

Semanteer Search

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Installation

If this is your first time installing, configuring, or developing with the Semanteer Search Layer, please take the time to go through this section and learn how to perform a standard installation, go through the initial configuration steps, and get started with a predefined schema, with or without a demo data set.

Sections

- [Unpacking, initial configuration, running](#) — Learn how to deploy the Search Platform bundle, perform required initial configuration steps, and run the platform.
- [First steps after deployment](#) — Once you have your Search Platform up and running, you can start with the tailoring of the installation to your needs, starting from predefined index schemata, and making use of sample search configurations and demo content.
- [Installation with Docker Compose](#)

Unpacking, initial configuration, running

Learn how to deploy the Semanteer Search Platform bundle, perform required initial configuration steps, and run the platform.

Installing the bundle

Bundle contents

The Semanteer Search Platform comes as a bundle that is made up by the following components:

- Apache Tomcat application server 9.x
- Semanteer Search Layer
- Apache Solr 9.3
- Semanteer Monitoring and Search Analysis

Initial configuration

The directory `<install-dir>/conf/` contains all necessary files to configure startup parameters and search properties. As a first step, you will want to modify the basic execution parameters, such as the ports at which the main components will be running, logging, etc.

semanteer.properties

In `semanteer.properties` the startup ports for Solr and the Semanteer Search-Layer, the activated spring profile and the memory reserved for Solr must be specified, e.g.:

Example of *semanteer.properties*

```
controller.port=8036
searchlayer.port=8030
searchlayer.shutdownport=8032
solr.port=8035
solr.mem=2g
springprofile=dev
```

search-layer-<profile>.conf

For your activated profile you can add configuration files that typically specify the server port and urls for the solr cores, as well as login information for the admin area of the Semanteer Search-Layer, e.g.

Example of *search-layer-<profile>.conf*

```
server.port=8030

# Solr URLs
solr.url=http://localhost:8035/solr/winedemo
solr.monitoring.url=http://localhost:8035/solr/sem_monitoring_core
solr.analytics.url=http://localhost:8035/solr/sem_monitoring_core
```

Syntax highlighting is enabled by setting the source-highlighter attribute in the document header or passed as an argument.

Start / Stop Semanteer Search

The Semanteer Search and all components can be started and stopped with the `<install-dir>/bin/semanteer.sh` script.

Status/(Re)Start/Stop all components

```
bin/semanteer.sh status|start|stop|restart
```

Status/(Re)Start/Stop the Search-Layer (tomcat)

```
bin/semanteer.sh tomcat status|start|stop|restart
```

Status/(Re)Start/Stop/Setup Solr

```
bin/semanteer.sh solr solr status|start|stop|restart|upload|setup
```

- **setup**: Bootstraps the solr collection(s), which means uploading the config(s) to zookeeper and creating the core(s)
- **upload**: Reuploads the config(s) for the solr collection(s)

Status/(Re)Start/Stop the Controller

```
bin/semanteer.sh controller status|start|stop|restart
```

First steps after deployment

Once you have your Semanteer Search Platform up and running, you can start with the tailoring of the installation to your needs, starting from predefined index schemata, and making use of sample search configurations and demo content.

Installation with Docker Compose

Alternatively, you can deploy a lightweight version of the bundle with Docker containers:

Load the images

```
tar -xvzf sem-bundle-docker.tgz
docker load --input images.img
```

Start/Stop the containers

```
docker compose up -d
docker compose down
```

The `compose up` command creates the following 3 containers:

- `solr` The version of the image pulled can be configured in `docker-compose.yml` (default 9.3.0).
- `searchlayer`
- `controller`

Environment variables, port bindings and volumes can also be configured in `docker-compose.yml`. Semanteer and Search Layer configuration files are located in `<install-dir-docker>/conf`.



Ports used in these configuration files refer to **container** ports.

Schema

This chapter introduces you to the predefined schemata that come bundled with the Semanteer Search Layer, the available dynamic and static fields and their capabilities and intended use.

Predefined field types

Topics: basic-, text-, categorization- and special- field types in the default Semanteer index schema.

More information about the field types supported by Solr "out of the box" can be found in the section [Solr Field Types](#) of the Solr Reference Guide.

Basic field types

Field type	Description
<code>binary</code>	Binary data.
<code>boolean</code>	Contains either true or false. Values of 1, t, or T in the first character are interpreted as true. Any other values in the first character are interpreted as false.
<code>string</code>	String (UTF-8 encoded string or Unicode).
<code>date</code> or <code>tdate</code>	Represents a point in time with millisecond precision. The format used is a restricted form of the canonical representation of dateTime in the XML Schema specification: YYYY-MM-DDThh:mm:ssZ
<code>double</code> or <code>tdouble</code>	Double field (64-bit IEEE floating point). <code>double</code> (precisionStep="0") enables efficient numeric sorting and minimizes index size; <code>tdouble</code> (precisionStep="8") enables efficient range queries.
<code>float</code> or <code>tfloat</code>	Floating point field (32-bit IEEE floating point). <code>float</code> (precisionStep="0") enables efficient numeric sorting and minimizes index size; <code>tfloat</code> (precisionStep="8") enables efficient range queries.
<code>int</code> or <code>tint</code>	Integer field (32-bit signed integer). <code>int</code> (precisionStep="0") enables efficient numeric sorting and minimizes index size; <code>tint</code> (precisionStep="8") enables efficient range queries.
<code>long</code> or <code>tlong</code>	Long field (64-bit signed integer). <code>long</code> (precisionStep="0") enables efficient numeric sorting and minimizes index size; <code>tlong</code> (precisionStep="8") enables efficient range queries.

Specialized entity field types

Field type	Description
<code>bbox</code>	Used for "bounding boxes"
<code>email</code>	Field type that "understands" email addresses and maintains them as full tokens.
<code>location</code>	A latitude, longitude coordinate pair.
<code>mime</code>	A field type that correctly tokenizes MIME-encoded content types
<code>occurrence</code>	A pair of start- and end- time numbers, used to mark the start and end time of event occurrences. The temporal space they refer to needs to be configured appropriately.
<code>point</code>	An arbitrary n-dimensional point.
<code>tel_number</code>	A field type that normalizes telephone numbers.
<code>url</code>	Field type that "understands" URL addresses and retains them as full tokens.
<code>uuid</code>	Universally Unique Identifier (UUID). Passing in a value of "NEW" causes the creation of a new UUID.
<code>descendent_path</code>	Field type used for FacetHierarchyComponent (see Hierarchical facets) specifying a character ":" used as divider.
<code>ancestor_path</code>	Field type used for FacetHierarchyComponent (see Hierarchical facets) specifying a character ":" used as divider.
<code>cat_minimal</code>	Specialized analysis for categories
<code>cat_root</code>	Specialized analysis for root categories
<code>cat_leaf</code>	Specialized analysis for leaf categories

