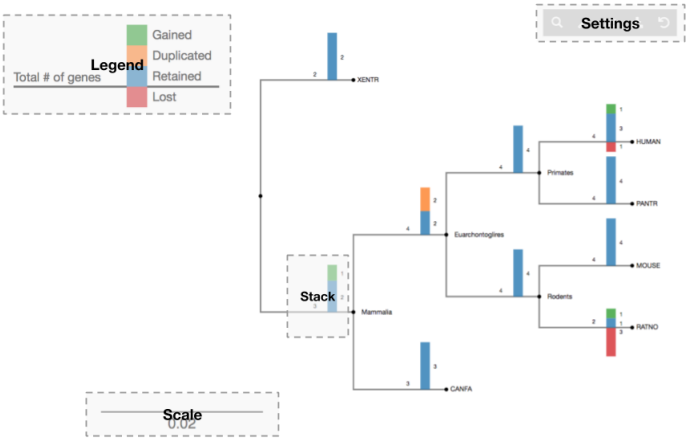
Tree profile help



Tree Profile organisation

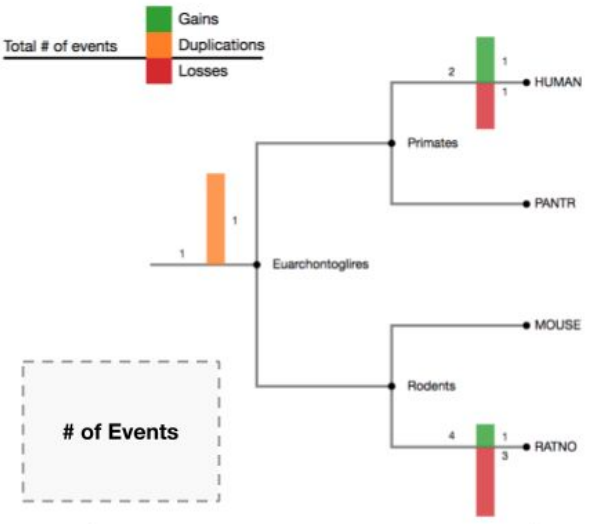
The tree profile consists of a species tree annotated with a **Stack** displaying phylogenetic information (*see following section*) with its related **legend** and **scale**. In addition, **settings** are present to customise the visualisation (*see last section*).

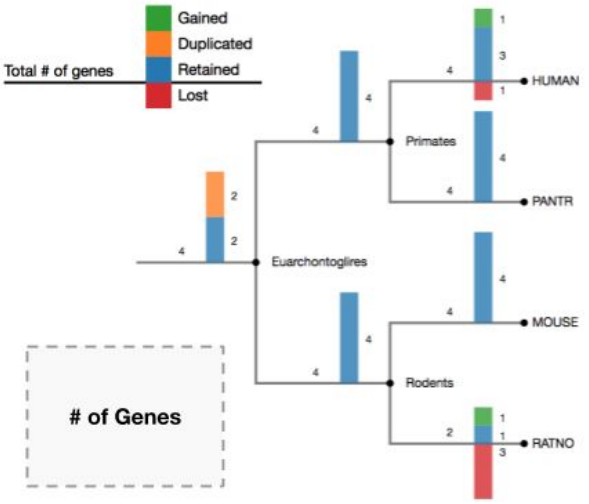
Genes vs Events

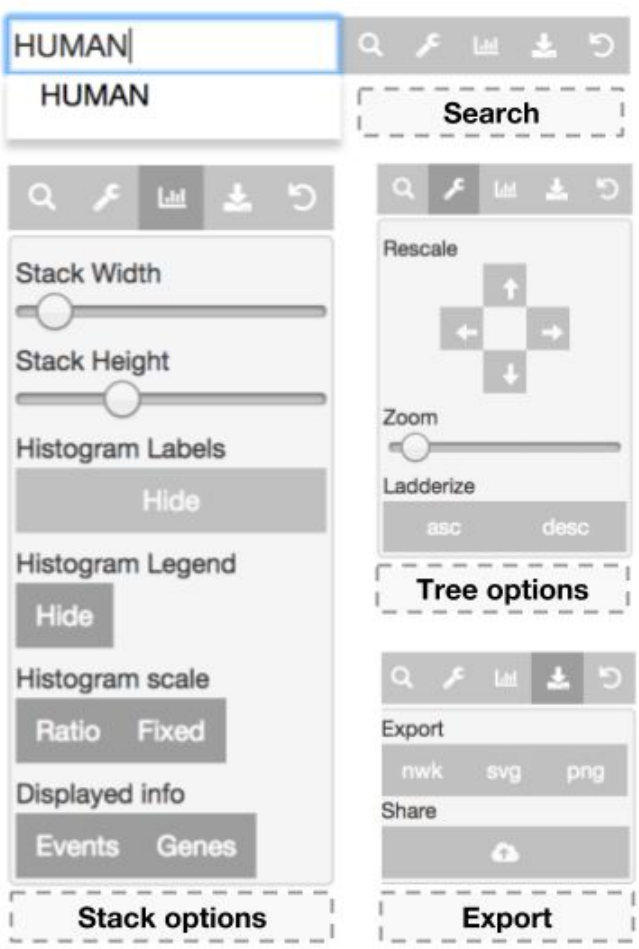
For each node of the species tree, the tree profile provides graphical visualisation of the phylogenetic context using either a gene centric view or either a phylogenetic event centric view.

The **phylogenetic event centric view** (*top*) focuses on all phylogenetic events that occured along a branch leading to a taxonomic level of interest. It displays the total number of events phylogenetic (number to the left of the histogram bar) and the number for each type of event (each cell of the histogram bar is colored according to the legend).

The **gene centric view** (*bottom*) focuses on all genes that belong to the genome at a level of interest. For leaves, we count genes in extant genomes while for internal nodes we count ancestral genes (HOGs) in ancestral genomes. It displays the total number of genes (number at the left of the histogram bar) and the number of genes resulting from each of the evolutionary event on that branch (Gained, Duplicated, Lost) or not (Retained). The number of genes in a genome should be equal to the number of gained, duplicated and retained genes.







Tree Profile settings

The tree profile settings are organised into 5 tabs:

- **Search:** find a species using its name.

- **Tree options:** rescale the tree (making it taller/wider or smaller/narrower), change the zoom level and change the ladderize mode.

- **Stack options:** modify the size of the stacks, display and hide information, select the histogram scale between Ratio (all stacks have same height) or Fixed (stack size is normalized on the biggest stack), or switch between Events and Genes stack display.

- **Export:** export the view as newick, svg or png.

- **Undo:** revert the last action.