Modern Interface Design for Film Search Engine

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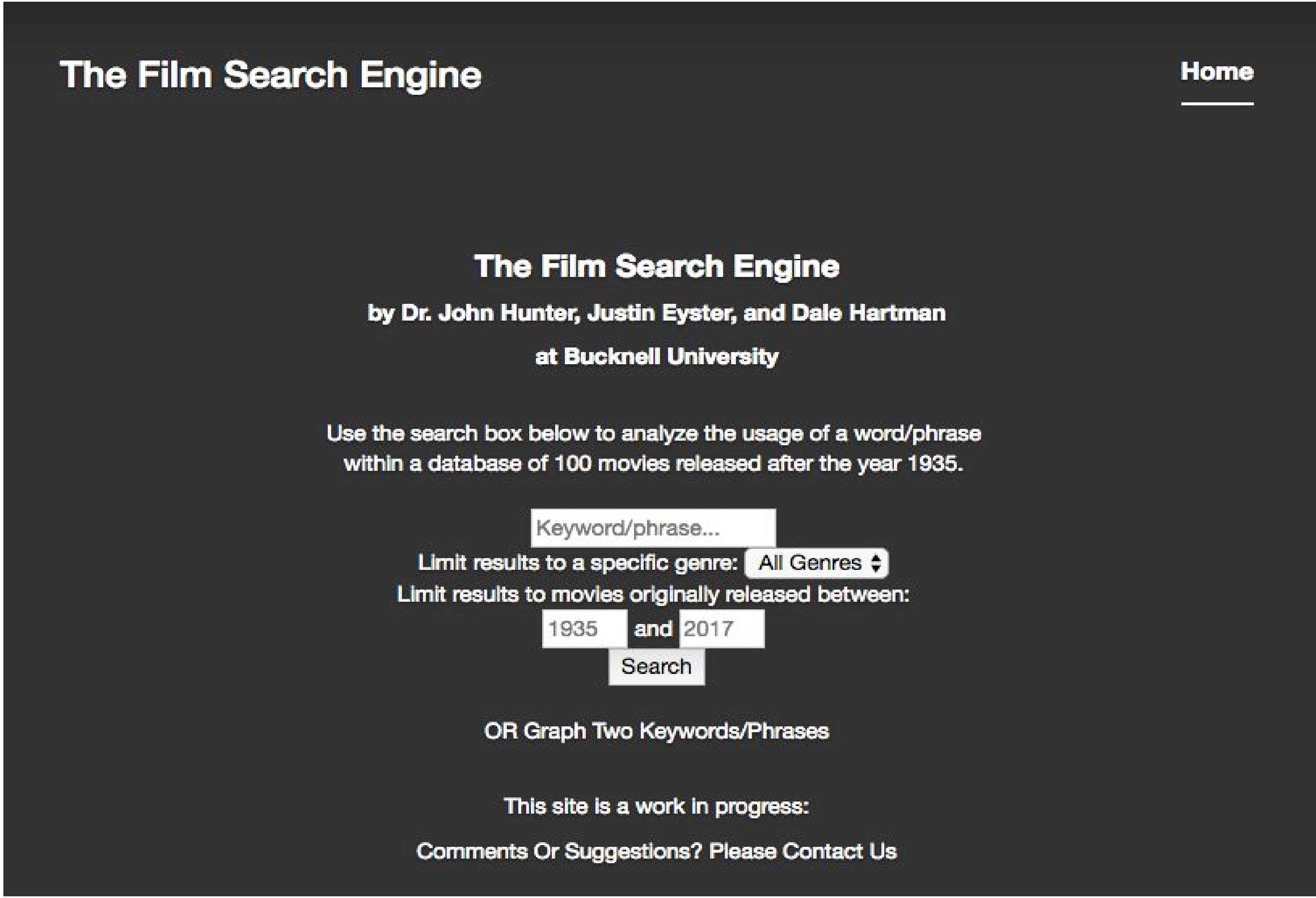
Background

- Studying films can be tedious
- Keyword search of captions can help find relevant scenes
- Finding patterns and analyze films
- Unique search engine for films

Project Requirements

- Streamline output of relevant films
- Improved output of individual films
- Improve the navigation between searches
- Add more features

BEFORE



The Film Search Engine

The Film Search Engine

by Dr. John Hunter, Justin Eyster, and Dale Hartman

at Bucknell University

Use the search box below to analyze the usage of a word/phrase within a database of 100 movies released after the year 1935.

