

CREATIVE CONSTRUCTS WITH CONFIG ENTITIES Twin Cities Drupal Camp

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CONFIGURATION MANAGEMENT



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Separates Configuration from Content

Configuration maintained in the database as an active store, but not mixed with content.



Enables configuration syncing

Configuration can be exported from the database's Active Store into a sync directory as YML files.



Exported configuration can be managed as code

Configuration exported as YML can be treated as code, versioned and maintained in your site's code repository.



Allows for deployment of configuration

The configuration managed in your repository can be deployed across a development workflow, from Dev to Production.



CONFIGURATION ENTITIES

- Configuration Entities define structured data, just like content entities.
- You can build your own custom Configuration Entities with their own fields and metadata.
- Configuration Entities can be exported with the site configuration and deployed across environments.

Like other entities, but with a twist



USE CASE:

- Content editors should be able to add custom JavaScript or CSS snippets to pages.

Managing a Library of code snippets

Developers should be able to define a library of JavaScript or CSS snippets that content editors can use.

The custom snippets should be scoped to the page they're used on and not part of the global CSS/JS



JSNIPPETS MODULE



Defines a configuration entity for managing snippets Allows developers to build a library of snippets.

Allows snippets to be referenced on a content entity

Using an Entity Reference field, you can include snippets on a content entity, whether that's a Node, Paragraph, Block, or other entity.



Writes snippets to the file system & builds libraries

Snippets are written to the file system for use and library definitions are dynamically generated so snippets can be used just as any other JS or CSS library in Drupal.



Snippets Field Formatter

A custom field formatter for the Entity Reference field loads the referenced snippet and attaches the Snippet's library to the rendered element, including that snippet on the final page.









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Select between either JavaScript or CSS.

Snippet

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For an external JavaScript or CSS library, provide the URL. For settings or other JavaScript or CSS sr

Wrap snippet in a Drupal Behavior?

Checking this box will wrap the included code with a Drupal behavior, following Drupal best pract

Scope

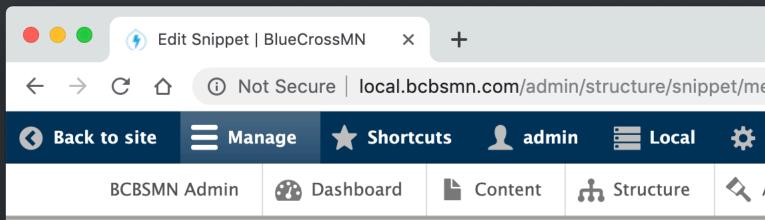
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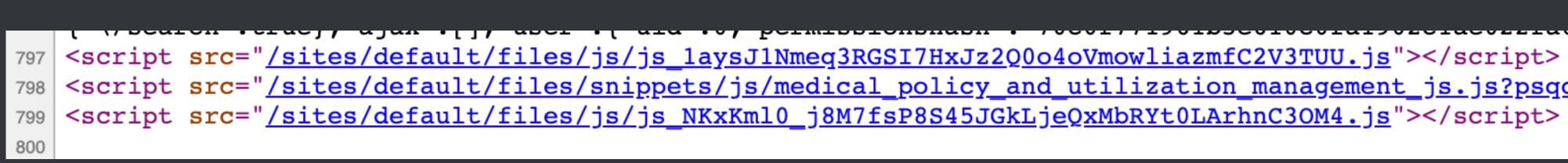
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- Snippets can be created on a local development environment, tested and deployed forward.
- When Snippet configuration is imported, the files are generated and available as Libraries
- Snippets can also be created or modified in production through the UI with appropriate permissions
- Snippets are attached through the rendered Entity Reference field, and are scoped to just that page
- Multiple snippets can be added to a page to build out complex functionality on the fly

- Allowing editing of Snippets in production increases complexity of releases.
- Production configuration should be exported and Snippet changes merged during release.

TAKEAWAYS

CAVEATS...



