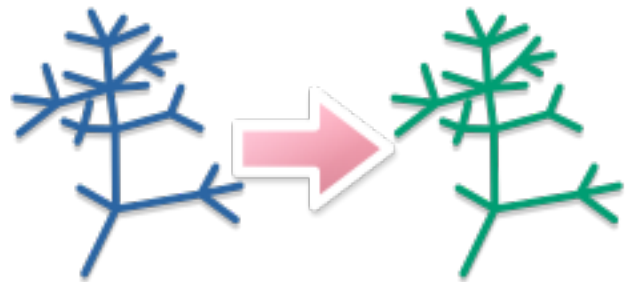# Reroot tree

Version 1.1.0, by Giorgio Bianchini

Description: Re-roots the tree using the specified outgroup.

Module type: FurtherTransformation

Module ID:
`c6f96861-11c0-4853-9738-6a90cc81d660`

This module is used to re-root the tree using a specific node as the outgroup.

Parameters

Rooting mode

Control type: Drop-down list

Default value: Outgroup

Possible values:

- Mid-point
- Outgroup

This parameter determines the algorithm used to re-root the tree. If the selected value is `Mid-point`, the root of the tree is determined automatically as the point halfway between the two most distant tips. If the selected value is `Outgroup`, the root of the tree is determined by the user-selected outgroup.

Outgroup

Control type: Node

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

Position

Control type: Slider

Default value: 50 %

Range: [0 %, 100 %]

This parameter determines which proportion of the branch on which the root is placed is ascribed to the outgroup and which proportion to the ingroup. If the value is `0%` , the outgroup has branch length 0 and the ingroup's branch length corresponds to the original length of the branch on which the root is placed; if the value is `100%` , the ingroup has branch length 0 and the outgroup's branch length corresponds to the original branch length.