Keyword/phrase...

Limit results to a specific genre: All Genres

Limit results to movies originally released between:

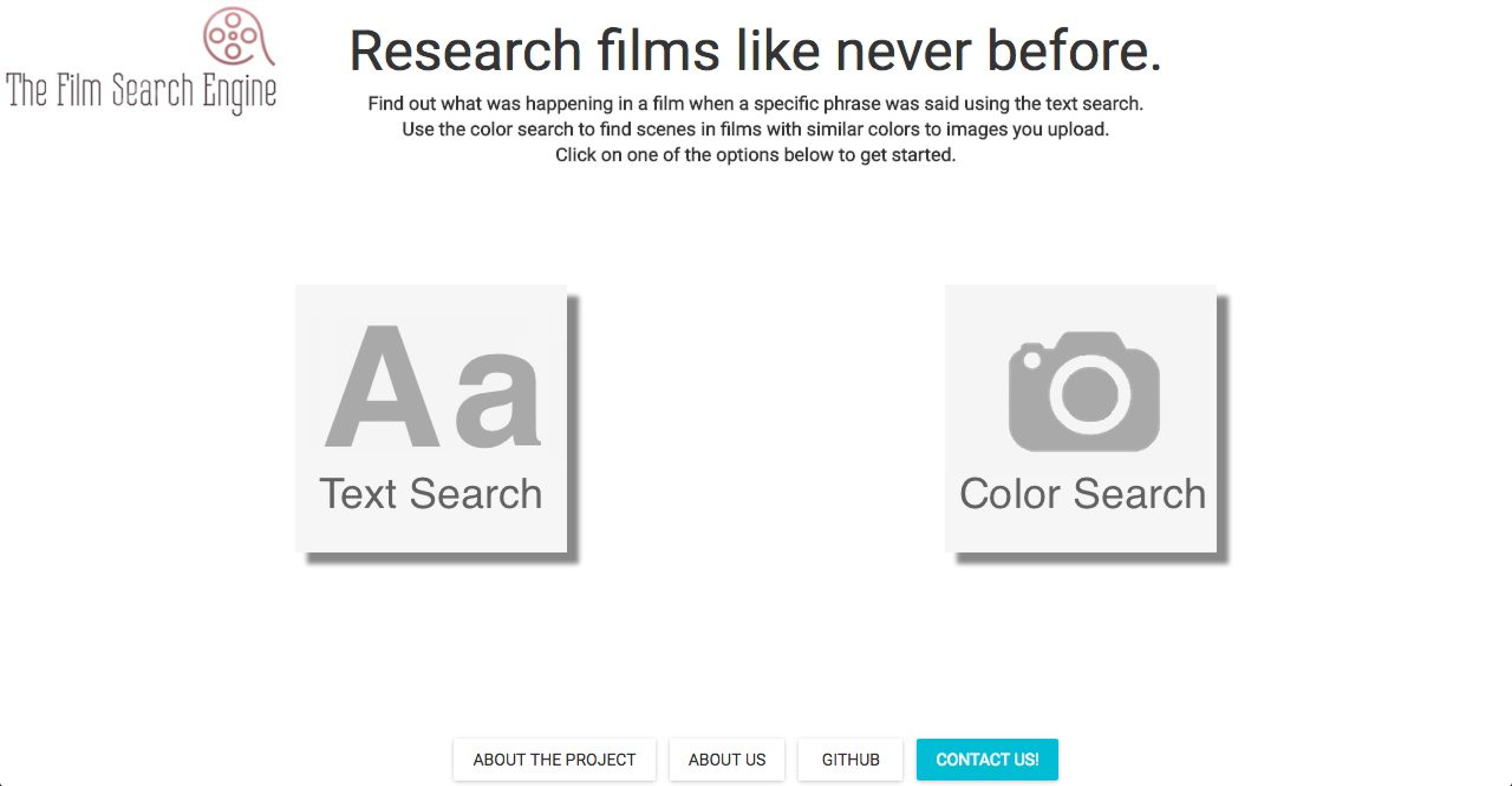
1935 and 2017

OR Graph Two Keywords/Phrases

This site is a work in progress:

