

Agenda

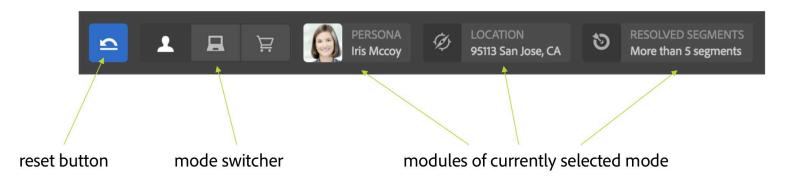
- About ContextHub
- Content of demo content-package
- Demo: ContextHub config
- Demo: Embedding ContextHub on a page
- Resources and client libraries
- Store types
- Persistence types
- Segments
- Extension points
- Demo: Custom mode, store, module
- Demo: Content targeting

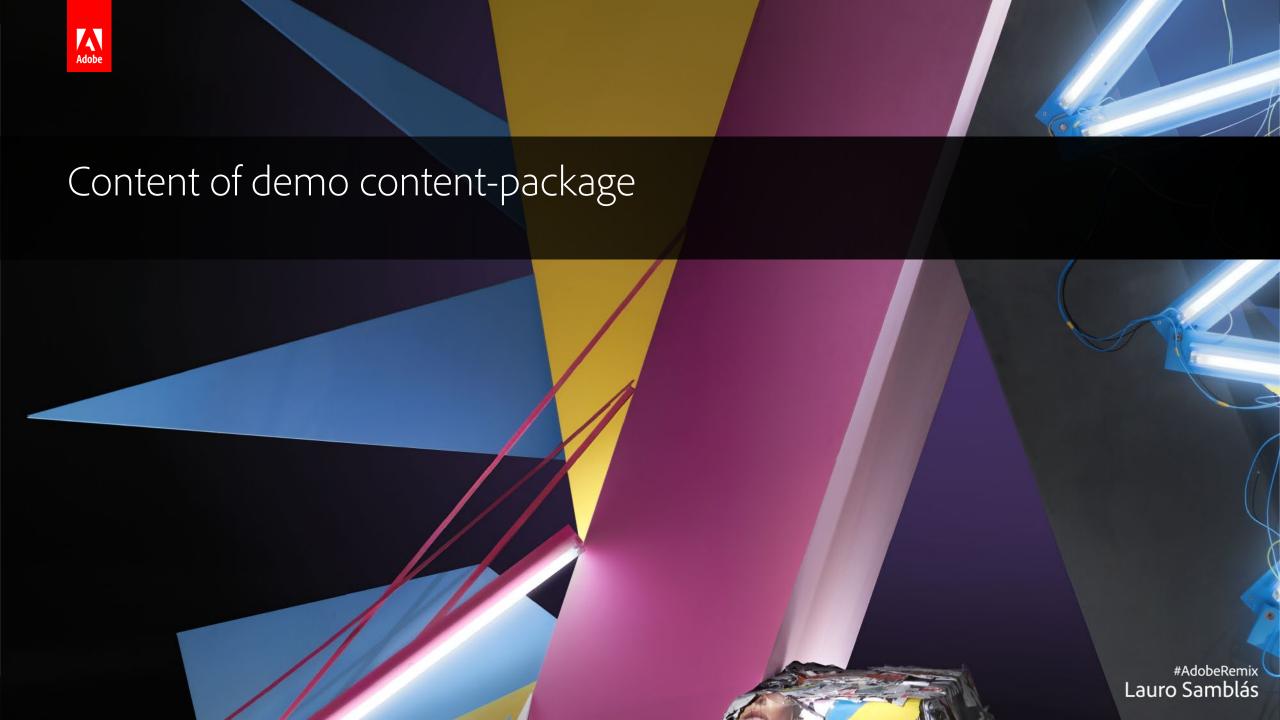




About ContextHub

- Gems Session: Introduction to ContextHub in AEM 6.4
- Feature description and use case
 - ClientContext successor
 - Touch UI
 - Dynamic Client Library
 - Delivered in a set of minified resources: kernel.js, ui.js and styles.css
 - Event throttling and optimization
 - Diagnostics page
 - Segment engine

