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# 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



### Core Components

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

### Core Components are

Pre-Configurable	Template i	policies can	define how the	page authors can	use them.
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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 The streamlined JSON output of the Sling Models can also be used for client-side rendering.

**Extensible** To also 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.

### 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.
- 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

- 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, ...).
- 77. **Form Options**: Multi-input filed (checkboxes, radios, drop-down, ...).
- 18. Form Button: Submit or scriptable button.
- 19. Form Hidden: Invisible input field, for sending information along.

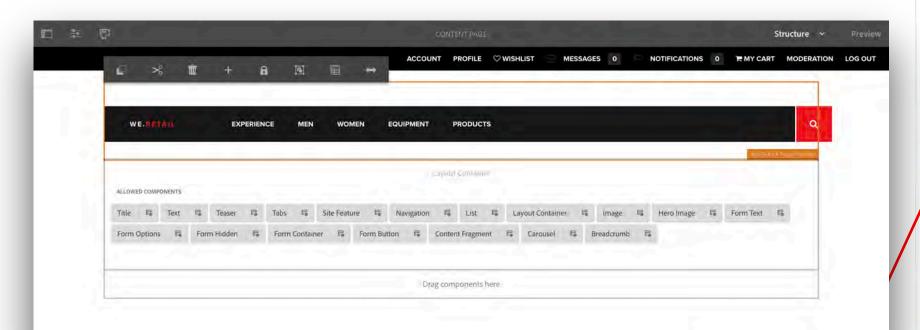


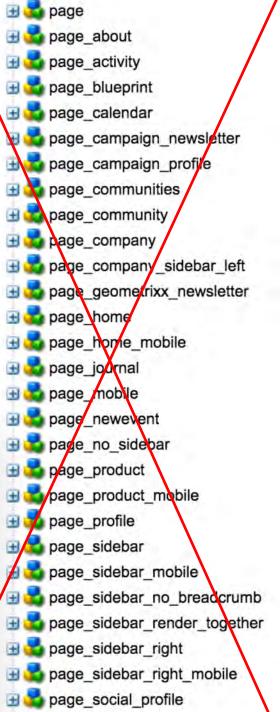
# Template Editor

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.





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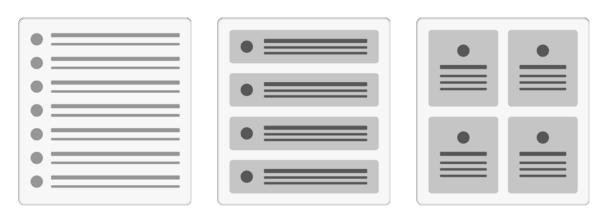
## Style System

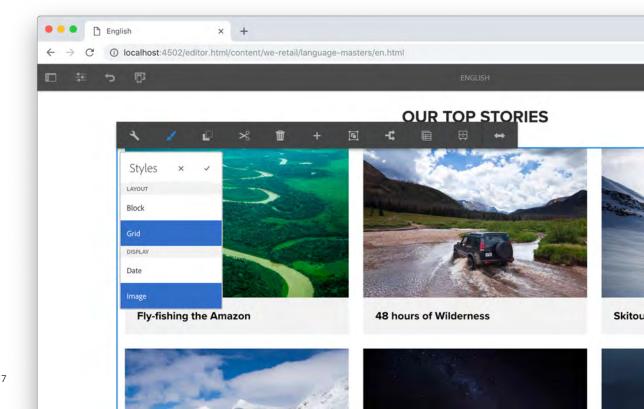
The Core Components implement the Style System.

#### 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:





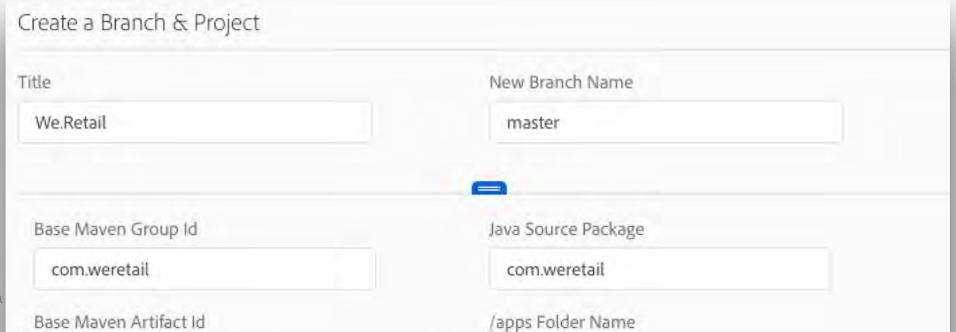
# Archetype

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.

