Branch score style

Version 1.0.0, by Giorgio Bianchini

Description: Sets the plot actions to display node scores using the branch colours.

Module type: Action

Module ID: `10bbbbe1-c634-4582-9073-11f067a54081`

This module sets up plot action modules to display branch scores. It can be useful e.g. to highlight BLAST scores on the tree. If the scores are assigned to the tip nodes, you may want to use the *Propagate attribute* module to propagate the scores up to the root node.

Further information

When this module is activated (either by clicking on the button in the UI, or by enabling in the command line), the user is asked to select the attribute used to highlight the branches and the range of values. This range is divided into the specified number of intervals, with every interval being assigned a colour and representing a "layer": each branch is then highlighted with all the colours corresponding to the intervals assigned to values lower than its score.

As a result, branches with low scores will be highlighted only in few colours, corresponding to the left-end side of the selected gradient, while branches with high scores will be highlighted with many colours spanning the whole gradient.

The module also adds a legend to the tree plot; this is generated as an SVG image, attached to the tree, and drawn using the *Draw image* module. If you wish to make alterations to this legend image, you can export it from the attachment list. Each activation of this module will create a new attachment; therefore, if you activate the module multiple times you may want to delete the legends created by previous instances (in any case, these just take up space and do not interfere with the working of the program).

Here is an example of a tree drawn using the style resulting from using this module:

42.4 ▮▮▮▮▮ 500
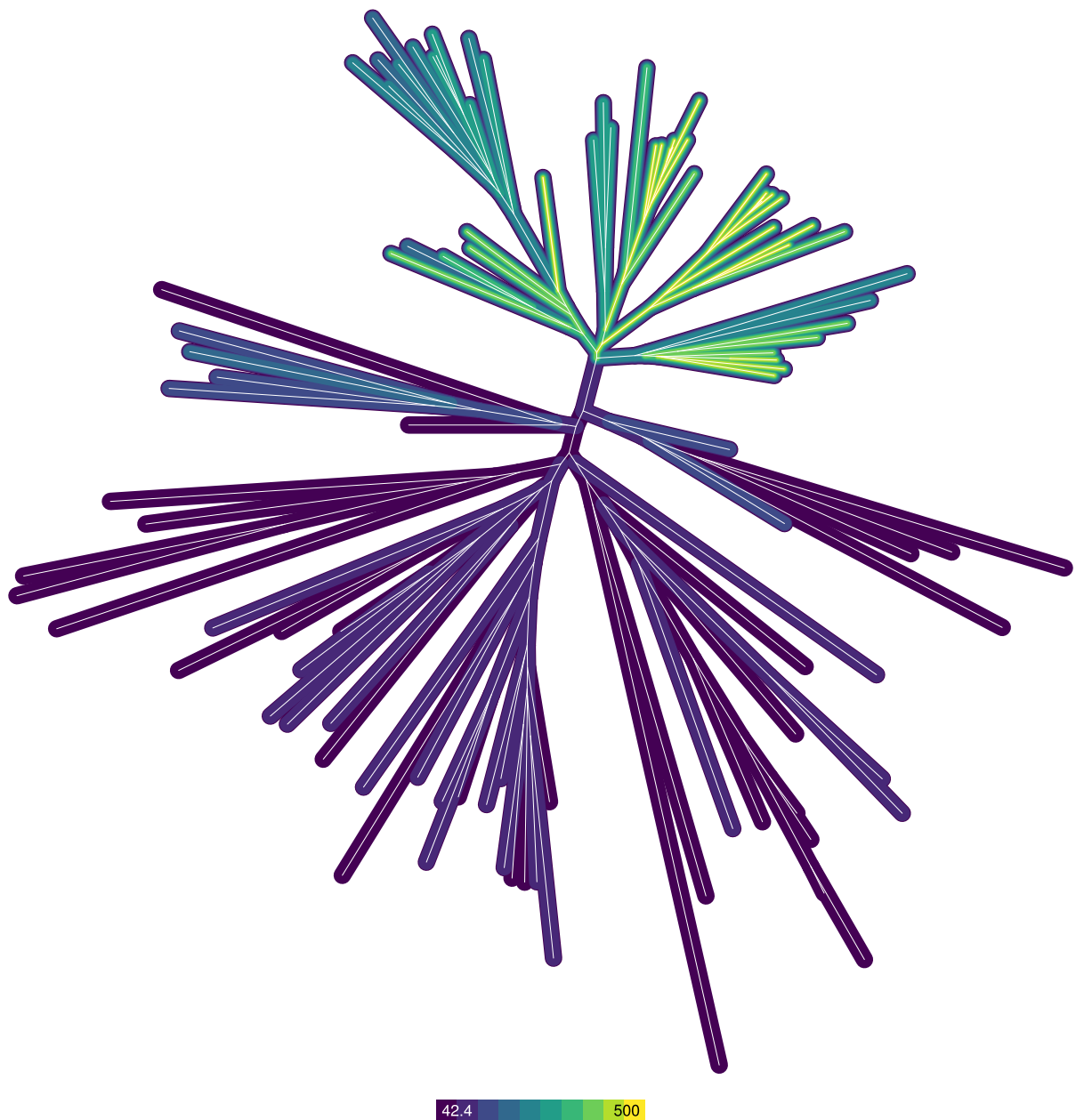
The branches in the bottom part of the image have low scores and are highlighted only using the first few colours of the gradient, while the branches at the top of the tree have higher scores and are highlighted with multiple concentric colours.