



Assignment 5 (HF)

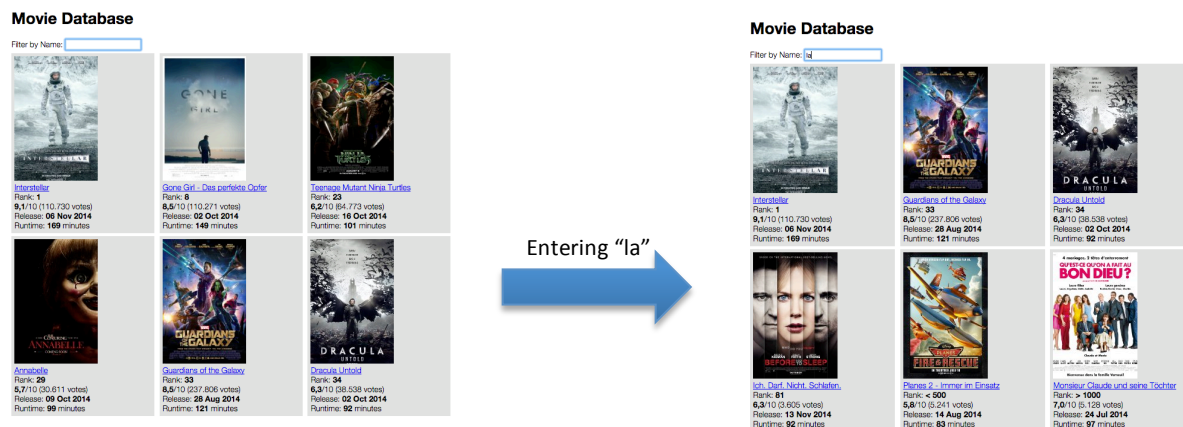
Due: Mon 17.11.2014; 16:00h (1 Week)

Task 1: Movie List Filter

In this assignment, you are asked to enhance a given page that lists a couple of movies. The goal is to add a set of filter functions that allow the user to reduce the set of displayed movies. The filtering is done dynamically with jQuery and jQuery UI.

In the material for this exercise, you find a ZIP archive with a predefined HTML file and the required images. **Note: The password for the ZIP Archive is EmEmEnFourteen15**

An example for filtering by name is shown in the picture sequence below.



Please consider the following requirements for your submission:

- **Namespacing.** Write a function (or object) that includes everything necessary to operate the filters. This function should be your only global that is called when the DOM is ready.
- **Filter Criteria.** Each movie is wrapped into a `div` with the class `movie`. You will find that the first child of such a movie `div` includes a set of (hidden) elements. These elements of type `span` possess the attributes `name` and `data-value`. Use this information for your filters. Allow the user to filter by the following criteria:
 - **Movie name.** Allow filtering by movie name. All movie names containing the entered String should match.
 - **Runtime.** Allow filtering by movies, given range of minutes.
 - **User Rating (optional).** Allow filtering movies by their user rating. Pay attention to the number format (comma instead of dot).
 - **Release date (optional).** Allow the user to filter movies that were released before or after a certain date. Pay attention to the date format in the `data-value` attribute (YYYYMMDD).



- **Widgets.** Pick suitable jQuery UI widgets for your filtering user interface. You could use the following:
 - The **autocomplete** widget for the name filter. You will need to create an array containing all movie names first – do this by traversing the DOM.
<http://api.jqueryui.com/autocomplete/>
 - **Slider** widgets for the user rating and runtime. The slider widget supports a lower and upper threshold.
<http://api.jqueryui.com/slider/>
 - A **datepicker** widget for the release date.
<http://api.jqueryui.com/datepicker/>
- **Visual Feedback (optional).** Use effects and/or animations to provide visual feedback whenever a filter is applied. For example, the movies that do not match the filter criteria could show a fade out animation. Also, you could highlight the part of the movie titles that was matched (advanced).

Further notes:

- Please make sure to comment your code sufficiently to facilitate correction of your submission.
- Incomplete submissions are welcome. However, please make sure to include a “README” text file to tell us how far you have come.