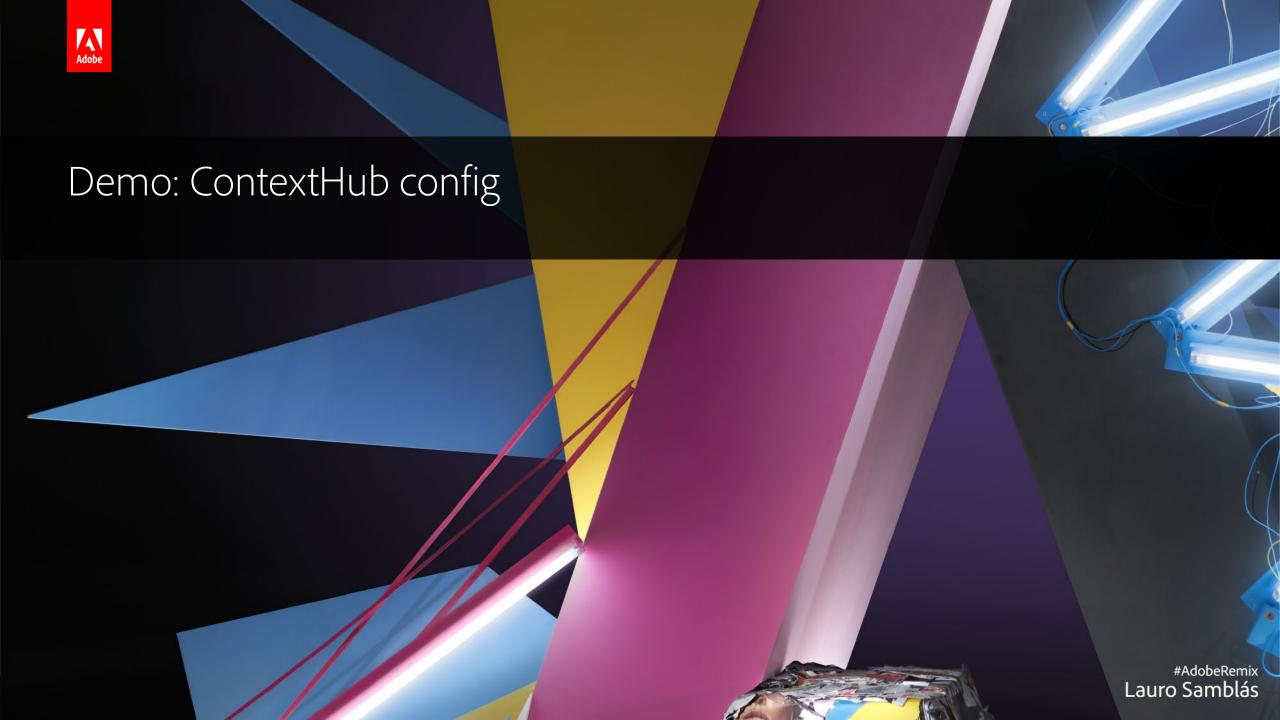




Content of demo content-package

- /conf/contexthub-gems/settings/wcm/templates/content-page page template
- /conf/contexthub-gems/settings/cloudsettings/sample-config/contexthub modes, stores, modules
- /conf/contexthub-gems/settings/wcm/segments segments
- /content/campaigns/contexthub-gems campaign and targeted content
- /content/contexthub-gems/us/en sample page
- /apps/contexthub-gems/stores sample stores
- /apps/contexthub-gems/modules sample modules
- /apps/contexthub-gems/extensions/operators custom operator (for segment editor)
- /apps/contexthub-gems/extensions/scripts custom script (for segment editor)





