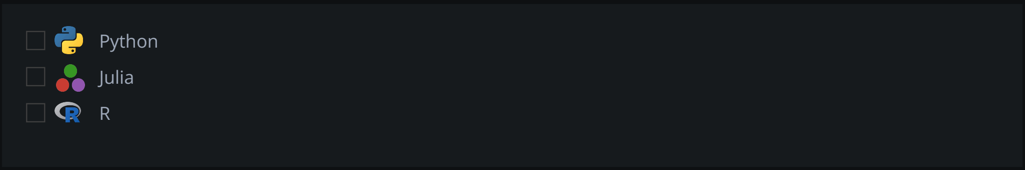
Component Properties

Many components have a `children` property that accepts components, strings, numbers, and lists of those. If a component has a `children` property, then it is the first keyword argument of that component and is often omitted: `html.Div(html.Img())` is the same as `html.Div(children=html.Img())`.

In Dash 2.5 and later, `dcc.Dropdown`, `dcc.Checklist`, and `dcc.RadioItems` also accept components for `label` within the `options` property. In this example, we use an image and some text for each of the checklist option labels:

```python
from dash import dcc, html

dcc.Checklist(
    [
        {
            "label": [
                html.Img(
                    src="/assets/images/language_icons/python_50px.svg", height=30
                ),
                html.Span("Python", style={"font-size": 15, "padding-left": 10}),
            ],
            "value": "Python",
        },
        {
            "label": [
                html.Img(src="/assets/images/language_icons/julia_50px.svg", height=30),
                html.Span("Julia", style={"font-size": 15, "padding-left": 10}),
            ],
            "value": "Julia",
        },
        {
            "label": [
                html.Img(
                    src="/assets/images/language_icons/r-lang_50px.svg", height=30
                ),
                html.Span("R", style={"font-size": 15, "padding-left": 10}),
            ],
            "value": "R",
        },
    ],
    labelStyle={"display": "flex", "align-items": "center"},
)
```



□ Python
□ Julia
□ R

For more examples, see:

- **Dropdown — Components as Option Labels**
- **Checklist — Components as Option Labels**
- **RadioItems — Components as Option Labels**

For Component Developers

To enable component properties within your component, change the `PropType` to `PropType.node` for JavaScript components or `JSX.Element` for TypeScript components, and then regenerate the component.

Dash supports limited nesting. The following components are valid:

A single element:

```
CustomComponent(
    label=html.Div()
)
```

A list of elements:

```
CustomComponent(
    labels=[
        html.Div(),
        html.Div(),
        html.Div(),
    ]
)
```

A dict of elements:

```
CustomComponent(
    labels={
        'a': html.Div(),
        'b': html.Div(),
        'c': html.Div(),
    }
)
```

A list of dicts of elements:

```
CustomComponent(
    labels=[
        {'a': html.Div()},
        {'b': html.Div()},
        {'c': html.Div()},
    }
)
```

Nesting beyond two levels is not supported. For example, this deep nesting inside a `dict` isn't supported:

```
CustomComponent(
    labels={
         'data': [
               {'col1': html.Div()},
               {'col2': html.Div()},
         ]
     }
)
```

Dash Python ***> Component Properties***

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