





Dash Python > Loading States

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Loading States

Loading Component

The dcc.Loading component displays a spinner when the components it wraps are in a loading state. Internally, Dash updates the dcc.Loading component when the loading state of the components it wraps

```
O
from dash import Dash, dcc, html, Input, Output, callback
        dcc.Loading(id="ls-loading-1", children=[html.Div(id="ls-loading-output-1")], type="dej
                dcc.Loading(
def input_triggers_spinner(value):
def input_triggers_nested(value):
    return value
    app.run(debug=False)
```

Edit text input to see loading state

Input triggers local spi... Input triggers local spinner



```
Input triggers nested s...
Input triggers nested spinner
```

Please also check out the docs for the **Loading component** for more information on how to use the Loading component.

Check Loading States From Components

Aside from using the **Loading component**, you can check if a certain component (either from dash_core_components) or dash_html_components) is loading by checking the data-dash-is-loading attribute set on that component's HTML output. This means that you can target those components yourself with CSS, and create your own custom loading for them. Here's an example of what that could look like:

```
Ð
     children=[
         html.Div(
 def input_triggers_spinner(value):
 def input_triggers_nested(value):
     time.sleep(1)
     return value
     app.run(debug=False)
Input triggers local spinner
 Input triggers local spi...
Input triggers nested spinner
 Input triggers nested s...
```

You could target all components in the layout above that are loading using the following CSS:

```
*[data-dash-is-loading="true"]{
    visibility: hidden;
}
*[data-dash-is-loading="true"]::before{
    content: "Loading...";
    display: inline-block;
    color: magenta;
    visibility: visible;
}
```



You can also target any other HTML attributes using CSS. To target a specific class use the following CSS: Dash Python > Loading States **Products** Pricing **About Us** Join our mailing **Support** list Community Support Consulting and Training Graphing Documentation Sign up to stay in the loop with Blog Club to product updates, SUBSCRIBE Copyright © 2025 Plotly. All rights reserved.