Comments Or Suggestions? Please Contact Us

AFTER

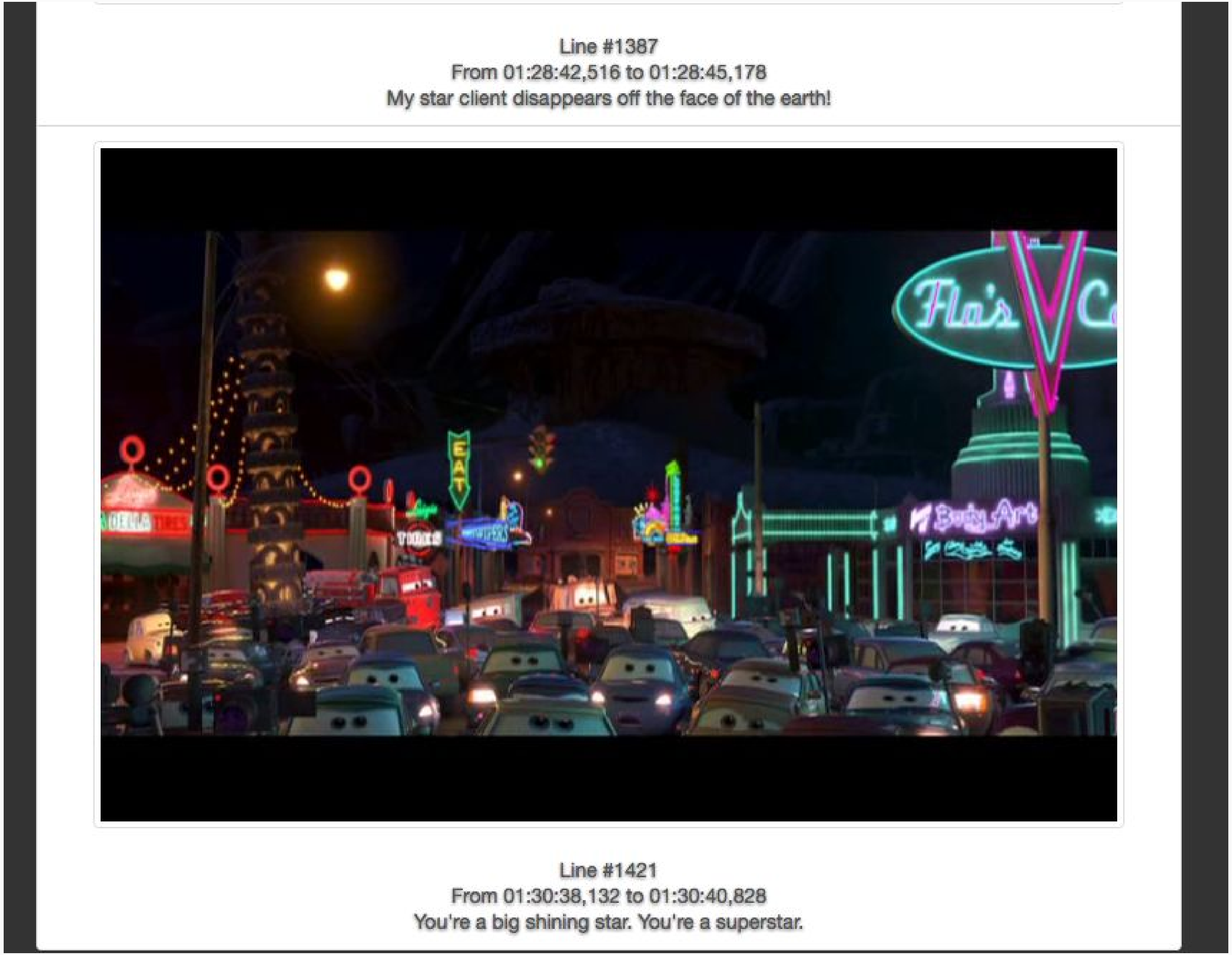


The Film Search Engine

Research films like never before.

