



# Adobe Experience Manager Sites – Core Components

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# Agenda

1. What are the Core Components and what they do
2. Demo of the main components and features
3. Technical: How to use and extend them



# Core Components

AEM Sites components that cover the most common web content needs.

Core Components are

- **Pre-Configurable** Templates can define how the page authors can use them.
- **Versatile** Authors can create most kind of content with them.
- **Easy to Use** Authors can efficiently create and manage content with them.
- **Production Ready** Useable as-is, because they are robust, well tested and perform well.
- **Accessible** They comply WCAG 2.0 standard, provide ARIA labels and support keyboard navigation.
- **Easy to Style** The components implement the Style System and the markup follows BEM CSS naming.
- **SEO Friendly** The HTML output is semantic and provides schema.org microdata annotations.
- **PWA/SPA/App Ready** Their streamlined JSON output can also be used for client-side rendering.
- **Extensible** To cover custom needs but without starting from scratch, everything can be extended.
- **Open Sourced** If something is not as it should, contribute improvements on GitHub (Apache License).
- **Versioned** We won't break your site when improving things that might impact you.

# Launched on November 20, 2018

## Core Components 2.2.2

- Includes 19 components
- Provides enhancements for the recently released Tabs and Carousel components
- Minimum requirements: 6.3.3.0 & 6.4.2.0



# The Components

## Template components

1. **Page:** Responsive page that works well with the Template Editor.
2. **Navigation:** Site navigation that handles globalized structures.
3. **Language Navigation:** Displays the language structure of a site.
4. **Breadcrumb:** Lists the hierarchy of parent pages.
5. **Quick Search:** Incremental search field.

## Atomic components

6. **Title:** Headings configurable to allow levels 1 to 6.
7. **Text:** Plain or rich text with configurable capabilities.
8. **Image:** Smart image display with configurable capabilities.

## Social components

9. **Sharing:** Facebook and Pinterest widgets.

## Reference components

10. **List:** Lists pages that match the configured criteria.
11. **Teaser:** Visual link to a page teasing its content with an image.
12. **Content Fragment:** Displays reusable content.

## Container components

13. **Carousel:** Slideshow presentation of content.
14. **Tabs:** Organizes content into accessible tabs.

