lingotree

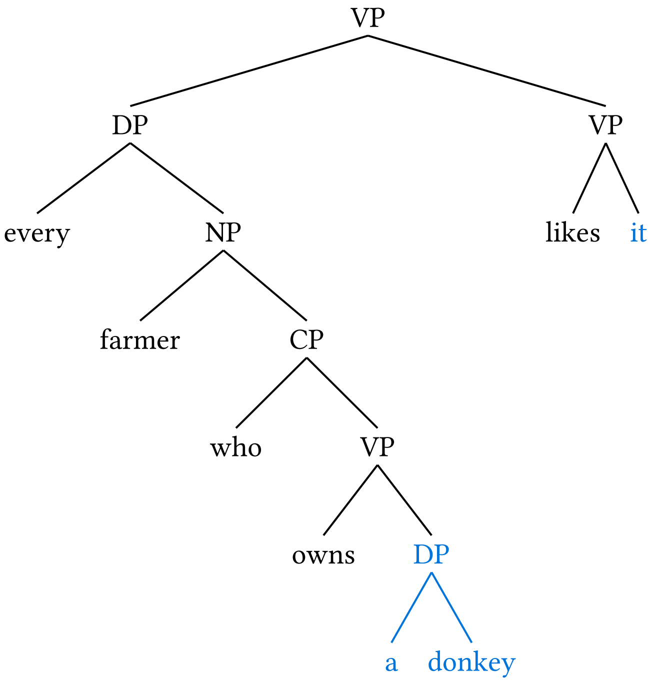
A Typst package for drawing linguistic tree.

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`

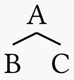
.. children `content` or `tree`

Children of the root node

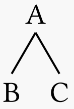
layer-spacing `length` or `none`

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

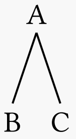
`layer-spacing: 1em`



`layer-spacing: 2em`



`layer-spacing: 3em`

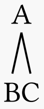


Default: `none`

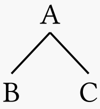
child-spacing `length` or `none`

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

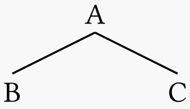
`child-spacing: 0em`



`child-spacing: 2em`



`child-spacing: 5em`

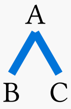


Default: `none`

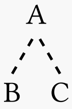
branch-stroke `stroke` or `color` or `length` or `dictionary` or `none`

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

`stroke: blue + 3pt`



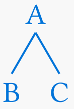
`stroke: (dash: "dashed")`



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.

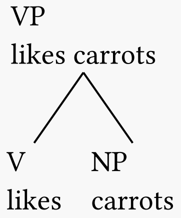


Default: `none`

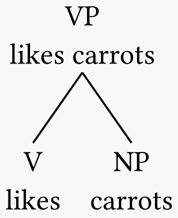
align `alignment` or `none`

Alignments for the content of the tags and the content.

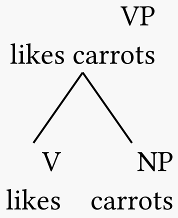
`align: left`



`align: center`



`align: right`

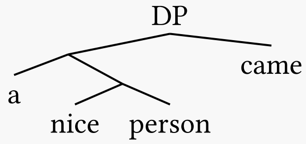


Default: `none`

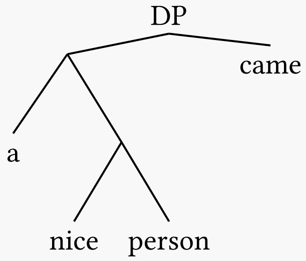
defaults `dictionary` or `none`

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 */
```