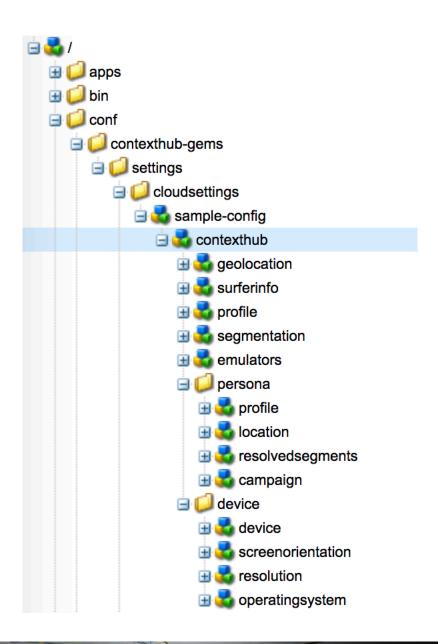
Demo: ContextHub config

- CloudSettings console
 - http://localhost:4502 > Tools > Sites > ContextHub
 - http://localhost:4502/libs/granite/cloudsettings/ui.html/cloudsettings
- What's there?
 - Brand listing
 - Configuration container
 - ContextHub config
 - Modes, Modules and Stores

	Title	Туре
	Geolocation	ContextHub Store Configuration (generic)
L	Surferinfo	ContextHub Store Configuration (generic)
	Profile	ContextHub Store Configuration (generic)
	Segmentation	ContextHub Store Configuration (generic)
	Emulators	ContextHub Store Configuration (generic)
=	Persona	ContextHub UI Mode
ì	Device	ContextHub UI Mode

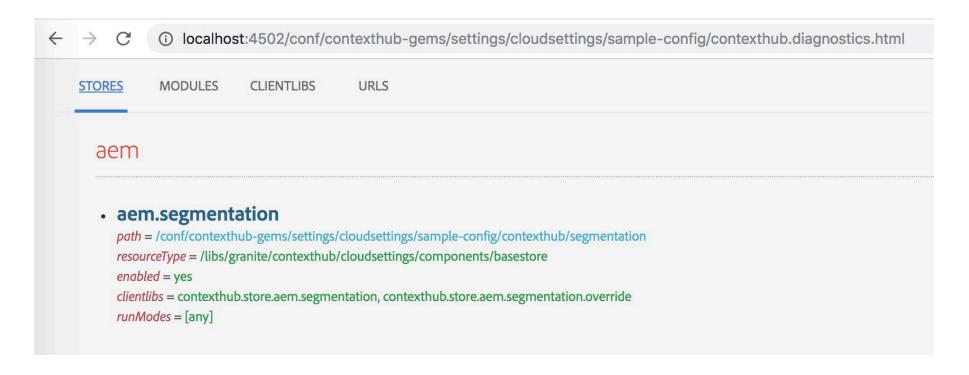
Demo: ContextHub config

- Config in CRX/DE
 - /conf/contexthub-gems/settings/cloudsettings/sampleconfig/contexthub
 - http://localhost:4502/crx/de/index.jsp#/conf/contexthubgems/settings/cloudsettings/sample-config/contexthub



Demo: ContextHub config

- Diagnostics page (available only in debug mode)
 - Config path + "diagnostics" selector
 - http://localhost:4502/conf/contexthub-gems/settings/cloudsettings/sample-config/contexthub.diagnostics.html





