Empowering Developer Excellence with AEM Core Components

Kartik Sharma | Director, Solutions Architecture at Wiley

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Where are you joining us from?

What are you hoping to learn today?



Kartik Sharma

About me

- Working as Director, Solutions Architecture at Wiley
- 15+ years of experience with the Adobe Stack (AEM (Day CQ), Analytics (Site Catalyst), Target, Campaign (Neolane), RTCDP, Workfront)
- 2023 Adobe Experience Manager Champion
- Holds Various Adobe Certifications
- AEM SME created various certification exams like AEM Dev/Ops, AEM Sites Developer, AEMaaCS Migration Expert
- Implemented AEM for various customers
- LinkedIn: https://www.linkedin.com/in/kartiksharma84



Tommy Miller

About me

- AEM Customer Success Architect at Adobe
- Focuses on leading and guiding users on best utilizing Adobe Experience Manager.
- 11+ years of experience in enterprise content management implementations and web application development.
- 11+ years of experience providing technical leadership with Adobe Experience Manager and other Marketing Cloud products.
- Experienced in leading implementations with organizations in the following verticals: Retail, Finance, Travel, Food, Manufacturing, Entertainment, and Energy.
- LinkedIn: https://www.linkedin.com/in/tommymiller84/

Agenda



AEM Core Components



Customize Core Component (Convert teaser core component to a card component)



Use Style Systems to create variations of same component



Deploy & test UI changes using Frontend pipelines

AEM Core Components: Overview



Core Components: Benefits

Standardized Set of Components

Speed up Development Time

Reduce Maintenance Cost

Improved User Experience

Core Components: Features

- Production-Ready
- Cloud-Ready
- Versatile
- Configurable
- Trackable
- Accessible
- SEO-Friendly

- WebApp-Ready
- AMP Support
- Design Kit
- Themeable
- Customizable
- Versioning
- Localizable
- Open Sourced

Core Components: Types



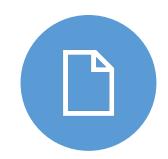
Template components: Page, Navigation, Breadcrumb



Page Authoring
Components: Title, Text,
Teaser, Image, Embed



Container Components: Container, Carousel, Tabs, Accordion



Form Components: Form Container, Form Text, Form Options

Core Components: Templates

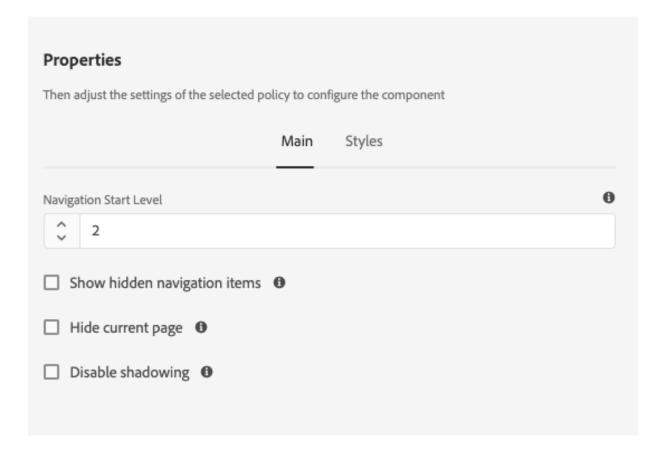
- Breadcrumb
- Language Navigation
- Navigation
- Page
- Table of Contents

Edit and Design Dialogs

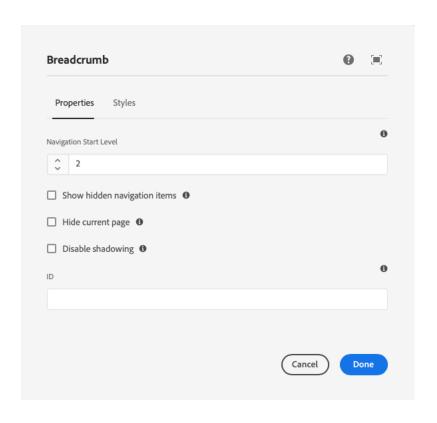
What it Controls Examples Description **Edit Dialog** Options that a page The content displayed by the Formatting of content text, author can modify during component and how it will rotate an image on a page normal page editing for the ultimately appear on the placed components page. **Design Dialog** Options that a **template** What options the page Which text formatting author can modify when author has available when options are available, which configuring a page template. editing the component image in-place options are available