Field type	Description
location_rpt	A location field type able to store lat,lng locations and geometry (WKT strings). See also Spatial Search
location_rpt_approximate	Similar to location_rpt but less precise (and thus faster)
group_acls	Simple version of ACL checking, expects values separated by comma or semicolon
ean	International Article Numbers

Text field types

Field type	Description
text_ws	Uses a white space tokenizer to split text into tokens.
text_general	Language-specific analysis, including stop-word and synonym treatment, as well as stemming.
text_precise	Minimal analysis for "precise" matching
text_minimal	An field type with tokenization aggressiveness "in the middle" between text_general and text_precise.
text_alpha	Used for alphabetic sorting.
text_spell	Used for the "sink" fields from which spelling suggestions are derived.
text_suggest	Used for the "sink" fields from which auto-complete suggestions are derived.
text_suggest_prefix	Alternative type definition (for suggestions) that uses shingles
text_suggest_phrase	Similar to text_suggest_prefix
lowercase	Lowercases the entire field value, keeping it as a single token.
text_geo	Text field used for geographic fields (names of places): Different synonyms (at query time) and no stemming.

Predefined fields

An overview of the available static and dynamic fields in the default schema.

Main record fields

Base fields that are typically used independently of the type of indexed document.

R = required, **I** = indexed, **S** = stored, **M** = multi-valued

Field	Type	R	I	S	M	Description
id	boolean	✓	✓	✓		Must be globally unique within a core.
sem_lang	string		✓	✓		Two-letter language code.
sem_source_id	string		✓	✓		The id of the indexing source.
sem_source_type	string		✓	✓		The type of indexing source.
sem_record_type	string	✓	✓	✓		The main type of the document.
sem_record_subtype	string		✓	✓		Optional sub-type of the document.
sem_record_info	string			✓		Opaque field where presentation frontend-related data can be stored.
sem_asset_info	string			✓	✓	
sem_parent_record	string		✓	✓		Reference to the identifier of the parent document, where a parent-child relation exists.
sem_grouping	string		✓	✓		The main grouping field for documents; contents may vary per installation.
sem_active	boolean		✓	✓		
sem_title	text_general		✓	✓		The document title.
sem_title_alpha	text_alpha		✓	✓		Same as sem_title but tokenized for alphabetic sorting.
sem_subtitle	text_general		✓	✓		The document sub-title.

Field	Type	R	I	S	M	Description
sem_subtitle_alpha	text_alpha		✓	✓		Same as sem_subtitle but tokenized for alphabetic sorting.
sem_abstract	text_general		✓	✓		A summary of the document.
sem_content	text_general		✓	✓		The actual textual content of the document.
sem_url	url		✓	✓		The document's URL.
sem_keywords	text_general		✓	✓	✓	Comma-separated list of document keywords.
sem_tags	string		✓	✓	✓	Comma-separated list of document tags.
sem_author	text_minimal		✓	✓	✓	The document's author(s).
sem_author_facet	string		✓		✓	Automatically generated field to support faceting on authors.
sem_author_info	string			✓		An opaque field to store frontend-related information about the document author(s)
sem_creation_date	date		✓	✓		The document's creation date.
sem_modification_date	date		✓	✓		The date at which the document was last modified.
sem_publication_date	date		✓	✓		The date at which the document was published (to be used if there is a publication workflow in place)
sem_popularity	float		✓	✓		Optional field that can be used for boosting or selecting the most popular documents in an index.
sem_sort_order	int		✓	✓		Field used for sorting
*_mfacet	string		✓			Dynamic field that may be used for faceting

Location-related fields

Predefined fields related to the "address style" location associated with an indexed document.

R = required, **I** = indexed, **S** = stored, **M** = multi-value

Field	Type	R	I	S	M	Description
sem_location	location_rpt_approximate		✓	✓		Geographic location - can be any geo shape, from a single point to a multi-polygon. Level of geographic precision can be adjusted in the schema to fit different use cases and performance goals.
sem_location_latlng	location		✓	✓		Geographic point expressed as latitude and longitude coordinates. Faster than the fields that support complex geo objects, ideal for distance sorting.
sem_geo_object	location_rpt_approximate		✓	✓		Geographic location - additional field with the same capabilities as sem_location.
sem_address_info	string			✓		Opaque field for frontend-related address information.
sem_address_street	text_minimal		✓	✓		Street name and number
sem_address_city	text_minimal		✓	✓		Town or city.
sem_address_city_facet	string		✓			Automatically generated field to support faceting on city names.
sem_address_postal_code	text_minimal		✓	✓		Postal code.
sem_address_postal_code_facet	string		✓			Automatically generated field to support faceting on postal codes.
sem_address_district	text_minimal		✓	✓		Organizational or geographical district.
sem_address_district_facet	string		✓			Automatically generated field to support faceting on district names.
sem_address_country	text_minimal		✓	✓		Country (can be full name or country code).
sem_address_country_facet	string		✓			Automatically generated field to support faceting on country names (or codes).

Contact-related fields

Fields related to contact details (person, telephone, email, etc.)

R = required, **I** = indexed, **S** = stored, **M** = multi-valued

Field	Type	R	I	S	M	Description
sem_contact_info	string			✓		Opaque field for frontend-related contact information.
sem_contact_phone	tel_number		✓	✓	✓	Main (landline) telephone number.
sem_contact_mobile	tel_number		✓	✓	✓	Mobile telephone number.
sem_contact_fax	tel_number		✓	✓	✓	Fax number.
sem_contact_email	email		✓	✓	✓	Email address.
sem_contact_social	string		✓	✓	✓	Opaque field that can be used to store contact information for social networking accounts.
sem_contact_name	text_minimal		✓	✓		The name of the contact (may be a person's name but not necessary).

Document-related fields

Fields that captures details for indexed document resources.

R = required, **I** = indexed, **S** = stored, **M** = multi-valued

Field	Type	R	I	S	M	Description
sem_image_url	url			✓	✓	Document image
sem_image_thumbnail_url	url			✓		Document thumbnail image
sem_links	url		✓	✓	✓	URLs related to the document (e.g., of links inside the document)
sem_headings	text_general		✓	✓	✓	Document section headings
sem_meta_description	text_general		✓	✓		Document meta-data description
sem_meta_title	text_general		✓	✓		Document meta-data title
sem_host	string		✓	✓		Host part of the document's URL (useful when documents may be indexed from multiple hosts).
sem_path	string		✓	✓		Path part of the document's URL.
sem_mime_type	mime		✓	✓		Document MIME type.
sem_mime_type_facet	string		✓			Automatically generated field that allows faceting by MIME types.
sem_content_size	long		✓	✓		Document content size (in bytes).

Event-related fields

Fields for capturing details of one-time and recurring events.

