

# Scale axis

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*Version 1.0.0, by Giorgio Bianchini*

**Description:** Draws a scale axis.

**Module type:** Plotting

**Module ID:** aeacf625-90cf-41a5-8d10-c37c75aaa2b1

This module is used to draw a scale axis on the tree plot. The module can only be used when *Rectangular* or *Circular* coordinates are enabled.



For the default values of the parameters that follow, let  $t$  be the total length of the tree from the root node to the farthest tip.

## Parameters

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### Top axis

**Control type:** Check box

**Default value:** Checked

This check box determines whether the axis is shown above the tree.

### Bottom axis

**Control type:** Check box

**Default value:** Checked

This check box determines whether the axis is shown below the tree.

### Reverse axes

**Control type:** Check box

**Default value:** Checked

If this check box is checked, the units of the axes are reversed, i.e. the tips of the tree will start at an age of . Otherwise, the age of  will correspond to the root node.

### Spacing


**Control type:** Number spin box

**Default value:** 10

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

## Axis colour

**Control type:** Colour

**Default value:**  #000000 (opacity: 100%)

This parameter determines the colour used to draw the axis and the labels.

## Line thickness

**Control type:** Number spin box

**Default value:** 1

**Range:**  $[0, +\infty)$

This parameter determines the thickness of line used to draw the axis.

## Tick spacing

**Control type:** Number spin box

**Default value:**  $0.05 \cdot t$

**Range:**  $[0, 2]$

This parameter determines the spacing between ticks on the axis (in tree age units).

## Start

**Control type:** Number spin box

**Default value:** 0

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

This parameter determines the start of the axis (in tree age units).

## End

**Control type:** Number spin box

**Default value:**  $t$

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

This parameter determines the end of the axis (in tree age units).

## Tick size

**Control type:** Number spin box

**Default value:** 5

**Range:** [ 0,  $+\infty$  )

This parameter determines the size of the ticks on the axis.

## Labels every

**Control type:** Number spin box

**Default value:** 2

**Range:** [ 1,  $+\infty$  )

This parameter determines how many ticks are labelled.

## Digits

**Control type:** Number spin box

**Default value:** 2

**Range:** [ 0,  $+\infty$  )

This parameter determines the number of decimal digits to show for the age labels.

## Font

**Control type:** Font

**Default value:** Helvetica 10pt

This parameter determines the font used to draw the labels.

## Grid type

**Control type:** Drop-down list

**Default value:** Shading

**Possible values:**


- None

- Lines
- Shading

This parameter determines which kind of grid (if any) is drawn. If the value is `None`, no grid is shown. If the value is `Lines`, lines are drawn corresponding to every tick in the axis. If the value is `Shading`, alternating shaded and un-shaded areas are drawn.

## Grid colour


**Control type:** Colour

**Default value:**  #000000 (opacity: 4%)

This parameter determines the colour of the grid lines or shading.

## Grid dash

**Control type:** Line dash

**Default value:** 

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

If the [Grid type](#) is `Lines`, this parameter determines the dashing style used to draw the grid lines.