

Highlight node

Version 1.0.0, by Giorgio Bianchini

Description: Highlights a single node in the tree.

Module type: Plotting

Module ID: 64769664-d163-4fce-b7ba-18fd9445fcfb

This module adds a shape highlighting a node in the tree. The shape is a rectangle if the tree is drawn using rectangular coordinates, or a "wedge" if the tree is drawn with circular coordinates. If the tree is drawn using radial coordinates, the shape of the highlight either follows the positions of the leaves that descend from the selected node, or their convex hull.

If you wish to highlight multiple nodes at once, the *Highlights* module (id 28e76a57-6930-4c49-974c-639c104dc4ba) might be more appropriate.

Parameters


Node

Control type: Node

This parameter determines the node that is highlighted. If only a single node is selected, that node is highlighted. If more than one node is selected, the highlighted node corresponds to the last common ancestor (LCA) of all of them. Nodes are selected based on their `Name`.

Stroke colour

Control type: Colour

Default value:  #000000 (opacity: 0%)

This colour is used to stroke the outline of the highlight.

Stroke thickness

Control type: Number spin box


Default value: 1

Range: [0, +∞)

The thickness of the outline of the highlight.

Line dash

Control type: Line dash


Default value: 

- *Units on:* 0
- *Units off:* 0
- *Phase:* 0

The line dash to use when drawing the outline of the highlight.

Fill colour

Control type: Colour

Default value:  #80B9B9 (opacity: 100%)

This colour is used to fill the highlight.

Left

Control type: Number spin box

Default value: 5

Range: ($-\infty$, $+\infty$)

The left margin of the highlight. If the tree is drawn using circular coordinates, this is the margin on the inner radius.

This setting has no effect if the tree is drawn using radial coordinates.

Top

Control type: Number spin box

Default value: 5

Range: ($-\infty$, $+\infty$)

The top margin of the highlight. If the tree is drawn using circular coordinates, this is the margin on the start angle.

This setting has no effect if the tree is drawn using radial coordinates.

Right

Control type: Number spin box

Default value: 5

Range: ($-\infty$, $+\infty$)

The right margin of the highlight. If the tree is drawn using circular coordinates, this is the margin on the outer radius.

This setting has no effect if the tree is drawn using radial coordinates.

Bottom

Control type: Number spin box

Default value: 5

Range: ($-\infty$, $+\infty$)

The bottom margin of the highlight. If the tree is drawn using circular coordinates, this is the margin on the end angle.

This setting has no effect if the tree is drawn using radial coordinates.

Mode

Control type: Drop-down list

Default value: Convex hull

Possible values:

- Leaf points
- Convex hull

Determines the algorithm used to draw the highlight in a tree drawn using radial coordinates. If the selected value is `Leaf points`, the highlight path tightly envelopes the descendants of the selected node and it is not possible to specify a margin (because the path may not be convex). If the selected value is `Convex hull`, the convex hull of the coordinates of all the points that descend from the selected node is used instead. In this case, it is possible to specify a margin.

This setting has no effect if the tree is not drawn using radial coordinates.

Margin

Control type: Number spin box

Default value: 5

Range: [0, $+\infty$)

The margin to use when highlighting the convex hull of the descendants of the selected node in a tree drawn using radial coordinates. This parameter is not available if the tree is not drawn using radial coordinates, or if the [Mode](#) is set to `Leaf points`.

This setting has no effect if the tree is not drawn using radial coordinates.

Margin balance

Control type: Slider

Default value: 0.50

Range: [0.00, 1.00]

This parameter determines the balance of the margin applied to the convex hull. If the value of this parameter is 0.5, the same margin is applied to the root side of the node and to the leaf-side of the node. If this value is < 0.5 , a higher margin is applied to the root side of the node than to the leaf side. If the value is > 0.5 , a higher margin is applied to the leaf side of the node than to the root side. Changing this parameter is useful e.g. if you want to have a large margin towards the tips of the tree, but a smaller margin at the position of the selected node itself (maybe because there are other branches close by that could cause confusion).

This setting has no effect if the tree is not drawn using radial coordinates.