R = required, **I** = indexed, **S** = stored, **M** = multi-valued

Field	Type	R	I	S	M	Description
sem_event_location_name	text_minimal		✓	✓		Name of an event location.
sem_event_location_facet	string		✓			Automatically generated field to support faceting on event location names.
sem_event_start	date		✓	✓		Start date / time of an event.
sem_event_end	date		✓	✓		End date / time of an event.
sem_event_occurrences	occurrence		✓	✓	✓	For recurring events, pairs of start and end dates and times.
sem_event_organizer	text_minimal		✓	✓		Event organizer's name (person, company, etc.)
sem_event_organizer_facet	string		✓			Automatically generated field to support faceting on event organizers.

Web-related fields

Fields related to typical web portals features, such as blogs, FAQs and online newsletters.

R = required, **I** = indexed, **S** = stored, **M** = multi-valued

Field	Type	R	I	S	M	Description
sem_blog_name	text_general		✓	✓		Name of the blog
sem_blog_facet	string		✓			Automatically generated field to support faceting on blog names.
sem_newsletter_issue	text_general		✓	✓		Newsletter issue (as simple text)
sem_newsletter_facet	string		✓			Automatically generated field to support faceting on newsletter issues.
sem_faq_question	text_general		✓	✓		Question part of a FAQ
sem_faq_answer	text_general		✓	✓		Answer part of an FAQ
sem_faq_facet	string		✓			Auxiliary field that can be populated for faceting on whole FAQs.
sem_comments	text_general		✓	✓	✓	Can hold the text of comments of a particular page, article, blog post, etc.
sem_comments_count	int		✓	✓		Number of comments related to the current record (see sem_comments)
sem_comments_info	string			✓		Opaque field for storing additional information for the comments related to the current record (see sem_comments)

Shop-related fields

Fields intended for capturing details of products in online shops. See also [Categorization fields](#) for fields that can be used to store product category information.

R = required, **I** = indexed, **S** = stored, **M** = multi-valued

Field	Type	R	I	S	M	Description
sem_product_sku	text_minimal		✓	✓	✓	A customer-specific identifier for a product.
sem_product_sku_facet	string		✓		✓	Automatically generated field that stores the SKU for use in exact matches and faceting.
sem_product_description	text_general		✓	✓		Product description.
sem_product_price	float		✓	✓		Product price.
sem_product_price_currency	string		✓	✓		Currency in which product price values are expressed.
sem_product_specialoffer_price	float		✓	✓		Product price when on special offer.
sem_product_specialoffer_start	date		✓	✓		Start date / time of a special offer.
sem_product_specialoffer_end	date		✓	✓		End date / time of a special offer.
sem_product_specialoffer_info	string			✓		Opaque string to store additional information for a special offer (e.g., to be used in the frontend).
sem_product_weight	float		✓	✓		Product weight.
sem_product_weight_unit	string		✓	✓		Unit in which the product's weight is expressed,
sem_product_size	text_minimal		✓	✓		Textual description of the the product's dimensions.
sem_product_size_facet	string		✓			Automatically generated field for faceting over product size (usable only for a single dimension, for multiple dimensions additional fields need to be declared).
sem_product_in_stock	boolean		✓	✓		Whether a product is in stock.
sem_product_color	text_general		✓	✓	✓	The product's color(s).
sem_product_color_facet	string		✓		✓	Automatically generated field for faceting over the product's color(s).

Field	Type	R	I	S	M	Description
sem_product_brand	text_general		✓	✓	✓	The product's brand's name.
sem_product_brand_facet	string		✓		✓	Automatically generated field for faceting over the product's brand's name.
sem_product_manufacturer	text_general		✓	✓	✓	The product's manufacturer.
sem_product_manufacturer_facet	string		✓		✓	Automatically generated field for faceting over the product's manufacturer.
sem_opening_hours	occurrence		✓	✓	✓	Specialized field to store the opening hours of shops, so that "is it open now" or "is it open at any time during the weekend" can be answered.
sem_product_ean	ean		✓	✓		A product's EAN.
sem_product_age_group	text_minimal		✓	✓	✓	The age group(s) for which a product is intended.
sem_product_age_group_facet	string		✓		✓	Automatically generated field for faceting over the age group(s) for which a product is intended.
sem_product_gender	text_minimal		✓	✓	✓	The gender(s) for which a product is intended.
sem_product_gender_facet	string		✓		✓	Automatically generated field for faceting over the gender(s) for which a product is intended.
sem_product_material	text_minimal		✓	✓	✓	The product's material(s).
sem_product_material_facet	string		✓		✓	Automatically generated field for faceting over the product's material(s).

Categorization fields

Fields that facilitate the capturing and searching of categorical information, including the automatic management of hierarchical information.

R = required, **I** = indexed, **S** = stored, **M** = multi-valued

Field	Type	R	I	S	M	Description
sem_topic	string		✓	✓	✓	Main document topic
sem_topic_*	string		✓	✓	✓	Field prefix for dynamic fields that represent additional document topics.
sem_category_main	string		✓	✓	✓	Main document category (non-hierarchical)
sem_category_main_*	string		✓	✓	✓	Field prefix for dynamic fields that represent additional document categories (non-hierarchical).

HIERARCHICAL FIELDS

Field	Type	R	I	S	M	Description
sem_category_ids_branch	descendent_path		✓	✓	✓	Hierarchical category branch(es), using category ids
sem_category_ids	cat_minimal		✓		✓	Automatically generated field with all category ids in the branch.
sem_category_ids_root	cat_root		✓		✓	Automatically generated field with only the root category ids
sem_category_ids_leaf	cat_leaf		✓		✓	Automatically generated field with only the bottom (leaf) category ids
sem_category_names_branch	descendent_path		✓	✓	✓	Hierarchical category branch(es), using category names
sem_category_names	cat_minimal		✓		✓	Automatically generated field with all category names in the branch.
sem_category_names_root	cat_root		✓		✓	Automatically generated field with only the root category names
sem_category_names_leaf	cat_leaf		✓		✓	Automatically generated field with only the bottom (leaf) category names
sem_category_ids_branch_*	descendent_path		✓	✓	✓	Prefix version of sem_category_ids_branch
sem_category_ids_*	cat_minimal		✓		✓	Prefix version of sem_category_ids
sem_category_ids_root_*	cat_root		✓		✓	Prefix version of sem_category_ids_root
sem_category_ids_leaf_*	cat_leaf		✓		✓	Prefix version of sem_category_ids_leaf
sem_category_names_branch_*	descendent_path		✓	✓	✓	Prefix version of sem_category_names_branch

Field	Type	R	I	S	M	Description
sem_category_names_*	cat_minimal		✓		✓	Prefix version of sem_category_names
sem_category_names_root_*	cat_root		✓		✓	Prefix version of sem_category_names_root
sem_category_names_leaf_*	cat_leaf		✓		✓	Prefix version of sem_category_names_leaf

Synthetic fields (automatically generated)

The fields described here are generated automatically and can be used for various search purposes.