Demo: Embedding ContextHub on a page

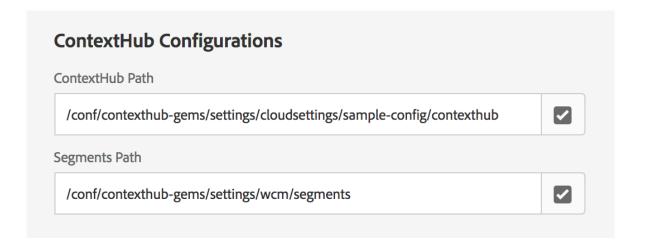


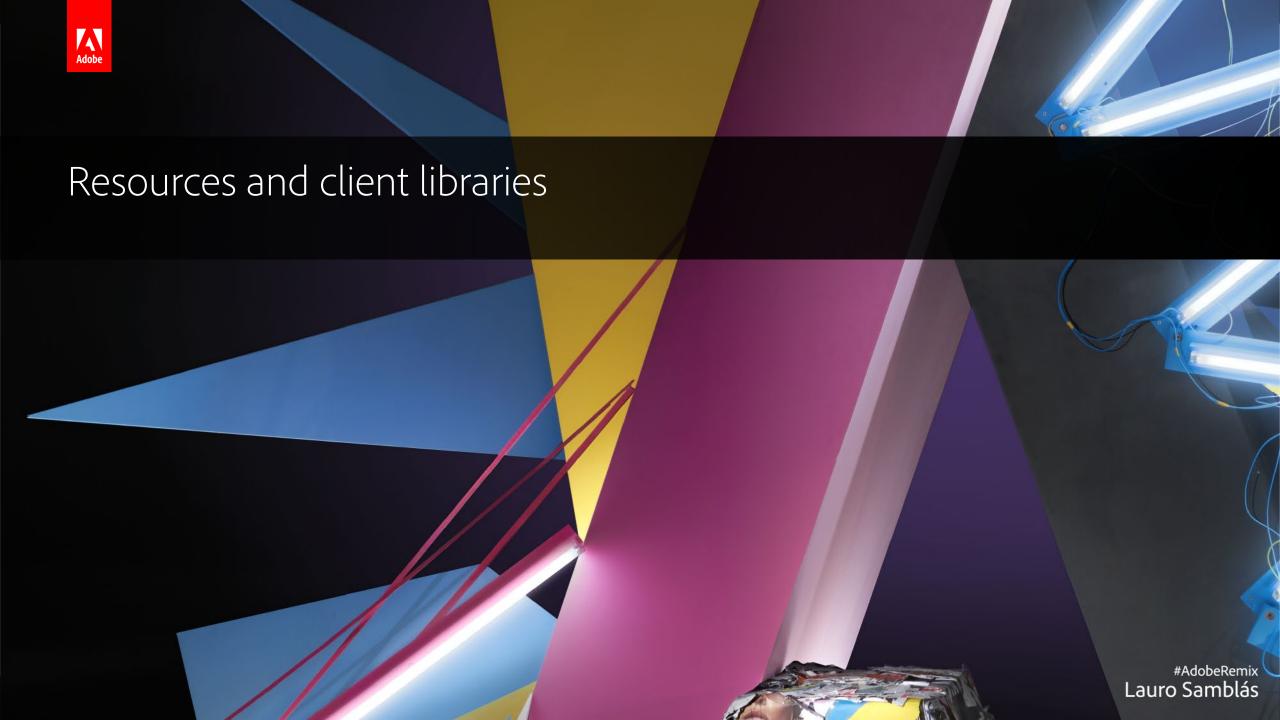
Demo: Embedding ContextHub on a page

You need to add following line to header of your page

```
<sly data-sly-resource="${'contexthub' @
    resourceType='granite/contexthub/components/contexthub'}"/>
<sling:include path="contexthub"
    resourceType="granite/contexthub/components/contexthub"/>
```

Select ContextHub config in Page Properties > Personalization





Resources and client libraries

- ContextHub resources are split into 3 requests
 - kernel.js
 - ui.js / styles.css (loaded only on author instance)
- Confg determines which modes, modules and stores are added
 - Disabled are skipped
 - storeType and moduleType property determines which clientlibs are embedded
 - storeType: "gems.sample" => "contexthub.store.gems.sample"
 - moduleType: "gems.sample" => "contexthub.module.gems.sample"





Store types

- ContextHub.Store.SessionStore
 in-memory persistence, that gets cleared when leaving a page
- ContextHub.Store.PersistedStore uses local storage persistence
- ContextHub.Store.JSONPStore
 same as SessionStore, but additionally data is pulled from external jsonp service
- ContextHub.Store.PersistedJSONPStore same as JSONPStore, except that data is persisted in local storage

ContextHub.Utils.inheritance.inherit(MyStore, ContextHub.Store.<generic-store>);

