

lingtree

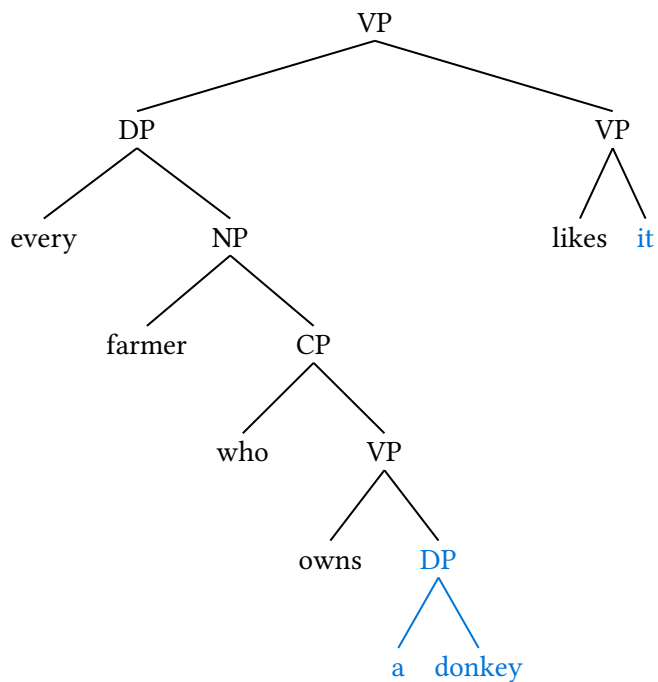
A Typst package for drawing linguistic tree.

v1.0.0

Usage

Here is a simple example:

```
#render(  
  tree(  
    tag: [VP],  
    tree(  
      tag: [DP],  
      [every],  
      tree(  
        tag: [NP],  
        [farmer],  
        tree(  
          tag: [CP],  
          [who],  
          tree(  
            tag: [VP],  
            [owns],  
            tree(  
              tag: [DP],  
              [a], [donkey],  
              defaults: (color: blue),  
            )  
          )  
        )  
      )  
    ),  
    tree(  
      tag: [VP],  
      [likes], text(blue)[it],  
    ),  
  )  
)
```



Reference

- `render()`
- `tree()`

Variables:

- `global-defaults`

render

Renders a tree

Parameters

```
render(  
  tree: tree,  
  defaults: dictionary  
) -> content
```

tree tree

Tree to render

defaults dictionary

A dictionary overriding default parameters of rendering, cf `tree()` for a list of parameters and explanation.

Default: `global-defaults`

tree

Creates a tree from children trees or contents. The root may be labelled with an optional tag (label for the root node). This function returns a data structure that can serve as argument for `render` or for subsequent invocation of `tree`.

Parameters

```
tree(  
  tag: content none ,  
  .. children: content tree ,  
  layer-spacing: length none ,  
  child-spacing: length none ,  
  branch-stroke: stroke color length dictionary none ,  
  color: color none ,  
  align: alignment none ,  
  defaults: dictionary none ,  
  
) -> tree
```

tag content or none

Label for the root node. If none, no label will be rendered.

Default: `none`

.. children content or tree

Children of the root node

layer-spacing length or none

Distance between this root node and its immediate children. If none, a default value is used.

layer-spacing: 1em



layer-spacing: 2em



layer-spacing: 3em



Default: none

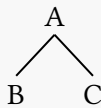
child-spacing length or none

Distance between consecutive children of the root node. If none, a default value is used.

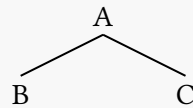
child-spacing: 0em



child-spacing: 2em



child-spacing: 5em



Default: none

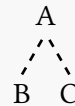
branch-stroke stroke or color or length or dictionary or none

Stroke with which to draw the edge between the root node and its immediate children

stroke: blue + 3pt



stroke: (dash: "dashed")



Default: none

color color or none

Color of the edges, the tag and the leaf nodes. If none, the edges will be black and the content will have its default color.

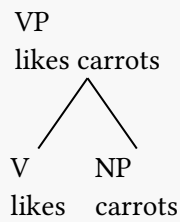


Default: none

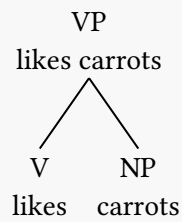
align alignment or **none**

Alignments for the content of the tags and the content.

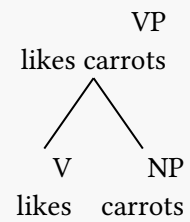
align: left



align: center



align: right

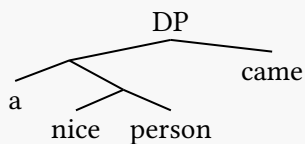


Default: **none**

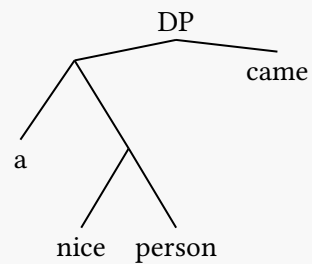
defaults dictionary or **none**

This dictionary can take any of the value for the optional parameters above. When a parameter value is specified here, it applies to this node and *all* of its descendants.

defaults: (layer-spacing: 1em)



layer-spacing: 1em



Default: **none**

global-defaults

Default values for the parameters of `tree()`.

NB: Because Typst is pure, changing these values will not change how trees are rendered. `global-defaults` is only provided for your information. To change the defaults globally, rename `render` (name shadowing):

```
#let render = render.with(defaults: new-defaults)
/* rest of document */
```