Compute node ages

Version 1.0.0, by Giorgio Bianchini

Description: Computes node ages.

Module type: FurtherTransformation

Module ID: `70ea5221-9faf-4792-b428-5fee9aa1a001`

This module computes the ages of nodes, based on the branch lengths in the tree. The ages can be computed either as a distance from the root of the tree, or as the distance in time from the most recent tip of the tree.

Parameters

Age type

Control type: Drop-down list

Default value: Until tips

Possible values:

- Until tips
- Since root

This parameter determines the kind of age that is computed.

If the value is `Since root`, the age of each node corresponds to the distance d (as in, the sum of branch lengths) from the node to the root of the tree; in this case, the root node would have an age of `0`.

If the value is `Until tips`, first the total length l of the tree from the root node to the most distant tip is computed; then, the age of each node is $d - l$. In this case, if all the tips of the tree are contemporaneous, they will have an age of `0`.

Attribute

Control type: Text box

Default value: Age

The name of the attribute in which the age of the nodes is stored. If an attribute with the same name already exists, its value will be replaced by this module. The type of the attribute will be `Number`.

Apply

Control type: Button

This button applies the changes to the values of the other parameters and triggers a redraw of the tree.