## Form components

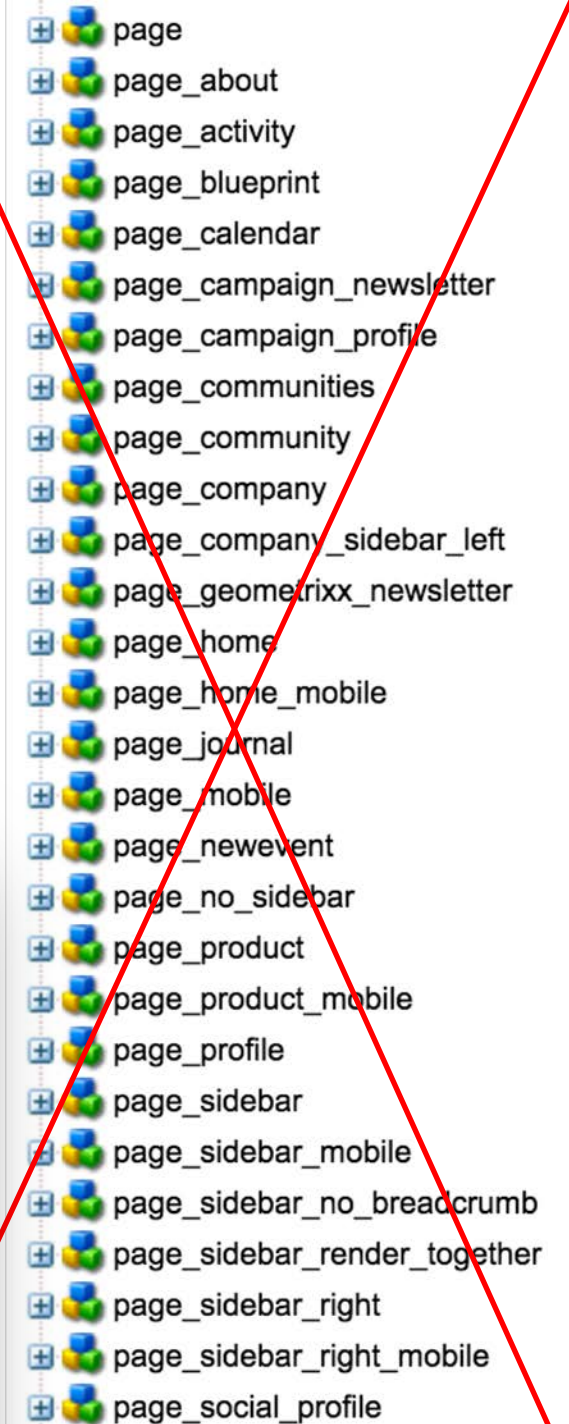
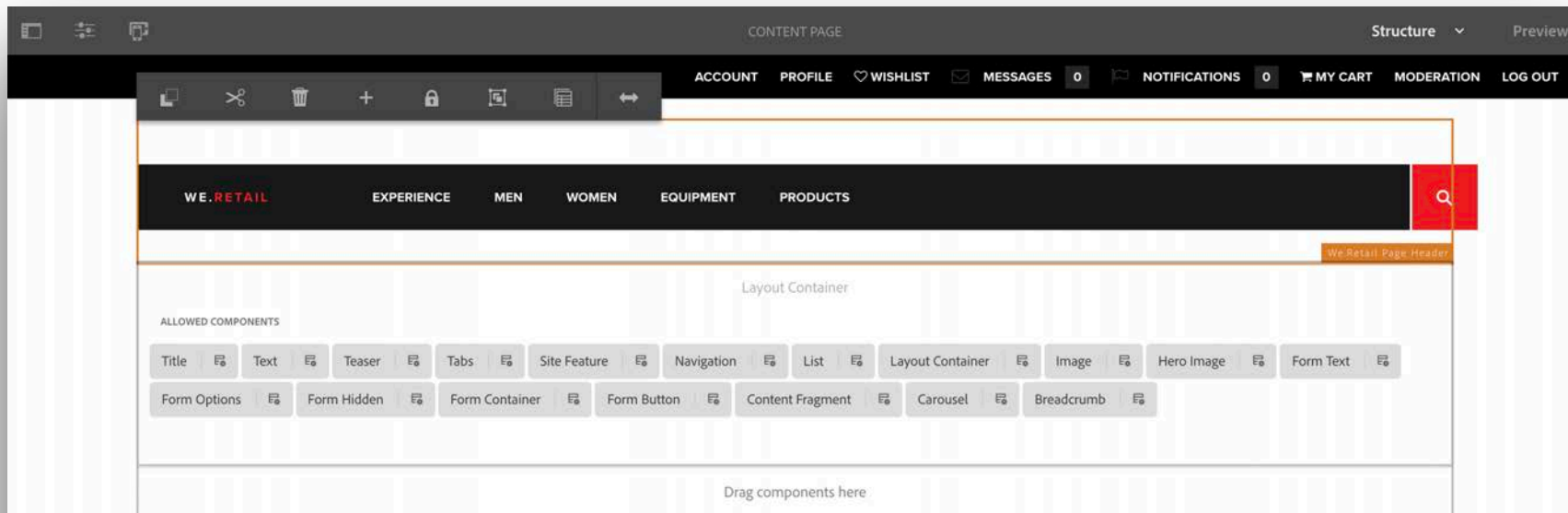
15. **Form Container:** Form paragraph system.
16. **Form Text:** Text input field (text, text area, email, phone, date, ...).
17. **Form Options:** Multi-input field (checkboxes, radios, drop-down, ...).
18. **Form Button:** Submit or scriptable button.
19. **Form Hidden:** Invisible input field, for sending information along.

# Template Editor

The Core Components require the Template Editor.

## Purpose

- Replaces the classic UI Design mode.
- This is where the components can be pre-configured for the author.
- Offers a UI to compose page variations, instead of hard-coding them.
- Supports the responsive grid to accommodate for different layout.