R = required, **I** = indexed, **S** = stored, **M** = multi-valued

Field	Type	R	I	S	M	Description
sem_timestamp	date		✓	✓		Field set automatically to the time of indexing; can be overridden if desirable.
sem_text_search	text_general		✓	✓	✓	"Sink" field into which all searchable fields are copied
sem_text_spell	text_spell		✓		✓	"Sink" field into which all fields from which spelling suggestions can be derived are copied.
sem_text_suggest	sem_text_suggest		✓		✓	"Sink" field into which all fields from which auto-complete suggestions can be derived are copied.
sem_text_excerpt	sem_text_excerpt		✓	✓	✓	This field can be optionally used as a "sink" field from which the search excerpts (or "snippets") are extracted. Normally the field sem_text_search is used for that.

Indexing

Adding, updating and deleting documents

Topics: indexing whole documents; performing atomic partial updates of documents; deleting documents; "hard" commits.

Adding documents

The indexing of documents is done through the endpoint `/ingest` of the search server installation.

This endpoint accepts `POST` requests, containing the document(s) to be indexed in the request's body. Documents must be encoded in one of these format / mime-types:

- `text/xml` or `application/xml`
- `text/json` or `application/json`
- `text/csv` or `application/csv`

The capabilities of the default Solr update handler are present here also.

Ingested documents are automatically committed to the index after a preset period of time, or after a preset maximum number of documents have been ingested. Note that committing documents to the index does not make them automatically visible to the searches. For that a manual commit or a scheduled or manual optimize call need to be performed.

Performing atomic updates

To perform partial atomic updates to a document's fields, it is possible to use field modifiers. The supported modifiers are:

Modifier	Description
<code>set</code>	Set or replace the field value(s) with the specified value(s), or remove the values if 'null' or empty list is specified as the new value. May be specified as a single value, or as a list for multivalued fields.
<code>removeregex</code>	Removes all occurrences of the specified regex from a multi-valued field. May be specified as a single value, or as a list.
<code>remove</code>	Removes (all occurrences of) the specified values from a multi-valued field. May be specified as a single value, or as a list.
<code>inc</code>	Increments a numeric value by a specific amount. Must be specified as a single numeric value.
<code>add</code>	Adds the specified values to a multivalued field. May be specified as a single value, or as a list.

Field modifiers are specified as single-attribute "objects", with the modifier name as an attribute, and the parameters as the attribute's value; this "object" then takes the place of what would normally have been the field's value.

The following example demonstrates the use of the field modifiers for the partial update of an object:

Example of the use of field modifiers

```
{
  "id": "mydoc",
  "price": {"set": 99},
  "popularity": {"inc": 20},
  "categories": {"add": ["toys", "games"]},
  "promo_ids": {"remove": "a123x"},
  "tags": {"remove": ["free_to_try", "on_sale"]}
}
```

Deleting documents

Deletion of documents is done through a **POST** request to the endpoint **/delete**, with the parameter **q** containing the query that identifies the document or documents to be deleted.

To delete individual documents, **q** can have the form **id:<document id>**.

To delete the entire set of documents, **q** can have the form ***:***.

Selective deletion of groups of documents is typically done through a corresponding grouping field (e.g., **sem_grouping:<some top-level category>**)

Hard commits

Manual invocation of commits (or “hard” commits) can be done through:

- A **POST** request to the endpoint **/commit**
- A **POST** request to the ingestion address with content type **application/xml**, and body: **<commit />**

The first of the above options may take longer to complete, because the call only returns after all changes have been flushed to disk, and are “visible” in the search results of any subsequent search calls.

Searching

This chapter introduces the basic concepts of the Semanteer Search Layer.

- It contains an overview of querying endpoints and their parameters.
- It explains the response structures for the Semanteer Search Layer.
- It presents the available search features and describes its configuration options in detail.

The search request

Semanteer Search Layer exposes a default endpoint for searching under **/search**. The search will take one or more search term(s) as parameter - together with additional optional parameters that are described in this section.

The search will give you back a **response** that contains the result documents and additional information (e.g. Information about Filters, Grouping, Sorting, and Results with corresponding action links).

Basic Parameters

The basic parameters described below can be applied in every search request.



Moreover every component can add additional parameters to enable configuration options. These additional parameters are described in detail in the corresponding section of the particular component (**Features**, e.g. **Autofilter** or **Geographic Query**)

Search Term

There is only **one mandatory parameter** that is

- **q**: This parameter contains the search terms entered by the user

Special characters allowed in the search queries include:

- *****: matches any character(s) in a indexed term / token. When used in isolation, returns all documents in the index.
- **+**: indicates that the term that immediately follows it, *must* exist in the documents returned
- **-**: indicates that the term that immediately follows it, *is not allowed* to exist in the documents returned
- **"..."**: terms enclosed in double quotes are searched verbatim in the indexed documents



Try it out!

All examples used in the documentation are retrieved from our online demo, try e.g. <https://search-features.demos.contextity.ch/sl/search?q=Sauvignon>

Optional parameters

There are additional parameters that will influence the query itself as well as the representation of the results.

- **Parameters** that are relevant for the [Response Format\(s\)](#)
 - **wt**: determines the format of the response; officially supported formats are **json** and **xml**
 - **indent**: if set to **true** or **on**, the response is indented for easier reading; default is **false**
- **Paging parameters** can be set by the frontend or by using the actions from the [Base URLs](#).
 - **rows**: Determines the number of results to be returned in a "batch"
 - **start**: Determines the offset into the result set of the first document to be included in the current "batch"
- **Parameters** for [Sorting Results](#) and [Grouping Results](#) do not need to be managed separately by the frontend
- **Filter parameters** do not need to be managed separately by the frontend. To enable or disable [Facets and Filters](#) the frontend can use the corresponding actions which already contain the full current state of the search, including activated and deactivated filters. See section [Action URLs](#) for more details. Filtering parameters typically start with the prefix **f..**
- **Monitoring parameters**, like filter parameters, do not need to be managed explicitly by the frontend. Action URLs are provided in two forms, one of which contains all the necessary monitoring parameters pre-populated in the URL. See section [Monitoring URLs](#) for more details. Monitoring parameters start with the prefix **ot..**
- **Parameters** to activate different **configurations** of to activate defined prepared queries. See section [Advanced configuration options](#) for more details.



Semanteer vs. Solr parameters

Users that are familiar with Apache Solr need to be aware that some common features - e.g. [Grouping Results](#) - can not be enabled the same way as with Solr (by adding the regarding parameters).

