# UI Test

We have provided an HTML page with some JavaScript code which shows a view of our search refinements control. The JavaScript is an example of some legacy code which currently only supports the refinement panels and facets in this specific HTML.

## CSS

There is no CSS code provided. Please write the appropriate CSS to make the refinements panel display as per the attached screenshot.

## JavaScript

The JavaScript currently enables three key features:

1. Individual facets can be selected and de-selected by the user by clicking on the various checkboxes. When a panel has any number of facets selected, a “clear” button needs to be shown. When any panel has any facets selected, a “clear all” button needs to be shown at the top of the refinements controls.
2. Clicking the “clear” button for a specific panel deselects all the facets in that panel and hides the “clear” button. Clicking the “clear all” button deselects all facets across all the panels and hides all the “clear” and the “clear all” buttons.
3. When a user lands on the search results page, sometimes the URL has selected facets serialised as part of the query string, the refinements controls need to be updated by deserialising that data and selecting the appropriate facets.

Your job is to refactor this code to make it scalable, more general purpose and better performing. At the end of this task, the code should support the following features:

* Any number of refinement panels with any names
* Any number of facets with any names displayed in any order

## Useful information

You may use any CSS libraries and tools, and any JavaScript libraries and testing frameworks you like but be prepared to justify your decisions.

Any of the supplied JavaScript code can be changed or removed.

The HTML code is designed to be SEO compliant. You may change the HTML but it must remain as SEO compliant as it currently is.

The code you write need only support your browser of choice, just let us know which browser you used.

If any setup steps or tasks are needed to run your code, please provide detailed instructions.

Here is an example querystring that is formatted in the way we would like and must work with your solution to feature number 3 above:

?refine=size:4,10,16|base\_colour:1,4|brand:53,3392,12767