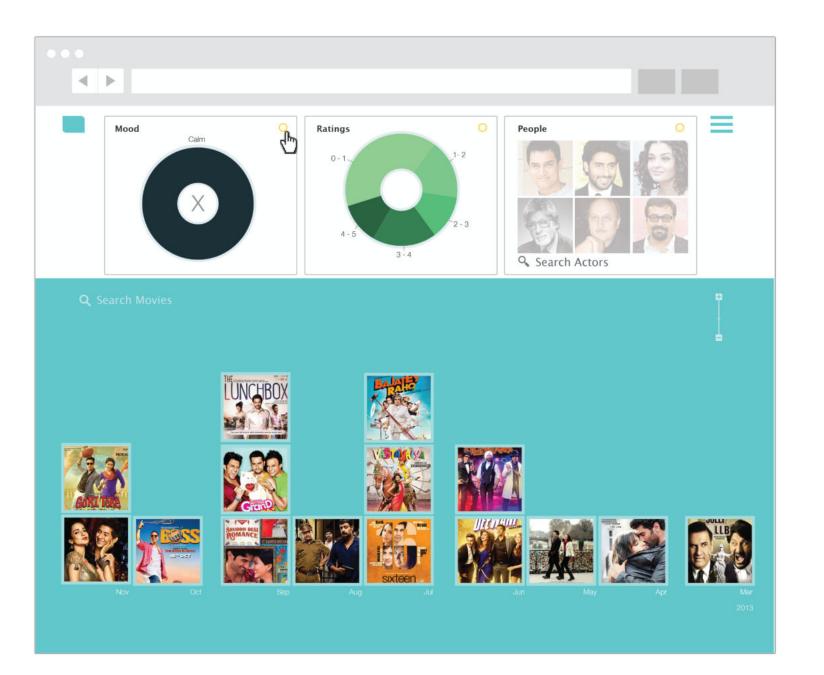


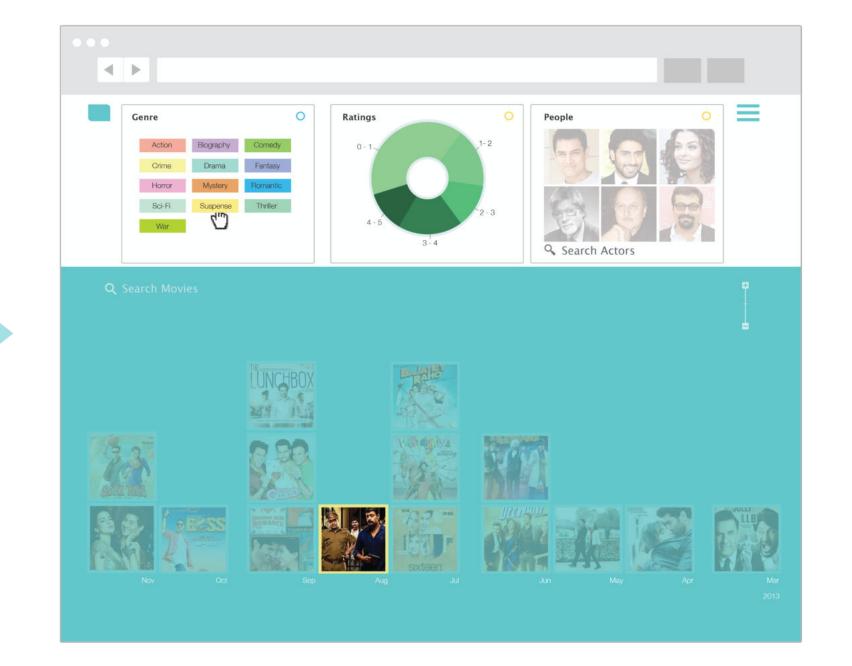


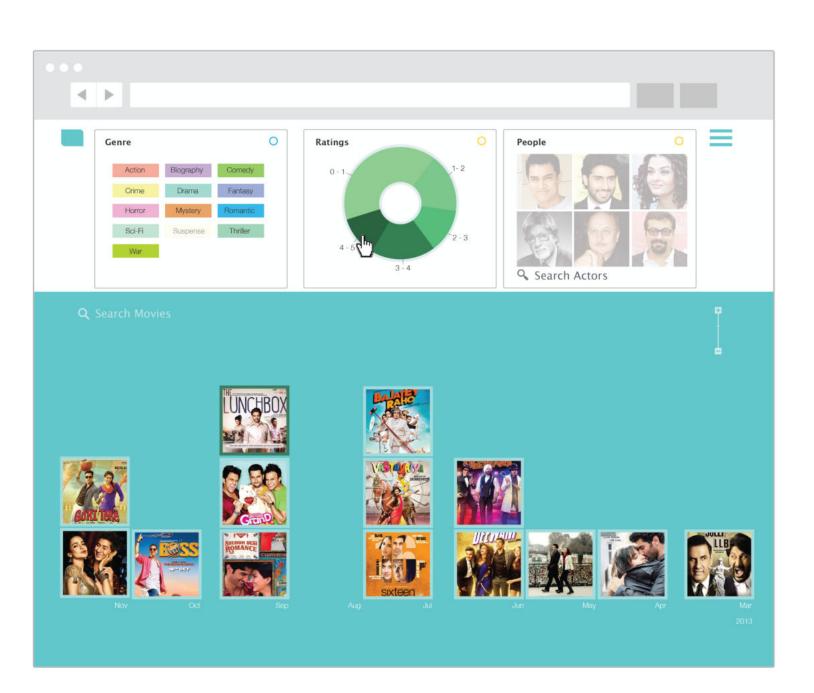
Task 2

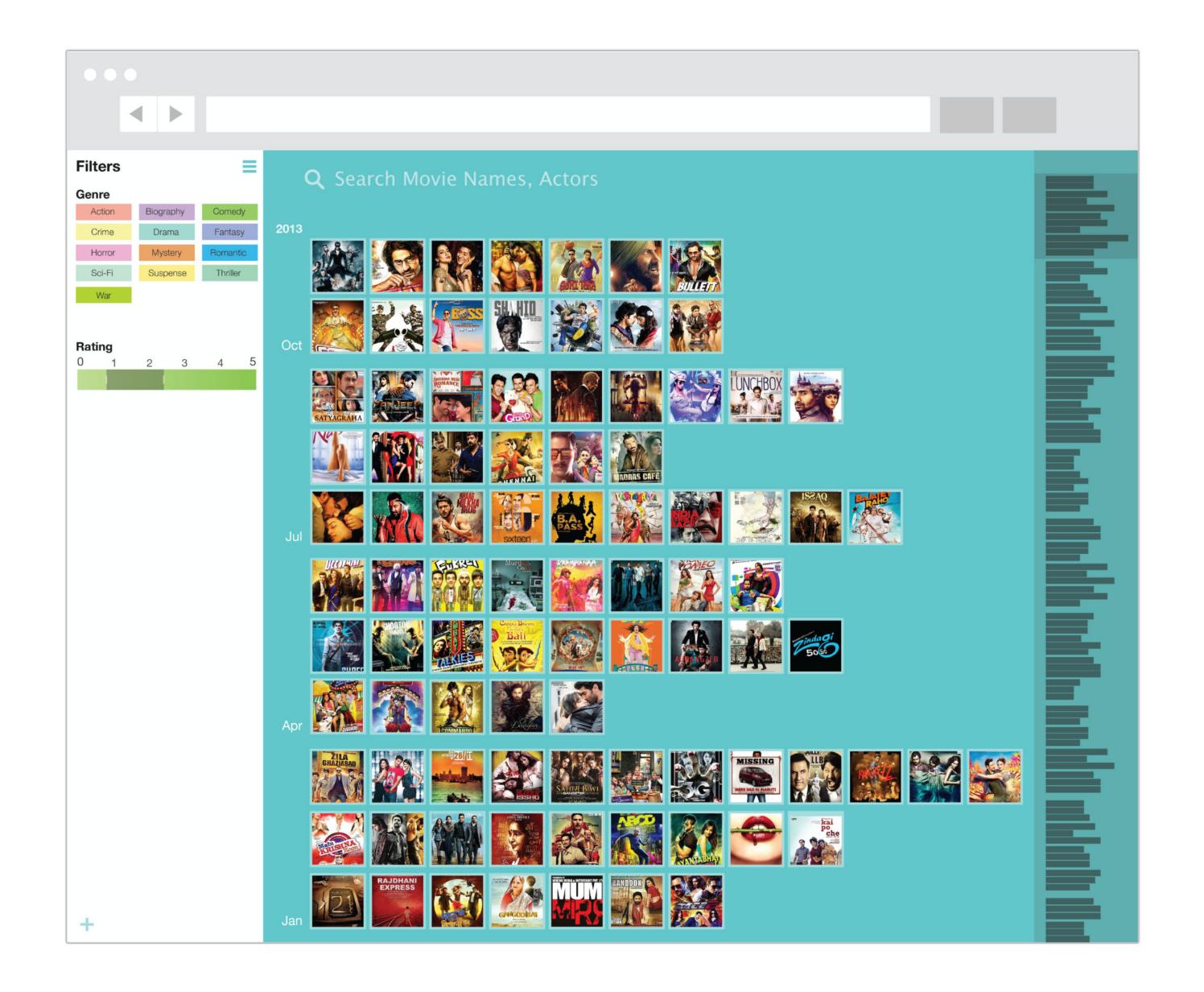
Find the 'highest rated', 'drama' movie from '2013'.