Find out what was happening in a film when a specific phrase was said using the text search.
Use the color search to find scenes in films with similar colors to images you upload.
Click on one of the options below to get started.

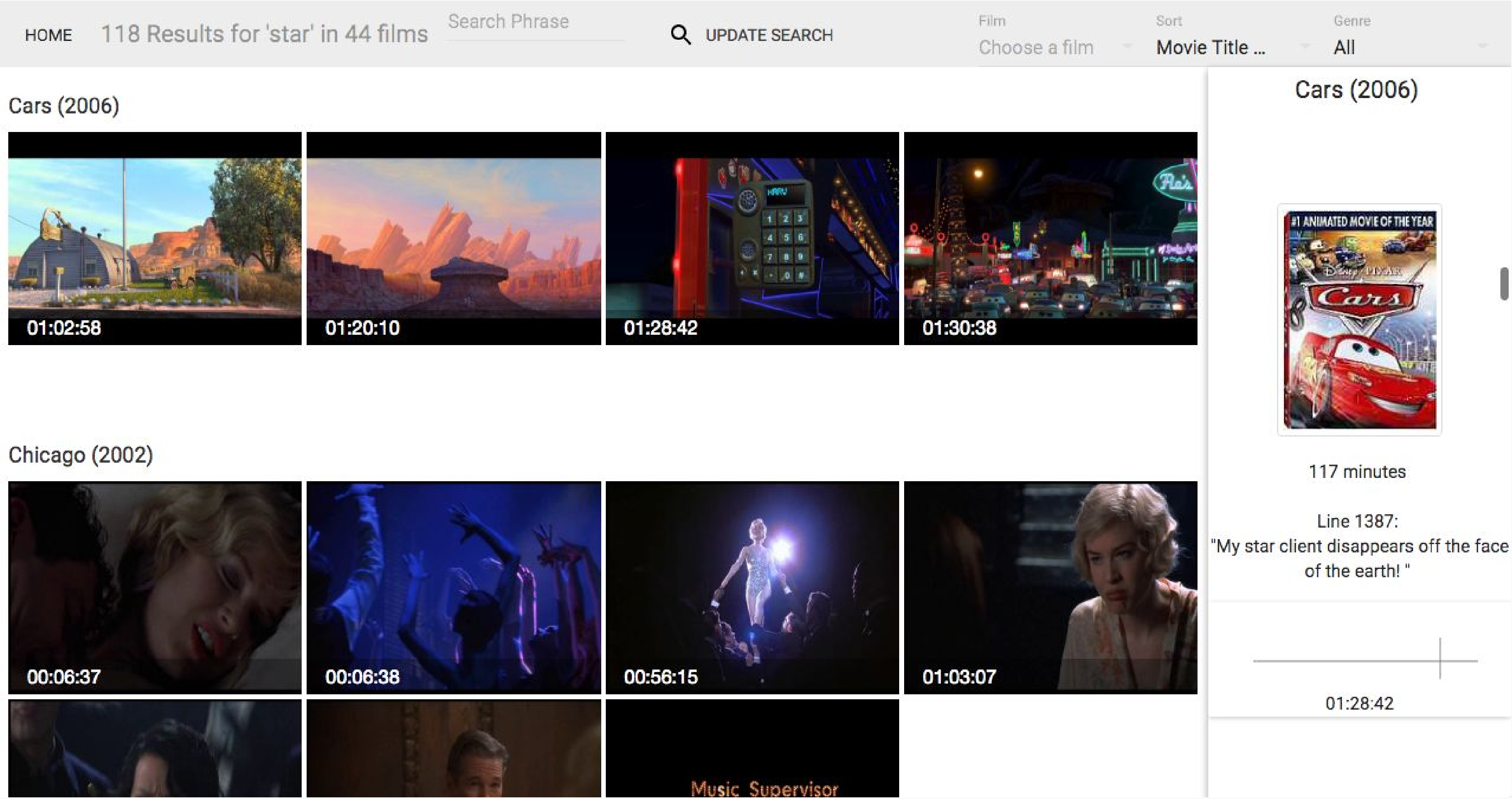
BEFORE



Line #1387
From 01:28:42,516 to 01:28:45,178
My star client disappears off the face of the earth!

