Tutorial

1. First of all, it’s necessary to wrote a BED format file containing all the regions and organized as follows:
2. Open Galaxy and create a new History (or choose a saved one). Then you have to load up the BED file containing the regions: click on “Load your own data” in the “History” column on the right. In the with windows appeared, click on “Choose local file”” and in the next window (named “Open”), select the file from your computer/external memory and then click on “Open” button.

Now the selected file is displayed in the with textbox: in the same row, specify the type of file (in this case select “bed” from the menu in the “Type” column) and then specify the type of genome (in this case select the assembly “Human Feb. 2009 (GRCh37/hg19)(hg19)” from the menu in the “Genome” column).

Finally, click on “Start” to load up your file definitively and wait until the “Status” bar becomes green. When the file is completely and successfully loaded up, all the row is highlighted in green: click on “Close” button to close this window.

1. Now the loaded file appears as the first job in the “History” (the job title should be highlight in green if it is loaded correctly).
2. A this point the regions contained in the dataset have to be sorted according to the chromosomes. To do this, in the blue column named “Tools” on the left, search for “Filter and Sort” and click on it; then click on “Sort data in ascending or descending order”.
3. In “Sort dataset” textbox, choose from the menu the name of the dataset you have just loaded up. Then, in “on column” textbox, choose the number of the column named “Chr” of your file (the column containing the chromosome references, usually it is the first column: “c1”).

After that, in “with flavor” textbox, select “Alphabetical sort”.

Finally, in “everything in” textbox select “Ascending order” and then press “Execute” button.

1. A new job appears in the “History” column, automatically named “Sort on data 1” (it is possible to change its name by clicking on the *pencil icon* on the right, near the job title, in the “History”).