



adaptTo()

EUROPE'S LEADING AEM DEVELOPER CONFERENCE
21st – 23rd OCTOBER 2024

(Not) Implementing Custom AEM Components
for Edge Delivery Services / Crosswalk
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Built-in AEM Components for Edge Delivery Services

Franklin AEM Components

- `/libs/core/franklin/components/page`
- `/libs/core/franklin/components/image`
- `/libs/core/franklin/components/title`
- `/libs/core/franklin/components/text`
- `/libs/core/franklin/components/block`
- ...

Page
Component

Default
Content

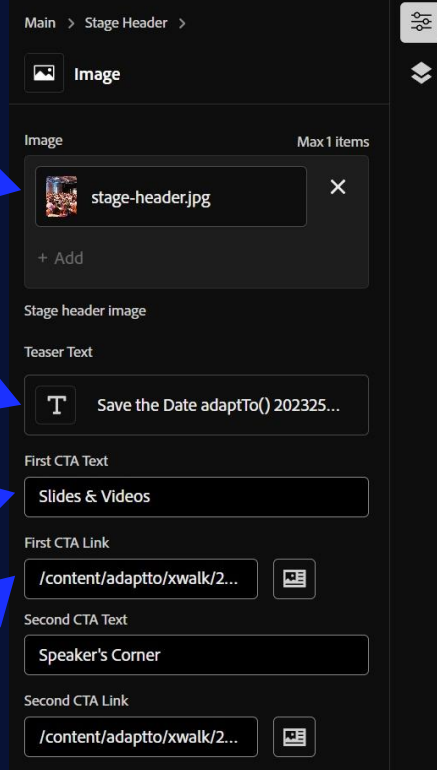
Custom
Blocks
(multiple properties)

Custom Block Example: Teaser



```
component-definition.json
{
  "title": "Stage Header",
  "id": "stage-header",
  "plugins": {
    "xwalk": {
      "page": {
        "resourceType": "core/franklin/components/block/v1/block",
        "template": {
          "name": "Stage Header",
          "model": "stage-header"
        }
      }
    }
  }
}
```

```
component-models.json
{
  "id": "stage-header",
  "fields": [
    {
      "component": "reference",
      "valueType": "string",
      "name": "fileReference",
      "label": "Image",
      "multi": false
    },
    {
      "component": "richtext",
      "valueType": "string",
      "name": "text",
      "value": "",
      "label": "Teaser Text"
    },
    {
      "component": "text",
      "valueType": "string",
      "name": "cta1Text",
      "value": "",
      "label": "First CTA Text"
    },
    {
      "component": "aem-content",
      "valueType": "string",
      "name": "cta1",
      "value": "",
      "label": "First CTA Link"
    }
  ]
}
```



Limitations (by Design)

- AEM Component is completely generic
- Mimics the minimalistic approach of Document-Based Authoring
 - Default Content
 - Property Tables
 - Max. 1 Nesting-Level

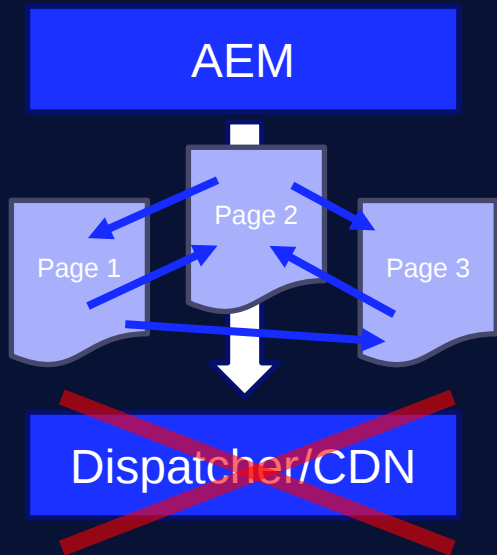
Parent-Child Components
e.g., Image Carousel, Cards

Limitations (by Design)

- Absolutely no *custom* server-side logic
- Franklin AEM components not extensible
- All custom logic implemented in the Client

