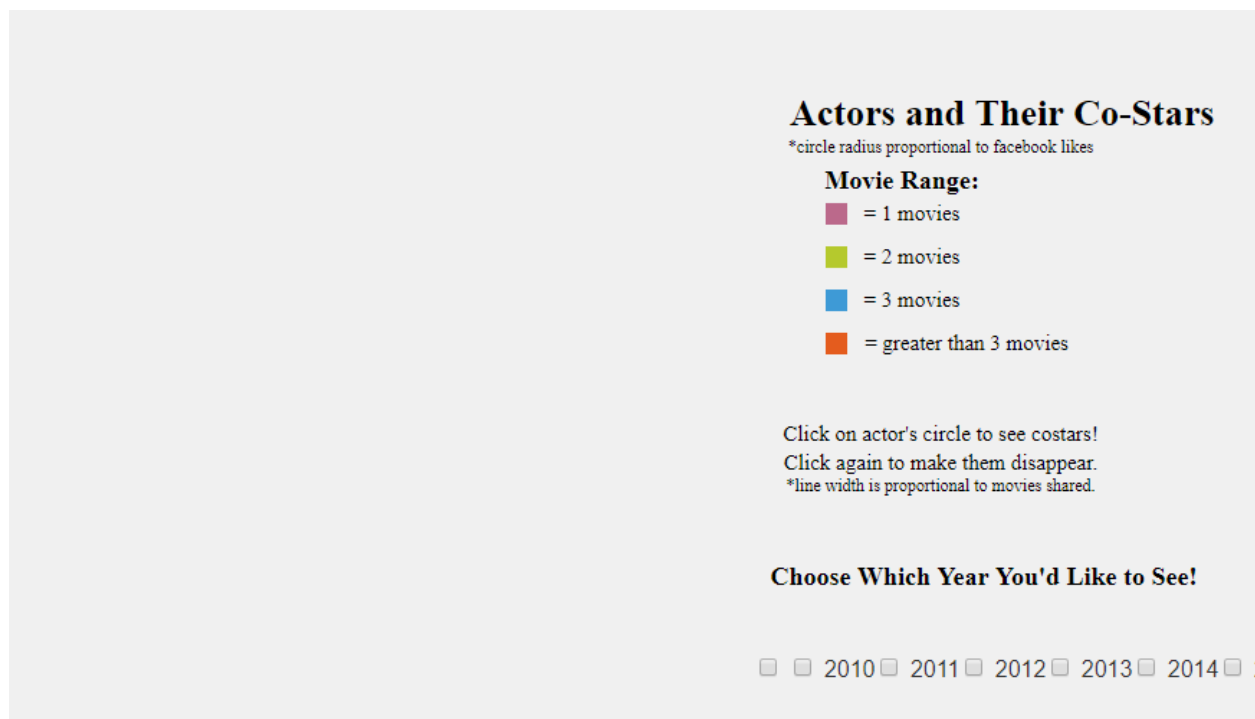**Member Names:** Courtney Rogers, Daisha Braxton
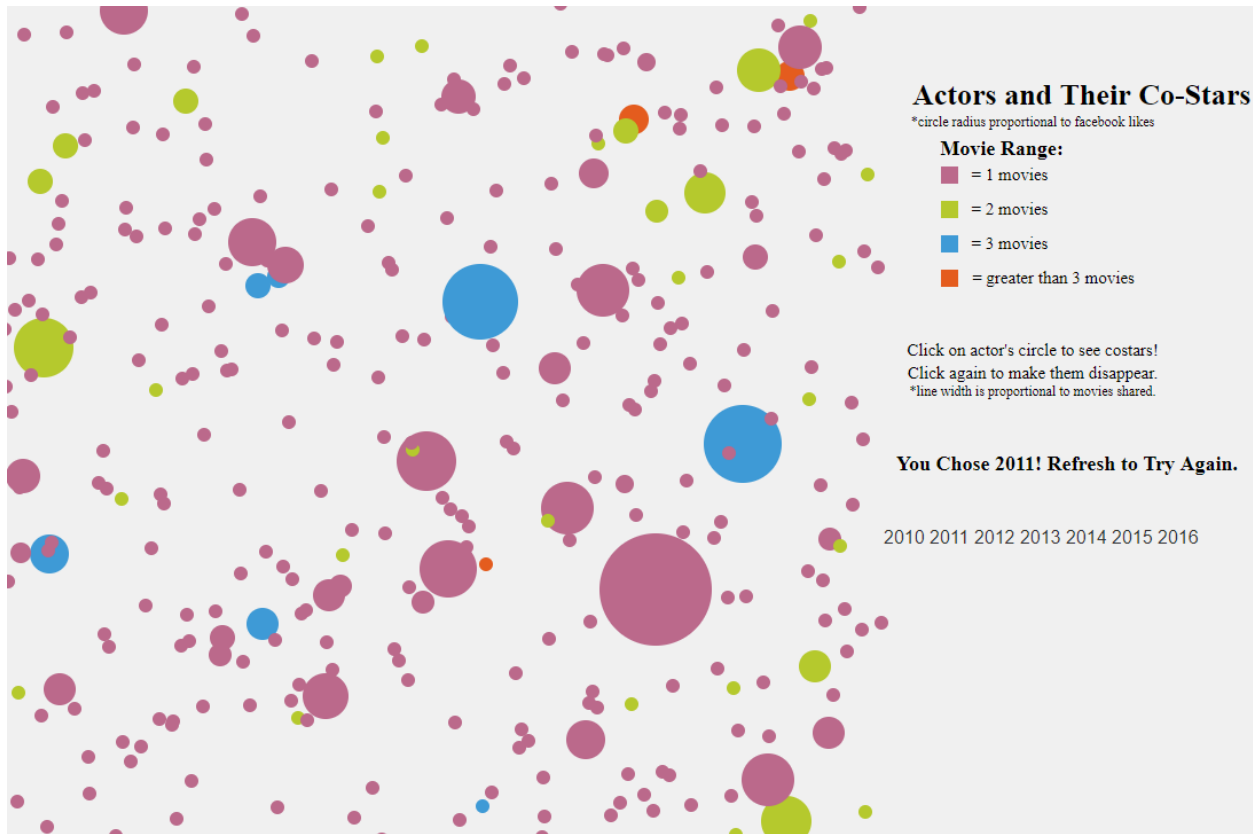
Dataset Chosen: Movies.csv