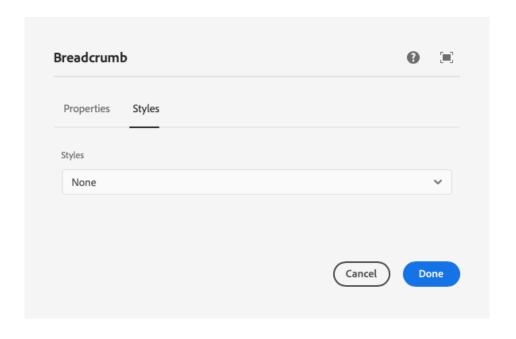
Breadcrumb: Design

Home > First Level > Second Level



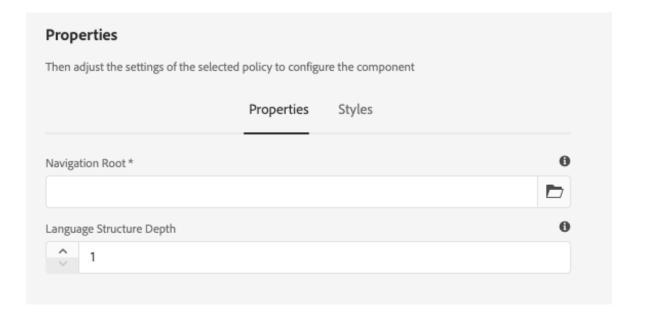
Breadcrumb: Edit



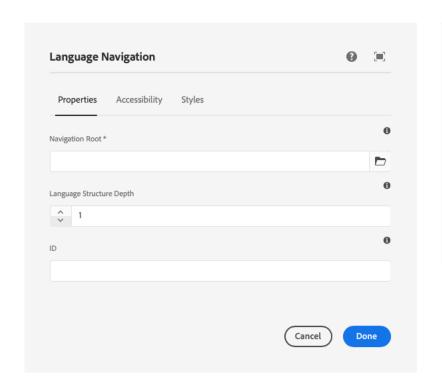


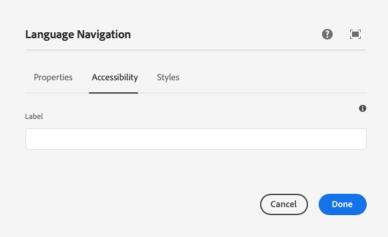
Language Navigation: Design

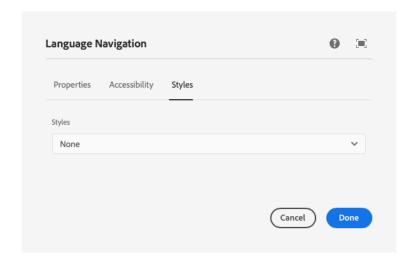
- English
- Español
- German



Language Navigation: Edit





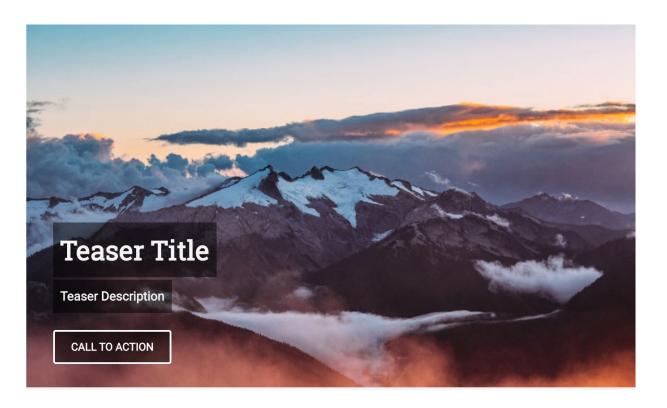


Core Components: Page

- Title
- Text
- Image
- Button
- Teaser
- Download
- List
- Experience Fragment
- Content Fragment

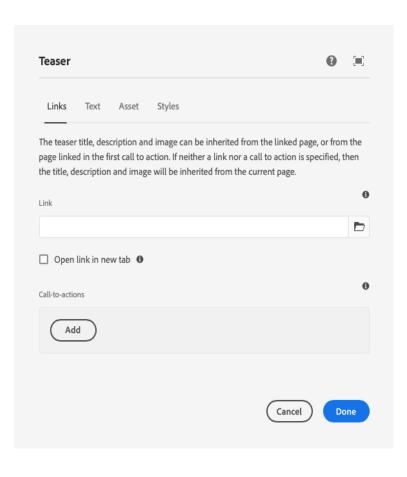
- Content Fragment List
- Embed
- Separator
- Progress Bar
- PDF Viewer

