

# Te Text element

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*Version 1.0.0, by Giorgio Bianchini*

**Description:** Draws a text element on the plot.

**Module type:** Plotting

**Module ID:** ebafe997-c220-425a-ae39-06e731de1a07

## Parameters

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### Text

**Control type:** Text box

**Default value:** Text

This text box contains the text that will be drawn on the plot.

### Node

**Control type:** Node

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

### Anchor

**Control type:** Drop-down list

**Default value:** Node

**Possible values:**

- Node
- Mid-branch
- Centre of leaves
- Origin

This parameter determines the anchor for the text. If the value is `Node`, the text is anchored to the corresponding node. If the value is `Mid-branch`, the text is aligned with the midpoint of the branch connecting the node to its parent. If the value is `Centre of`

leaves or Origin , the alignment depends on the value of the [Branch reference](#):

Branch reference	Centre of leaves	Origin
Rectangular	The smallest rectangle containing all the leaves that descend from the current node is computed. The anchor corresponds to the centre of this rectangle.	A point corresponding to the projection of the node on a line perpendicular to the direction in which the tree expands and passing through the root node. Usually (i.e. if the tree is horizontal), this means a point with the same horizontal coordinate as the root node and the same vertical coordinate as the current node.
Radial	The smallest rectangle containing all the leaves that descend from the current node is computed. The anchor corresponds to the centre of this rectangle.	The root node.
Circular	The centre of leaves is computed using polar coordinates: the minimum and maximum distance of the leaves that descend from the current node are computed, as well as the minimum and maximum angle. The anchor has a distance corresponding to the average of the minimum and maximum distance, and an angle corresponding to the average of the maximum and minimum angle.	The root node.

## Orientation reference

**Control type:** Drop-down list

**Default value:** Branch

**Possible values:**

- Horizontal
- Branch

This parameter determines the direction along which the offset of the text from the anchor is computed. If the value is `Horizontal`, the offset `X` coordinate corresponds to an horizontal displacement and the `Y` coordinate to a vertical displacement; if the value is `Branch`, the `X` coordinate corresponds to a shift in the direction of the branch, while the `Y` coordinate corresponds to a shift in a direction perpendicular to the branch.

## Branch reference

**Control type:** Drop-down list

**Default value:** Rectangular

**Possible values:**

- Rectangular
- Radial
- Circular

This parameter determines the algorithm used to compute branch orientations. For best results, the value of this parameter should correspond to the coordinates module actually used.

## Position

**Control type:** Point

**Default value:** ( 0, 0 )

This parameter determines how shifted from the anchor point the text is. The `X` coordinate corresponds to the line determined by the [Orientation reference](#); the `Y` coordinate corresponds to the line perpendicular to this.

## Horizontal alignment

**Control type:** Drop-down list

**Default value:** Center

**Possible values:**

- Left
- Center
- Right

This parameter determines the horizontal alignment of the text with respect to the [Anchor](#). If this is `Left`, the left side of the text corresponds to the anchor; if it is `Right`, the right

side of the text corresponds to the anchor; if this is **Center** , the centre of the text correspond to the anchor.

## Vertical alignment

**Control type:** Drop-down list

**Default value:** Middle

**Possible values:**

- Top
- Middle
- Baseline
- Bottom

This parameter determines the vertical alignment of the text with respect to the [Anchor](#). If this is **Top** , the top side of the text corresponds to the anchor; if it is **Bottom** , the bottom side of the text corresponds to the anchor; if this is **Middle** , the middle of the text correspond to the anchor; if it is **Baseline** , the text baseline corresponds to the anchor. If you wish to align multiple text elements vertically, use **Baseline** .

## Reference

**Control type:** Drop-down list

**Default value:** Axis

**Possible values:**

- Horizontal
- Axis

This parameter determines the direction along which the text is drawn. If the value is **Horizontal** , the [Orientation](#) angle is computed starting from a horizontal line. If the value is **Axis** , the angle is computed starting from the reference used to compute the [Position](#) of the text.

## Orientation

**Control type:** Slider

**Default value:** 0°

**Range:** [ 0°, 360° ]

This parameter determines the orientation of the label with respect to the [Reference](#), in

degrees. If this is  $0^\circ$ , the label is parallel to the reference, if it is  $90^\circ$  it is perpendicular to the reference and so on.

## Font


**Control type:** Font

**Default value:** Helvetica 10pt

This parameter determines the font (font family and size) used to draw the text.

## Text colour

**Control type:** Colour

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

This parameter determines the colour used to draw the text.

## Background colour

**Control type:** Colour

**Default value:**  #000000 (opacity: 0%)

This parameter determines the colour used as a background for the text.

## Margin


**Control type:** Point

**Default value:** ( 10, 5 )

This parameter determines the margin between the background and the text.

## Border colour

**Control type:** Colour

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

This parameter determines the colour used for the border of text.

## Border thickness

**Control type:** Number spin box


**Default value:** 0

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

This parameter determines the thickness of the border around the text.

## Border style

**Control type:** Line dash

**Default value:** 

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

The line dash used to draw the border.

## Line join

**Control type:** Drop-down list

**Default value:** Miter

**Possible values:**

- Miter
- Round
- Bevel

This parameter determines the appearance of the corners of the text border.