





Dash Python > Dash 1.0 Migration

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# **Pash 1.0**

Dash has been in active development for more than two years. In that time we've seen it evolve into a robust framework with a worldwide community of users. As we continued building Dash, talking and working with Dash users, we developed new features that obsoleted old ones, discovered which settings are awkward or confusing to new users, and overall accumulated a lot of ideas for how to improve the experience of building Dash apps.

A lot of these ideas have already been built into Dash. Sometimes they require changes that break backward compatibility. When these changes were small enough we added them anyway - we're still on major version 0 so SemVer allows breaking changes after all - but others we still held back because we expected them to impact too many users.

Dash version 1.0, in addition to various new features and upgrades we discuss elsewhere, collects those breaking changes all in one release. With it we are affirming the maturity and stability of the Dash and Dash component API. After making this migration, which we expect will impact a sizable fraction of Dash users in one way or another, Dash will not introduce any breaking changes unless and until we bump the major version again. That  $[\mathsf{dash\_html\_components}]$ , and  $[\mathsf{dash\_table}]$ 

Here are the changes Dash developers need to know about to transition apps from v0.43 (the last release in the v0.x series) to v1.0.

#### dash

## serve\_locally: default True and new kwarg

Previously Dash would try to serve JavaScript and CSS files from public CDNs by default, and to disable this you needed to set:

```
app.css.config.serve_locally = True
```

Now that's the default, and that syntax can still be used to disable it for each asset class, but if you want to use

Note that using app.scripts.append\_script to load external js scripts won't work while serve\_locally=True. Please use the external\_scripts argument in your call to dash.Dash instead, as outlined in the external resources section.

# Removed undo/redo buttons

The undo & redo buttons in the corner of every app are removed by default, but if you want to re-enable them,



```
app = dash.Dash(show_undo_redo=True)
```

### Removed static\_folder

This old dash.Dash kwarg has been superseded by the much more powerful assets\_folder. If you want the old behavior, use a custom server:

```
app = dash.Dash(server=Flask(static_folder='my_folder'))
```

## Removed components\_cache\_max\_age

All assets are served with cache-busting query strings in their URLs, so this is unnecessary.

# Use app.config

We used to store a lot of app settings directly as attributes, for example <code>app = dash.Dash(assets\_ignore=...)</code> would set <code>app.assets\_ignore</code>. Others would go into <code>app.config</code>. Now all constructor args go into <code>app.config</code>, with three exceptions:

- o server: can set later with app.init\_app(server)
- o index\_string:can set later with app.index\_string = 'custom string'
- plugins: can add plugins later with my\_plugin.plug(app)

Some config items do not work correctly if modified later. These are read-only in app.config.

### Removed misspelled supress\_callback\_exceptions

Just use the correct spelling, suppress\_callback\_exceptions

# Changed dev\_tools\_hot\_reload\_interval to seconds

Previously this run\_server or enable\_dev\_tools setting was in milliseconds, but dev\_tools\_hot\_reload\_watch\_interval is in seconds. Now they match!

### debug smarter defaults

Changed enable\_dev\_tools() to have debug=True by default. Now a simple app.enable\_dev\_tools() enables all the dev tools. In app.run() it is still debug=False by default, so app.run(debug=True) is still the correct way to enable dev tools there.

# dash\_core\_components

### Removed SyntaxHighlighter component

This is now built into dcc.Markdown using triple backticks, with optional short or long language name on the opening line:



# Added automatic dedenting in Markdown

If all lines (other than whitespace-only or blank lines) start with the same whitespace, it will be removed. Disable this with

dcc.Markdown(dedent=False)

# Renamed Checklist.values prop to value

To match all the other input components.

### Removed version.py

Until Dash v2, the simple way to get version info was <code>dcc.\_\_version\_</code>. Before Dash 1.0 there was also a <code>dash\_core\_components.version</code> module you could look in as well, but that has been removed. As of Dash v2, there is no longer a separate <code>dash\_core\_components</code> package at all. Now, the main <code>dash.\_\_version\_</code> is all you need to know.

# dash\_html\_components

# Removed version.py

Same as in dash\_core\_components. Until Dash v2, the simple way to get version info was <a href="https://html.\_version\_">html.\_version\_</a>. Before Dash 1.0 there was also a dash\_html\_components.version module you could look in as well, but that has been removed. As of Dash v2, there is no longer a separate dash\_html\_components package at all. Now, the main dash.\_version\_ is all you need to know.

# dash\_table

Lots of properties are renamed and/or restructured for better self-consistency and extensibility.

Old Prop	New Prop	Notes
column.clearable	dropdown*.clearable	clearable is a property of dropdowns, not really of columns. So it has moved into dropdown, dropdown_conditional, and dropdown_data.
column.deletable		For multi-line headers, accepts an array of booleans rather than a number. For example, if there are multiple headers and you want the second header row to be deletable, this would be [False, True].
column.hidden	REMOVED	Will be added back later in a different form. Follow dash-table#314 for updates.
column.id		Accepts strings only; numbers can be cast to string.



Old Prop	New Prop	Notes
column.options	dropdown	Similar to clearable, options is a dropdown property, not a column property.
column.editable_name	column.renamable	Similar to deletable, for multi-line headers, accepts an array of booleans rather than a number.
column_conditional_dropdowns	dropdown_conditional	Still an array of objects, but structure changed to {clearable: boolean, if: {column_id, filter_query}, options: array of {label, value}}.
column_conditional_tooltips	tooltip_conditional	Just renamed, structure is unchanged.
column_static_dropdown	dropdown	Changed from an array of objects to an object of objects. Keys are column IDs, values are {clearable: boolean, options: array of {label, value}}.
column_static_tooltip	tooltip	Renamed, values are unchanged.
content_style	REMOVED	Deemed unnecessary.  NOTE - This was added back in 1.0.2 (dash-table==4.0.2) under the name the "fill_width" property name.
dropdown_properties	dropdown_data	Structure changed to match data: an array of objects, keys are column IDs, values are {clearable: boolean, options: array of {label, value}}.
derived_filter_structure	derived_filter_query_structure	Just renamed, values are unchanged.
filter	filter_query	Renamed, values are unchanged.
filtering	filter_action	Values changed: 'fe' is now 'native', 'be' is now 'custom', and false is now 'none'
n_fixed_columns	fixed_columns	Now accepts an object {headers: boolean, data: number} instead of a number. headers=True fixes all row action columns (select/delete), data is the



Old Prop	New Prop	Notes
		number of data columns to fix after the headers.
n_fixed_rows	fixed_rows	Now accepts an object {headers: boolean, data: number} instead of a number. headers=True fixes all header rows, data is the number of data rows to fix after the headers.
pagination_mode	page_action	Values changed: 'fe' is now 'native', 'be' is now 'custom', and false is now 'none'
pagination_settings	page_current, page_size	Split this nested property into two separate toplevel properties.
sort_type	sort_mode	Renamed, values are unchanged.
sorting	sort_action	Values changed: 'fe' is now 'native', 'be' is now 'custom', and false is now 'none'
sorting_treat_empty_string_as_none	sort_as_null	Now accepts an array of string, number or booleans that can be ignored during sort. Can also be set per column with column.sort_as_null.
style_data_conditional		Renamed nested prop if.filter to if.filter_query.
tooltips	tooltip_data	Structure changed to match data: an array of objects, keys are column IDs, values are {delay, duration, type, value} as before.

# **Additional notes**

style\_cell\_conditional: In prior versions [if.row\_index] was evaluated for this prop but should not have been. Use [style\_data\_conditional] and [style\_header\_conditional] instead for [if.row\_index] based styling.

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