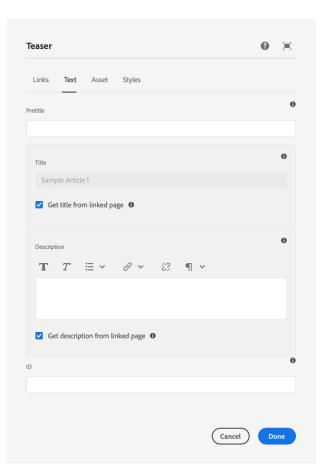
Teaser: Design

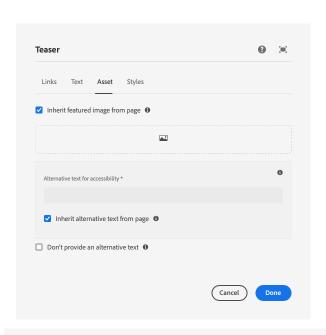


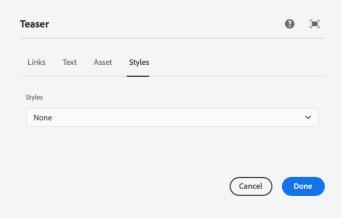
	Teaser	Styles	
Call-To-Actions			
☐ Disable Call-To-Actions			
Elements			
☐ Hide pretitle			
☐ Hide title			
☐ Show title type			
☐ Hide description			
Default Title Type			
(default)			~