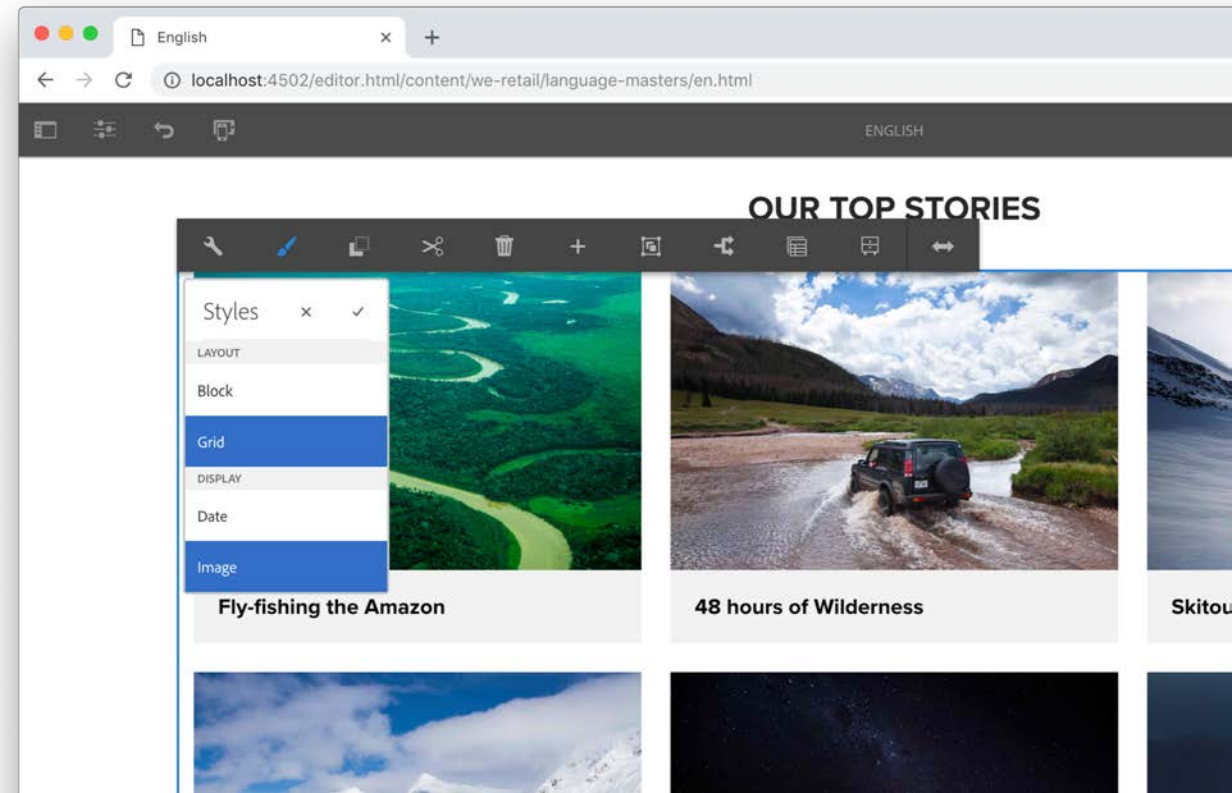
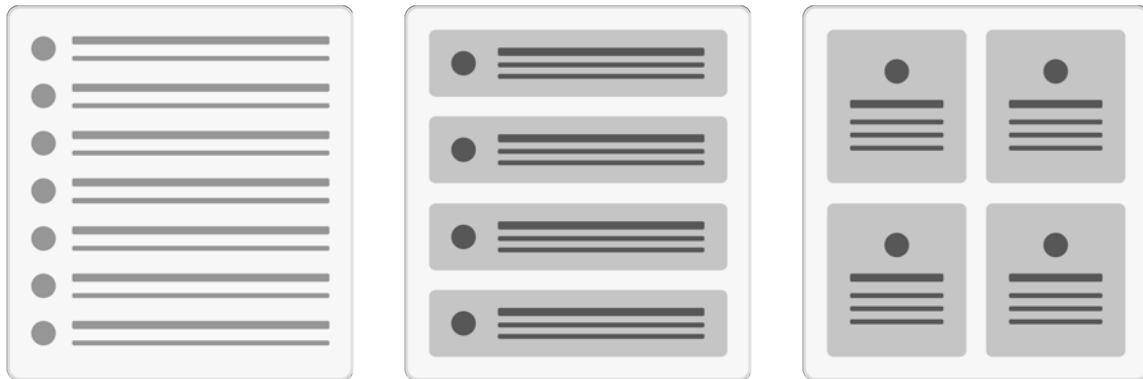
# Style System

The Core Components implement the Style System.

Purpose

- Allow content authors to apply visual variants to components.
- Avoids duplicating the components for just applying a different CSS class to it.

Example of a List component that can have different visual representations, but a single implementation.



