

adaptTo()

APACHE SLING & FRIENDS TECH MEETUP
BERLIN, 23-25 SEPTEMBER 2013

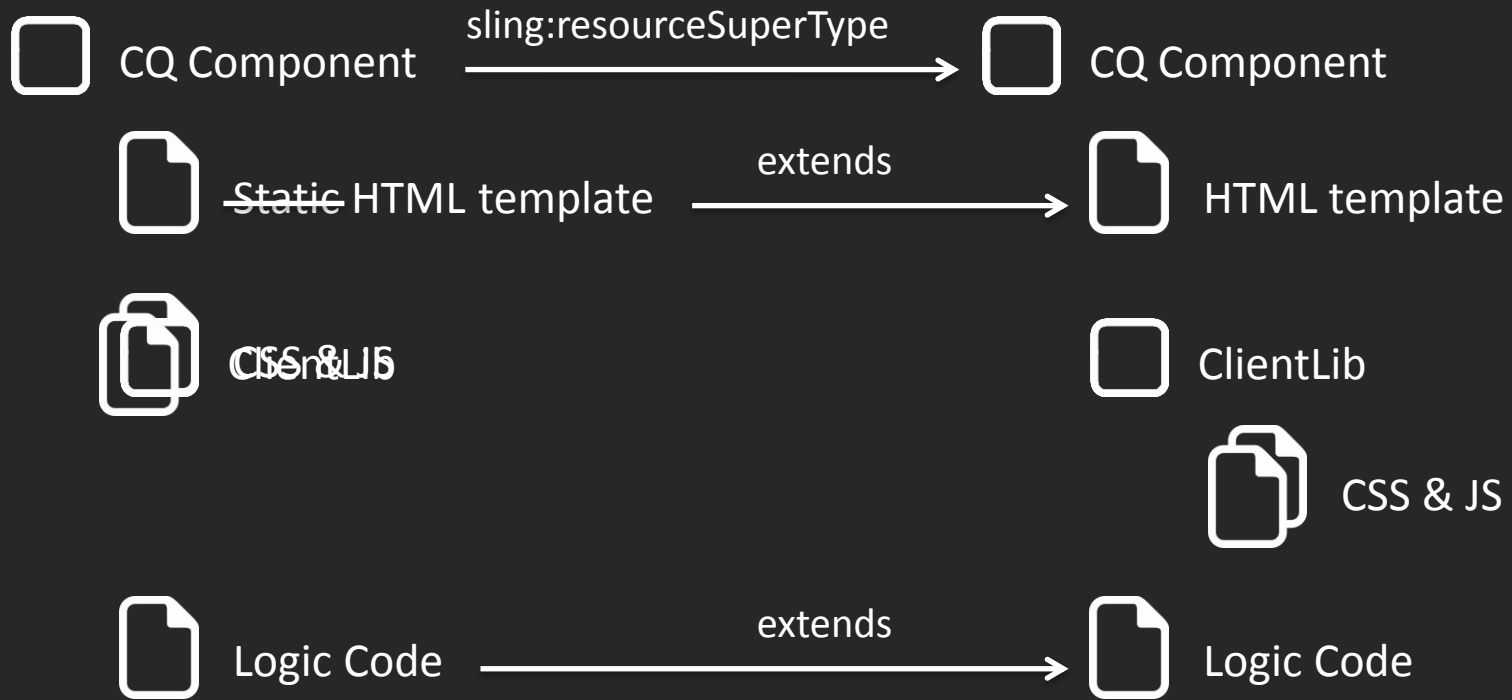
Don't mess with your view!

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Make AEM projects more efficient:

- Valid HTML5
- Intuitive and easy to learn
- Secure by default (built-in XSS protection)
- Enable front-end web developers to build components for AEM
- Simplify and enforce separation of concerns between logic and markup



```
<%@ page session="false"
import="java.util.Date,
      java.text.SimpleDateFormat,
      org.apache.commons.lang3.StringUtils" %><%
%><%@include file="/libs/foundation/global.jsp" %><%

// Set last-modified date
String lastModified = null;
if(!properties.get("cq:lastModified", "").equals("")) {
    SimpleDateFormat sdf = new SimpleDateFormat("d MMM yyyy HH:mm:ss z");
    lastModified = sdf.format(properties.get("cq:lastModified", Date.class));
}

// Set favicon
String favicon = currentDesign.getPath() + "/favicon.ico";
if(resourceResolver.getResource(favicon) == null) {
    favicon = null;
}

%>
<head>
<meta charset="utf-8">
<title><%= currentPage.getTitle() == null ? xssAPI.encodeForHTML(currentPage.getName()) : xssAPI.encodeForHTML(currentPage.getTitle()) %></title>
<cq:include script="/libs/wcm/core/components/init/init.jsp" />
<cq:includeClientLib categories="apps.geometrixx-main" />

<meta name="description" content="<%= xssAPI.encodeForHTMLAttr(properties.get("jcr:description", "")) %>" />
<meta name="keywords" content="<%= xssAPI.encodeForHTMLAttr(WCMUtils.getKeywords(currentPage, false)) %>" />

<% if(properties.get("cq:tags", new String[0]).length > 0) { %>
    <meta name="tags" content="<%= xssAPI.encodeForHTMLAttr( StringUtils.join(properties.get("cq:tags", new String[0]), ",") ) %>" />
<% } %>
<% if(!properties.get("subtitle", "").equals("")) { %>
    <meta name="subtitle" content="<%= xssAPI.encodeForHTMLAttr(properties.get("subtitle", "")) %>" />
<% } %>
<% if(!properties.get("cq:lastModifiedBy", "").equals("")) { %>
    <meta name="author" content="<%= xssAPI.encodeForHTMLAttr(properties.get("cq:lastModifiedBy", "")) %>" />
<% } %>

<% if(lastModified != null) { %>
    <meta http-equiv="last-modified" content="<%= xssAPI.encodeForHTMLAttr(lastModified) %>" />
<% } %>

<% if(favicon != null) { %>
    <link rel="icon" type="image/vnd.microsoft.icon" href="<%= xssAPI.getValidHref(favicon) %>" />
    <link rel="shortcut icon" type="image/vnd.microsoft.icon" href="<%= xssAPI.getValidHref(favicon) %>" />
<% } %>
</head>
```

HTML

```
<head data-block-use="Component">
  <meta charset="utf-8">
  <title>${currentPage.title OR currentPage.name}</title>

  <script data-block-include="/libs/wcm/core/components/init/init.jsp"></script>
  <script data-block-clientLib="apps.geometrixx-main"></script>

  <meta name="description" content="${properties.jcr:description}" />
  <meta name="keywords" content="${component.keywords}" />
  <meta name="tags" content="${component.tags}" data-block-test="${component.tags}" />
  <meta name="subtitle" content="${properties.subtitle}" data-block-test="${properties.subtitle}" />
  <meta name="author" content="${properties.cq:lastModifiedBy}" data-block-test="${properties.cq:lastModifiedBy}" />
  <meta http-equiv="last-modified" content="${component.lastModified}" data-block-test="${component.lastModified}" />

  <link rel="icon" type="image/vnd.microsoft.icon" href="${component.favIcon}" data-block-test="${component.favIcon}" />
  <link rel="shortcut icon" type="image/vnd.microsoft.icon" href="${component.favIcon}" data-block-test="${component.favIcon}" />
</head>
```

Expression

```
<h1>${properties.jcr:title}</h1>
```

```
<h1>${"My title" @i18n}</h1>
```

```
<h1>${properties.richText @xss=filterHTML}</h1>
```

Block Elements

```
<p data-htl-test="${wcm.edit}">Edit mode...</p>
```

```
<ul data-htl-list="${currentPage.listChildren}"><li>${item.name}</li></ul>
```

```
<section data-htl-include="myTemplate.html"/>
```

```
<section data-htl-resource="parsys"/>
```

Use-API

```
<div data-htl-use-foo="MyPojo"><h1>${foo.title}</h1></div>
```

```
<div data-htl-use-bar="classPath.MyClass"><h1>${bar.title}</h1></div>
```

Example 1

```
<a href="{resource.path}">{resource.name}</a>
```

Results in:

```
<a href="/content/geometrixx/_jcr_content.html">jcr&#x3a;content</a>
```

Example 2

```
<a href="{javascript:history.back()}">{'<script>alert()</script>'}</a>
```

Results in:

```
<a href="">&lt;script&gt;alert&#x28;&#x29;&lt;&#x2f;script&gt;</a>
```

Example 3

```
{<p>Some HTML is ok</p> <script>alert()</script>' @xss='filterHtml'}
```

Results in:

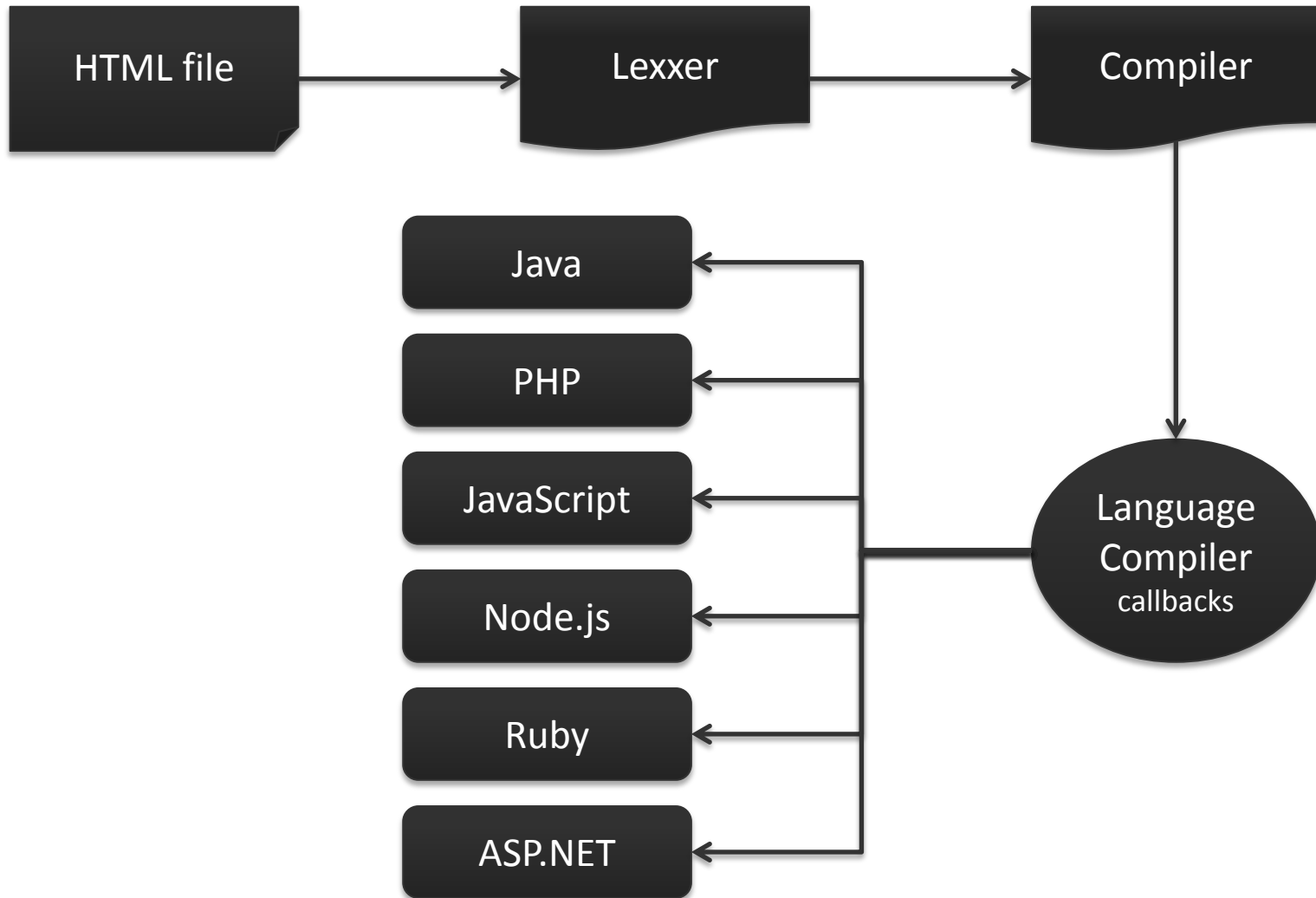
```
<p>Some HTML is ok</p>
```


Component 1

```
<h1>${properties.jcr:title}</h1>
<!-- several things done here... -->
<ul data-htl-list="${currentPage.listChildren}">
  <li data-htl-id="item">${item.properties.jcr:title}</li>
</ul>
```

Component 2

```
<template data-htl-extend="component1">
  <li data-htl-id="item">
    <a href="${item.path}.html">${item.properties.jcr:title}</a>
  </li>
</template>
```



Why a new templating system

Main differentiators:

- Automatic state-of-the-art XSS protection
- Well integrated in the Sling component model
- No need to write code for simple output
- Programming language independent
- Intended to open source (Apache License)

Thanks!

Let's try it out, we want your feedback!

Go to <http://sightly.io/adaptTo>