Teaser: Edit

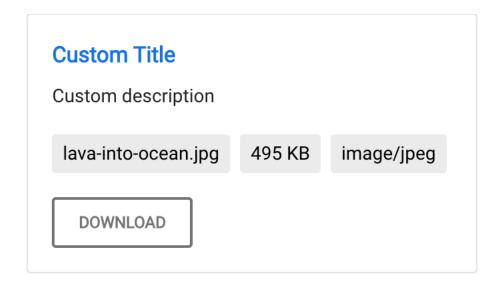


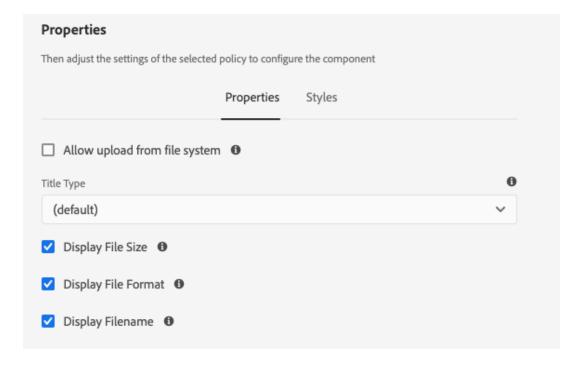




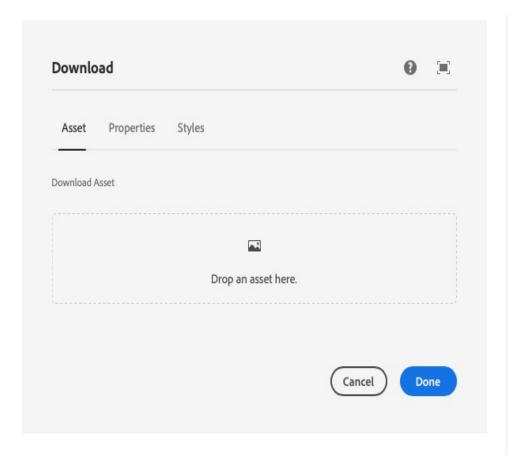


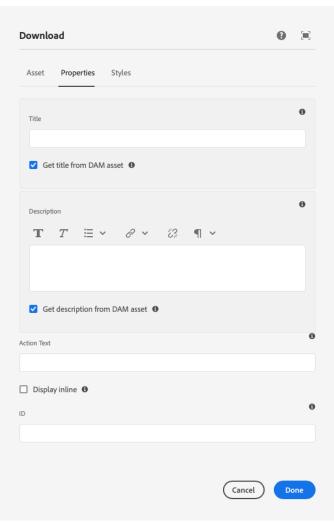
Download: Design

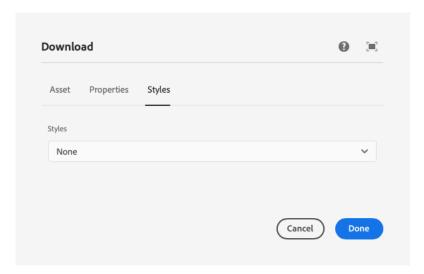




Download: Edit





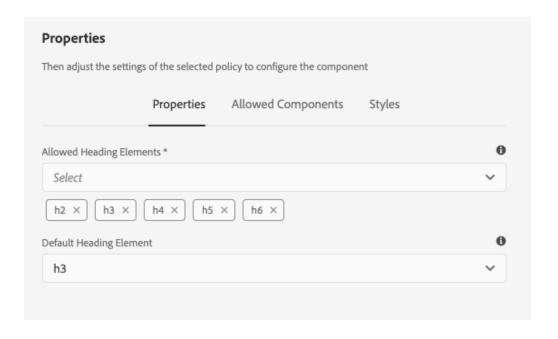


Core Components: Container

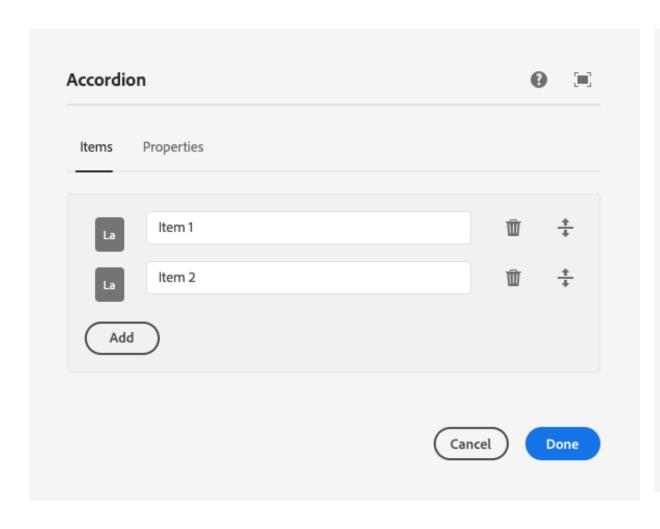
- Container
- Carousel
- Tabs
- Accordion