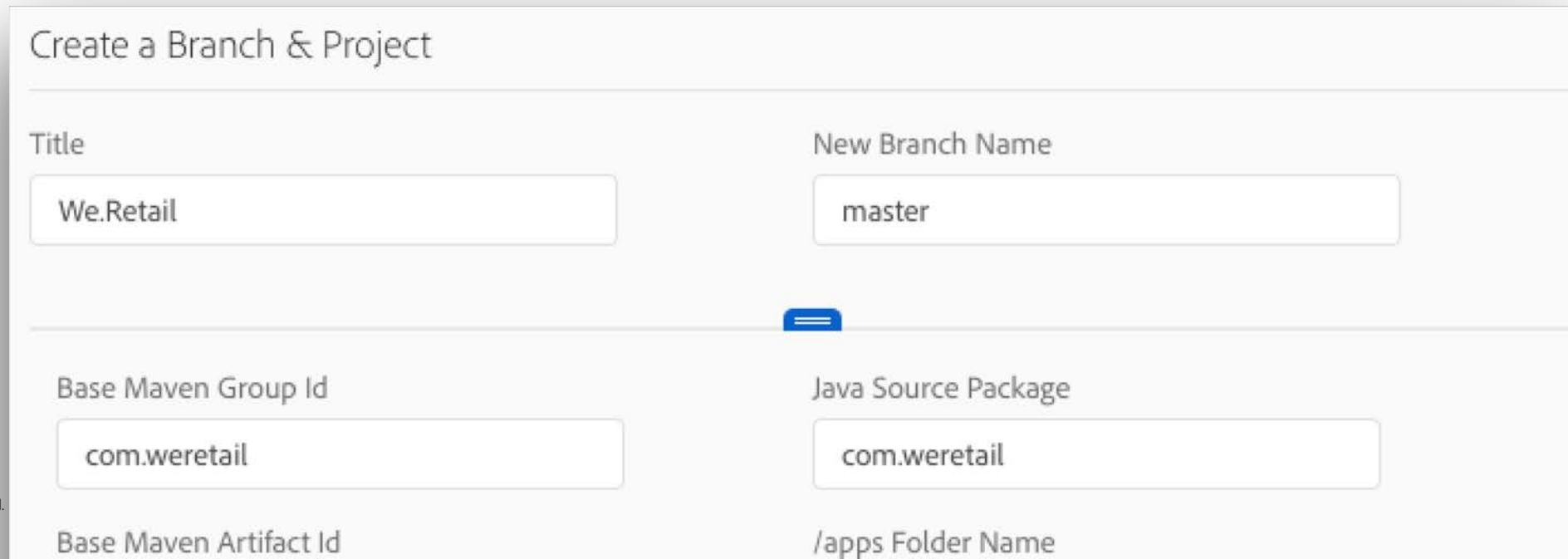
# Archetype

The Core Components are featured in the AEM Project Archetype.

## Purpose

- Template to easily create a new AEM Sites project.
- Enables all Core Components capabilities: Template Editor, Style System & Responsive Layout.

The new Cloud Manager provides a UI to create new AEM projects which uses the Archetype.



The screenshot shows a web form titled "Create a Branch & Project". The form is divided into two main sections by a horizontal line with a blue equals sign icon in the center. The top section contains two input fields: "Title" with the value "We.Retail" and "New Branch Name" with the value "master". The bottom section contains two input fields: "Base Maven Group Id" with the value "com.weretail" and "Java Source Package" with the value "com.weretail". Below these, the labels "Base Maven Artifact Id" and "/apps Folder Name" are visible but their corresponding input fields are not fully shown.