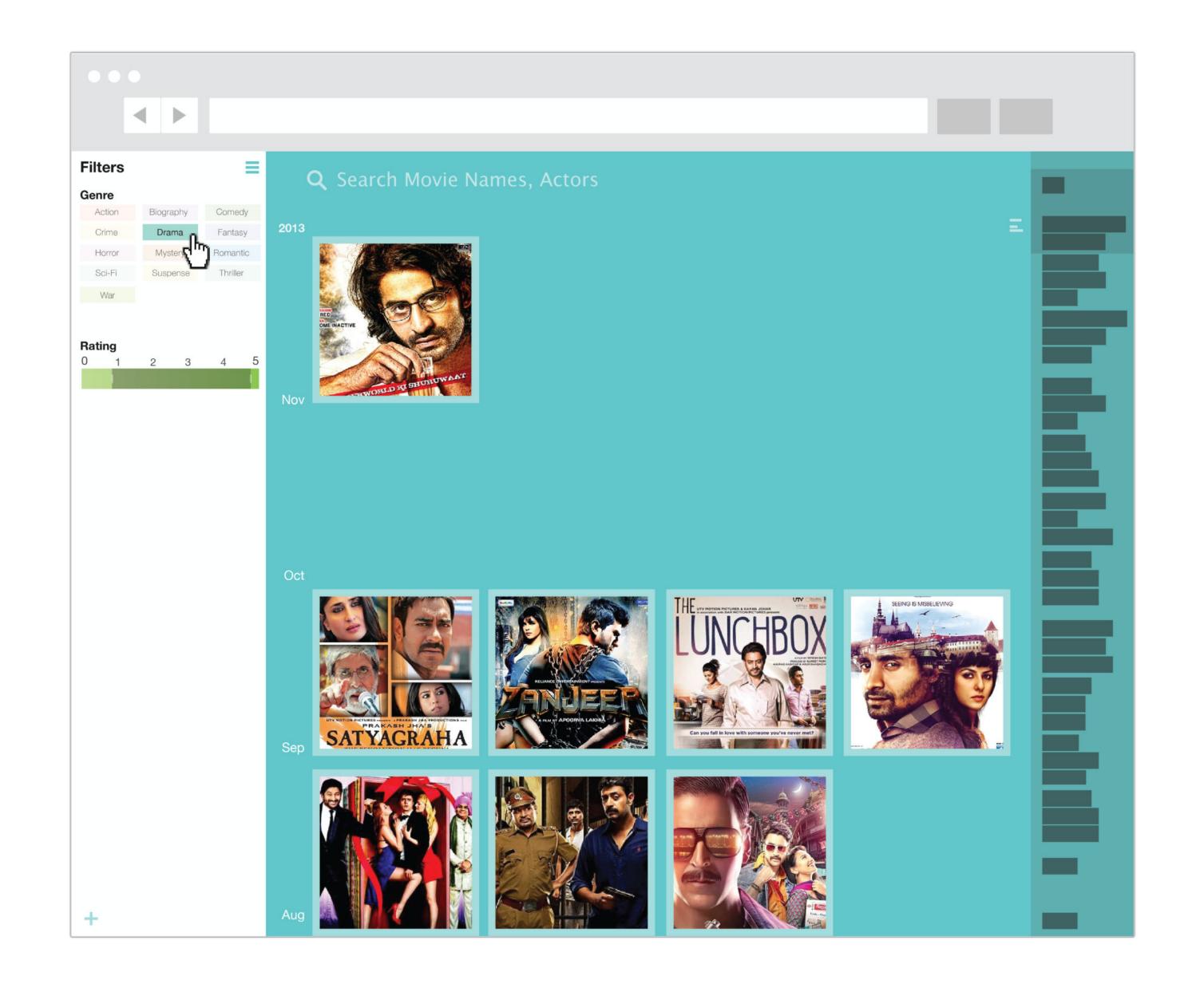


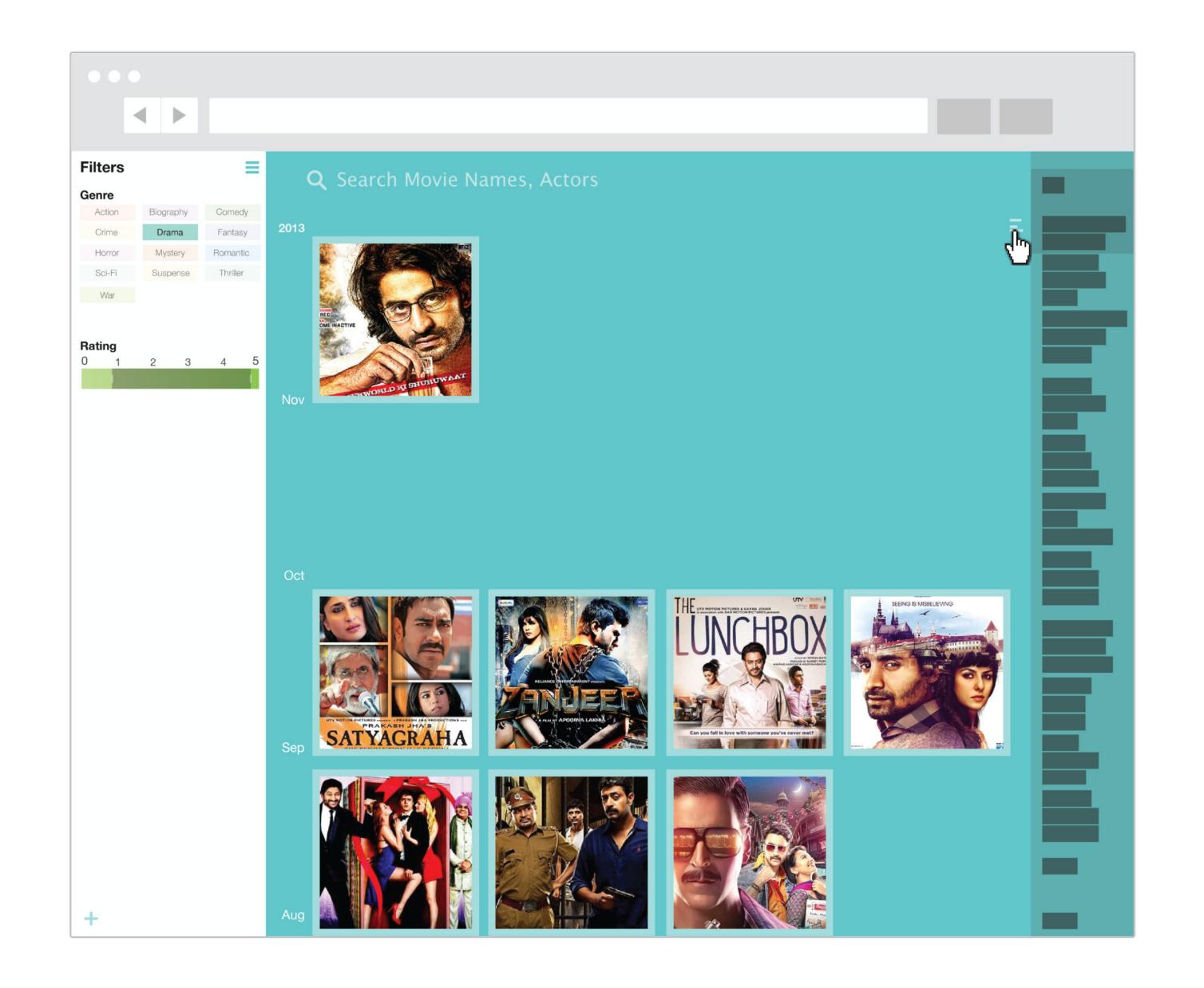


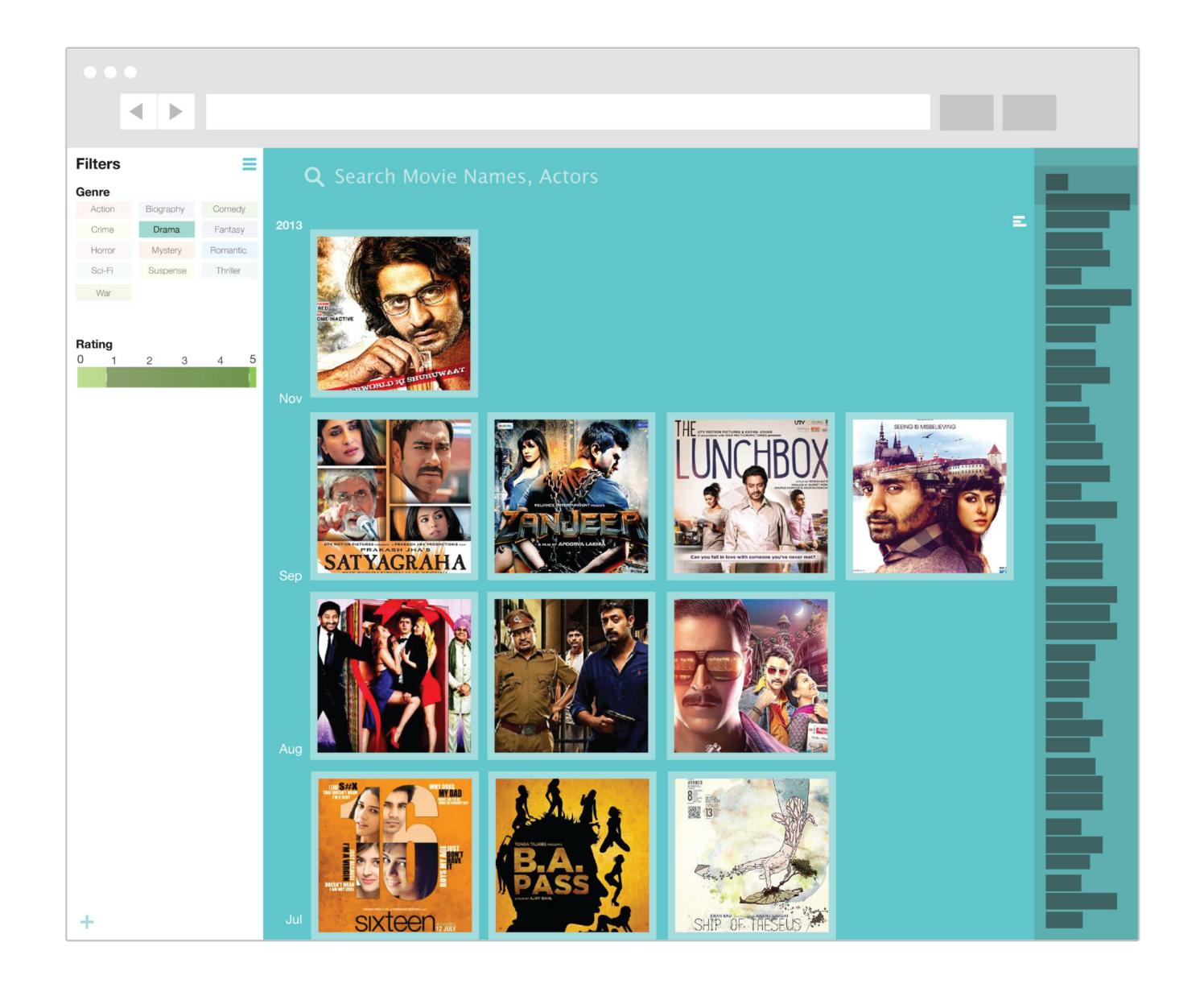


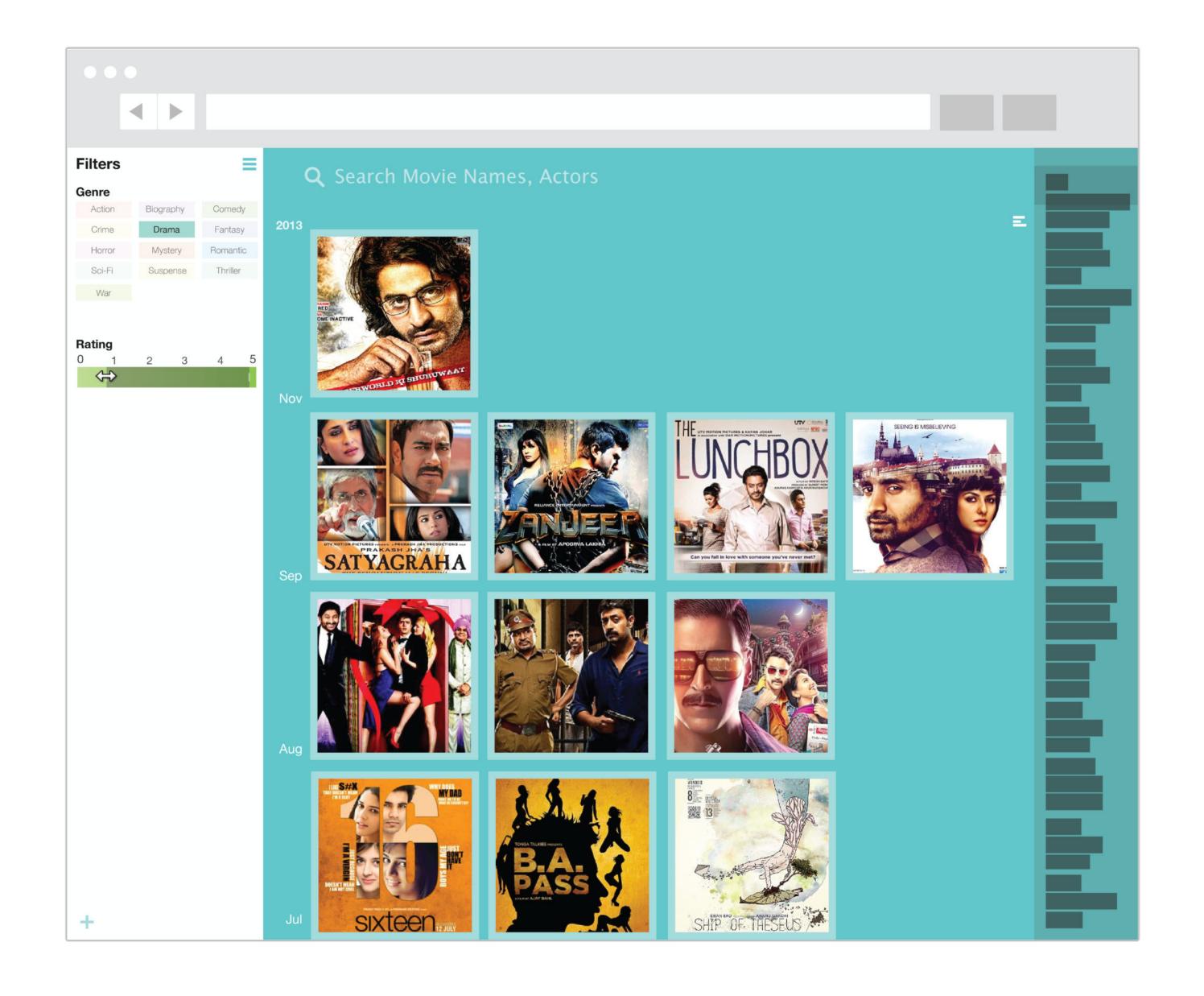