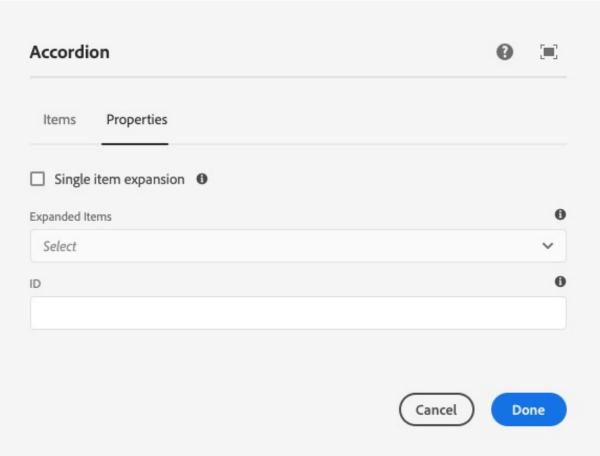
Accordion: Design



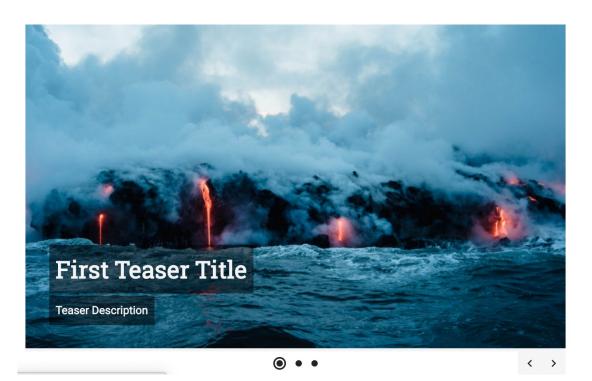


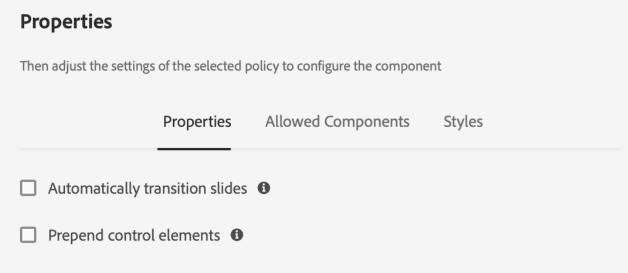
Accordion: Edit



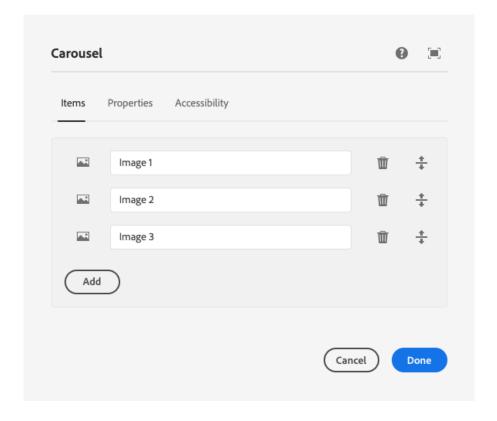


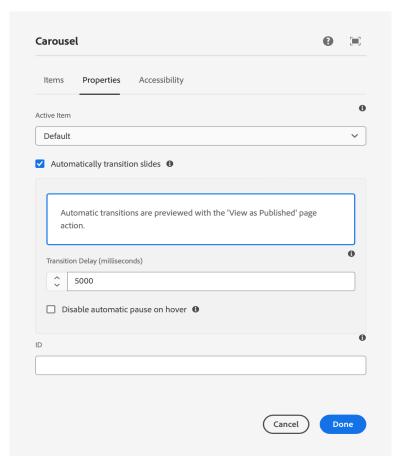
Carousel: Design

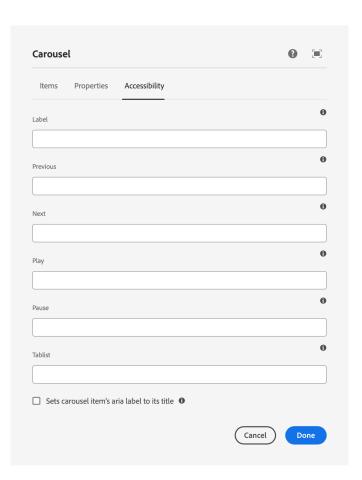




Carousel: Edit







Core Components: Form

- Form Container
- Form Text
- Form Options
- Form Hidden
- Form Button

Form Button

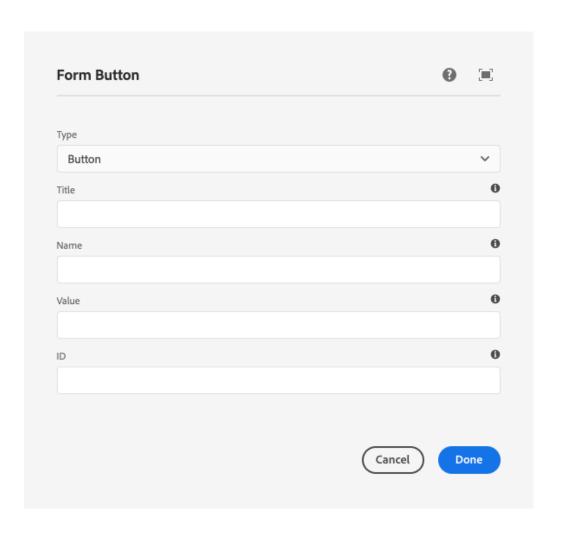
Name

Please enter your name

E-Mail

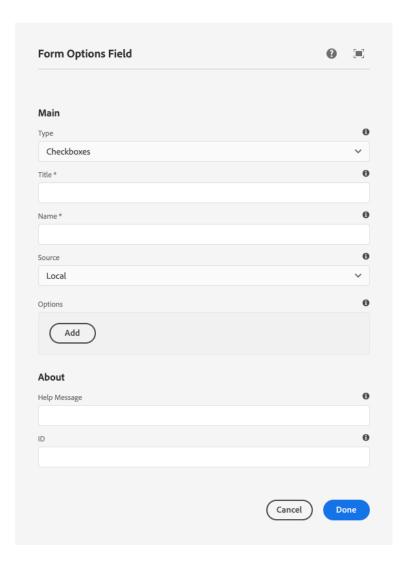
Please enter your E-Mail

SUBMIT



Form Options

Venue Planning——————————————————————————————————
We like to plan our events and prepare the meals in advance, please help us by choosing your preferences
□ I attend alone
☐ I attend with spouse
□ I eat meat
\square I am vegetarian
\square Spouse is vegetarian
☐ Spouse eats meat