Analytic Tasks:

Specified Data - Actor popularity based on FB likes & Number of Movies

In our design, we decided to implement a visual that would help answer analytical questions about actors, their popularity, the number of movies starred in, as well as the popularity and movies shared with costars. We first display each actor separately by a color filled circle. Each actor's circle radius is determined and scaled by the number of facebook likes the actor has. Each actor's color corresponds to the number of movies the actor starred in during that year. When hovering over an actor, there is a hover tooltip which displays the actor's name, the number of movies they are in (based off the current year chosen), and the number of facebook likes they have.
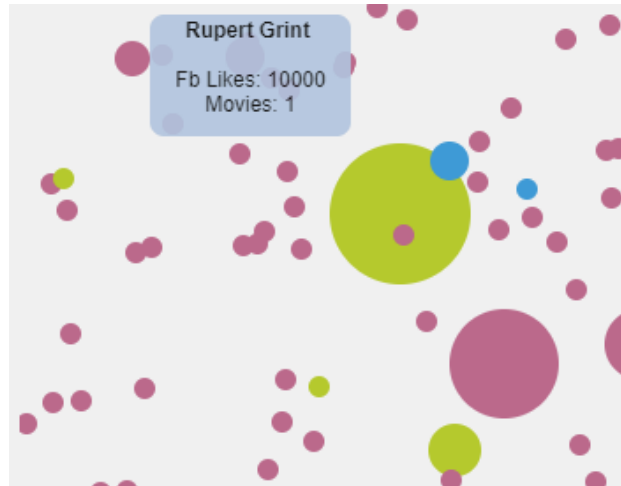
(Visual without interactions/events)

Actors and Their Co-Stars
*circle radius proportional to facebook likes

Movie Range:
= 1 movies
= 2 movies
= 3 movies
= greater than 3 movies

Click on actor's circle to see costars!
Click again to make them disappear.
*line width is proportional to movies shared.