USE CASE:

Managing a Library of Style variations

- grey background on another page with a different link style.

Some components have small variations in styling. A CTA may have a blue background on one page and a

Developers should be able to define a library of Styles that content editors can use for components.

Content editors should be able to easily select Style variations for components when creating content.





TAXONOMY?



STYLES ENTITY



A Configuration Entity for creating a Style library

Allows developers to build a library of Styles. That Content Editors can use during content creation.



Styles can be added to Content Entities

Using an Entity Reference field, you can include styles on a content entity, whether that's a Node, Paragraph, Block, or other entity.



Styles can be scoped

The "Uses" configuration allows styles to be scoped to where they're allowed to be used, improving UX for Content Editors.

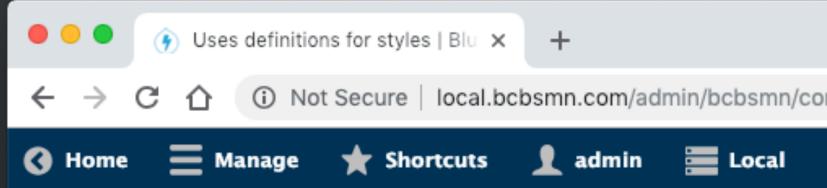


Styles add class

Through preprocess hooks in the Styles Entity module, any Styles Field is found, the referenced Style is loaded and it's classes added to the content entitie's container.







Uses definitions for styles

Uses

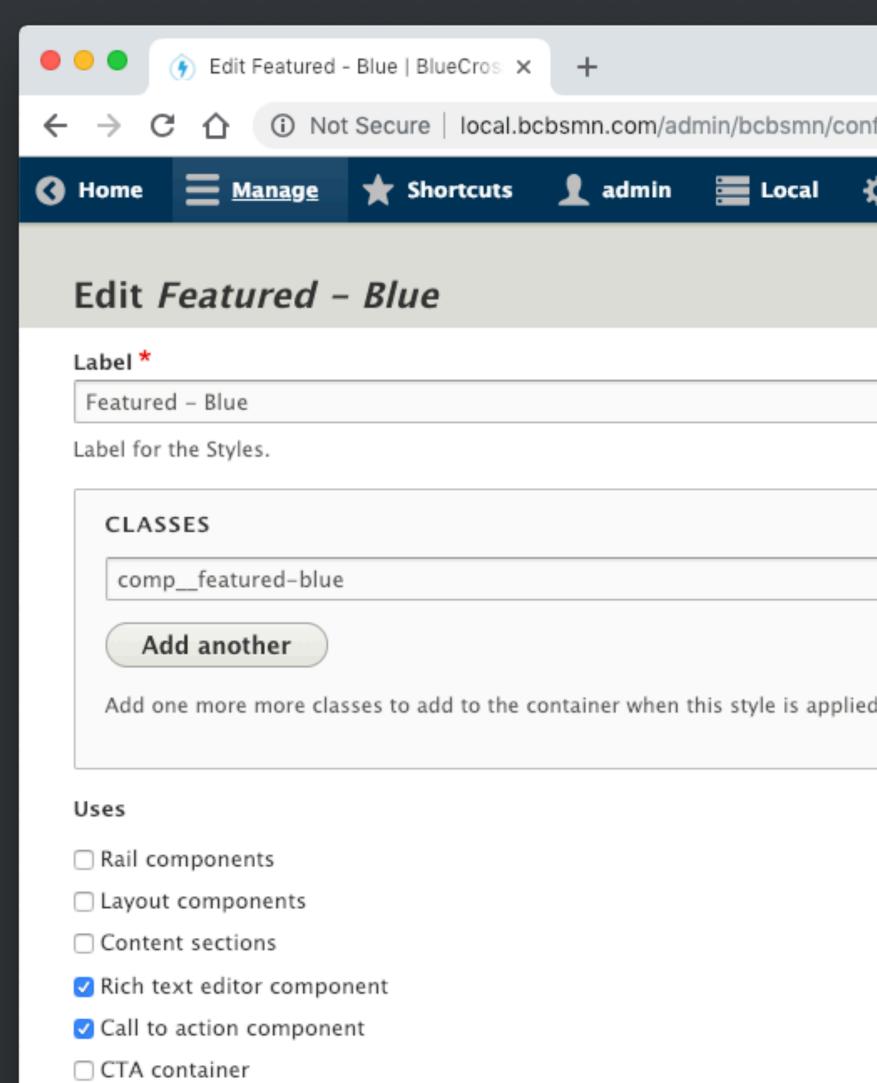
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- Equal columns container
- Featured content component
- Table component



