

# Search UI Configuration Quick Start

## Quick Start

1. Deploy the Attivio Factbook Project
2. Copy the configuration.properties.js file to the project directory
3. Edit configuration.properties.js
4. Deploy the changes
5. View the changes in Search UI

## What Next?

## Quick Start

The following exercise builds on the [Attivio Quick Start tutorial](#) to walk through some common configuration changes that can be made to Search UI. We'll configure fields, add facets and make a number of other cosmetic changes and deploy those changes to the Factbook project.

### 1. Deploy the Attivio Factbook Project

Open the [Attivio Quick Start Tutorial](#) in a new tab in your browser, follow the instructions to deploy the Factbook project, and return to this page when complete.

### 2. Copy the configuration.properties.js file to the project directory

By default, the `configuration.properties.js` file used by Search UI is placed in the `<INSTALL_DIR>/resources/searchui` directory. Instead of editing the file in this location, it is recommended that you copy the file to the same relative path under your project's home directory. The file in the project directory will be used in preference to the file in the installation directory, leaving the original version intact.

Attivio project directories include a `<PROJECT_DIR>/resources` directory by default, but you will need to create the `<PROJECT_DIR>/resources/searchui` sub-directory. Once you have done so, copy the file found at

```
<INSTALL_DIR>/resources/searchui/configuration.properties.js
```

to the new sub-directory:

```
<PROJECT_DIR>/resources/searchui/configuration.properties.js
```

### 3. Edit configuration.properties.js

Open the `<PROJECT_DIR>/resources/searchui.configuration.properties.js` file in a text editor.

#### Uncomment entity fields

Remove the comments from the following lines in the file:

```
// spokenLanguage: 'Spoken Languages',  
// resource: 'Resources',  
// climate: 'Climate',  
// ethnicity: 'Ethnicities',  
// country: 'Country',
```

#### Modify facet settings

Locate the following block of code:

```

facets: [
  'position',
  'keyphrases(maxbuckets=15)',
  'table',
  'tags',
  'company',
  'people',
  'location',
  'date(sortby=VALUE,maxbuckets=60,dateIntervals=auto)',
],

```

Modify the above block of code to match the following:

```

facets: [
  'position',
  'keyphrases(maxbuckets=15)',
  'table',
  'tags',
  'company',
  'people',
  'location',
  'date(sortby=VALUE,maxbuckets=60,dateIntervals=auto)',
  'spokenLanguage',
  'resource',
  'climate',
  'ethnicity',
  'country',
  'table(childFacet=country(childFacet=language))', //adding multi level discrete facets
  //'table(childFacet=.fields(childFacet=size(filter=small(\"size:>120\")))', //adding schema at level 2
and filter at level 3
  //'size(range=(\"< 150 \",0,150), range = (\"> 150 \",150,600),sortBy=COUNT, primarySort=ASC,
minBucketCount=10, childFacet=table)', //range facet with sort and minBucketCount defined.
],

```

*(The childFacet functionality is available in Attivio Platform 5.6.2 and later releases; omit the final three entries above if you are using Attivio Platform 5.6.1.)*

### Edit chart facets

Locate the line of code that begins with:

```
SearchUIInsightsPage: {
```

Edit the lines of code below this line to match the following:

```

  pieChartFacets: [ // The facet field names that should be displayed as pie charts
    'table',
  ],
  barChartFacets: [ // The facet field names that should be displayed as bar charts
    'company',
    'people',
    'location',
    'spokenLanguage',
    'ethnicity',
    'country',
  ],
  columnChartFacets: [ // The facet field names that should be displayed as column charts
    'resource',
    'climate',
    'language',
    'languages',
  ],

```

**Uncomment insight graph linking fields**

Remove the comments from the following lines in the file:

```
insightGraphLinkingFields: [
...
  // 'country',
  // 'spokenlanguage',
  // 'resource',
  // 'climate',
  // 'ethnicity',
],
```

### Save and close file

Save and close the file.

## 4. Deploy the changes

We've made several changes to the Search UI configuration. We must open the CLI and deploy these changes and restart our project to apply these changes.

### Open the AIE-CLI

Open the AIE-CLI

```
<install-dir>/bin/aie-cli -p C:\attvio\projects\Factbook
```

### Deploy project configuration changes

Deploy our changes and trigger a restart of the node. Type the **deploy** command and **hit Enter**.

Once the CLI reports the node as RUNNING again, move onto the next step. You can monitor the project by executing the **status** command.