You Chose 2011! Refresh to Try Again.

2010 2011 2012 2013 2014 2015 2016

(visual after selecting a year)

Actors and Their Co-Stars
*circle radius proportional to facebook likes

Movie Range:
= 1 movies
= 2 movies
= 3 movies
= greater than 3 movies

Click on actor's circle to see costars!
Click again to make them disappear.
*line width is proportional to movies shared.

Choose Which Year You'd Like to See!

2010 2011 2012 2013 2014

(Color key/legend and visualization guide)

(Hovering over Rupert Grint)

*"Filtering" - Show costars of a specific actor (when clicked)*

When an actor is clicked, they are linked and connected to the other actors in which they are in the same movie with. The thickness of the link corresponds to the number of movies the actors have in common (this basically displays the selected actor's costars. Unclicking the actor will remove the current links. You can also select a new actor to display it's costars). The hover tooltip also changes depending on the selected actor. When hovering over the selected actor, the tooltip will display the number of co-stars that actor has. If hovering over the selected actor's co-stars, the tooltip displays the number of movies that co-star shares with the selected actor.

(Selection of an actor; links map to their co-stars)
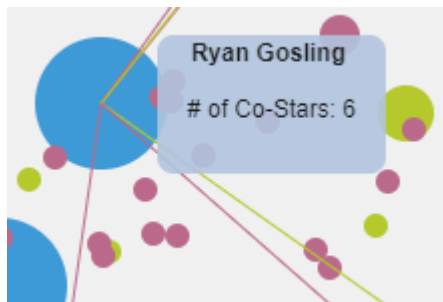
(Hover changes according to the selected actor)
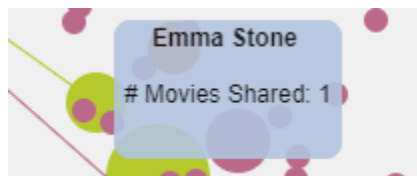
(Hover also changes for the selected actor's costars)

Popularity based on how many movies featured in

In this design we also wanted to convey an actor's popularity by demonstrating circles which radius was determined by number of Facebook likes. With this feature, we hoped to help a user view and compare an actor's popularity in relation to other actors. We believe this would also help a user compare actors that share movies and determine if they have similar/dissimilar popularity on Facebook. One of the challenges of this design feature was ensuring that each actor had its own position in the visual without overlapping or covering the other actors.

Design Overview:

As a starting point, we decided to take the visualization storytelling approach. We decided to base our design around the second style of information visualization which involves "new" technique and visual metaphors. We felt that our design should be one view comprised of multiple components and pieces. Although we only have one view, the user interface allows users to view separate actors, hover over their specific data, as well as click on an actor to view their movie costars. We chose circles/nodes as our main design theme as to resemble the galaxy or stars since we were dealing with data relating to movie stars. To do this, we drew heavy inspiration from nodes and linking design styles. Our nodes served as each individual actor, the radius of each node served as the representation for the number of Facebook likes that actor has, and the links represent that actor's co-stars for a specific film.

Analytical Questions/Communicative Objectives:

Most of our analytical questions in which we based our design involve actor popularity, number

of movies, number of co-stars, and number of movies shared between co-stars.

- Which actors have been in the same movie?

- Are actors with a similar number of Facebook likes in the same movies?

- Which actors have some of the highest numbers of Facebook likes?

- Is budget correlated to rating?

- Does an actor's popularity correspond to movie success (gross revenue)?

- Are popular actors in highly-rated movies?