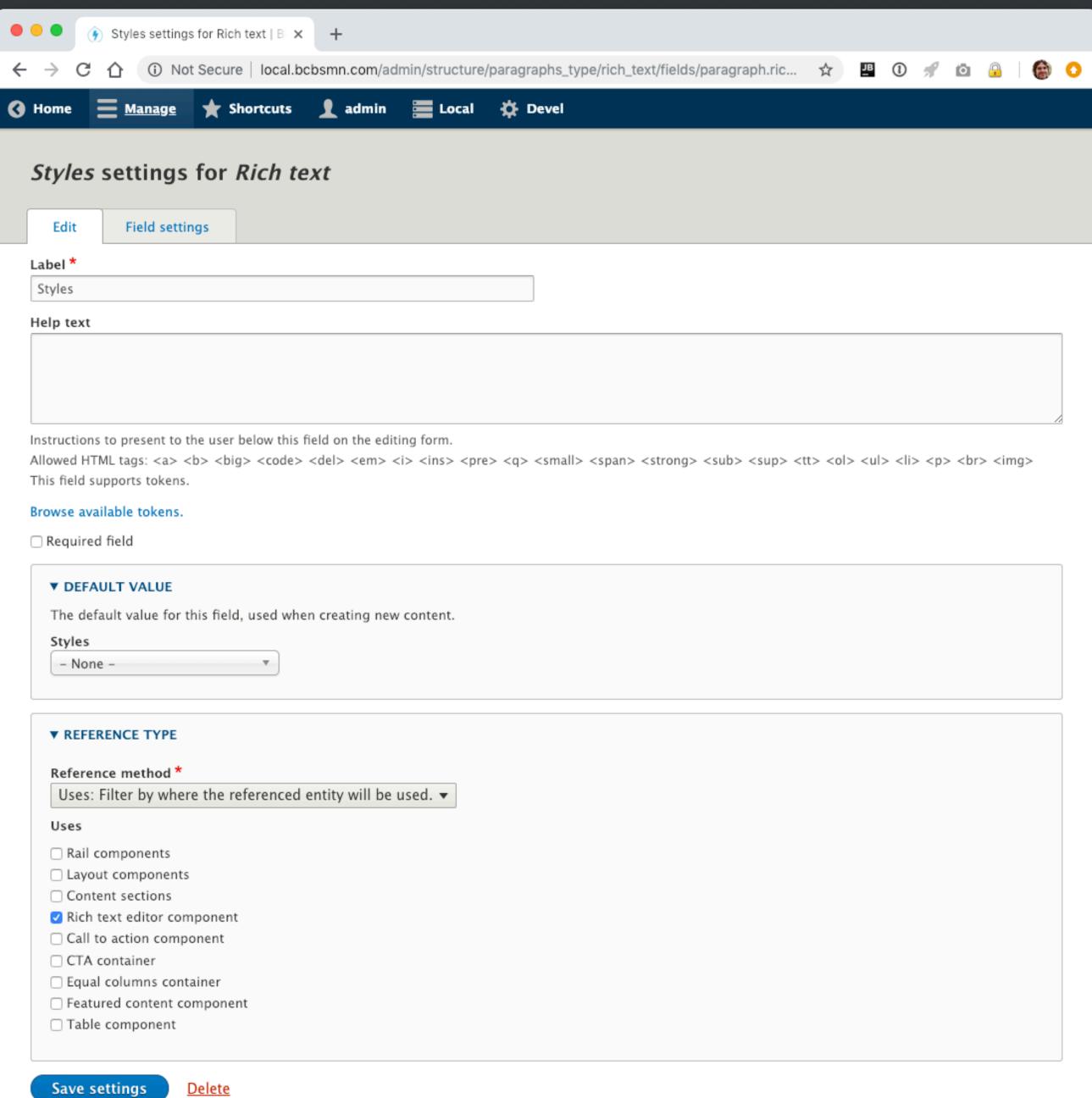
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