Line #1421
From 01:30:38,132 to 01:30:40,828
You're a big shining star. You're a superstar.

AFTER



118 Results for 'star' in 44 films

Film: Choose a film

Sort: Movie Title ...

Genre: All

Cars (2006)

01:02:58
01:20:10
01:28:42
01:30:38

Chicago (2002)

00:06:37
00:06:38
00:56:15
01:03:07

Music Supervisor

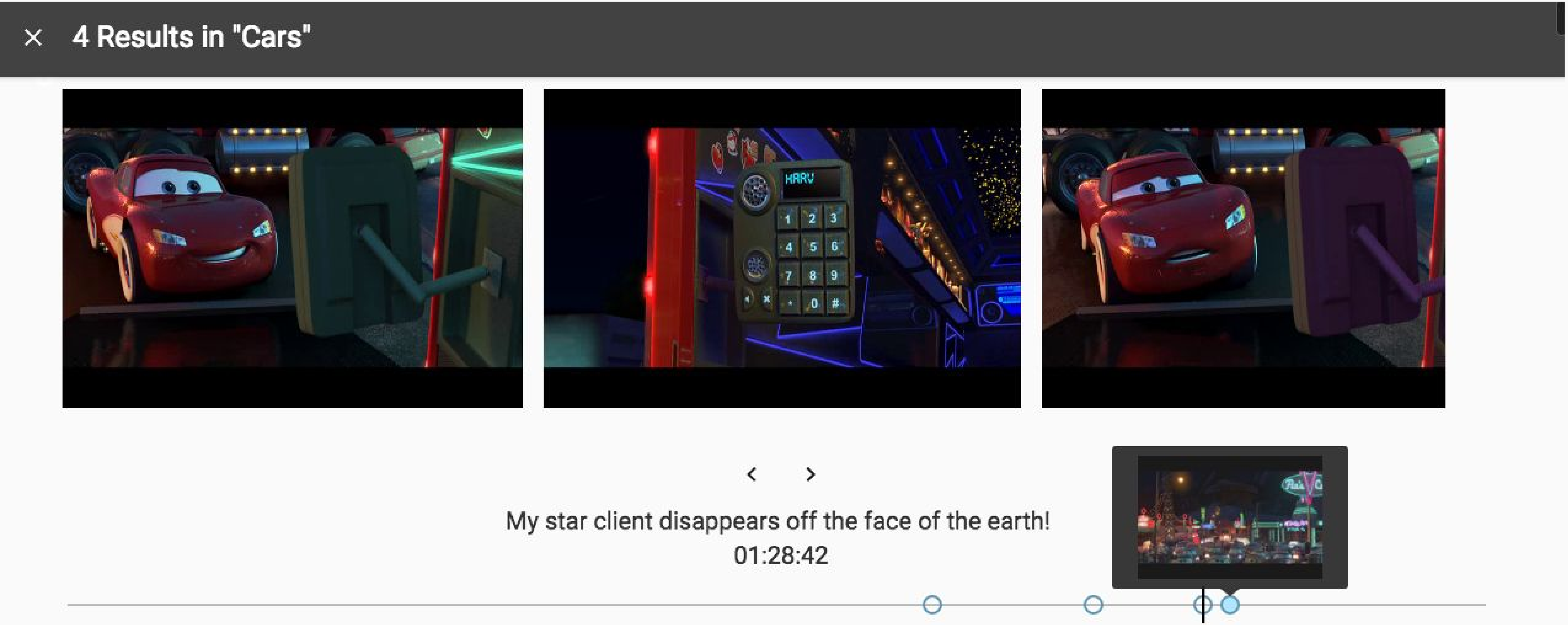
Cars (2006)

117 minutes

Line 1387:
"My star client disappears off the face of the earth! "

