





Dash Python > Dash HTML Components

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# Dash HTML Components

Dash is a web app framework that provides pure Python abstraction around HTML, CSS, and JavaScript.

Instead of writing HTML or using an HTML templating engine, you compose your layout using Python with the Dash HTML Components module (dash.html).

```
from dash import html
```

The Dash HTML Components module is part of Dash and you'll find the source for it in the **Dash GitHub repo**.

Tip: In production Dash apps, we recommend using Dash Enterprise Design Kit to style Dash HTML Components.

Here is an example of a simple HTML structure:

```
from dash import html
```

which gets converted (behind the scenes) into the following HTML in your web app:

If you're not comfortable with HTML, don't worry! You can get 95% of the way there with just a few elements and

If you want to use Markdown in your app, you can use the Dash Core Components Markdown component:

```
Ф
from dash import dcc
#### Dash and Markdown
```



```
quotes, and more.
```

#### **Dash and Markdown**

Dash supports Markdown.

Markdown is a simple way to write and format text. It includes a syntax for things like **bold text** and *italics*, **links**, inline code snippets, lists, quotes, and more.

**Sign up for Dash Club**  $\rightarrow$  Two free cheat sheets plus updates from Chris Parmer and Adam Schroeder delivered to your inbox every two months. Includes tips and tricks, community apps, and deep dives into the Dash architecture. **Join now**.

## **HTML Component Properties**

If you're using HTML components, then you also have access to properties like style, class, and id. All of these attributes are available in the Python classes.

The HTML elements and Dash classes are mostly the same but there are a few key differences:

- The style property is a dictionary
- Properties in the style dictionary are camelCased
- The class key is renamed as className
- Style properties in pixel units can be supplied as just numbers without the px unit

Let's take a look at an example.

```
from dash import html

html.Div([
    html.Div('Example Div', style={'color': 'blue', 'fontSize': 14}),
    html.P('Example P', className='my-class', id='my-p-element')
], style={'marginBottom': 50, 'marginTop': 25})
```

That Dash code will render this HTML markup:

### n\_clicks and disable\_n\_clicks

All Dash HTML components have an  $n\_clicks$  property, which is an integer that represents the number of times the element has been clicked. You can use  $n\_clicks$  to trigger a callback and use the value of  $n\_clicks$  in your callback logic.

In this example, we capture the <code>n\_clicks</code> value from the <code>html.Div</code> with ID <code>click-div</code> and output it to the <code>html.P</code> with ID <code>click-output</code>. <code>n\_clicks</code> uses an event listener to capture user click events on the element



#### Div with n clicks event listener

The html.Div above has been clicked this many times: None

Many Dash HTML components are rarely intended to be clicked (in the example above, it's unusual that the <a href="html.Div">html.Div</a> is clickable—a better design choice would be to use a button). Even when you use elements like <a href="html.Div">html.Div</a> that you don't intend for the user to click, the <a href="n\_clicks">n\_clicks</a> event listener causes screen-reading software to interpret the elements as clickable, which can be confusing.

In Dash 2.8 and later, Dash HTML components are improved for better control over the n\_clicks event listener:

- o If you don't give your HTML component an ID, the n\_clicks event listener is not added.
- If your HTML component does have an ID but you don't need to capture clicks, you can disable the n\_clicks event listener by setting disable\_n\_clicks=True.

Here is the same example as above, but we've decided that we don't need to capture clicks, so we've disabled <code>n\_clicks</code> on the <code>html.Div</code> (the callback is for illustrative purposes):



app.run(debug=True)

#### Div without n\_clicks event listener

The html.Div above has been clicked this many times: None

With disable\_n\_clicks=True, we convey to screen reader assisted users that the html.Div is not clickable.

# **Full Elements Reference**

- o html.A
- o html.Abbr
- html.Acronym
- html.Address
- html.Area
- html.Article
- html.Aside
- o html.Audio
- o html.B
- o html.Base
- o html.Basefont
- o html.Bdi
- o html.Bdo
- o html.Big
- o html.Blink
- o html.Blockquote
- html.Br
- o html.Button
- o html.Canvas
- html.Caption
- o html.Center
- o html.Cite
- o html.Code
- o html.Col
- o html.Colgroup
- html.Content
- o html.Data
- o html.Datalist
- o html.Dd
- o html.Del
- o html.Details



0	html.Dfn	
	html.Dialog	
	html.Div	
	html.DI	
	html.Dt	
	html.Em	
	html.Embed	
	html.Fieldset	
	html.Figcaption	
	html.Figure	
	html.Font	
	html.Footer	
	html.Form	
	html.Frame	
	html.Frameset	
	html.H1	
	html.H2	
	html.H3	
	html.H4	
	html.H5	
	html.H6	
	html.Header	
	html.Hgroup	
	html.Hr	
	html.I	
	html.Iframe	
	html.Img	
	html.Ins	
	html.Kbd	
	html.Keygen	
	html.Label	
	html.Legend	
	html.Li	
	html.Link	
	html.Main	
	html.MapEl	
	html.Mark	
	html.Marquee	<b>(*)</b>

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	html.Nav
	html.Nobr
	html.Noscript
	html.ObjectEl
	html.OI
	html.Optgroup
	html.Option
	html.Output
	html.P
	html.Param
	html.Picture
	html.Plaintext
	html.Pre
	html.Progress
	html.Q
	html.Rb
	html.Rp
	html.Rt
	html.Rtc
	html.Ruby
	html.S
	html.Samp
	html.Script
	html.Section
	html.Select
	html.Shadow
	html.Slot
	html.Small
	html.Source
	html.Spacer
	html.Span
	html.Strike
	html.Strong
	html.Sub
	html.Summary
	html.Sup
	html.Table (**)
	html.Tbody

- o html.Td
- html.Template
- html.Textarea
- html.Tfoot
- html.Th
- html.Thead
- html.Time
- html.Title
- o html.Tr
- html.Track
- o html.U
- o html.Ul
- html.Var
- o html.Video
- o html.Wbr
- html.Xmp

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