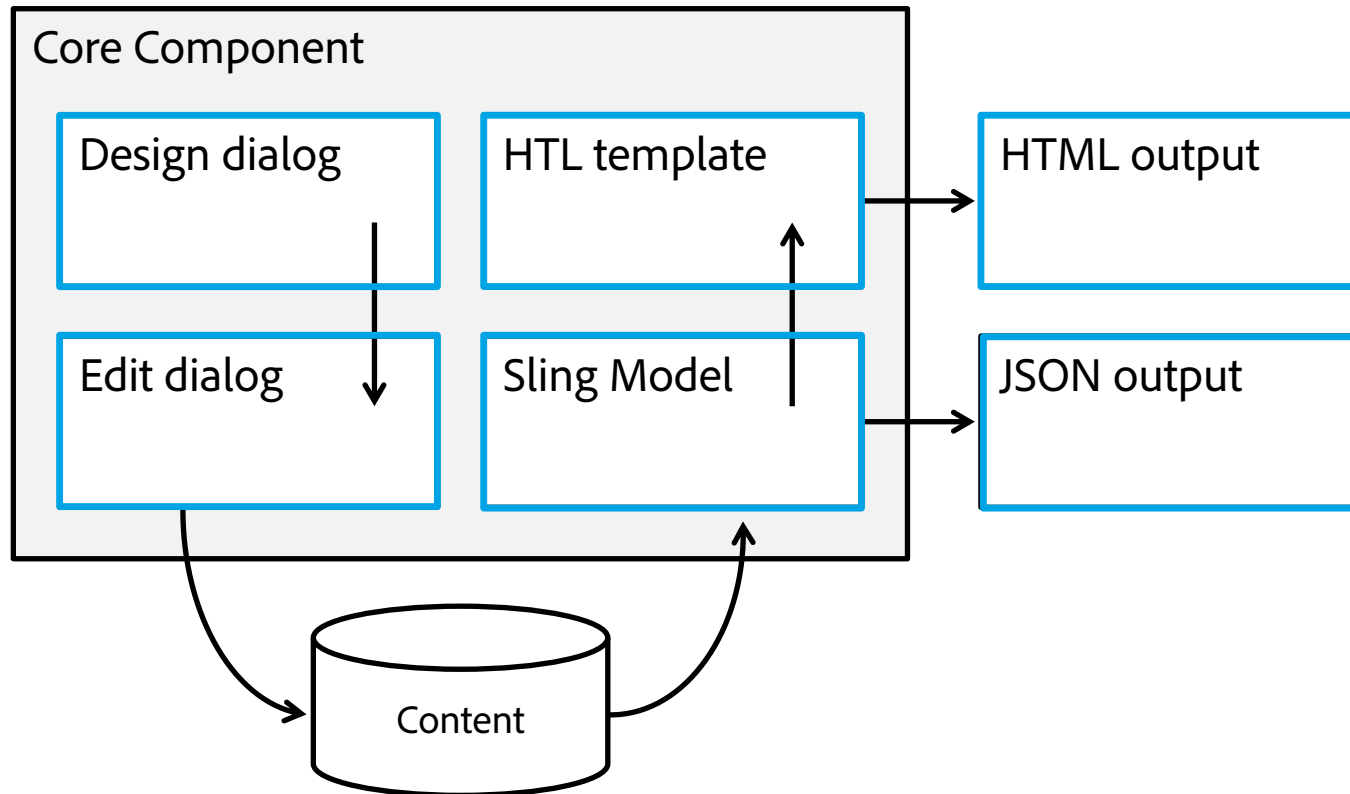
Enough talking!

Show me the demo.



# Anatomy

What makes the Core Components versatile and extensible.

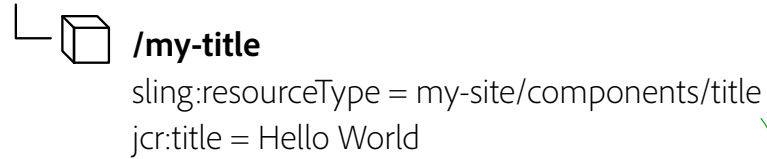


- Design dialog defines what authors can or cannot do in the edit dialog.
- Edit dialog shows authors only the options they are allowed to use.
- Sling Model verifies and prepares the content for the view (template).
- Result of the Sling Model can be serialized to JSON for SPA use-cases.
- HTL renders the HTML server-side for traditional server-side rendering.
- HTML output is semantic, accessible, search-engine optimized, and easy to style.
- Implement the Style System.