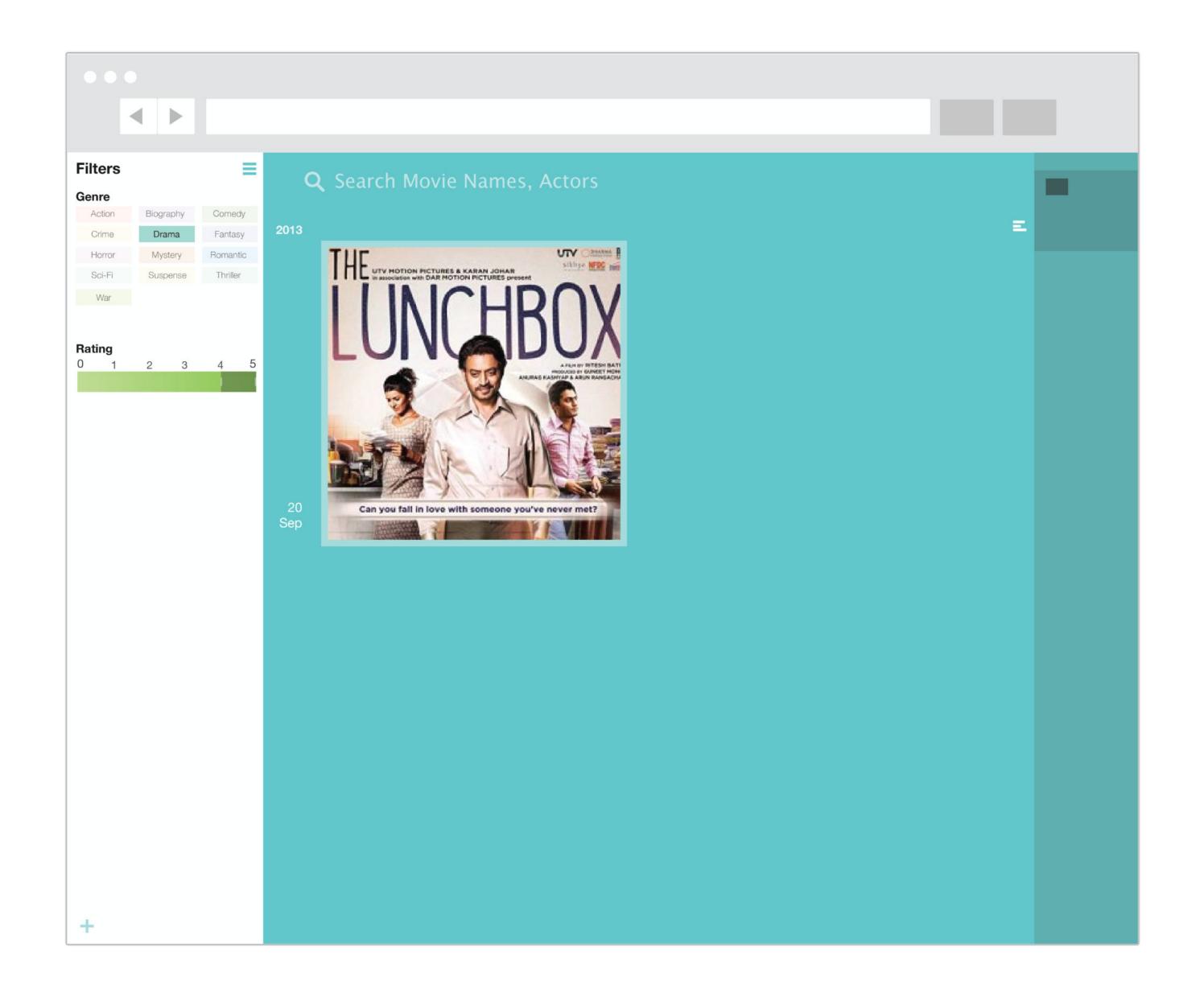


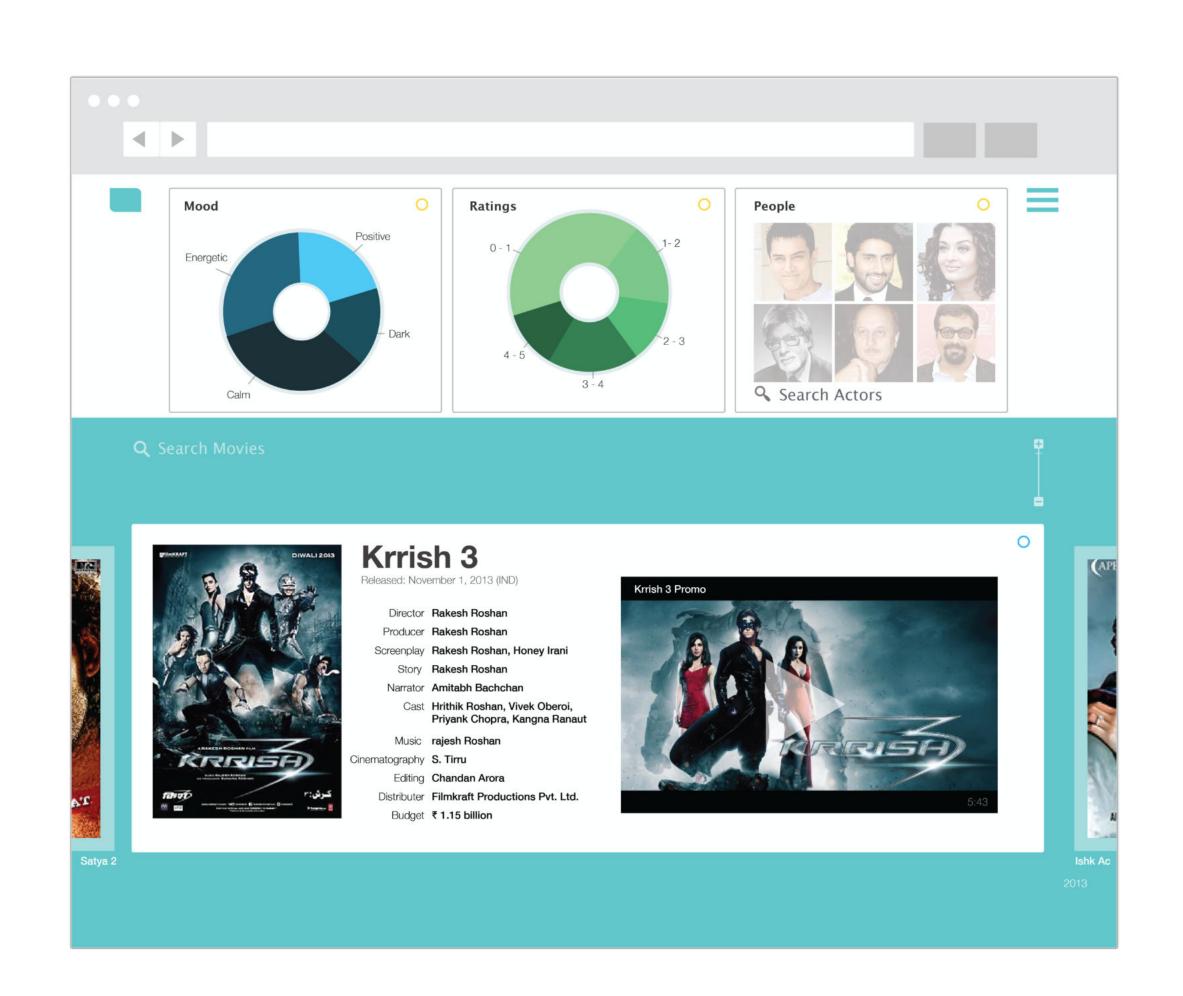


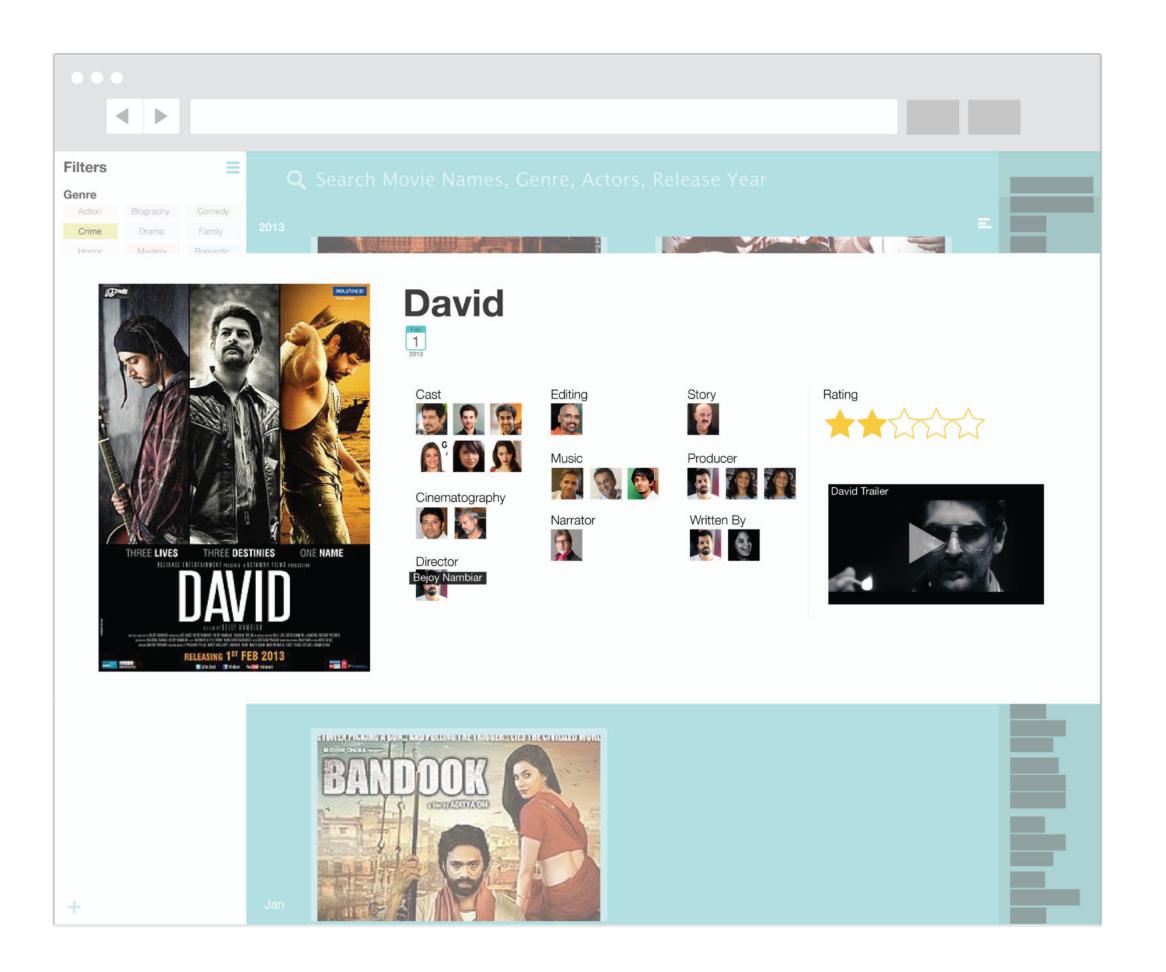






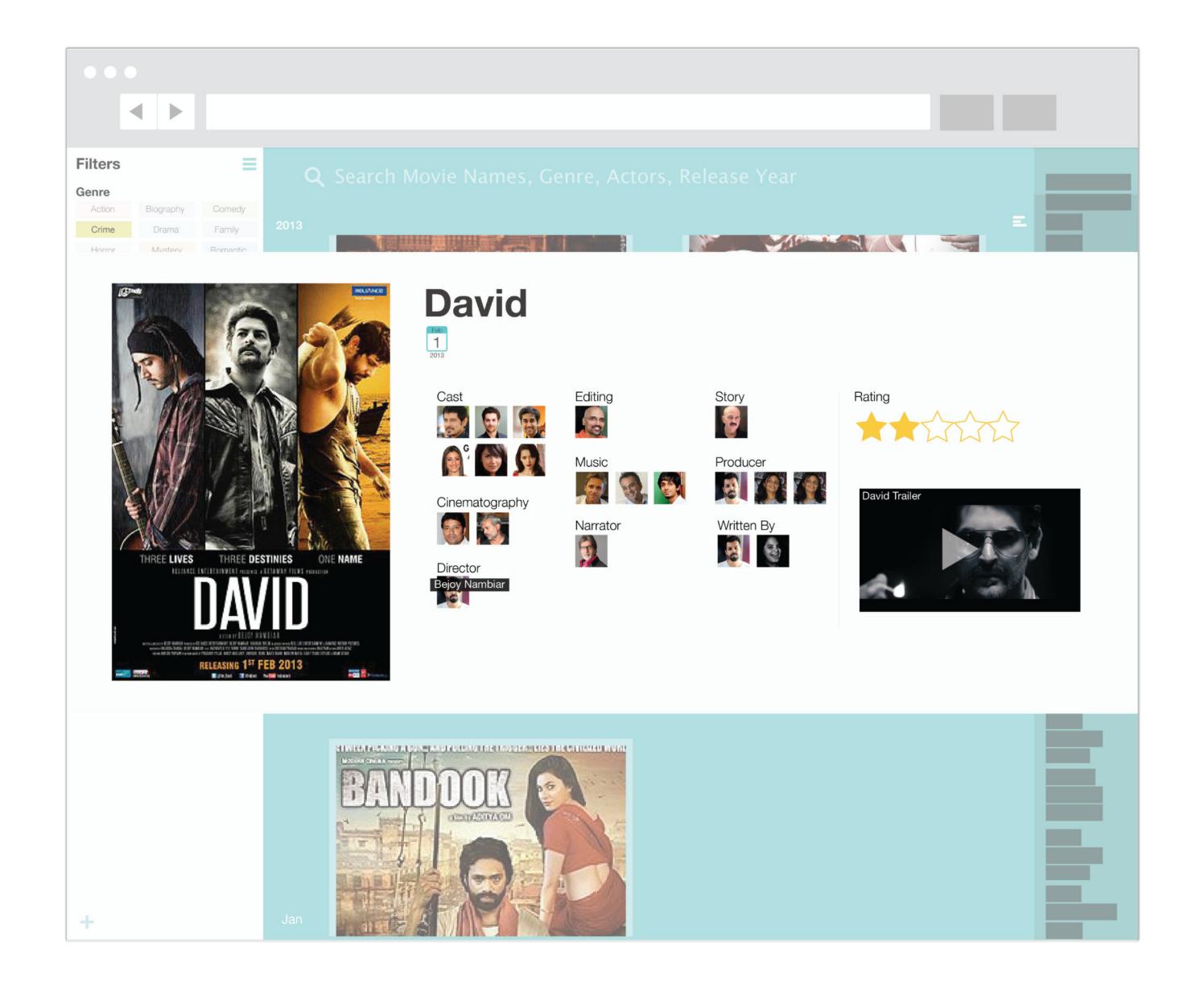