Caching Concept Comparison

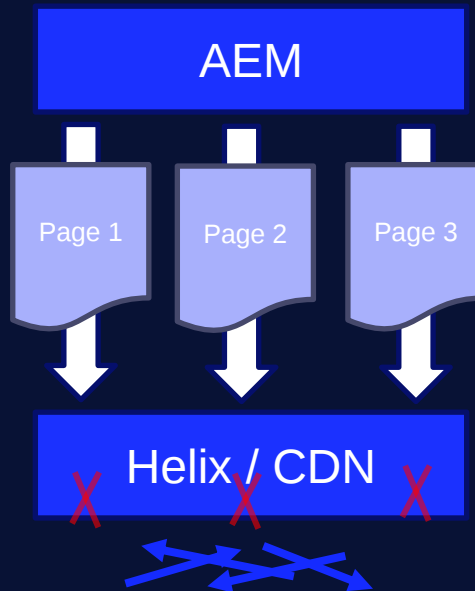
Traditional AEM(aaCS)



AEM publishes pages with components full of content includes from other nodes/properties

In case of invalidation, **whole site cache** is purged

Edge Delivery Services & AEM



Each Page contains only its own content

Each page cached and invalidated **individually**

References/Inclusions build on the client-side

Custom AEM Components for Edge Delivery Services

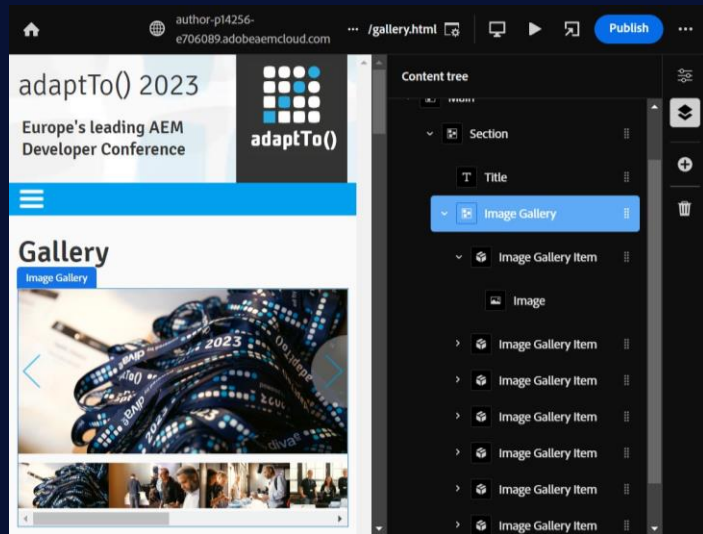
**Don't Try
this at Home
(or your Project)**

**Discouraged by
Adobe**

**But technically,
it's possible**

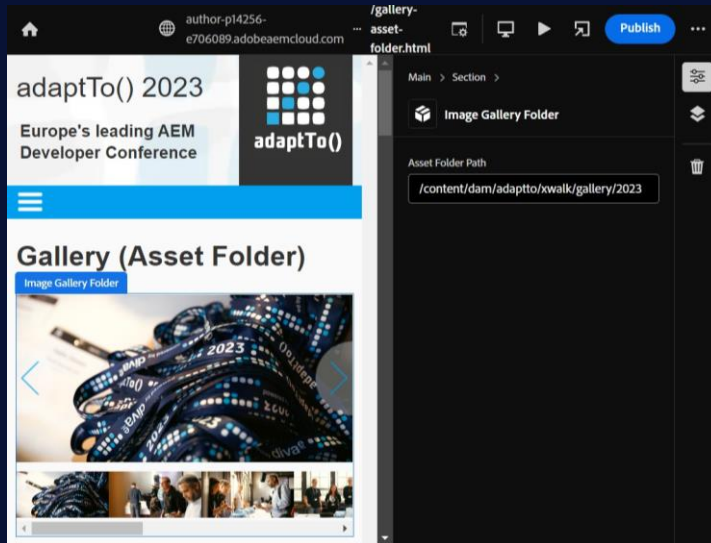
Custom Component: Image Gallery

Child component for each image



Generic Block component

Asset folder reference



Custom component backed by Sling Model

[ImageGalleryFolder.java](#) | [imageGalleryFolder.html](#)
[component-definition.json](#) | [component-models.json](#)

Custom Component for EDS

- Think twice or thrice how to map your use case to EDS concepts
- Often, you find a good solution on the client-side – but different from what you would have done traditionally in AEM
- Discuss at [AEM Discord](#)