



Testing with Content Policies

Unit testing your component with different content policies



Testing with Content Policies

Complex policies possible

New in AEM Mocks 2.7.0



Testing with Content Fragments

Content fragments in unit tests on-the-fly

New in AEM Mocks 2.5.0



Unit Test with Image/Layer Support

New support for TIFF and SVG media types

And mocks for AssetStore and AssetHandler

```
<!-- TIFF support -->
<dependency>
 <groupId>com.twelvemonkeys.imageio
 <artifactId>imageio-tiff</artifactId>
</dependency>
<!-- SVG support -->
<dependency>
 <groupId>com.twelvemonkeys.imageio
 <artifactId>imageio-batik</artifactId>
</dependency>
<dependency>
 <groupId>org.apache.xmlgraphics/groupId>
 <artifactId>batik-transcoder</artifactId>
</dependency>
```

https://wcm.io/testing/aem-mock/usage-imageio.html

New in AEM Mocks 2.7.0



AEM Mocks References

- Documentation & Changelogs
 https://wcm.io/testing/aem-mock/index.html
- Ask the AEM Community Expert Session March 2019:
 Unit Testing with AEM Mocks (Video + Demo Project)

 https://github.com/stefanseifert/2019-atace-unit-testing-with-aem-mocks
- AEM Mocks included in Maven Archetypes
 - Adobe AEM project archetype (since Version 18)
 - wcm.io Maven Archetype for AEM





APACHE SLING & FRIENDS TECH MEETUP 2 - 4 SEPTEMBER 2019

wcm.io Clientlibs UI Extensions

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Include AEM Client Libraries in HTL

Include Clientlib in AEM

```
HTL

<sly

data-sly-use.clientLib="/libs/granite/sightly/templates/clientlib.html"

data-sly-call="${clientlib.js @ categories=['my-category']}" />
```

Same using wcm.io

```
<sly
data-sly-use.clientLib="/apps/wcm-io/wcm/ui/clientlibs/sightly/templates/clientlib.html"
data-sly-call="${clientlib.js @ categories=['my-category']}" />
```



Include AEM Client Libraries in HTL

Async Script Loading



Include AEM Client Libraries in HTL

nomodule + defer

```
<sly
data-sly-use.clientLib="/apps/wcm-io/wcm/ui/clientlibs/sightly/templates/clientlib.html"
data-sly-call="${clientlib.js @ categories=['my-category'], nomodule=true, defer=true}" />

HTMLOUTPUT

<script src="mycategory.js" nomodule defer></script>
```



wcm.io Clientlibs UI Extensions References

Documentation & Changelogs

https://wcm.io/wcm/ui/clientlibs/

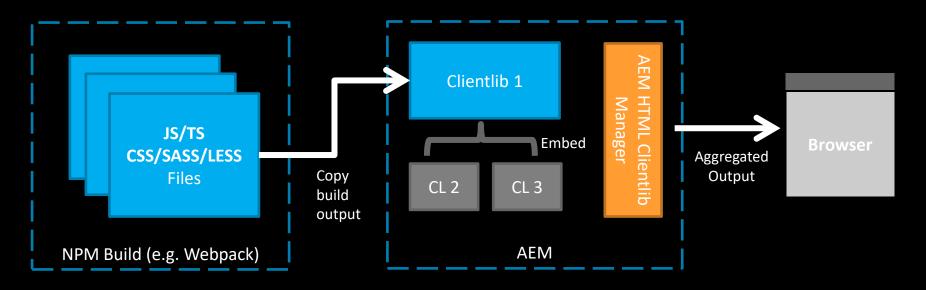
- async = true | false
- crossorigin = anonymous | use-credentials
- defer = true | false
- integrity = {string}
- nomodule = true | false
- nonce = {string}
- referrerpolicy = no-referrer | no-referrer-when-downgrade | origin | origin-when-cross-origin | same-origin | strict-origin | strict-origin-when-cross-origin | unsafe-url
- type = module | text/javascript

See https://developer.mozilla.org/en-US/docs/Web/HTML/Element/script#Attributes



One more thing ... about Client Libraries

Typical Clientlib Dev Setup





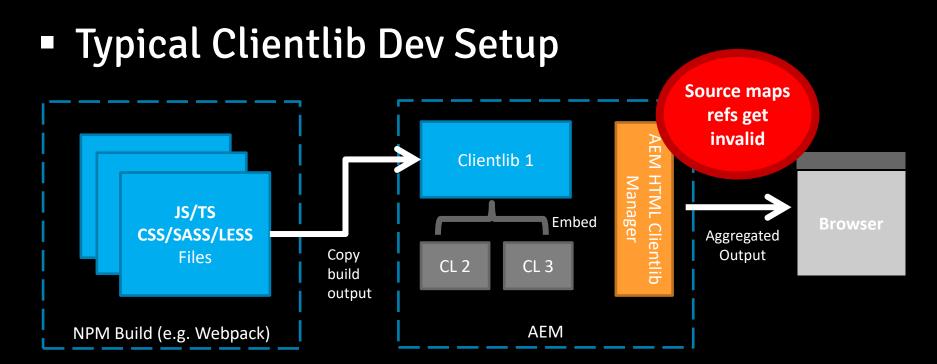
But – how to debug JS/CSS in AEM Site

- ?debugClientLibs=true?
 - Broken since ~AEM 6.4 due to changes in storage
 - Not compatible with allowProxy mode

- We want to use Source Maps
 - HTML Library Manager is not our friend here

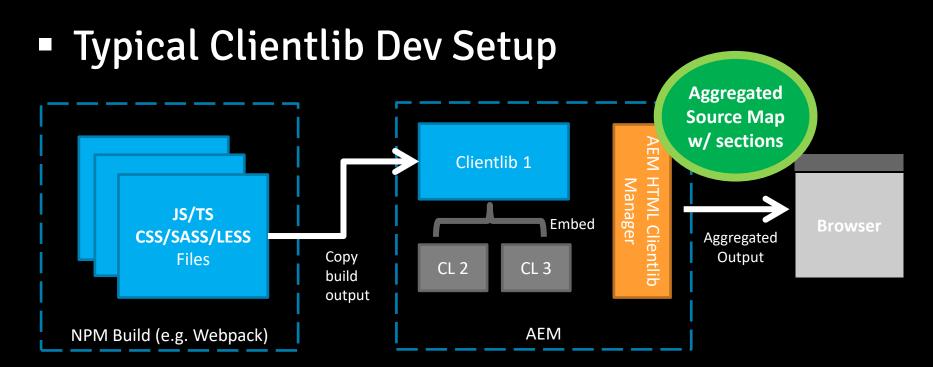


One more thing ... about Client Libraries





One more thing ... about Client Libraries





PR ready for Source Map Support in AEM

- Read source map refs from original files
- Recalculate Line Offsets for Embeds
- Output aggregate Source Maps with Sections
 https://sourcemaps.info/spec.html#h.535es3xeprgt
- If you need this come to our mailing list https://wcm.io/mailing-lists.html