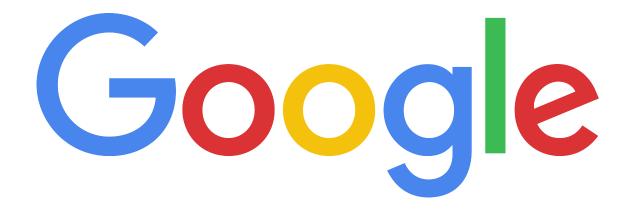


1 Welcome and overview

- 2 | A brief overview of search
- 3 | The lab
- 4 | The application
- 5 | Q & A

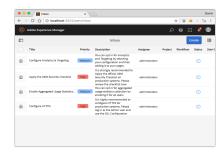


Search is used all over AEM.....

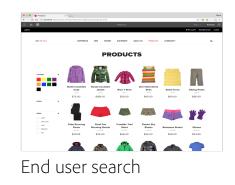


Image: Sector Secto

Omnisearch



Inbox







Database image courtesy of Creative Outlet

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Evolving Search in your deployments

suggestions

full text

pagination

analyzers

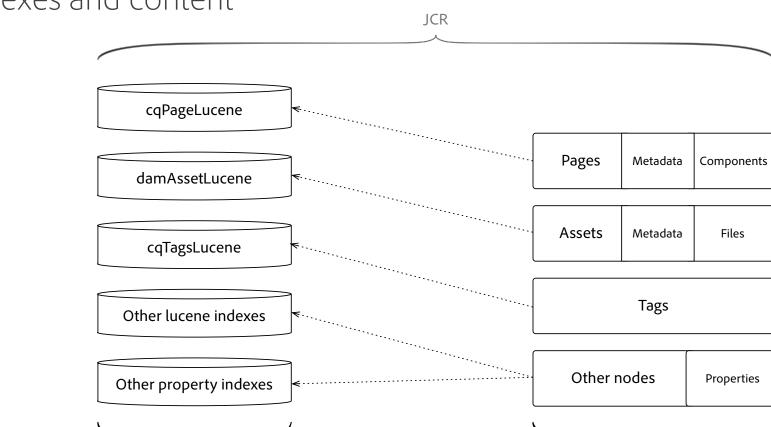
similarity

boosting

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filtering

A brief overview of search



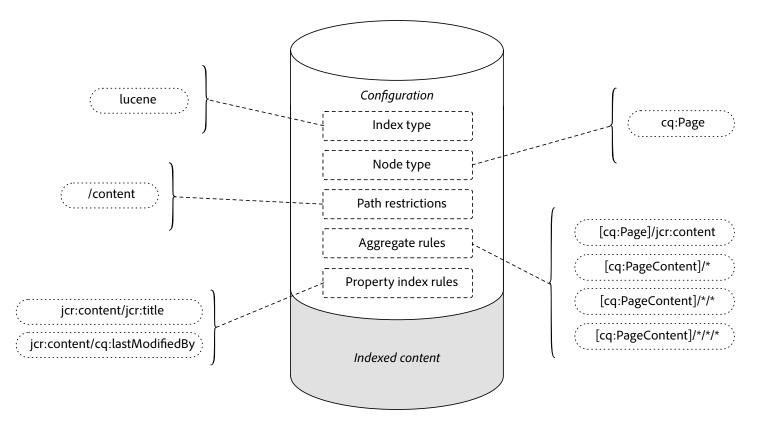
Indexes and content

Indexes

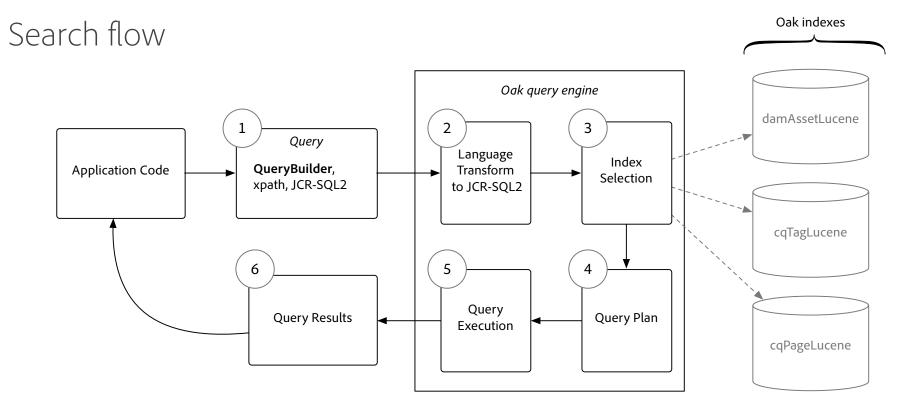
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Content