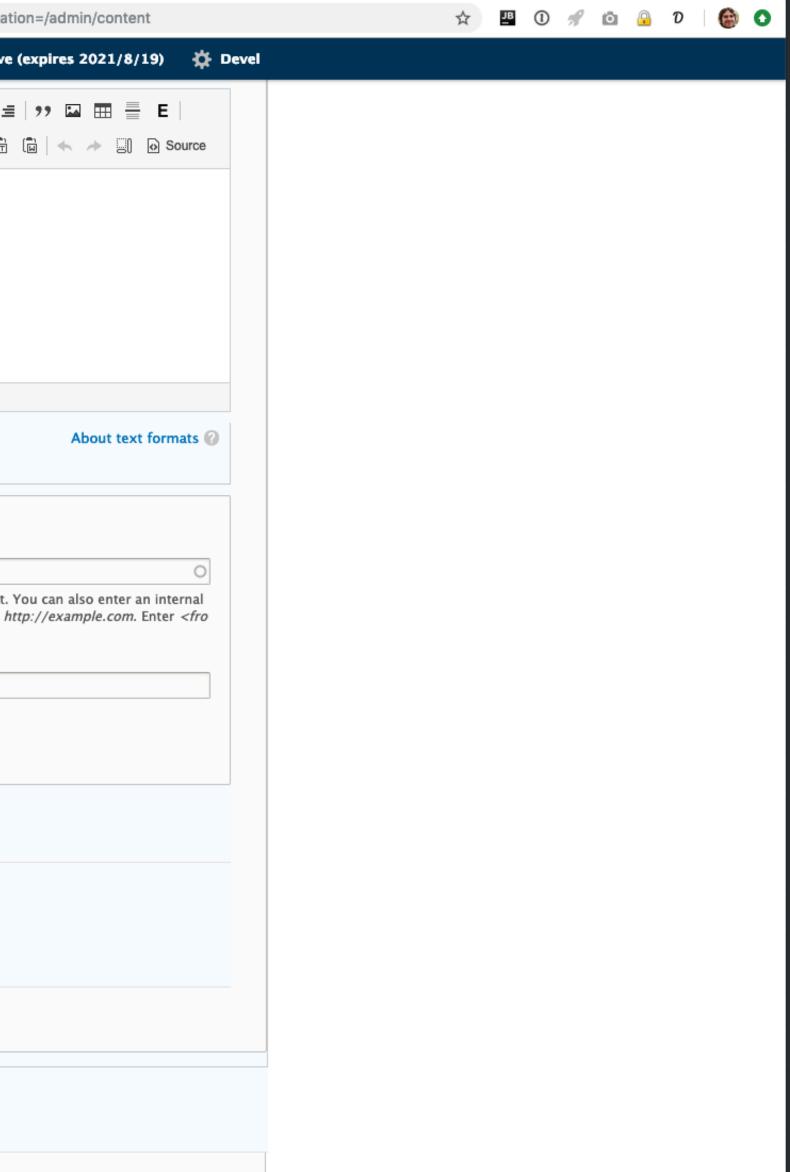