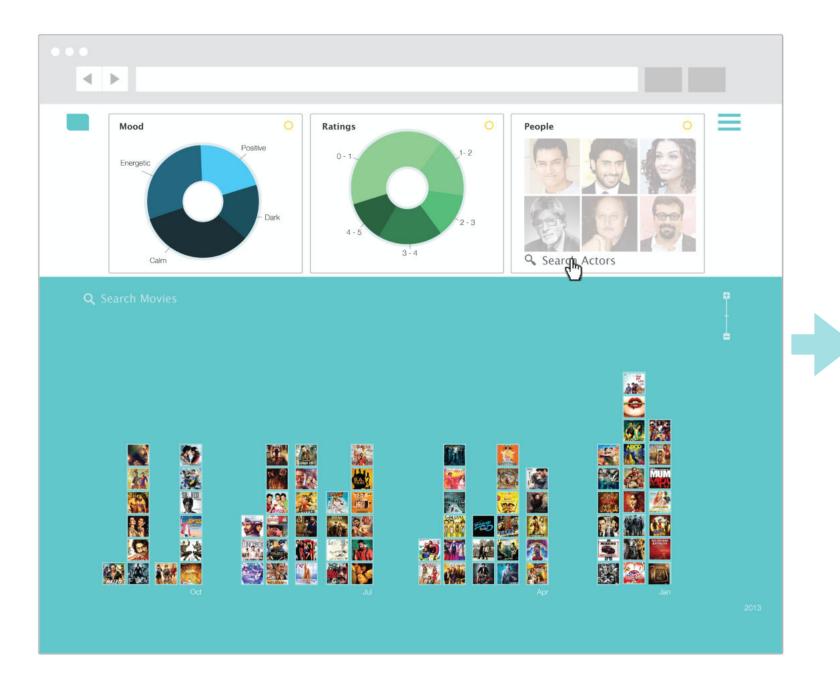
Previous Concept

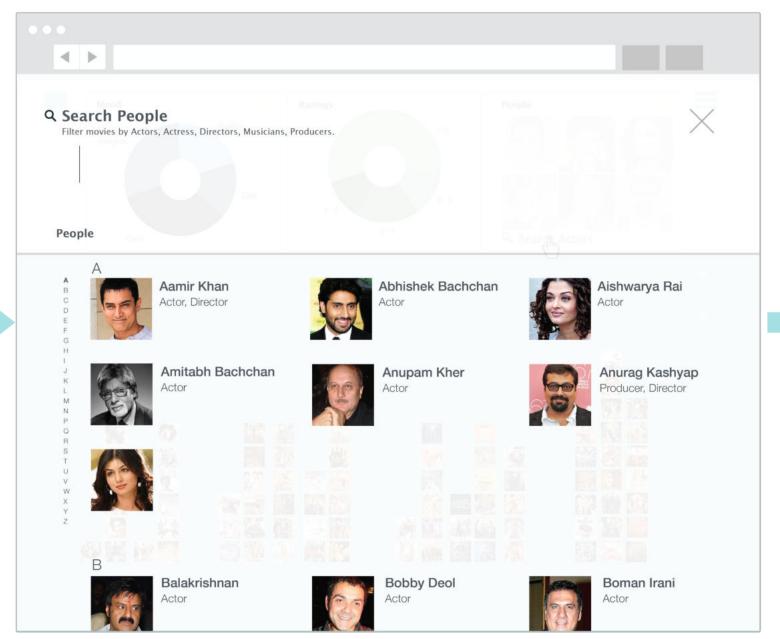
Current Concept

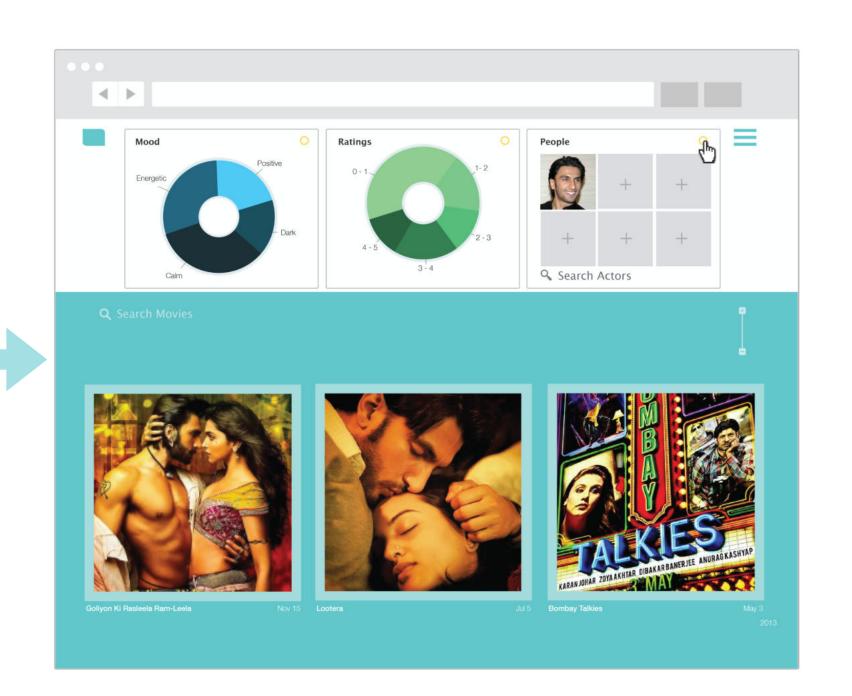