## CONTENT

/content/my-site/my-page/jcr:content/root

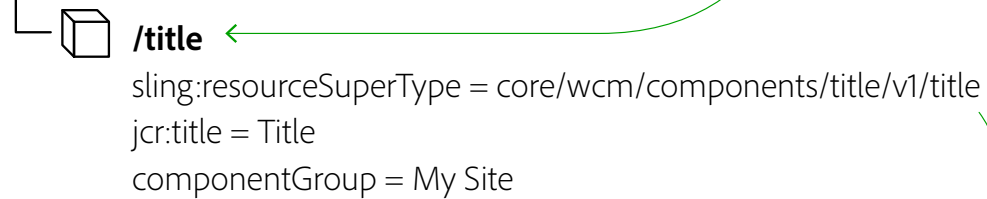
Resource



## COMPONENTS

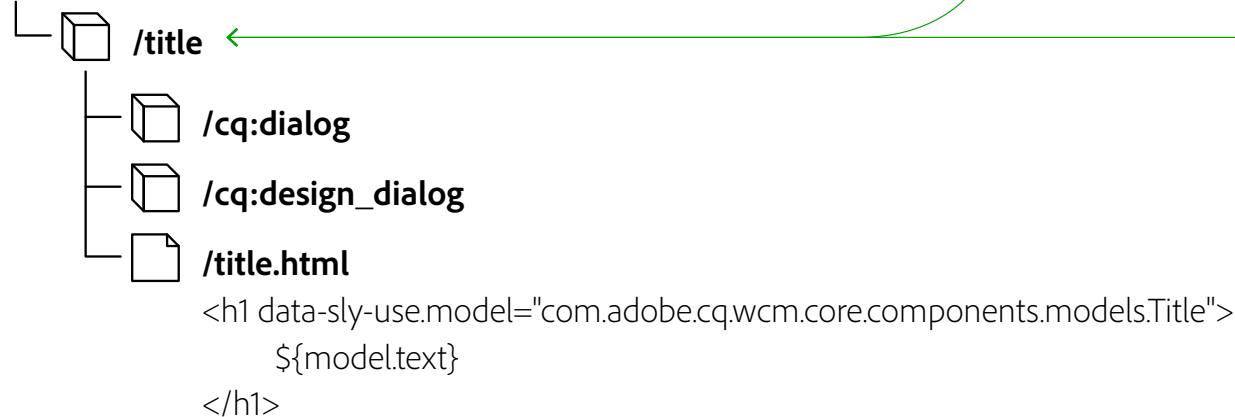
/apps/my-site/components

Proxy Cmp



/apps/core/wcm/components/title/v1

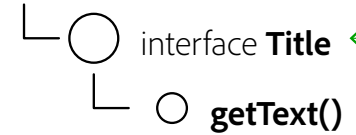
Core Cmp



## MODELS

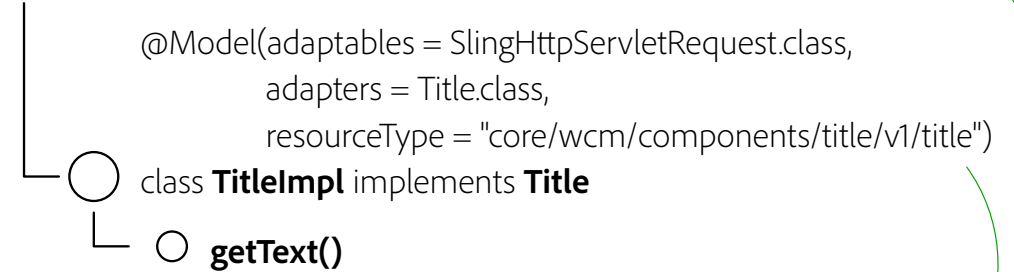
com.adobe.cq.wcm.core.components.models

Interface



com.adobe.cq.wcm.core.components.models.impl.v1