The search response

The search response of Semanteer Search Layer contains a lot of information about documents, facets, as well as Action URLs that enables you to easily navigate through the search. That way you can activating and deactivate features, apply filters, change sorting and grouping, use paging links, select alternative spell-corrected suggestion, retrieve similar (more-like-this) results, and so on.

Response Format(s)

Semanteer officially supports two response format, **JSON** and **XML** (other formats supported by Solr are possible, please inquire if you need one of those returned).

The default format returned is **JSON** and conforms to the **arrmap** variant of the Solr JSON response subtypes.

To retrieve results in XML format instead, add the parameter `wt=xml` to the requests sent to the search server. To activate indentation in the results (turned off by default), add the parameter `indent=on` to the requests (applies both to JSON and XML).

The description of response structures in the rest of this document uses the JSON format, but all descriptions transfer exactly to the XML format as well (including naming, nesting, etc).

Structure of the response

The overall structure of a (ungrouped) search response is as follows (see also Appendix [A.1. Full search response](#) for a full sample response)

Main sections in the response

The main sections of the response are:

- **responseHeader**: This section contains information about the response as a whole. Fields therein include:
 - **semQTime**: The total time a request took on the search server
 - **QTime**: The time spent exclusively on the main query by Solr
 - **semStatus**: Search server status code (0 signifies no errors)
 - **status**: Solr status code (0 signifies no errors)
- **response**: This section contains the actual search results, when no grouping is applied - if any were found. Fields therein include:
 - **numFound**: The total number of search results found (to be distinguished from the number of results in the current batch returned)
 - **start**: Zero-based offset of the first result in the current batch of results returned
 - **docs**: An array of results, with each result represented as an “object” with its own fields
- **grouped**: This section contains the actual search results when grouping is applied. (please refer to [Grouping Results](#) for more details)
- **facet_counts**: This section contains the different types of facets to which the *total* set of results can be assigned. Fields therein include (please refer to [Common configuration options](#) for more details)
 - **facet_fields**: This is the most common type of facet, and refers to index fields that have distinct values (typically strings). (see also [Text based facets](#))
 - **facet_queries**: This type of facet corresponds to Solr query-based facets.)
 - **facet_dates**: This is a specialized type of facet that is used for date fields.
 - **facet_intervals**: This type of facet is activated for fields that can be split into preset intervals (usually numeric fields).
 - **facet_ranges**: This type of facet is activated for fields that can be split into preset ranges (usually numeric fields) (see also [Range facets](#))
 - **facet_hierarchies**: This type of facet is activated for fields that contain a hierarchical information (see also [Hierarchical facets](#))

- **active_filters**: This section contains Information about filters that are currently active. That maybe facet based filters, or filters added by the [Geographic Query](#) or the [Autofilter](#). Filters get activated through parameters in the incoming request or through the internal logic of involved components. (please refer to [Active and suggested Filters](#) for more details)
- **suggested_filters**: This section contains information about filters suggested by the [Geographic Query](#) or the [Autofilter](#). (please refer to [Active and suggested Filters](#) for more details)
- **base_urls**: This section contains a set of "base" URLs that can be used to compose other URLs for requests to the search server (please refer to [Base URLs](#) for more details)
- **paging**: A specialized part of the base_urls that is available also separately for convenience purposes (please refer to section [Base URLs](#) for more details)
- **spelling**: This section contains an array of spelling suggestions, if any can be made for the current search term(s) (please refer to [Spelling suggestions](#) for more details)



Note that there is only either a **response** or a ``grouped`` section in the response depending on whether grouping is applied or not!

The individual sections are described in more detail in the rest of this document.

The Context section



Available since version 1.6.

The **context** section reveals information about what and how tokens have been used in the search:

- **originalTokens**: Lists all tokens of the original searchterm
- **originalSearchTerm**: The original search term (as supplied with the parameter `q`).
- **tokens**: Lists all tokens that remain after tokens within matched terms have been removed.
- **searchTerm**: The searchterm after matched terms have been removed - that is the term that is sent to solr then.
- **matchedTerms**: A list of terms that have been identified as matches by certain components ([Autofilter](#) and [Geographic Query](#)) an may have been removed from the searchterm.
 - **componentName**: The name of the component that using the term
 - **componentClass**: The class of the component that using the term
 - **matchType**: **AUTOFILTER** or **GEOQUERY**
 - **tokens**: List of tokens that make up the term
 - **tokenPositions**: Positions of the tokens within the **originalTokens** list
 - **remove**: Whether or not the tokens have been removed in the **searchTerm**

Additional sections in the response

Apart from the main sections described above some components add their own section to the response:

- **autofilter**: This section is added by the [Autofilter](#)
- **grouping**: This section is added for [Grouping Results](#) in addition to the **grouped** section mentioned above.
- **geoquery**: This section is added by the [Geographic Query](#).

Example

The example below illustrates the overall structure of an ungrouped search response.

Structure of an ungrouped search response

```
{
  "responseHeader": {
    "QTime": 103,
    "solrQTime": 5,
    "status": 0,
    "solrStatus": 0,
    "params": {
      "q": "dummy",
      "...": "other request parameters"
    }
  },
  "response": {
    "numFound": 13,
    "start": 0,
    "docs": [{
      "id": "10",
      "...": "other document fields"
    }],
    "other documents..."
  ],
  "facet_counts": {
    "facet_queries": "< facet structure >",
    "facet_fields": "< facet structure >",
    "facet_dates": "< facet structure >",
    "facet_ranges": "< facet structure >",
    "facet_intervals": "< facet structure >"
  },
  "autofilter": "{ ... autofilter fields ... }",
  "geoquery": "{ ... geoquery fields ... }",
  "spelling": "[ < spelling structure > , ... ]",
  "sorting": "[ < sorting structure > , ... ]",
  "context": "[ < context structure > , ... ]",
  "active_filters": "{ < action structure > }",
  "suggested_filters": "{ < action structure > }",
  "base_urls": "{ < named URL structures > }",
  "paging": "{ < named URL structure > }"
}
```

Base URLs

Base URLs are URLs that are intended to facilitate implementation of the frontend.

The response contains a section **base_urls** that is made up by a number of URLs. As can be seen in the snippet below, *Base URLs* have a structure identical to that of individual actions. *Base URLs* are intended to be used as a basis for implementing features such as paging, resetting search state, etc. in the frontend.

Listing of Base URLs

Base URLs that are always available are:

- **paging**: To be used as the basis for URLs that maintain the current search state but without paging parameters.

