

Radial

Version 1.0.2, 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: $[0, +\infty)$

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

Height

Control type: Number spin box

Default value: $14 \cdot n$

Range: $[0, +\infty)$

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

Preserve aspect ratio

Control type: Check box

Default value: Unchecked

If this check box is checked, the tree is stretched uniformly to fill the area specified by the

[Width](#) and [Height](#); otherwise, the aspect ratio of the tree is not preserved. This has the effect that branches with the same length may appear to have a different length in the plot.

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 radial coordinates (and with the appropriate shape for the *Branches*):

