

1. Please provide one paragraph summarising the user experience.

The first thing I realised is the lack of intuitivity of the page, it confuses the user because the labels doesn't provide enough information and there's too much redundancy in the interface controls. The left menu doesn't make clear enough that the title labels are indeed links to the different sections of the application. Some forms are too large because it's controls appears repeatedly, for example in the *Attributes* section when a user selects *Homologues* and tries to select *orthologues* appears a serie of list with radio buttons for each specie completely expanded that dificults the navigation and the search of the specie of interest. Moreover every time the user selects an option seems that the whole page is reloaded making the application slower. Finally, a lot of controls seems to be disarranged producing a feeling of general disorder.

2. Identify which three things you would alter to improve the user experience and briefly summarise how you would change them and why.

As the natural workflow of BioMart is following the same order that is displayed in the left menu, I would add a button at the bottom of each form of the application that jumps to the next section. I would apply this improvement in order to design an 'one way' scheme that simplifies the navigation.

The left menu of the application isn't clear enough, the section links doesn't seem to be clickable and it doesn't remarks well enough the current section. So I would change the design, first adding a 'bullet' image next to the titles, just like the button in the expandable views, to manifest the function of this control, and second changing the color of the selected section with the purpose of clarify where is the user located.

The tree buttons at the top of the menu are placed in the same horizontal element that the buttons placed at the center of the screen (URL, XML, Perl and Help) while this two groups of buttons are completely unrelated. Since the first group is directly related to the actual query I would place it inside the same box as the left menu at the top, while I would place the other group at the right of the screen because their functions aren't relevant during most of time working with BioMart and they shouldn't occupy a central position. This changes would help to clarify what elements of the application are most related.

3. Sketch or mock-up an alternative to the page below:

You can find my mock-up in the following page or, if you want to look a it better, in the [GitHub repository](#).

NewCountResults

Dataset

- Human genes (GRCh38.p12)

Filters

- [None selected]

Attributes

- Genes stable ID
- Transcript stable ID

Dataset

- [None selected]

Ensembl Genes 95

Human genes (GRCh38.p12)

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