- **search_with_current_state**: To be used as a basis for URLs that maintain the current search state (including paging state)
- **search_with_empty_state**: These URLs “reset” the current search state, leaving any additional request parameters intact. Note that these URLs do not contain a `q` parameter, which needs to be added anew to them
- **remove_all_filters**: These URLs, as their name suggests, deactivate all currently active filters, leaving the rest of the search state intact. They are equivalent to the top-level **sem_action** in the active filters’ section of the response (see [Facet values as filters](#) for more details).
- **repeat_current_search**: Similar to the generic paging URLs, but this is always present.
- **remove_sl_params**: Removes the `_semc` parameter

Furthermore additional (optional) *Base URLs* may be added:

- **disable_geoquery** or **enable_geoquery**: En- or disables the [Geographic Query](#)
- **dont_apply_geoquery** or **apply_geoquery**: Apply or do not apply places found by the [Geographic Query](#)
- **reset_geoquery**: Reset the [Geographic Query](#) (that means removing related parameters).
- **disable_autofilter** or **enable_autofilter**: En- or disables the [Autofilter](#)
- **dont_apply_autofilter** or **apply_autofilter**: Apply or do not apply matches found by the [Autofilter](#)
- **reset_autofilter**: Reset the [Autofilter](#) (that means removing related parameters).
- **disable_grouping** and **enable_grouping**: En- or disables grouped results. That requires a configuration with a `GroupFieldComponent`. Read more about [Grouping Results](#)

Example

The example below shows a snippet of the **base_urls** section:

Structure of the *base_urls* section

```
{
  "base_urls": {
    "paging": {
      "sem_url": "?q=*",
      "sem_url_action": "?q=*&ot.et=search&ot.est=paging&ot.es=source_serp&ot.sse=68674f08-4b60-4baf-a21b-34de7ebaa575"
    },
    "repeat_current_search": {
      "sem_url": "?q=*",
      "sem_url_action": "?q=*&ot.et=search&ot.est=normal&ot.es=source_serp&ot.sse=68674f08-4b60-4baf-a21b-34de7ebaa575"
    },
    "remove_sl_params": {
      "sem_url": "?q=*",
      "sem_url_action": "?q=*&ot.et=search&ot.est=normal&ot.es=source_serp&ot.sse=68674f08-4b60-4baf-a21b-34de7ebaa575"
    },
    "search_with_current_state": {
      "sem_url": "?",
      "sem_url_action": "?ot.et=search&ot.est=normal&ot.es=source_serp&ot.sse=68674f08-4b60-4baf-a21b-34de7ebaa575"
    },
    "search_with_empty_state": {
      "sem_url": "?",
      "sem_url_action": "?ot.et=search&ot.est=normal&ot.es=source_serp&ot.sse=68674f08-4b60-4baf-a21b-34de7ebaa575"
    },
    "remove_all_filters": {
      "sem_url": "?q=*",
      "sem_url_action": "?q=*&ot.et=search&ot.est=filter-modified&ot.es=source_serp&ot.sse=68674f08-4b60-4baf-a21b-34de7ebaa575"
    },
    "disable_autofilter": {
      "sem_url": "?q=*&autofilter=false",
      "sem_url_action": "?q=*&autofilter=false&ot.et=search&ot.est=autofilter-modified&ot.es=source_serp&ot.sse=68674f08-4b60-4baf-a21b-34de7ebaa575"
    }
  }
}
```

```

    },
    "reset_autofilter": {
      "sem_url": "?q=*",
      "sem_url_action": "?q=*&ot.et=search&ot.est=autofilter-modified&ot.es=source_serp&ot.sse=68674f08-4b60-4baf-a21b-34de7ebaa575"
    },
    "dont_apply_autofilter": {
      "sem_url": "?q=*&autofilter.apply=false",
      "sem_url_action": "?q=*&autofilter.apply=false&ot.et=search&ot.est=autofilter-modified&ot.es=source_serp&ot.sse=68674f08-4b60-4baf-a21b-34de7ebaa575"
    },
    "disable_geoquery": {
      "sem_url": "?q=*&geoquery=false",
      "sem_url_action": "?q=*&geoquery=false&ot.et=search&ot.est=autofilter-modified&ot.es=source_serp&ot.sse=68674f08-4b60-4baf-a21b-34de7ebaa575"
    },
    "reset_geoquery": {
      "sem_url": "?q=*",
      "sem_url_action": "?q=*&ot.et=search&ot.est=autofilter-modified&ot.es=source_serp&ot.sse=68674f08-4b60-4baf-a21b-34de7ebaa575"
    },
    "dont_apply_geoquery": {
      "sem_url": "?q=*&geoquery.apply=false",
      "sem_url_action": "?q=*&geoquery.apply=false&ot.et=search&ot.est=autofilter-modified&ot.es=source_serp&ot.sse=68674f08-4b60-4baf-a21b-34de7ebaa575"
    }
  }
}

```



For convenience, the paging URLs are also available as a separate top-level section in the response under paging. Note that neither this top-level section, nor the corresponding part in the *Base URLs* are present if the number of results are less than or equal to the default, or the dynamically set "page" size.

Common conventions

Semanteer Search Layer responses have some elements that are common across all response sections. The most important of them are [Encoded document identifiers](#), [Action URLs](#), and [Monitoring URLs](#).

Encoded document identifiers

Documents in the search response always contain a field named **sem_encoded_id**. As its name suggests, this field contains an encoded form of the document's **id** field. This form is recognized and decoded by search endpoints that expect a document reference (e.g., the [\[More-Like-This::More Like This\]](#) and [\[Record-endpoint::Record endpoint\]](#)). The encoding should be treated as a "black-box" one, and it can be assumed that its representation is always URL-safe.

Action URLs

For certain elements in the response (e.g., documents, facets, etc.), Semanteer can determine what actions are possible with them. For instance, documents can be retrieved through a URL, facets can be activated as filters, etc. The actions understood by Semanteer are dynamically added to the corresponding elements, using the following structure:

Structure of *sem_actions*

```

{
  "sem_actions": {
    "default": "goto",
    "goto": {
      "sem_url": "... url ...",
      "sem_url_action": "... monitoring url ...",
      "sem_url_logging": "... logging url ...",
      "sem_is_external": true
    },
    "fetch": {
      "sem_url": "... url ...",

```

```

    "sem_url_action": "... monitoring url ...",
    "sem_url_logging": "... logging url ..."
  },
  "mlt": {
    "sem_url": "... url ...",
    "sem_url_action": "... monitoring url ..."
  }
}
}
}

```

Key points regarding the above structure:

- Every action is assigned an own identifier, which signifies the type of the action. For example, **goto** is the identifier for simple “follow the link” actions, and **mlt** is the identifier for invoking the [\[More-Like-This::More Like This\]](#) endpoint.
- If there are more than one actions possible, Semanteer will designate one of them as the **default**. If not otherwise configured, Semanteer will always select the **goto** action of an element as the default one.
- Actions are expressed through URLs that need to be invoked. These could be “internal” URLs that point to specific endpoints of the search server, or “external” URLs that lead to addresses outside the scope of the search server. Which of the two types an action URL belongs to is captured in the field **sem_is_external**. The URL itself is captured in the field **sem_url**.