Anatomy of an (lucene) index



Oak index

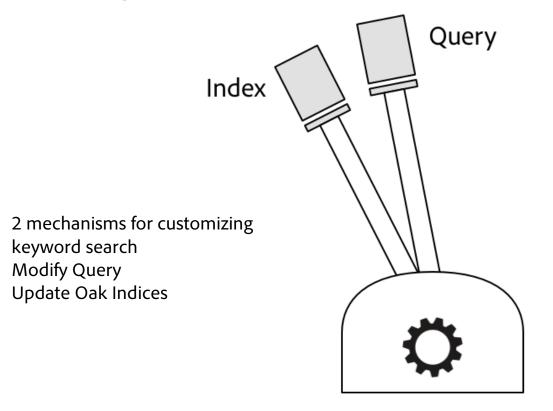


- 1. Application code creates query
- 2. Query automatically translated and optimized to JCR-SQL2
- 3. Oak chooses best index(es) to satisfy query
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- 4. Oak query plan generated
- 5. Oak executes query plan
- 6. Results returned to application

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Search configuration levers

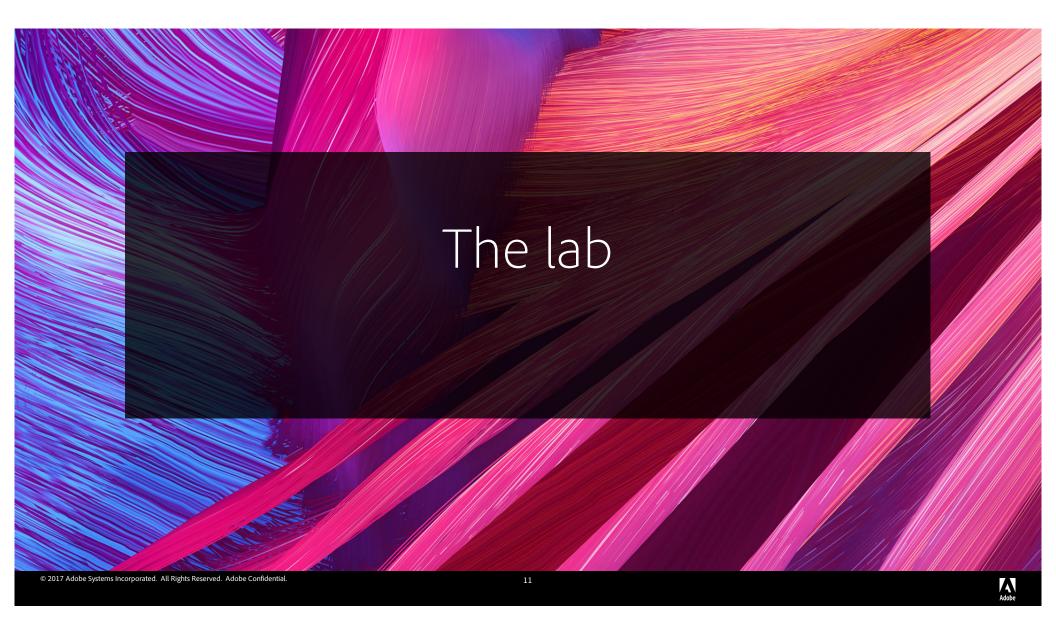


Search Results

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The Lab

Goal

Simple search -> Robust multi-featured Search component

Environment

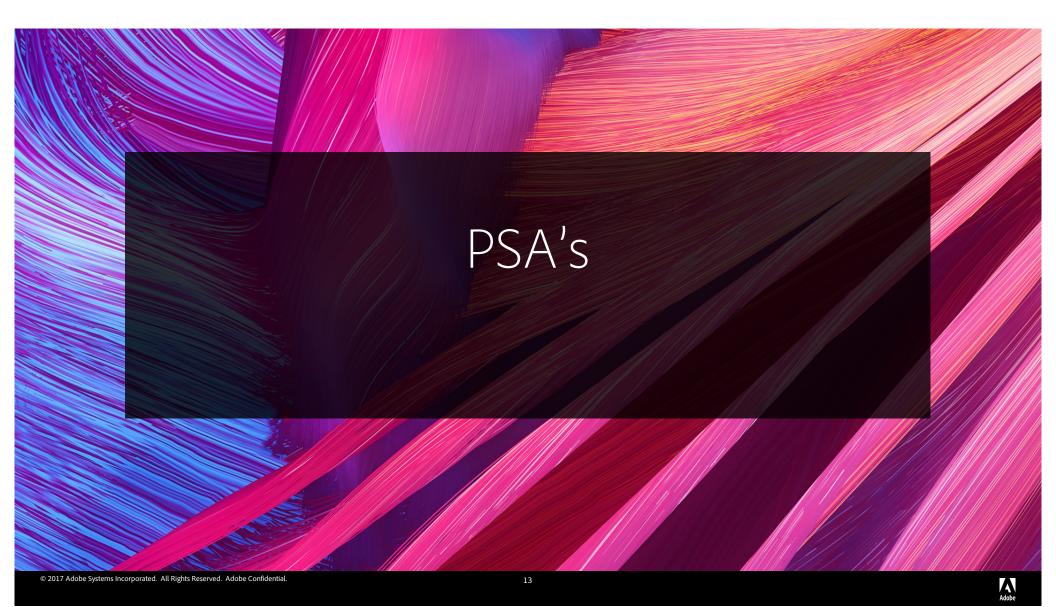
- AEM Author environment 6.3 (pre-release load)
- Simple search component
- ~3,300 pages of content