## 5. View the changes in Search UI

- Navigate to <http://localhost:17000/searchui/> (or click the Administrator UI's **Query > Search UI** menu link) in your web browser to open the Search UI web application.
- Log in with username **aieadmin** and password **attvio** when prompted.
- On the left hand side, Multi level facets can be seen for table facet. Click on the child facets and we can see how the documents are filtered further.

The screenshot shows a web browser window displaying the Search UI application. The address bar shows the URL <http://localhost:17000/searchui/results?sort=score%3ADESC>. The page features a left-hand navigation pane with a 'Table' facet expanded to show a tree of categories: city (2600), China (307), Indonesia (97), Maloy (60), German (29), Italian (29), Dutch (19), Albanian (16), Somali (15), French (14), Tagalog (11), Czech (6), United States (238), Brazil (189), Russia (165), United Kingdom (131), Germany (86), India (79), Mexico (74), Nigeria (55), Spain (55), country (260), news (106), and medal (87). The main content area displays a list of document cards. Each card has a title, a rating (represented by stars), and a 'Total medals in 2008' value. The cards shown are: 'Medals: Cuba' (Total medals in 2008: 24), 'Ludhiana' (Total medals in 2008: 18), 'Medals: Spain' (Total medals in 2008: 18), and 'Medals: Brazil' (Total medals in 2008: 15). Each card also includes a 'Show 360° View' link, a 'More like this' link, and a 'Tags: None Add...' link. The cards are grouped by facet, with 'MEDAL' and 'CITY' facets visible.

**Map**  
You must configure a Mapbox key to display map facets.

**Date**  
100  
75  
50  
25  
0  
13:35:18.500  
● Documents

**1 city** Nanjing  
Rating: ★★★★★  
Jiangsu  
Show 360° View | Tags: None Add...

**2 city** Foshan  
Rating: ★★★★★  
Guangdong  
Show 360° View | Tags: None Add...

**3 city** Yangzhou  
Rating: ★★★★★  
Jiangsu  
Show 360° View | Tags: None Add...

**4 city** Chaozhou  
Rating: ★★★★★  
Guangdong  
Show 360° View | Tags: None Add...

**Table**  
city (97)  
China (97)  
Indonesian (97)

- Click the **Insights** button in the header to access the Insights page. You should see multiple bar and column charts, including those which display the additional fields we exposed such as country, spokenlanguage, resource, climate, and ethnicity.

**ethnicity**  
Other  
White  
Black  
Chinese  
Mixed  
Russian  
Arab  
Amerindian  
African  
Mestizo

**Locations**  
US  
Nigeria  
California  
Sao Paulo  
Indonesia  
UK  
South Africa  
France  
Nordrhein Westfalen  
EU

**People**  
his  
he  
Espirito Santo  
him  
Christopher COLUMBUS  
He  
Noord Holland  
Leon  
Zuid Holland  
His

**Map**  
You must configure a Mapbox key to display map facets.

**Primary Language**  
1000  
800  
600  
400  
200  
0  
English  
Mandarin  
Spanish  
German  
Finnish

**resource**  
80  
60

**spokenLanguage**  
English  
French

**Tags**  
No values for this facet.

ATTIVO COGNITIVE SEARCH Results Insights 🔍 Go Q aleadmin

3,039 results found (in 740ms)

**Table**

**Key Phrases**  
Atlantic Ocean: budget deficit  
Central America: **civil war** debt relief  
European Union: foreign direct Gaza Strip  
GDP growth: **natural gas**  
natural resources oil reserves  
parliamentary elections Prime Minister  
Southern Ocean