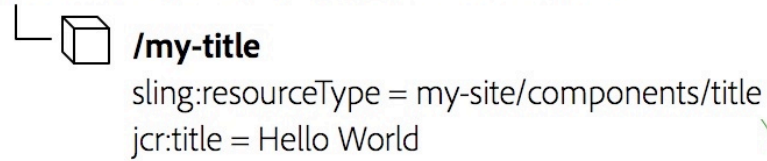
Implementation



### CONTENT

/content/my-site/my-page/jcr:content/root

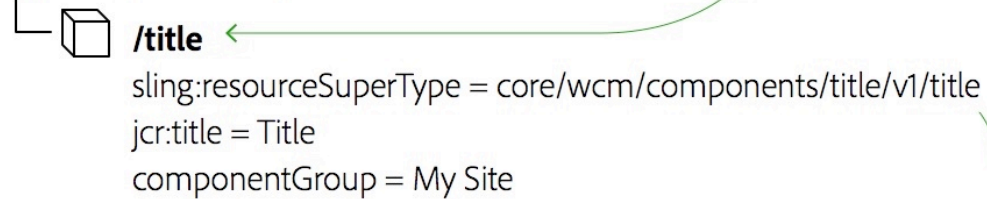
Resource



### COMPONENTS

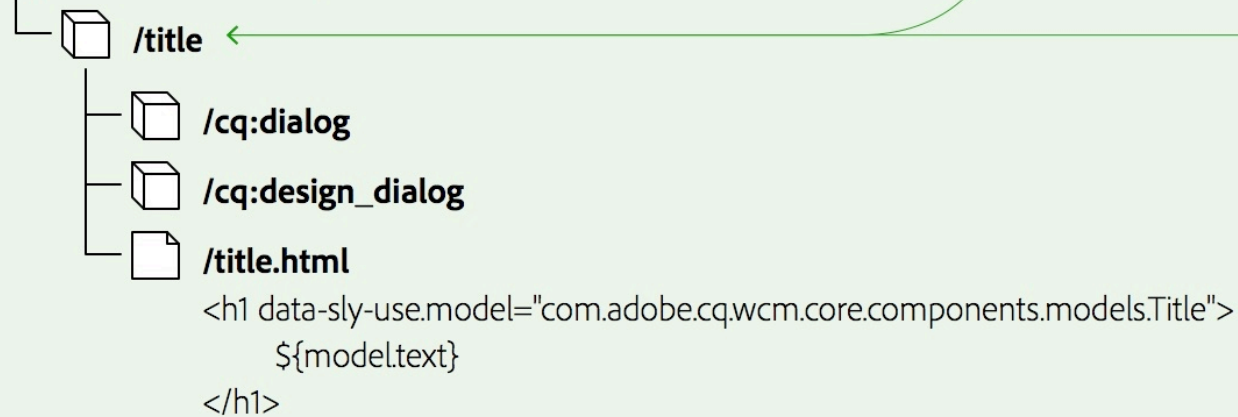
/apps/my-site/components

Proxy Cmp



/apps/core/wcm/components/title/v1

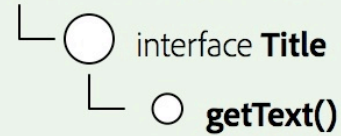
Core Cmp



### MODELS

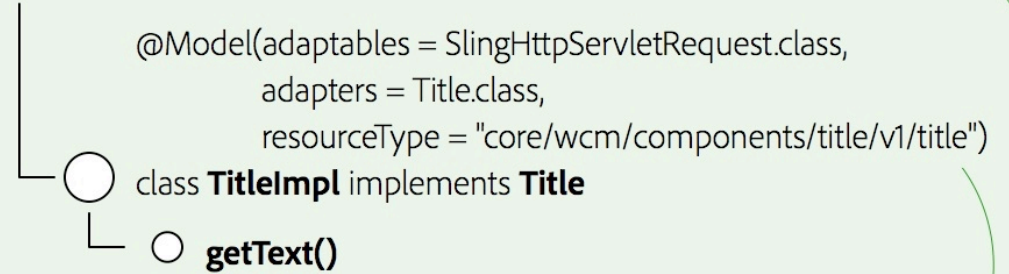
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Interface