Lab Materials

- Workbook chapter based
- Bookmarks in browser
- Solution packages



Ferrari image courtesy of http://www.caranddriver.com/ferrari



Public Service Announcement #1

Re-indexing rarely (~never) solves problems with search or indexes!

In this lab, we re-indexed frequently to see incremental changes.

In real life, minimize the number and frequency of re-indexing, and execute them during maintenance periods (*works well as they normally coincide w application deployments*)

Public Service Announcement #2

Managing index configurations directly AEM is bad!

In this lab, we made changes to index configurations directly via CRXDE Lite for convenience.

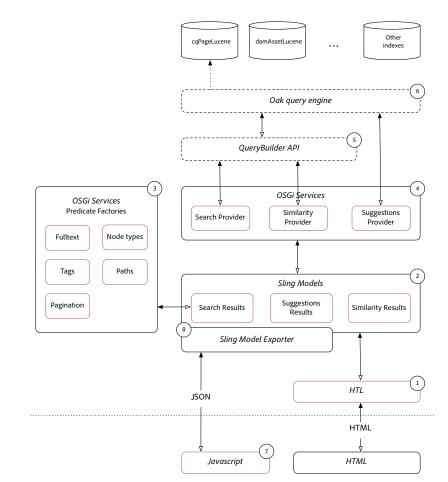
In real life, treat your index configurations as code, and keep them safe in SCM as part of the AEM application content package.

The application

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Search application overview

- 1. HTL defines the HTML presentation layer, and uses Sling Models to obtain the the results to display.
- 2. The Sling Models are Java data models that represent results.
- 3. The **Predicate Factory OSGi services** collect and sanitize query parameters from the HTTP Request or the configured resources.
- 4. Each **Provider OSGi service** is engages with AEM (QueryBuilder or Oak) to obtain results.
- 5. QueryBuilder converts the provided query parameters to a Xpath query and executes the query.
- 6. Oak query engine selects the best index for the query and collects results
- 7. Custom JavaScript makes AJAX calls to collect JSON results
 - a. #2-6 in the above flow is invoked
- 8. The Sling Model Exporter framework serializes the Sling Model results into JSON, for DOM injection by the JavaScript
 - a. Powers Suggestions and Quick Links