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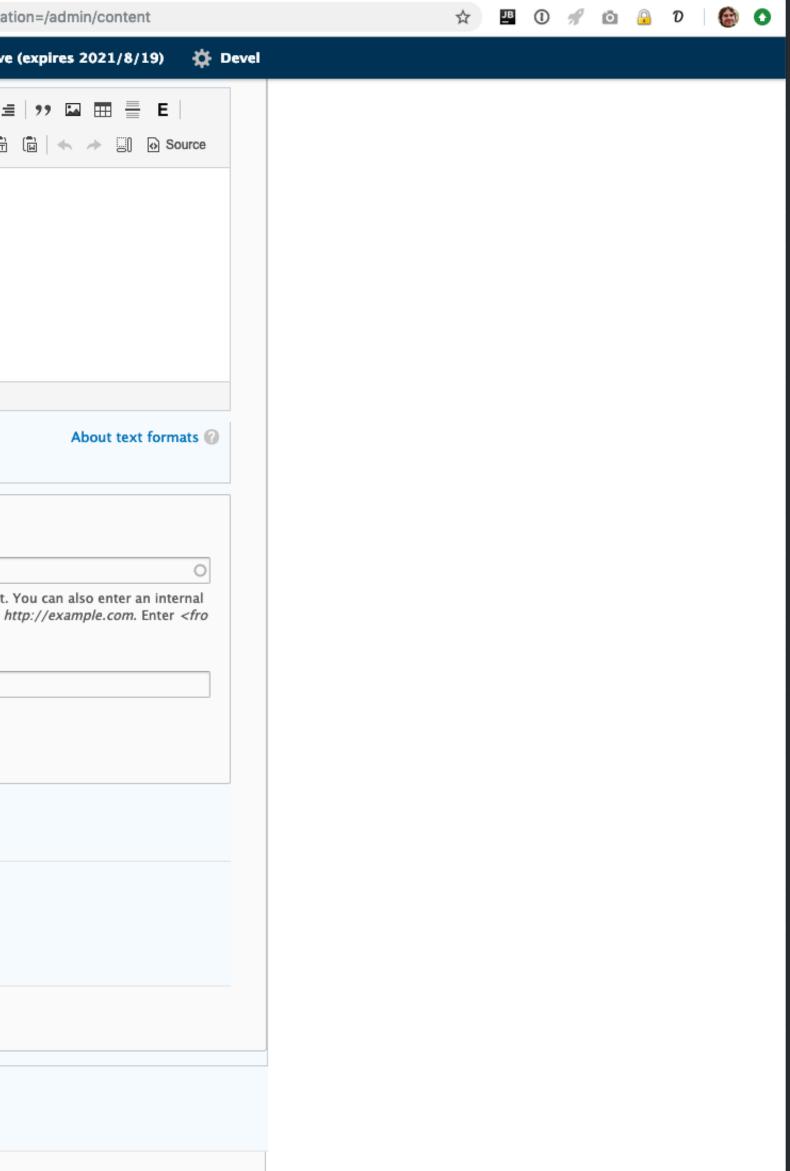


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TAKEAWAYS

- A Styles Library can be easily defined using configuration entities.
- The library can be exported and managed in the code repository, and deployed to forward environments
- Uses allows us to provide some context to where a Style is relevant, improving UX for Content Editors
- By extending Entity Reference field type, we can provide an easy path for integration.





- https://horizontalintegration.blog/2019/04/05/a-custom-styles-library-with-config-entities/
- Jsnippet module: <u>https://www.drupal.org/project/jsnippet</u>
- Style Entity module: <u>https://www.drupal.org/project/style_entity</u>

RESOURCES



Join us for the Unconference

Saturday, June 8th, 9:30am-4:30pm

#tcdrupal





What did you think?

- Locate this session on the TC Drupal website:
 - https://2019.tcdrupal.org/schedule
 - Leave your feedback
 - https://2019.tcdrupal.org/feedback