Fetch URLs are always internal and can be used to retrieve the individual document.



Action URLs are, in practically all cases, not complete URLs, but rather the query portion of URLs; frontend code needs to compose the full URL by appending the provided query portion to the base search endpoint address of an installation. This approach allows JS-based frontends to adopt a URL schema that mirrors that of the search server for ease of implementation. The sample development frontend demonstrates how this can be implemented in practice.

A variant of the set of actions structure explained above is the structure used for single actions:

Structure of *sem_actions*

```

{
  "sem_actions": {
    "default": "goto",
    "goto": {
      "sem_url": "... url ...",
      "sem_url_action": "... monitoring url ...",
      "sem_url_logging": "... logging url ...",
      "sem_is_external": true
    },
    "fetch": {
      "sem_url": "... url ...",
      "sem_url_action": "... monitoring url ...",
      "sem_url_logging": "... logging url ..."
    },
    "mlt": {
      "sem_url": "... url ...",
      "sem_url_action": "... monitoring url ..."
    }
  }
}

```



Note that the above structure is essentially the same as the structure of individual actions in a set, as presented above. For example these type of single action is used in [Facets](#) and

Monitoring URLs

When monitoring is activated, Semanteer generates two dynamic URLs for elements that support actions. The “simple” URL is still present, and is captured in the field `sem_url` (just as when monitoring is not activated). The additional URL can be found in the field `sem_url_action` and may contain additional parameters intended to be intercepted by the search server’s monitoring component. Such parameters may indicate, for instance, the position of a clicked result in the total list of search results, or that the user’s current search is using terms that were offered as spelling suggestions to the previous search.

For "goto" and "fetch" actions the `sem_url_logging` URL gets generated as well. A call to this `/log` endpoint can be used as a "beacon", to record an interaction with the search results. (see also Appendix [A.1. Full search response](#) for actual action URLs)



Note that the “simple” URLs are typically the ones shown to users in the frontend, while the “action” URLs are the ones actually called for performing the search.

Document fields

For every single document in the result list a set of fields with values and [Action URLs](#) are returned.

The fields returned belong to two categories:

- **Fields stored in the index:** These fields are identical to what Solr would return as well. It is possible to define in the search configuration which fields should be returned, if not all stored fields are needed in the response.
- **Fields generated by Semanteer:** These fields are dynamically generated by the search server.

In the example below we can see a response with the following Semanteer fields:

- **sem_encoded_id:** This is an encoded form of the document id (see [Encoded document identifiers](#))
- **sem_excerpt:** This is a (set of) highlighted excerpt(s) that contain the search term(s), derived from the main “sink” field for searching.
- **sem_actions:** This is a set of structured actions related to the present document. Please refer to [Action URLs](#) and [Monitoring URLs](#) described in [Common conventions](#) for details.

A single entry for a document may look like the following:

Example of a single document

```
{
  "wine_producer": "Château Latour",
  "sem_text_search": [
    "Château Latour",
    "France",
    "Red Wine",
    "Pauillac",
    "Château Latour",
    "1966 Chateau Latour Grand Vin"
  ],
}
```

```

"sem_text_suggest": [
  "Château Latour",
  "France",
  "Château Latour",
  "1966 Chateau Latour Grand Vin"
],
"sem_suggest_prefix": [
  "Château Latour",
  "France",
  "Château Latour",
  "1966 Chateau Latour Grand Vin"
],
"sem_suggest_phrase": [
  "Château Latour",
  "France",
  "Château Latour",
  "1966 Chateau Latour Grand Vin"
],
"wine_producer_id": "Château Latour",
"wine_sub_region": "Médoc",
"fruit_source": "Producer owned",
"country": "France",
"/common/topic/image": [
  "Latour1966.jpg"
],
"id": "/en/1966_chateau_latour",
"region": "Bordeaux",
"wine_type": "Still Wine",
"wine_type_facet": "Still Wine",
"color": "Red Wine",
"sem_grouping": "Red Wine",
"color_facet": "Red Wine",
"appellation": "Pauillac",
"appellation_facet": "Pauillac",
"vintage_hierarchy": "Old:1966",
"vintage": 1966,
"vineyard": "Château Latour",
"sem_location": "45.177065, -0.744161",
"sem_location_latlng": "45.177065, -0.744161",
"sem_publication_date": "2017-05-27T16:33:28.258Z",
"sem_title": "1966 Chateau Latour Grand Vin",
"sem_title_alpha": "1966 Chateau Latour Grand Vin",
"sem_url": "http://www.freebase.com/m/02wsg9z",
"sem_record_type": "wine",
"sem_lang": "en",
"sem_timestamp": "2024-06-07T12:19:43.380Z",
"color_document": [
  {
    "id": "Red Wine",
    "sem_title": "Red Wine",
    "sem_record_type": "color",
    "sem_url": "http://www.freebase.com/m/02wsb20"
  }
],
"sem_actions": {
  "default": "goto",
  "goto": {
    "sem_url": "/sl/redirect?url=http%3A%2F%2Fwww.freebase.com%2Fm%2F02wsg9z&id=SEML2VuLzE5NjZfY2hhdGVhdV9sYXRvdXI",
    "sem_url_action": "/sl/redirect?url=http%3A%2F%2Fwww.freebase.com%2Fm%2F02wsg9z&id=SEML2VuLzE5NjZfY2hhdGVhdV9sYXRvdXI&ot.et=result&ot.est=serp-result-click&ot.q=*&ot.es=source_serp&ot.nf=100&ot.s=0&ot.r=20&ot.rank=0&ot.sse=68674f08-4b60-4baf-a21b-34de7ebaa575",
    "sem_url_logging": "/sl/log?url=http%3A%2F%2Fwww.freebase.com%2Fm%2F02wsg9z&id=SEML2VuLzE5NjZfY2hhdGVhdV9sYXRvdXI&ot.et=result&ot.est=serp-result-click&ot.q=*&ot.es=source_serp&ot.nf=100&ot.s=0&ot.r=20&ot.rank=0&ot.sse=68674f08-4b60-4baf-a21b-34de7ebaa575",
    "sem_is_external": true
  },
  "fetch": {
    "sem_url": "/sl/record?id=SEML2VuLzE5NjZfY2hhdGVhdV9sYXRvdXI",
    "sem_url_action": "/sl/record?id=SEML2VuLzE5NjZfY2hhdGVhdV9sYXRvdXI&ot.et=result&ot.est=serp-result-click&ot.q=*&ot.es=source_serp&ot.nf=100&ot.s=0&ot.r=20&ot.rank=0&ot.sse=68674f08-4b60-4baf-a21b-34de7ebaa575",
    "sem_url_logging": "/sl/log?id=SEML2VuLzE5NjZfY2hhdGVhdV9sYXRvdXI&ot.et=result&ot.est=serp-result-click&ot.q=*&ot.es=source_serp&ot.nf=100&ot.s=0&ot.r=20&ot.rank=0&ot.sse=68674f08-4b60-4baf-a21b-34de7ebaa575"
  },
  "mlt": {
    "sem_url": "/sl/morelikethis?id=SEML2VuLzE5NjZfY2hhdGVhdV9sYXRvdXI",
    "sem_url_action": "/sl/morelikethis?id=SEML2VuLzE5NjZfY2hhdGVhdV9sYXRvdXI&ot.et=mlt&ot.est=mlt&ot.es=source_serp&ot.nf=100&ot.s=0&ot.r=20&ot.rank=0&ot.q=*&ot.sse=68674f08-4b60-4baf-a21b-34de7ebaa575"
  }
},
"sem_encoded_id": "SEML2VuLzE5NjZfY2hhdGVhdV9sYXRvdXI"
}