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Implementation

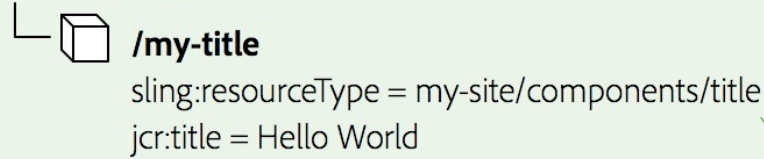


CORE COMPONENT

## CONTENT

/content/my-site/my-page/jcr:content/root

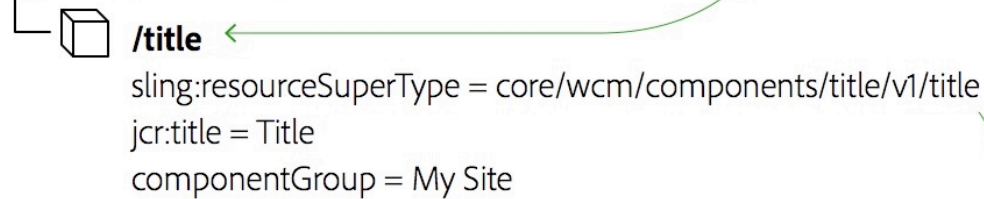
Resource



## COMPONENTS

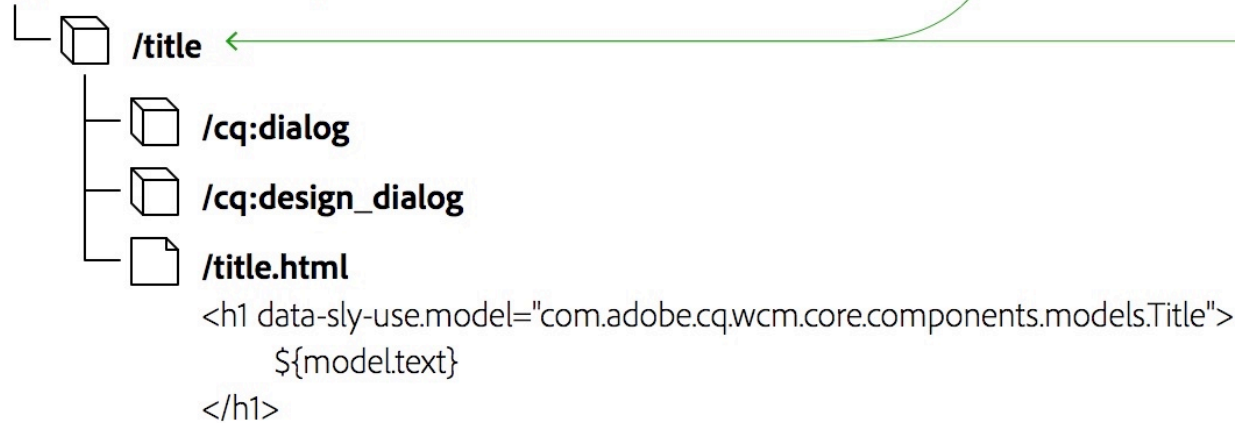
/apps/my-site/components

Proxy Cmp



/apps/core/wcm/components/title/v1

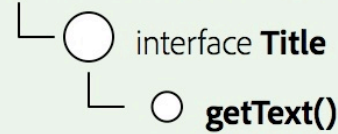
Core Cmp



## MODELS

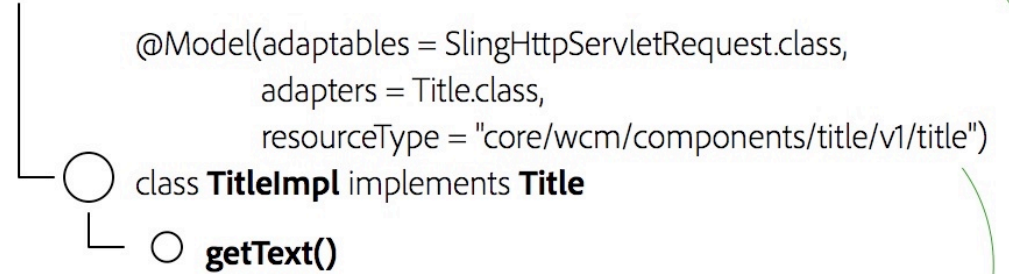
com.adobe.cq.wcm.core.components.models

Interface



com.adobe.cq.wcm.core.components.models.impl.v1

Implementation



STABLE API

# Delegation Pattern for Sling Models

The implementation of the Core Component's models is private, but can be extended with the delegation pattern.

```
@Model(adaptables = SlingHttpServletRequest.class,  
       adapters = Title.class,  
       resourceType = "myproject/components/pageHeadline")  
public class PageHeadline implements Title {  
  
    @ScriptVariable private Page currentPage;  
  
    @Self @Via(type = ResourceSuperType.class)  
    private Title title;  
  
    @Override public String getText() {  
        return currentPage.getTitle();  
    }  
  
    @Override public String getType() {  
        return title.getType();  
    }  
}
```

→ <https://github.com/adobe/aem-core-wcm-components/wiki/Delegation-Pattern-for-Sling-Models>

# Versioning

Incompatible changes to following aspects of components will result in a new version of them:

1. Sling Models (following semantic versioning guidelines)
2. HTL Scripts and Templates
3. HTML Markup and CSS Selectors
4. JSON Representation
5. Dialogs

→ <https://github.com/adobe/aem-core-wcm-components/wiki/Versioning-Policies>

# Conclusion

The Core Components have a ton of features, don't waste your time by re-implementing them. They are versatile and extensible; leverage them and contribute in case anything is missing.

→ [github.com/adobe/aem-core-wcm-components](https://github.com/adobe/aem-core-wcm-components)

Get started with the “WKND” Tutorial → [bit.ly/aem-wknd](https://bit.ly/aem-wknd)

Do you want us to reach out to you for feedback? → [bit.ly/aem-core-cmp-reg](https://bit.ly/aem-core-cmp-reg)

**March 26–28, 2019:** Please join us at Summit, we'll present several sessions and labs about related topics like “Developing Sites” and “Modernizing an existing implementation”.





**Adobe**