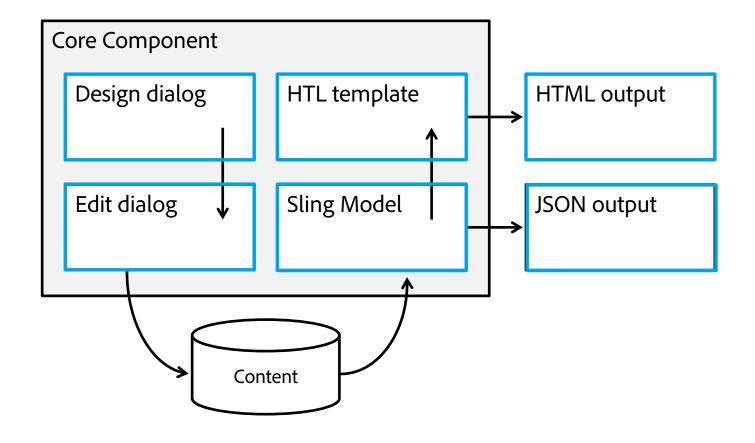
The new Cloud Manager provides a UI to create new AEM projects which uses the Archetype.





### Anatomy

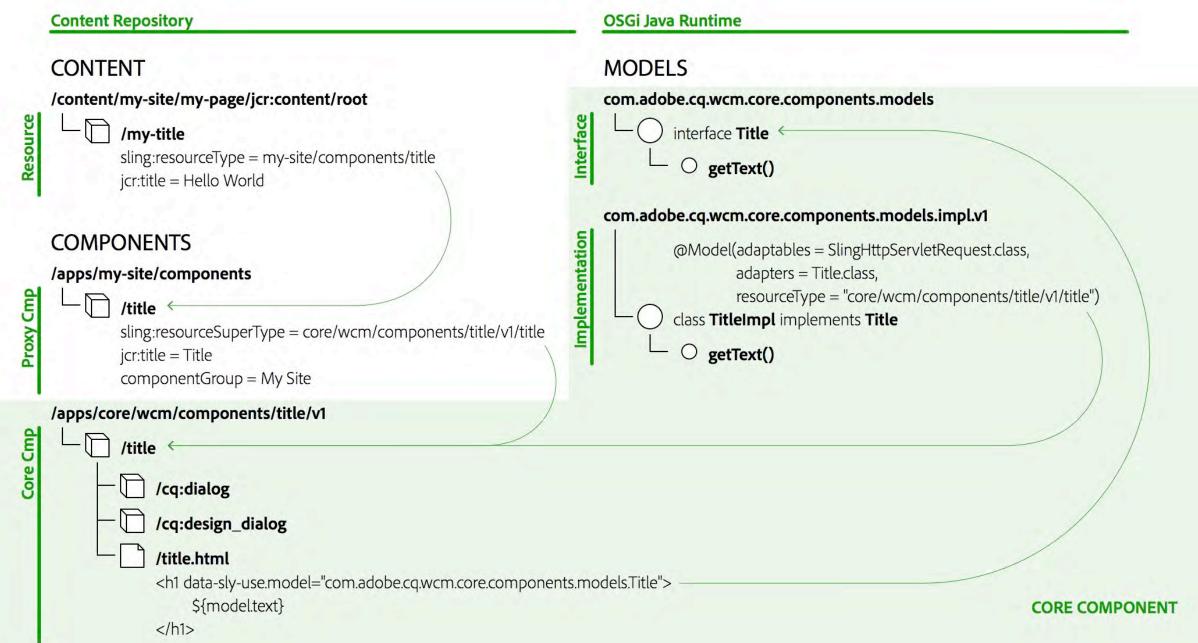
What makes the Core Components versatile and extensible.



- 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.









# 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();
```

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



# 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. Edit and Design Dialog tabs

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



### 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

Get started with the "WKND" Tutorial → bit.ly/aem-wknd

Do you want us to reach out to you for feedback? 

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".