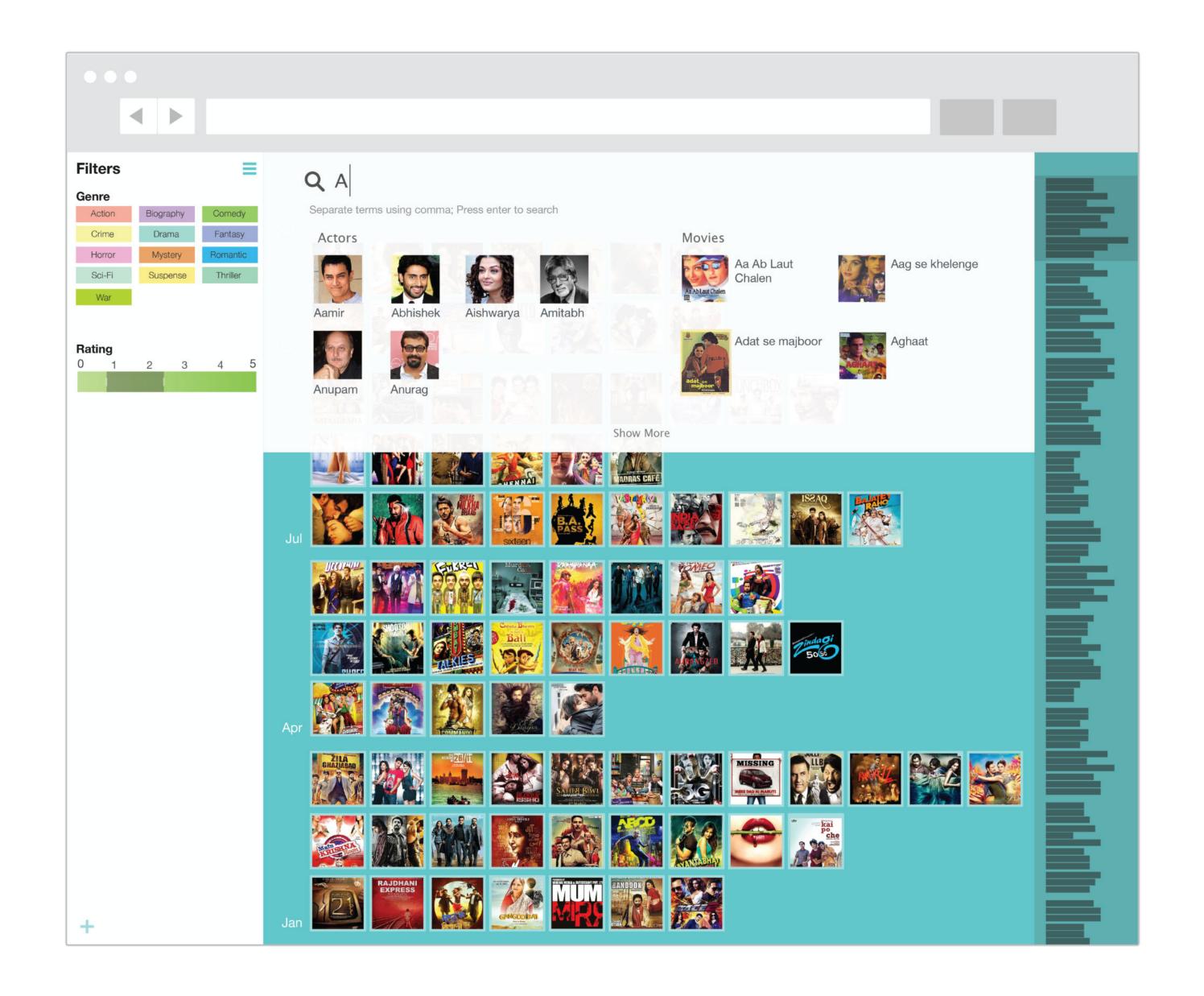
Task 3

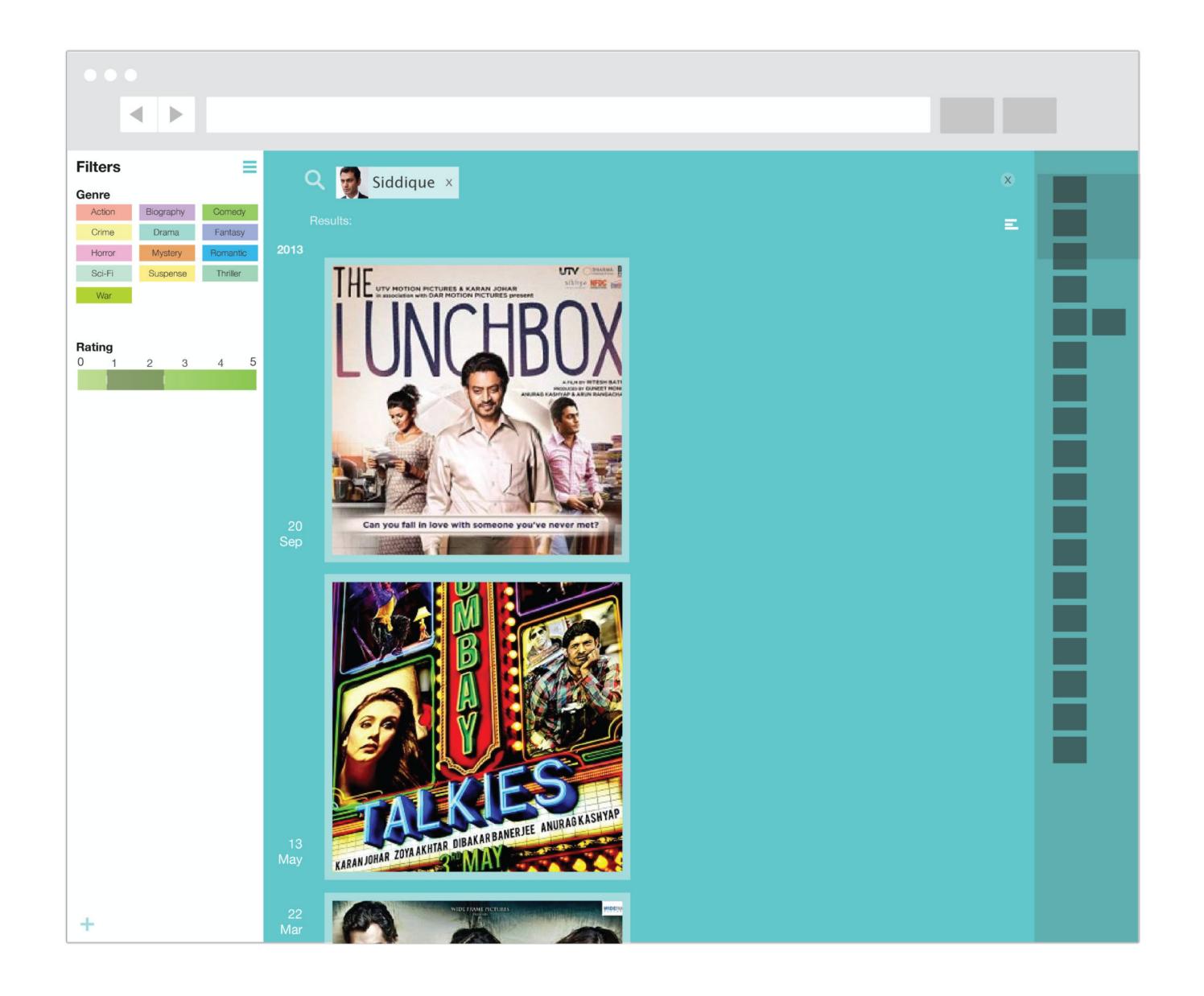
Find 'how many' movies casted 'Niwazuddin Siddique' in 2013

