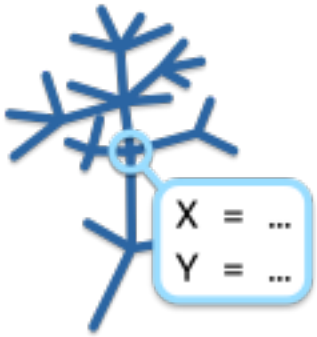
Radial

Version 1.0.0, by Giorgio Bianchini



Description: Computes the coordinates for a radial tree.

Module type: Coordinate

Module ID: `95b61284-b870-48b9-b51c-3276f7d89df1`

This module computes coordinates for the nodes of the tree in a "radial" style. The root node of the tree is placed at the center of the tree, and branches expand from it in a way that makes sure they do not intersect with each other.

For the default value of the parameters below, let n be the number of taxa (i.e. leaves) in the tree.

Parameters

Width

Control type: Number spin box

Default value: 14 $\cdot n$

Range: [0, +∞)

This parameter determines the width of the area covered by the tree.

Height

Control type: Number spin box

Default value: 14 $\cdot n$

Range: [0, +∞)

This parameter determines the height of the area covered by the tree.

Start angle

Control type: Slider

Default value: 0°

Range: [0°, 360°]

This parameter determines the angle for the first split in the tree. Changing it has the effect

of rotating the tree.

Sweep angle

Control type: Slider

Default value: 360°

Range: [1°, 360°]

This parameter determines the angular size of the tree.

Apply

Control type: Button

This button applies changes to the other parameter values and signals that the tree needs to be redrawn.

Further information

This code is based on the algorithm used by FigTree, which is available under a GPLv2 licence here.

Here is an example of a tree drawn using circular coordinates (and with the appropriate shape for the *Branches*):