Samples: /apps/contexthub-gems/stores



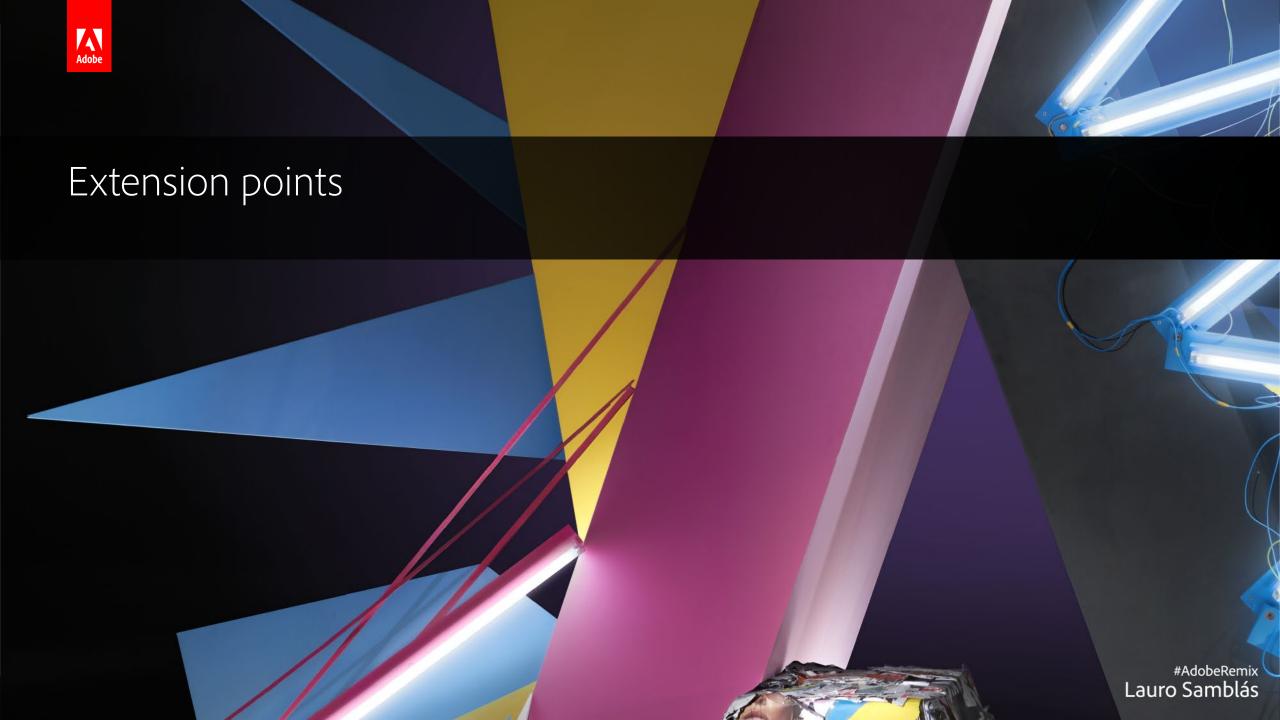
Persistence types

- HTML5 localStorage (ContextHub.Utils.Persistence.Modes.LOCAL)
 storage of around ~5MB, data has no expiration and is available after reloading page or closing/reopening browser
- HTML5 sessionStorage (ContextHub.Utils.Persistence.Modes.SESSION) similar to localStorage, except that data gets cleared when the page session ends
- Cookie (ContextHub.Utils.Persistence.Modes.COOKIE)
 holds up to 4KB of data (this storage type should be avoided very low capacity, is sent to the server within every browser request)
- window.name (ContextHub.Utils.Persistence.Modes.WINDOW)
 last resort (should be avoided as well) when other storages are not supported



Segments

- Segments comes with specific condition that can be either true or false
- Can be used to display different variant of a teaser, depending on the resolution
- Segment Engine is triggering events when segments gets resolved / unresolved
- Segments Editor
 - http://localhost:4502/aem/start.html > Personalization > Audiences
 - http://localhost:4502/libs/cq/personalization/touchui/content/v2/audiences.html