01:28:42

AFTER



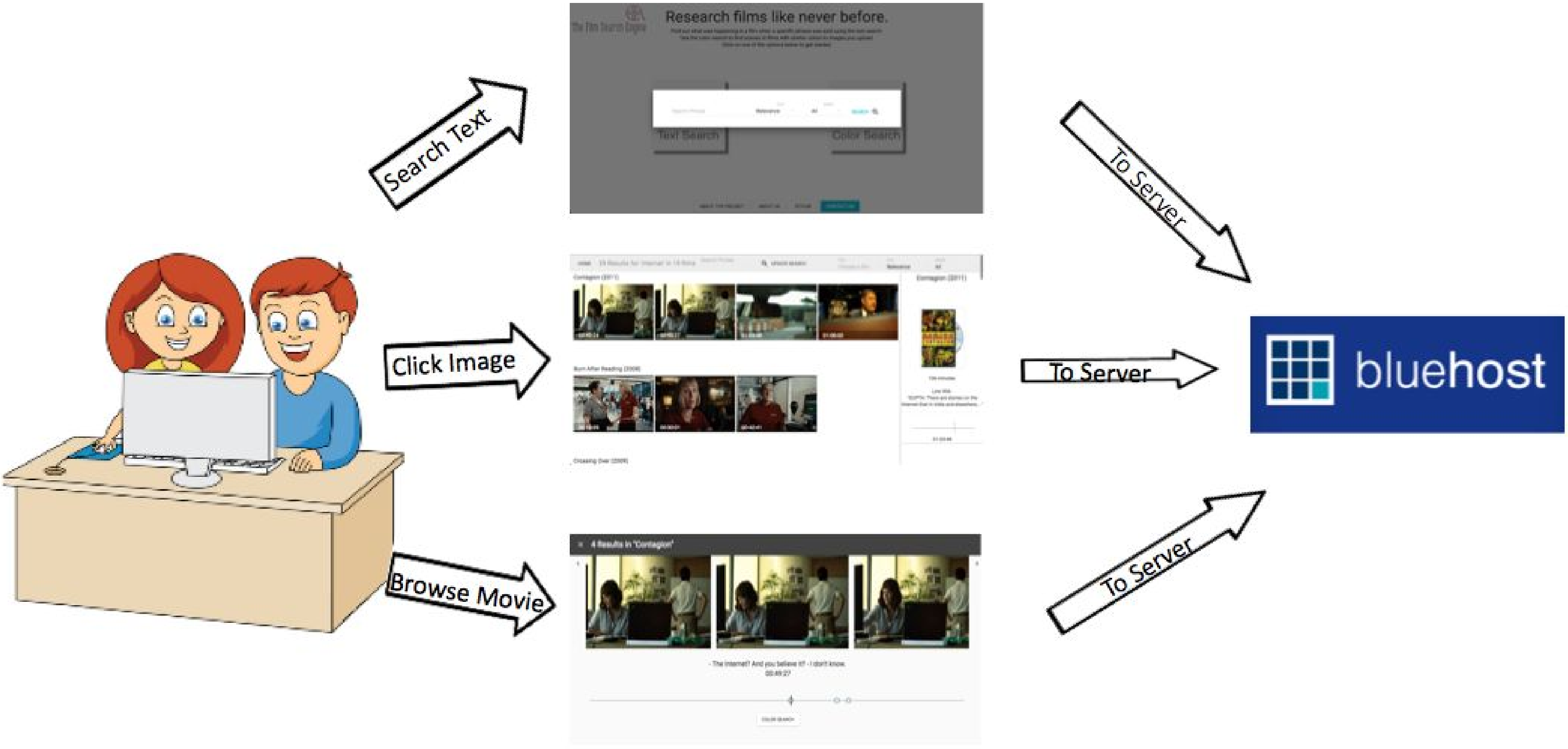
4 Results in "Cars"

My star client disappears off the face of the earth!

01:28:42

Design

- Prototyping Process
    - Paper Prototype
    - Digital Wireframe
- User Interviews
    - Refine design
    - Revealed usefulness of features
    - Revealed flaws in user experience



Search Text

Click Image

Browse Movie

To Server

To Server

To Server

bluehost

Methods

- JavaScript library: React
  - Readable and maintainable code
  - One-way data flow
  - React-Redux to store client-side data

Methods

- Development environment
  - Node Package Manager to install dependencies with a single command
  - Watchify for automatic bundling of our code
  - Browserify and Babel for transpiling React code

The Path Forward

- Implement the color search
- Move the project to AWS
- Add more filter options with scalability
- Have some stats and graphical representation

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THANK YOU!