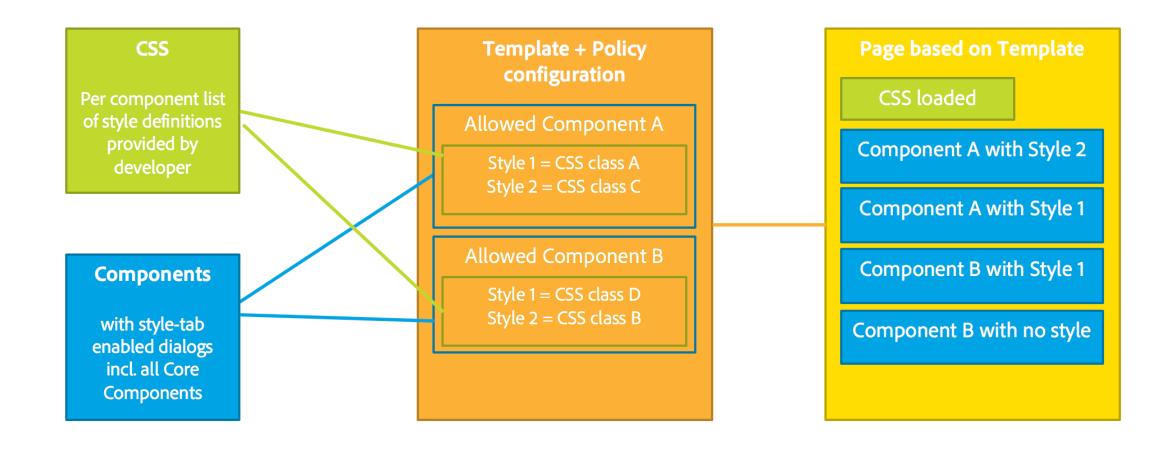
Style System



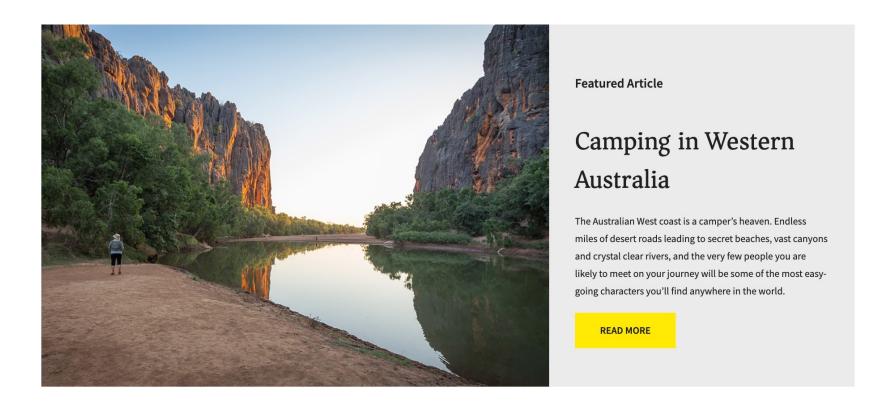
Style System: Overview

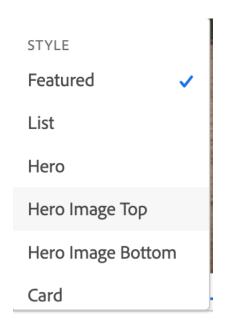
- Layout Styles affect many elements of a Component to create a well define and identifiable rendition (design and layout) of the component, often aligning to a specific re-useable Brand concept
- **Display Styles** are used to affect minor variations to Layout styles, however, they do not change the fundamental nature or intent of the Layout style

Style System



Styles: Teaser component (Featured)





Styles: Teaser Component (Hero)

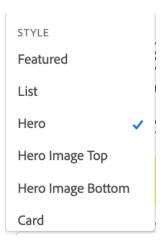


Featured Article

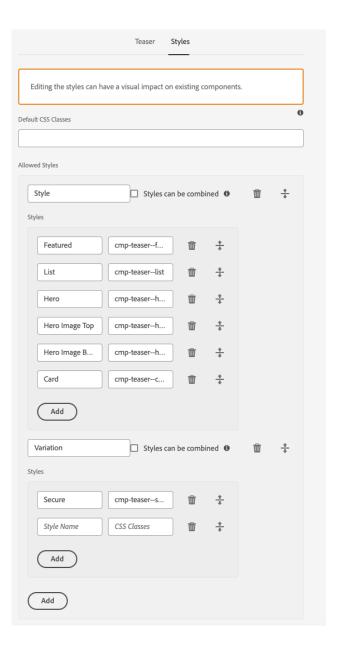
Camping in Western Australia

The Australian West coast is a camper's heaven. Endless miles of desert roads leading to secret beaches, vast canyons and crystal clear rivers, and the very few people you are likely to meet on your journey will be some of the most easy-going characters you'll find anywhere in the world.

READ MORE



Styles: Teaser Component (Design)



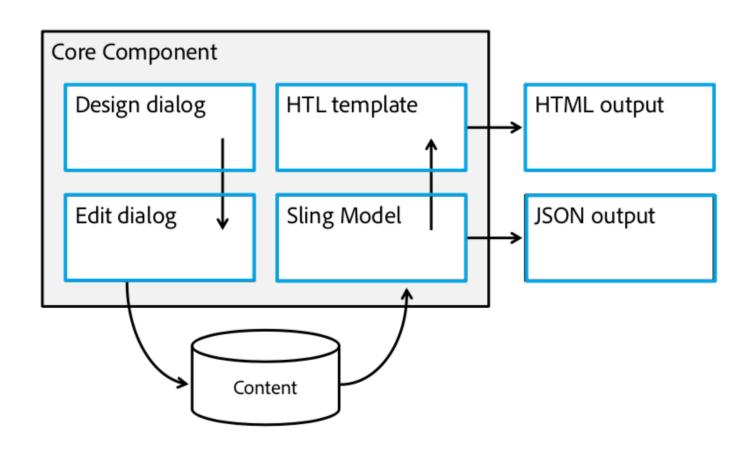
Style Organization: Best Practices

- Name styles using a vocabulary understood by the authors
- Minimize the number of style options
- Only expose style options and combinations that are allowed by brand standards
- Only expose style combinations that have an effect