**Date**  
4k  
2k  
0  
Apr 20, 2018 10:51 AM - Apr 20, 2018 10:51 AM  
3039 documents  
10:51:14.000

**climate**  
80  
60  
40

**Companies**  
UN  
NATO  
Communist  
parliament  
Leon

**country**  
China  
United States  
Brazil  
Russia  
United Kingdom

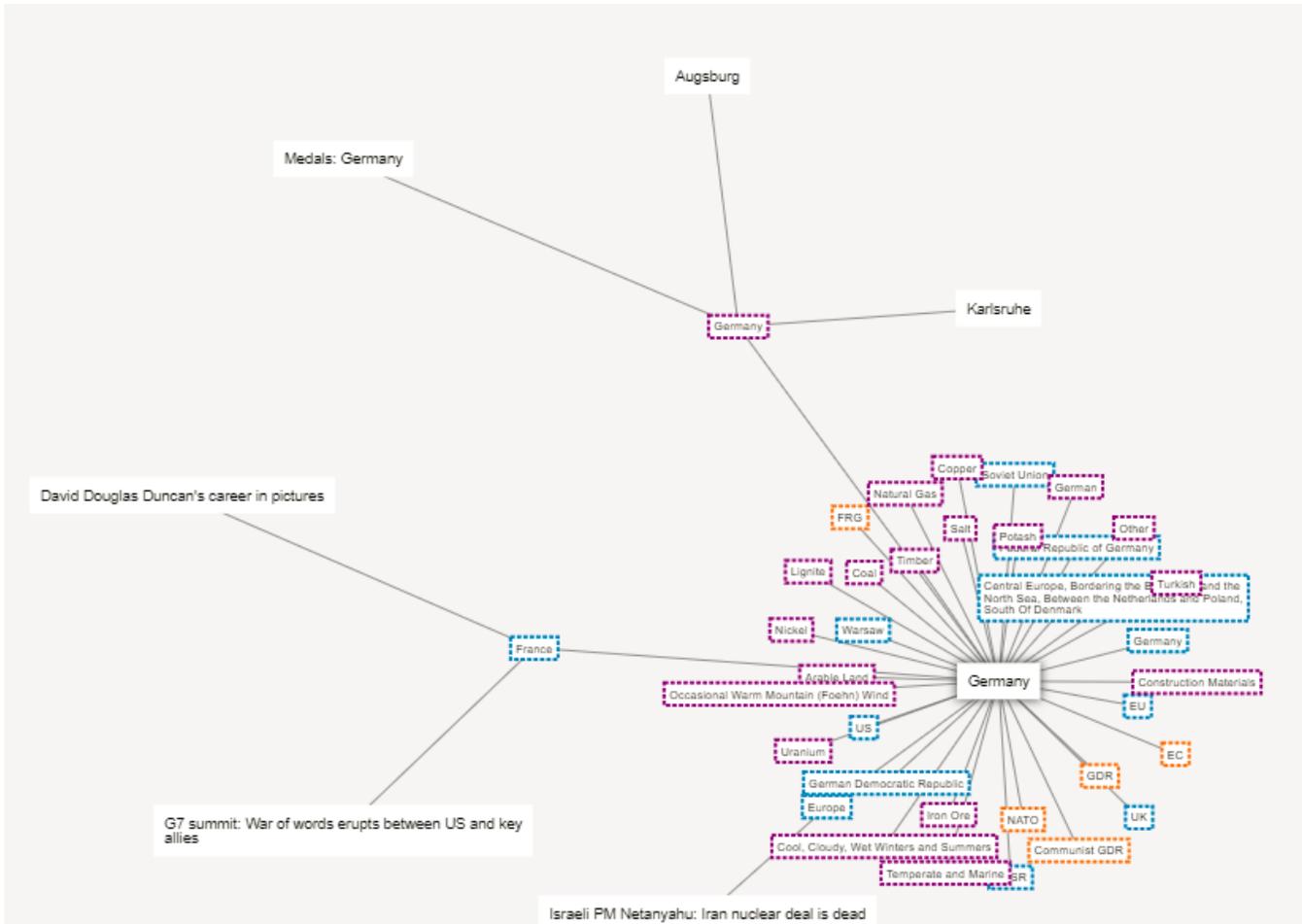
**Detected Languages**  
1000  
800  
600

Legend: city (blue), country (orange), news (yellow), medal (pink)

- Click the **Results** button, then select the country value of the Table facet. Notice the additional fields are displayed to the right of each result:

Date	Friday, April 20, 2018
■ Locations	Caribbean, Island In the Caribbean Sea, North Of Venezuela, Spain, Aruba, Netherlands Antilles, Neth...
Languages	English
Key Phrases	oil refinery
Spoken Languages	Papiamentu, Spanish, English, Dutch, Other, Unspecified or Unknown
Resources	Negl; White Sandy Beaches
Climate	Tropical Marine, Little Seasonal Temperature Variation
Ethnicities	Mixed White, Other
Country	Aruba
	<a href="#">All data...</a>

- Click the **Show 360° View** link under one of the country results. You can see the effect our changes had on the Knowledge Graph, linking documents which share values for the additional fields we configured.



## What Next?

- Learn more about [SUIT and Search UI](#).
- Learn more about [Developing Search UIs with SUIT](#).