





Dash Python > Dash 2.0 Migration

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Pash 2.0 Migration

Dash 2.0 introduced several new features, including Long Callbacks (now deprecated), Flexible Callback **Signatures**, and a simpler import statement.

Some updates to Dash change how existing features work, and you will need to update your apps for them to continue to function correctly.

Below is an outline of what updates you'll need to make to your apps, along with a short overview of new functionality you'll find in Dash 2.0.

Breaking Changes — Callbacks

If you are currently naming arguments to @app.callback with state=, you need to either also use input for the input arguments, or remove state.

Breaking Changes — Python 2 Support

As of version 2.0, Dash no longer supports Python 2.

Recommended Updates — Import Statements

Dash 2.0 includes a simpler way to import Dash as well as its dependencies and components.

If you update your apps to use Dash 2.0, we recommend you use this simpler import statement and replace references to dash_html_components, dash_core_components, and dash_table in your app imports.

Dash 1.x

```
import dash_table
```

```
from dash import Dash, callback, html, dcc, dash_table, Input, Output, State, MATCH, ALL
```

In the above example, html, dcc, and dash_table are imported along with Dash, callback, Input, Output, State, MATCH, and ALL.

Installs

The changes that allow simpler import of dash_html_components, dash_core_components, and dash_table also impact installs of these components. If you have these referenced in any requirements.txt files, you should update them.



New Features to Improve your Apps

As you update your apps, you may also want to consider trying out some of Dash 2.0's new features.

Long Callbacks

If you are currently using Dash 1.x and experiencing server timeouts with callbacks that run for a long time, you can use long callbacks to solve this issue. Long callbacks run callback logic in a separate process, meaning the app is still available while the callback runs.

Note: Long callbacks were deprecated in Dash 2.6 and removed in Dash 3.0. See **Background Callbacks** for details on handling long-running callbacks.

Flexible Callback Signatures

In Dash 1.x callback arguments are positional, meaning arguments are passed to the callback function in the same order as they are in the callback decorator. Flexible callbacks allow for either positional or keyword arguments. See the **Flexible Callback Signatures chapter** for more details.

@dash.callback

The decorator <code>@dash.callback</code> is an alternative to using <code>@app.callback</code> in your apps. It is useful when building reusable components using <code>pattern-matching callbacks</code> and <code>All-in-One components</code>. To import and use it:

```
import dash
@dash.callback(...)
```

Similarly, dash.clientside_callback can be used as an alternative to @app.clientside_callback.

```
import dash

dash.clientside_callback(...)
```

Both can also be imported by importing from dash like this:

```
from dash import clientside_callback, callback
```

And then used like this:

```
@callback(...)
clientside_callback(...)
```

Limitations

- @dash.callback won't work in projects with multiple app declarations. (If you are using multiple app
 declarations to create a multi-page app, remember that this is not officially supported and consider changing
 to the recommended dcc.location multi-page app solution).
- @dash.long_callback is not yet supported.

orjson Support



Dash 2.0 adds opt-in support for orjson. If **the orjson library** is installed, Dash will use it to serialize data to JSON, improving callback performance. See "Data Serialization" in the **Performance chapter** for more information.

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