

Creating Single Directory Components with Drupal Canvas in mind

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Future-proofing your Single Directory Components



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Shameless plug

- Author and trainer for Professional Single Directory Components
 - 3 hours/day over 6 days.
 - \$600
 - drupaleasy.com/psdc



Why Single Directory Components?



Why Single Directory Components?

- Modular and reusable
- Encapsulation of all assets
- Explicit data contract
- Improved developer experience (reusable, transferable, maintainable)



Why Single Directory Components?

- Better integration with external tools like React as well as design system tools like Storybook and Figma.
- Integration with current (and future) Drupal modules and themes.
- No PHP!



Session focus

Fully validatable and populated
*.component.yml files



Demo site setup

- Drupal CMS 2.0
 - Drupal core 11.3.3
 - Drupal Canvas 1.1.0
 - Mercury theme 1.0.1
 - SDC Devel module



No *.component.yml file?

- Drupal Canvas won't know about props nor slots



"Validatable SDCs"

- Configure IDE to check schema.
- Use `drupal/core-dev` & `zend.assertions=1` (`php.ini`)
- Use SDC Devel module (`drush sdcv`)
- Use `enforce_prop_schemas: true`



First things first

- Don't rely on context for props and slots.
- Ensure your SDCs work with:
 - `with_context: false` or
 - `only`
- props and slots defined in `*.component.yml` need to be one-to-one match variables in `*.twig`



name, description

- name is used as component identifier in Canvas
- description is not used



status

- By default, Canvas will only show components with a status of: `stable`, `experimental`, and `deprecated`
- An SDC with a status of `obsolete` will not be available
- No `status` key? Component is available.
- Canvas has a *Components* report under *Appearance*



group

- Organize SDCs in Canvas
- Example: group: DrupalEasy
- Module and/or Canvas uninstall/reinstall required to see changes(?)
- No group key? Component will be in *Other* group.



variants

- Not (yet?) supported in Canvas.
- Added in Drupal core 11.2.0



Prop definitions

- `type`, `title`, `enum`, `examples`, `description`, `required` all inform the Canvas prop form
- `examples` act a default values and inform component preview



Prop type

- `string`, `number`, `integer`, and `boolean` work as expected
- `array` support is incomplete
- `object` is not supported without Canvas `$ref` schemas



Prop types - formatted text? Images?

- Props of type `string` can be *easily* configured to expose a CKEditor text editor in Canvas.
- Images are supported in Canvas via the `object` type and a `$ref` to `canvas.image`



Slot definitions

- `title` is used to locate drop zone
- `description` isn't currently used



Learn more

- Docs:
<https://www.drupal.org/docs/develop/theming-drupal/using-single-directory-components>
- Professional Single Directory Components class begins April 6:
drupaleasy.com/psdc
- Recommended SDC examples:
 - https://www.drupal.org/project/demo_design_system (in the starshot_demo directory)
 - Dripyard themes (\$, but amazing)