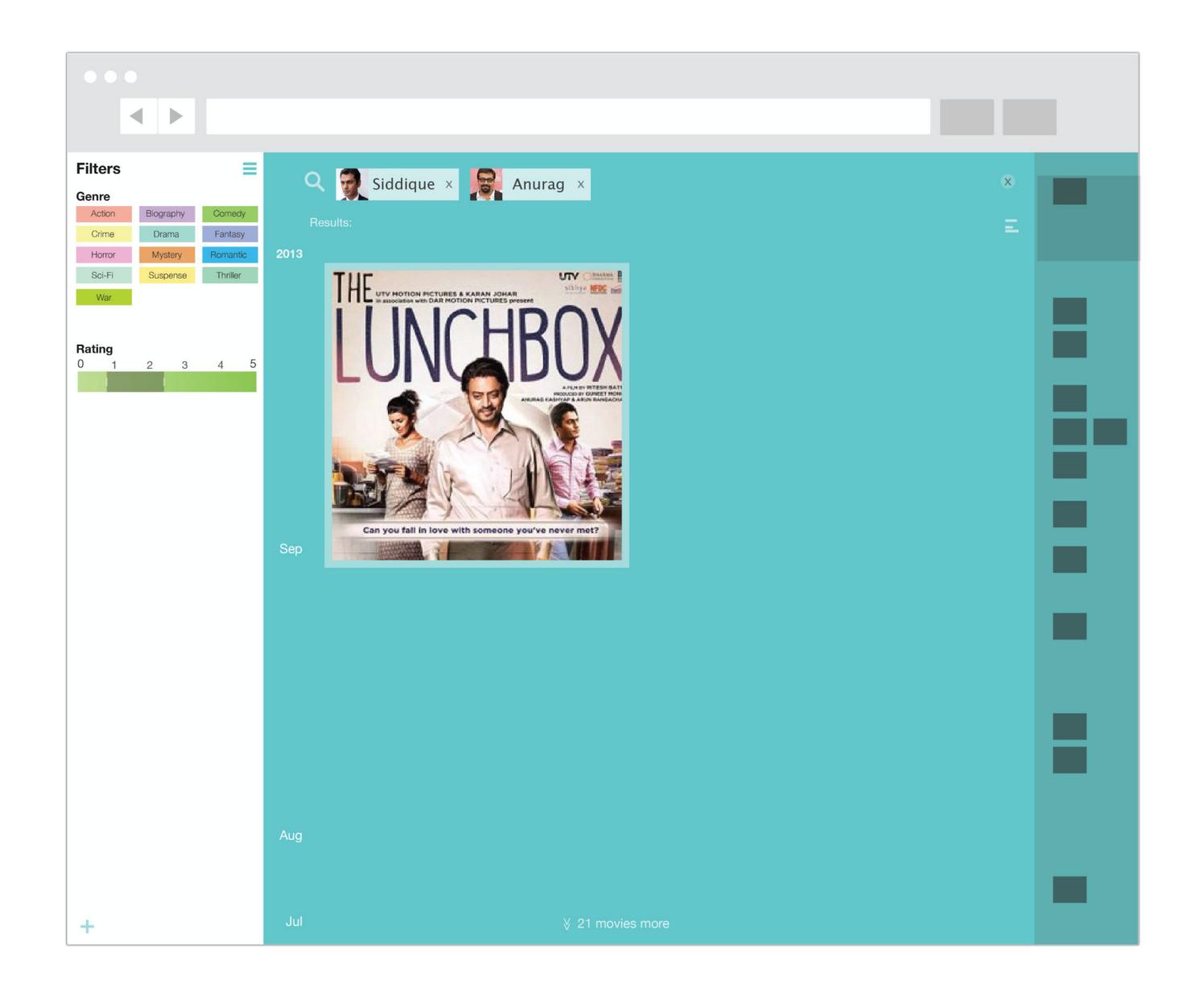


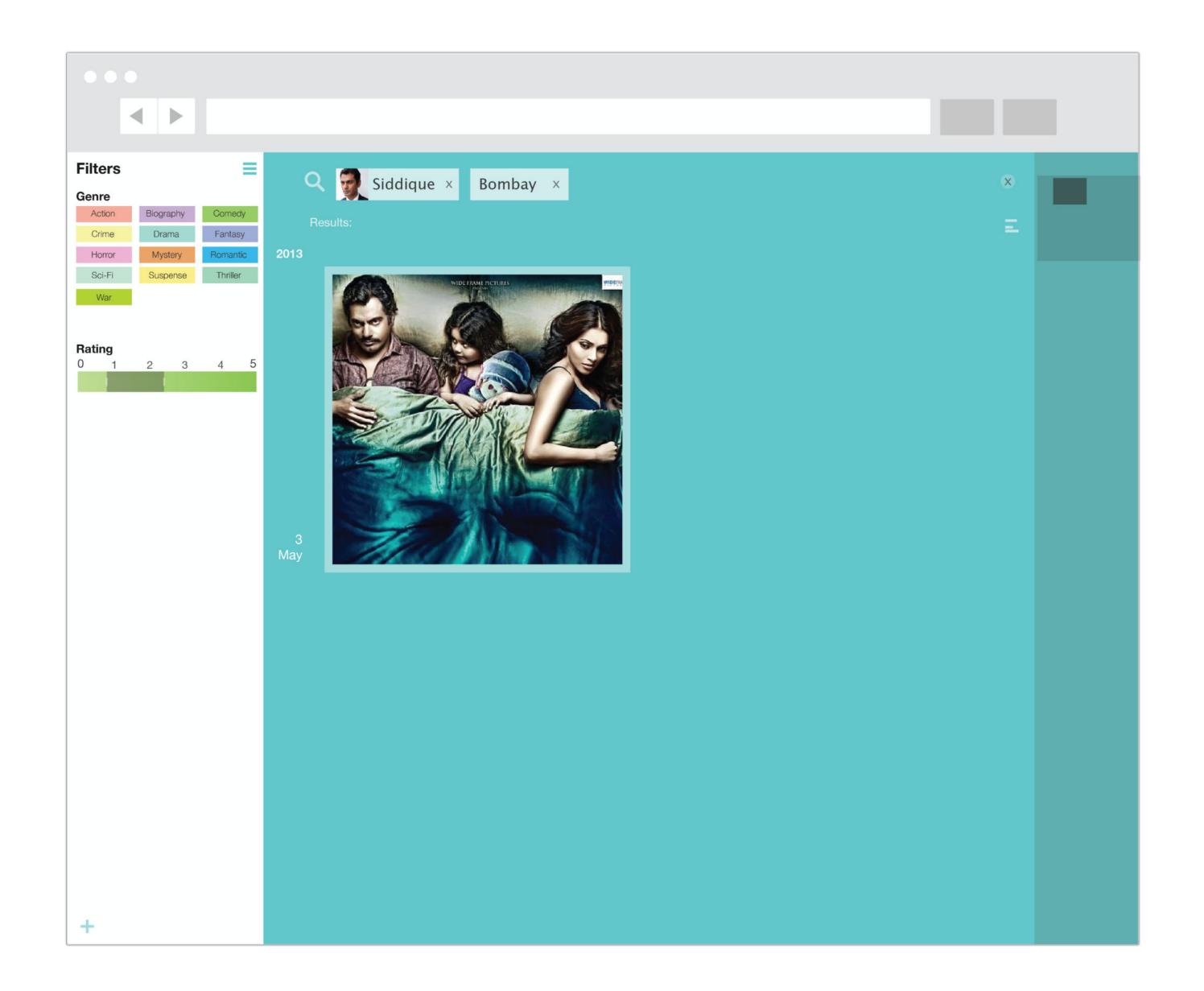




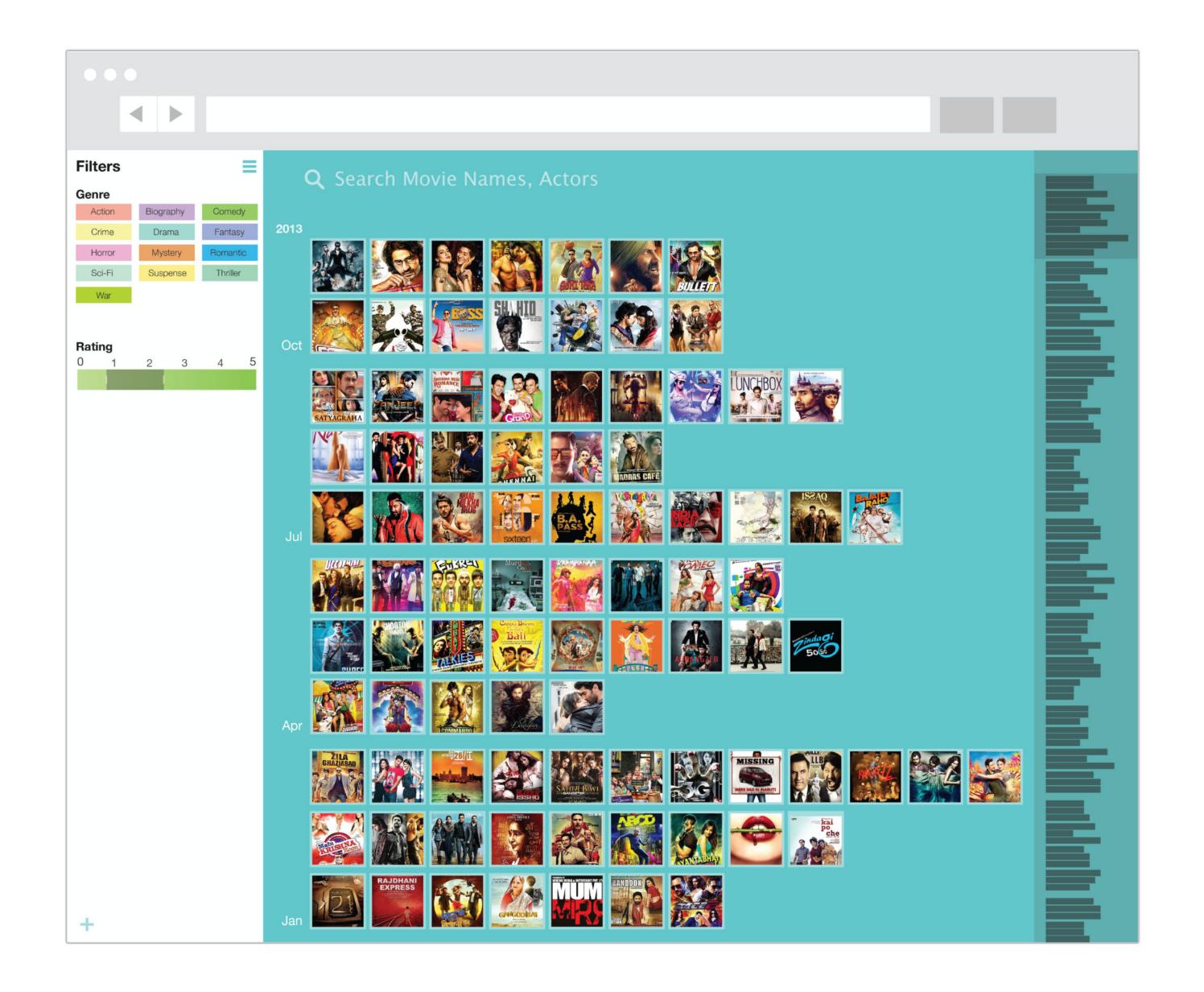


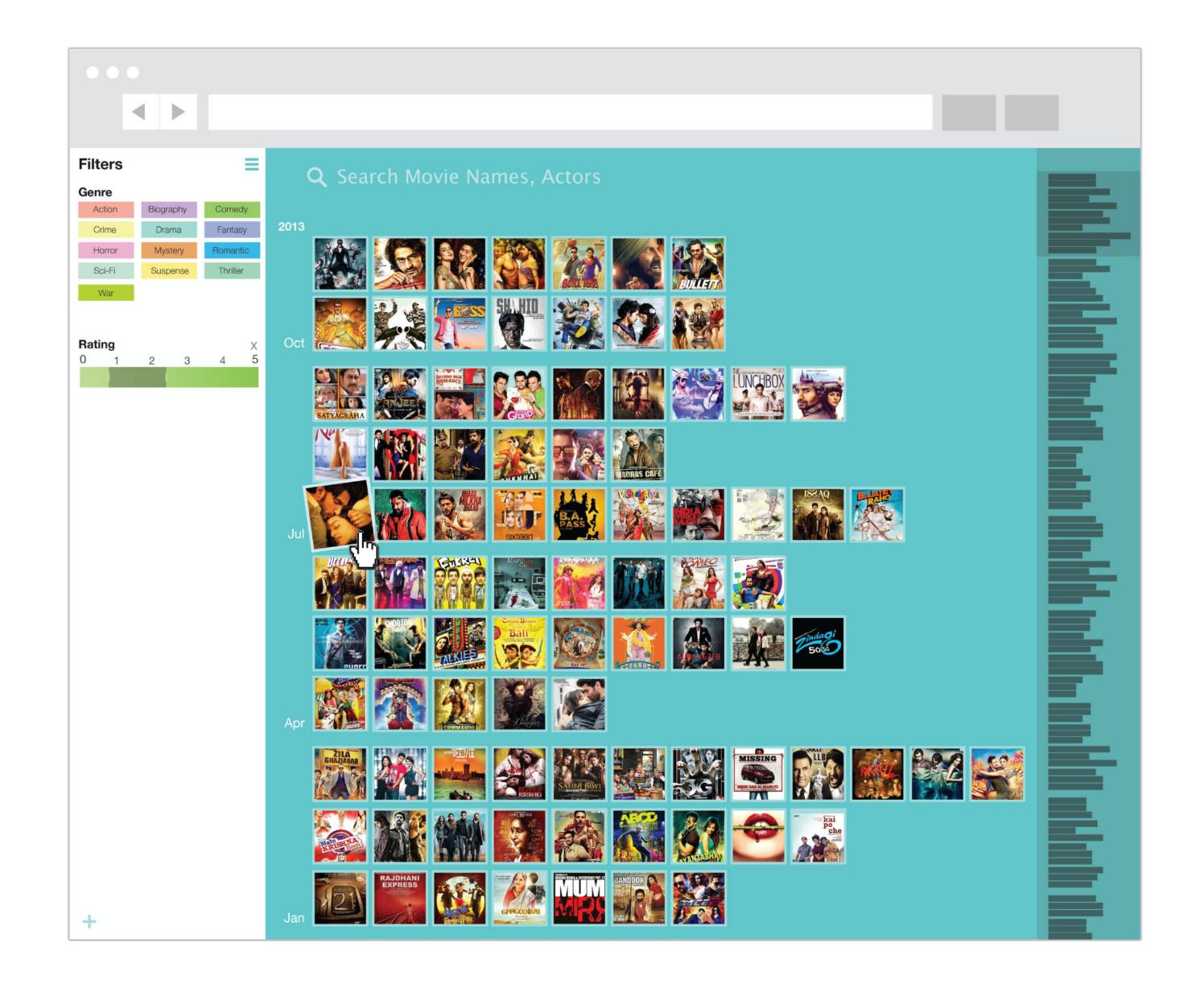


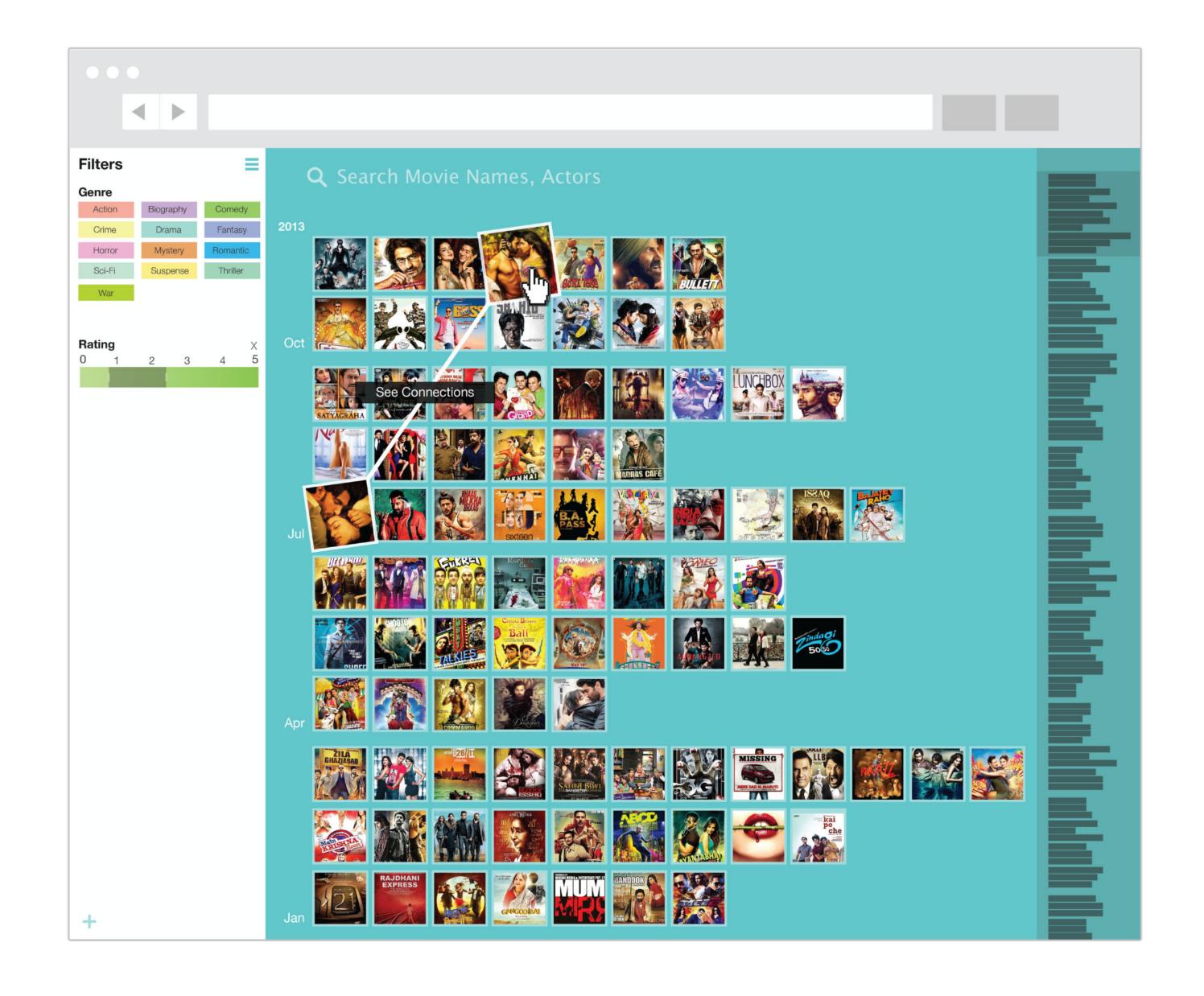


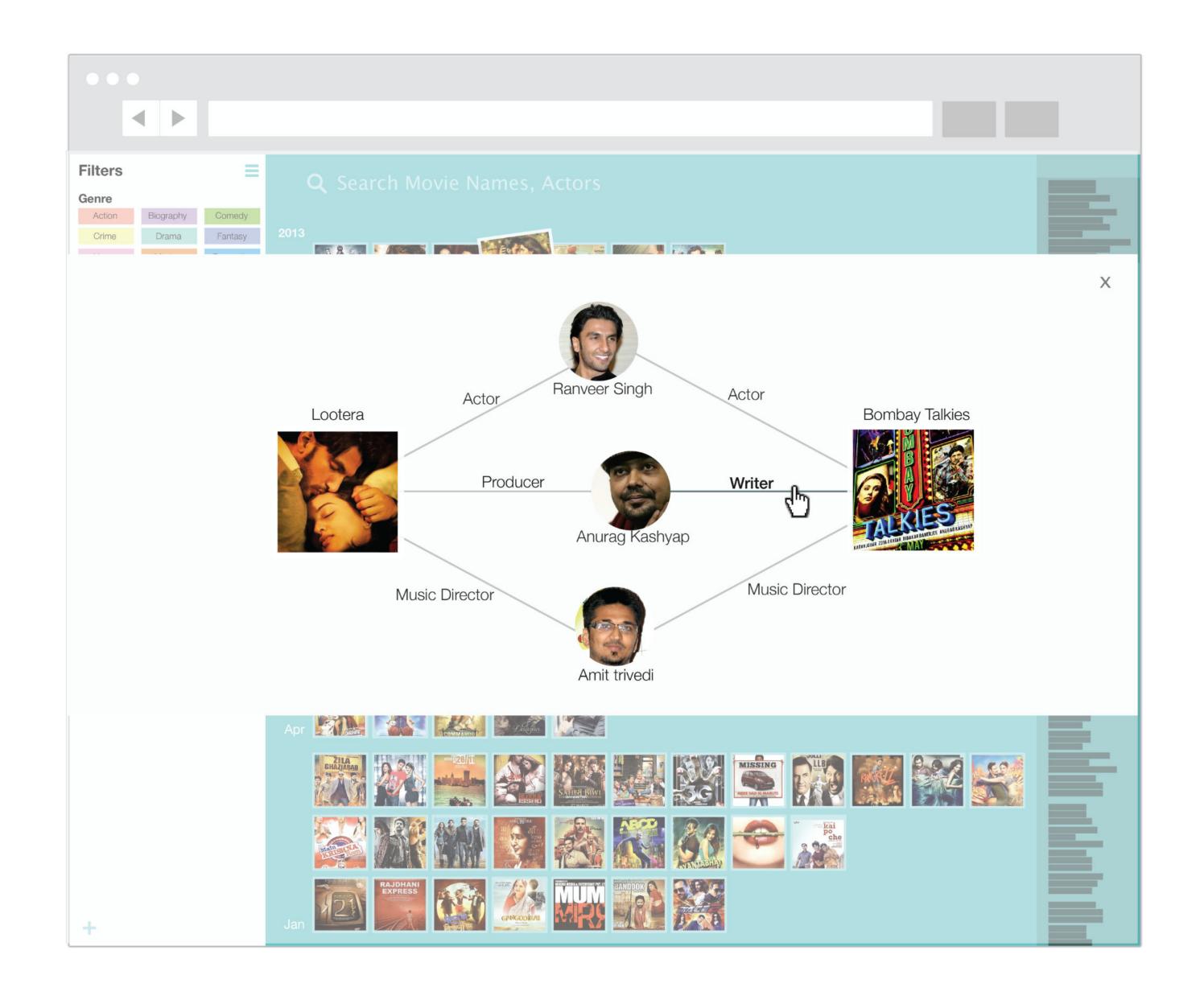


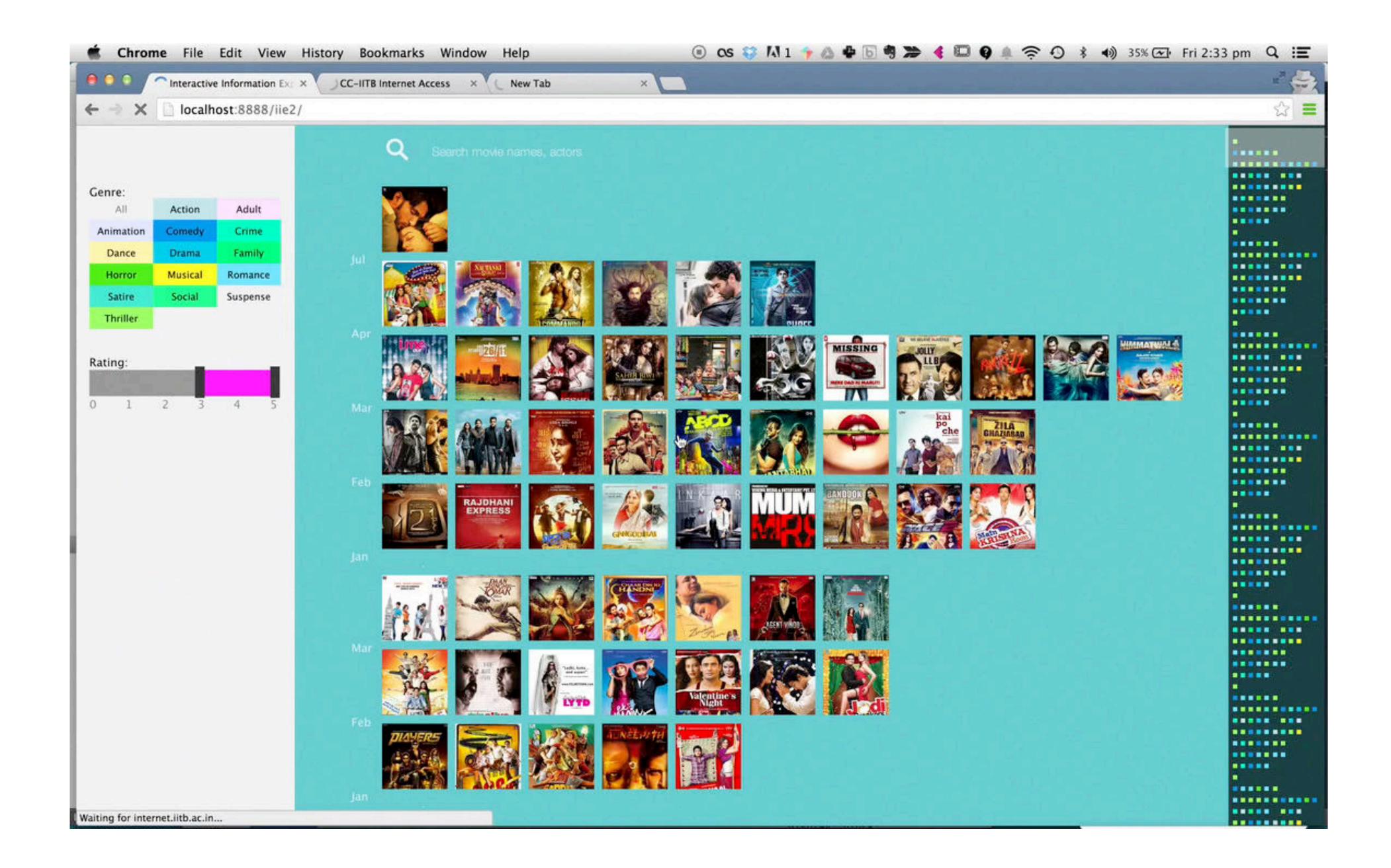
Movie-Movie Connections











Evaluation & Observations

Think Aloud Testing

- 1. 7 users were explained what is IIE
- 2. They are given the tasks (as in walkthrough) & mockups are shown.
- 3. Asked to tell the steps to do the same on IIE & steps are noted
- 4. Asked to carry the task out in their own traditional way & steps are noted



Qualitative Observations

Traditional

Uses Google

Includes opening multiple browser tabs

No structure

Includes typing a lot of times

Includes reading

IIE

Structured steps

Includes clicks & scrolls

Includes less reading

Thumbnails help users

Absence of 'mood' filter disappointed users

Conclusion

- There are scopes for expansion
- IIE reduces human cognitive load while accessing the data
- IIE can be extended to multiple data-set

Enc

Questions & Feedbacks