Extension points

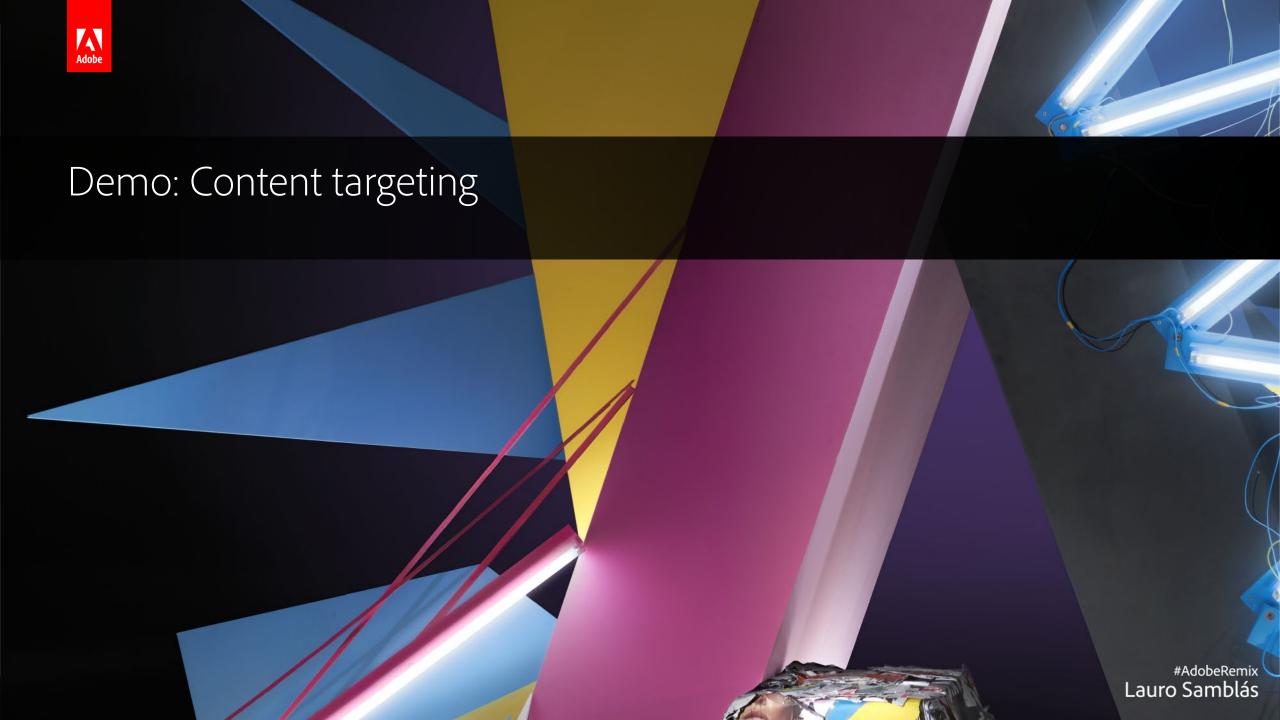
- contexthub.utils
- contexthub.generic-stores
- contexthub.segment-engine.operators.custom
- contexthub.segment-engine.scripts.custom
- Samples:
 - /apps/contexthub-gems/extensions/operators
 - /apps/contexthub-gems/extensions/scripts



#AdobeRemix Lauro Samblás

Demo: Custom mode, store, module

- Samples
 - /apps/contexthub-gems/stores
 - /apps/contexthub-gems/modules



Demo: Content targeting

- What we need?
 - ContextHub with specified config and segments path
 - segmentation store
 - brand, activity, segments
 - page with some components
 - targeting layer in the page editor
- Demo: http://localhost:4502/editor.html/content/contexthub-gems/us/en.html



Resources

- Gems Session: Introduction to ContextHub in AEM 6.4
- Demo content-packages
- Links
 - https://helpx.adobe.com/experience-manager/6-4/sites/developing/using/contexthub.html
 - https://helpx.adobe.com/experience-manager/6-4/sites/administering/using/segmentation.html