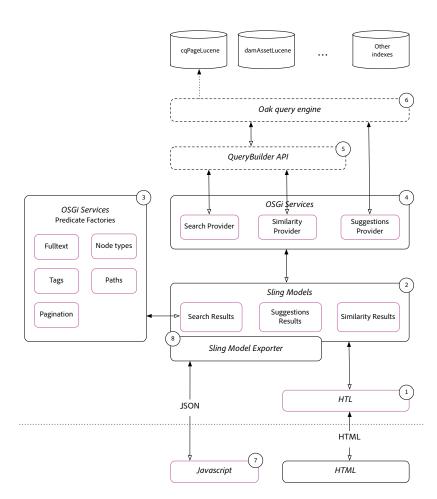
Search application code index

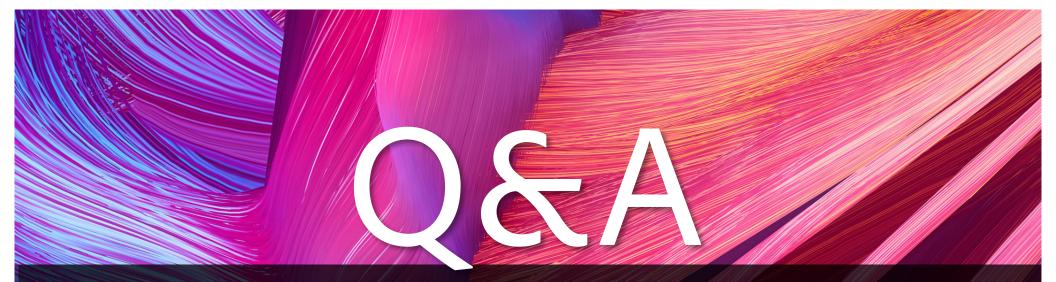
Code available at

github.com/Adobe-Marketing-Cloud/aem-guides/tree/master/simple-search-guide

Code index

- 1. /apps/simple/components/content/search
- 2. com.adobe.aem.sample.simple.search
 - 1. https://sling.apache.org/documentation/bundles/models.html
- 3. com.adobe.aem.sample.simple.search.predicates
- 4. com.adobe.aem.sample.simple.search.providers
- 5. http://docs.adobe.com/docs/en/aem/6-2/develop/search/querybuilder-api.html
- 6. http://jackrabbit.apache.org/oak/docs/query/query-engine.html
- 7. /apps/simple/components/content/search/clientlibs/js
- 8. com.adobe.aem.sample.simple
 - ${\tt 1.} \qquad https://sling.apache.org/documentation/bundles/models.html#exporter-framework-since-130$





Danny Gordon dgordon@adobe.com David Gonzalez dgonzale@adobe.com

Sean Schnoor

sschnoor@adobe.com

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Insert headline or central text statement here.

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Additional templates and more resources

Additional templates

- This template includes a full set of page templates for one of the Adobe Remix pieces. Additional templates featuring other Adobe Remix artwork are also available.
- You can view and download all of the templates on Brand Center: <u>http://brandcenter.corp.adobe.com/assets/presentations.html</u>

Formatting between standard and widescreen ratios

Need help converting content between standard and widescreen ratios?
Detailed instructions are available on Brand Center: <u>http://brandcenter.corp.adobe.com/assets/presentations.html</u>

Tips for creating a great presentation

 Interested in some tips from a pro? Watch this tutorial from one of our presentation designers: <u>https://my.adobeconnect.com/slidedeck</u>



White Content Area, Black Footer

Use this layout for content that looks best on white.

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Gray Content Area, Black Footer

• Use this layout for content that looks best on gray.



Black Content Area, Black Footer

- Use this layout for content that looks best on black.

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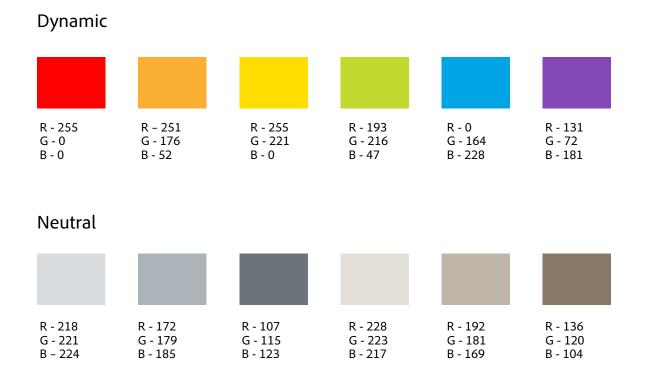


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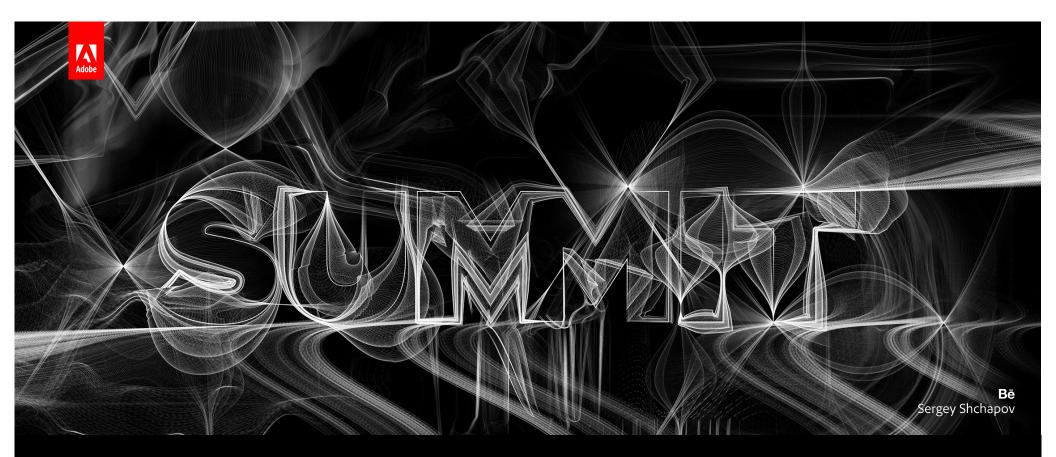
Color palette



Note

Refer to the corporate brand guidelines on Brand Center for more information on using color and imagery: http://brandcenter.corp.adobe.com/asse ts/guidelines.html





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