Customizing Core Components



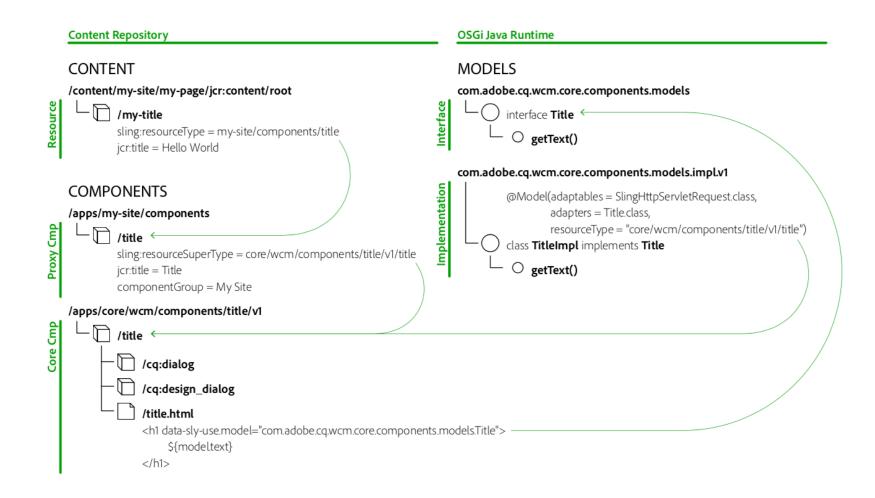
Core Component Architecture



Core Component Architecture

```
resource
    /content/my-site/my-page/jcr:content/root/title
        jcr:primaryType = "nt:unstructured"
         sling:resourceType = "my-site/components/title"
    /apps/my-site/components/title ⁴
         jcr:primaryType = "cq:Component"
         sling:resourceSuperType = "core/wcm/components/title/v1/title"
    /apps/core/wcm/components/title/v1/title
        jcr:primaryType = "cq:Component"
         /title.html
             data-sly-use.model="com.adobe.cq.wcm.core.components.models.Title"
    package com.adobe.cq.wcm.core.components.models;
    public interface Title { ... } 
    package com.adobe.cq.wcm.core.components.models.impl.v1;
    @Model(adaptables = SlingHttpServletRequest.class,
           adapters = Title.class,
           resourceType = "core/wcm/components/title/v1/title")
    public class TitleImpl implements Title { ... }
```

Core Component Architecture





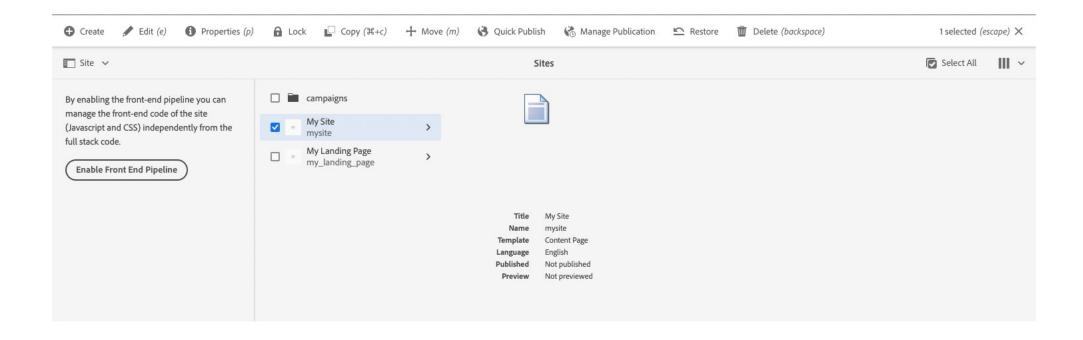
How to Succeed with Core components

- Start Early
- Map your designs to the core components
- Reference the component Library
- Use the UI Kit for Adobe XD
- Only create custom components if the functionality can not be achieved by extending core component

AEM Front-End pipeline



AEM Front-End Pipeline



AEM Front-End Pipeline

Enable Front End Pipeline Confirmation

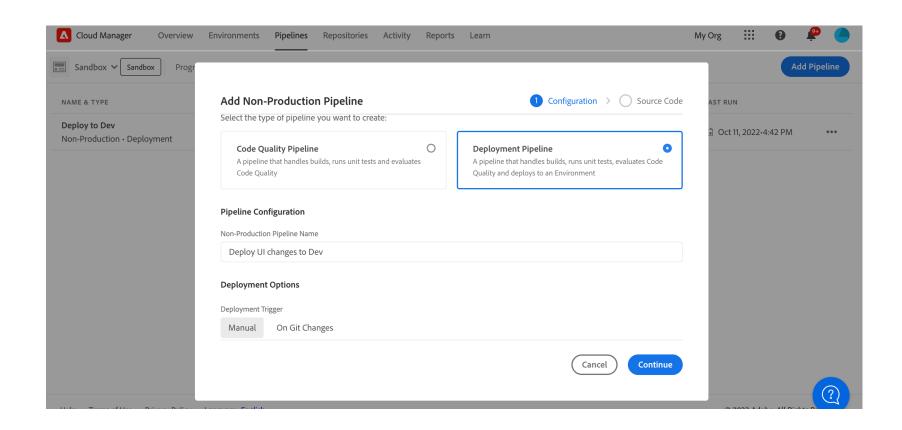
This action will have following effects:

- All pages of the site will include one additional CSS and JS file, which can be modified by deploying updates through a dedicated Cloud Manager front end pipeline.
- The added CSS and JS files will initially be empty, but a "theme sources" folder can be downloaded to bootstrap the folder structure that allows to deploy CSS and JS code updates via that pipeline.
- This change can only be undone by a developer, by deleting the SiteConfig and HtmlPageItemsConfig nodes that this operation creates below /conf/SITENAME/sling:configs.
- This action won't automatically convert the existing client libraries of the site to use the font end pipeline. Moving these sources from the client library folder to the front end pipeline folder is a task that requires manual work by a front end developer.

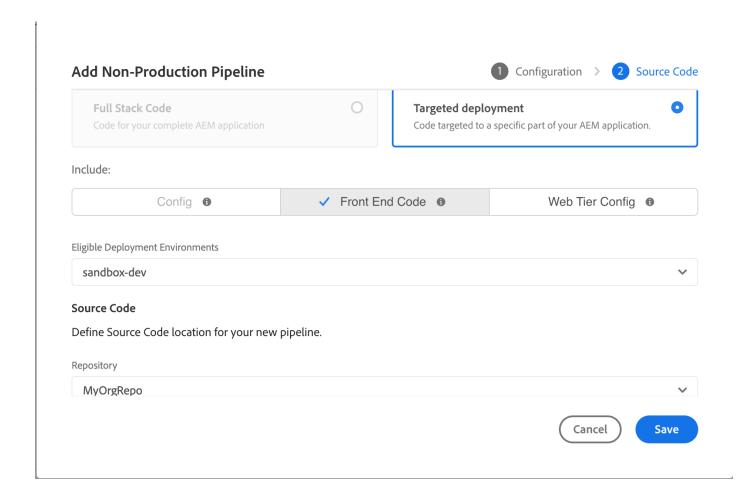


Confirm

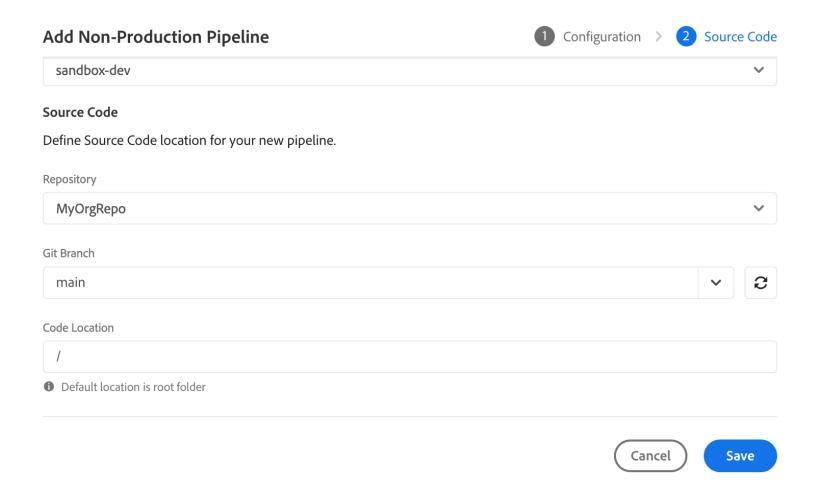
Configure Pipeline using CM



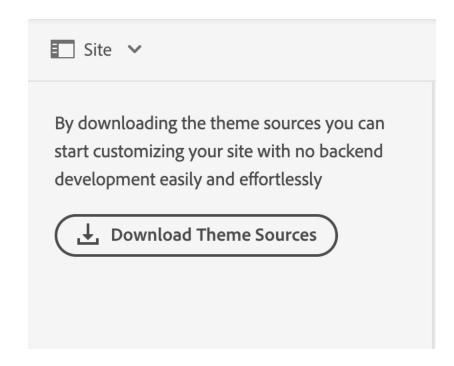
Configure Pipeline using CM



Configure Pipeline using CM



AEM Front-End Pipeline





Fireside Q&A

Thank You!

Appendix

- https://experienceleague.adobe.com/docs/experience-manager-core-components/using/introduction.html?lang=en
- https://experienceleague.adobe.com/docs/experience-manager-core-components/using/success.html?lang=en
- https://www.aemcomponents.dev/content/core-components-examples/library/core-structure/language-navigation/language-navigation/language-structure/us/en/language-navigation.html