```



This field **sem_excerpt** is not generated when the search term(s) contain *only* wildcard characters (e.g., **q=dum*** will still provide excerpts, but **q=*** will not)

Configure your search

The behavior of the Semanteer Search Layer, including the activation of its features, can easily be configured in one configuration file: **search-layer-configuration.json**.

Endpoints

There are two endpoints to read the actual configuration: **/config** and **/config/file**



The difference between the endpoints **/config** and **/config/file** is that **/config** shows a processed version where inheritance of configuration has been processed (see [Advanced configuration options](#) and [The extends property and configuration inheritance](#))

The configuration file

The **search-layer-configuration.json** configuration file is made up different sections.

1. **properties:** This section contains the basic properties of the semanteer search. Read more about the available properties, and what they are used for. See [Configuration Properties](#) for a complete Listing of available properties.
2. **configurations:** This section contains one or more configuration(s), each of it is composed by predefined parameters, predefined queries, and a set of different components. See [Advanced configuration options](#) to learn how it works!
3. **collection:** This sections contains information about different collection that can be used for searching. See [\[Distributed-Search---multiple-collections:::Distributed Search - multiple collections\]](#) on how to use it!

Structure

The code below shows the basic structure of **search-layer-configuration.json**.

Structure of search-layer-configuration.json

```
{
  "collections": {
    "empty": {
      "solrUrl": "http://localhost:8035/solr/empty",
      "monitoringSolrUrl": "http://localhost:8035/solr/sem_monitoring_core_empty",
      "analyticsSolrUrl": "http://localhost:8035/solr/sem_monitoring_core_empty"
    },
    "wines": {
      "solrUrl": "http://localhost:8035/solr/winedemo",
      "monitoringSolrUrl": "http://localhost:8035/solr/sem_monitoring_core",
      "analyticsSolrUrl": "http://localhost:8035/solr/sem_monitoring_core"
    }
  },
  "properties": {
    "search.config.autocomplete.group": "sem_grouping",
    "... more properties ": "..."
  },
  "configurations": {
    "default": {
      "extends": [{
        "configuration": "base",
        "mode": "merge"
      }],
      "requestParams": {
```

```

"defaults": [{
  "name": "sph.fq",
  "value": "sem_record_type:\\wine\\"
}], {
  "... defined default request parameters ": "...",
},
"invariants": [{
  "... defined invariants request parameters ": "...",
}],
"appends": [{
  "... defined appends request parameters ": "...",
}]
},
"preparedQueries": {
  "oldwines": [{
    "name": "q",
    "value": "*:*"
  }], {
    "... more parameters for the prepared Query": "...",
  }
},
"components": [{
  "type": "FacetFieldComponent",
  "... component definition ... ": "...",
}], {
  "... more components ... ": "...",
}
}
}
}

```



Try it out: Let's have a look at the configuration of our demo search: <http://search-features.demos.contextity.ch/sl/config>

Configuration Properties

Within the **properties** section of **search-layer-configuration.json** the basic configuration of the search is set up.

There a set of options can be configured, e.g. fields to be used for retrieving ID, thumbnail and title of your documents, default setup and field for grouping, autocomplete features, and so on.

Listing of all configuration properties

Name	Type	Default value	See also	Description
search.config.autocomplete	String	autocomplete	[Autocomplete:::Autocomplete]	Response section name for autocomplete
search.config.autocomplete.config	String	autocomplete	[Autocomplete:::Autocomplete]	Name of the configuration that is used for prefetching of results in autocomplete
search.config.autocomplete.highlight	boolean	false	[Autocomplete:::Autocomplete]	En-/Disables highlighting of results.
search.config.autocomplete.lasttermquery	boolean	false	[Autocomplete:::Autocomplete]	En-/Disables retrieving suggestions for the last term of the query only (in case no other suggestions for the full query string are present)
search.config.autocomplete.maxsuggestions	int	5	[Autocomplete:::Autocomplete]	Max. number of suggestions in autocomplete
search.config.autocomplete.response	String	response	[Autocomplete:::Autocomplete]	Name of main response section in the autocomplete
search.config.autocomplete.prefetchedResults	String	prefetchedResults	[Autocomplete:::Autocomplete]	Response section name for prefetched results
search.config.autocomplete.fetchResults	boolean	true	[Autocomplete:::Autocomplete]	En-/Disables prefetching of results.
search.config.autocomplete.sortsuggestions	String	natural	[Autocomplete:::Autocomplete]	"natural" of "hits": sorting mode that will be applied for suggestions

Name	Type	Default value	See also	Description
search.config.autocomplete.spellcheckresults	boolean	false	[Autocomplete::Autocomplete]	En-/Disables retrieving results from spellcheck and include them in the list of suggestions (in case no other suggestions are present)
search.config.autocomplete.suggestions	boolean	true	[Autocomplete::Autocomplete]	En-/Disables retrieving the list of suggestions.
search.config.caching.solr	boolean	false		Turn on caching for solr results. Default cache size when enabled 500 entries, ttl=1800sec. Can be deactivated on request basis with sph.sl.nocache=false
search.config.field.id	String	id		Fieldname where the ID is stored
search.config.field.similarity	String	sem_similarity		Fieldname where similarity is shown
search.config.field.thumbnail	String	sem_image_thumbnail_url		Fieldname where the thumbnail is stored
search.config.field.title	String	sem_title		Fieldname where the title is stored
search.config.field.url	String	sem_url		Fieldname where the url is stored
search.config.fields.exclude	String	-		Names of the fields that should be excluded from the response
search.config.fields.noncontent	String	*	[Autocomplete::Autocomplete]	Names of the fields that should be shown in the autocomplete prefetched Results
search.config.geoquery.parallel	boolean	false	Geographic Query	Whether to prefetching request in the Geographic Query should be parallelized
search.config.mlt.doctype.field	String	-	[More-Like-This::More Like This]	Name of the Field that is used to restrict MoreLikeThis results to documents with the same value in this field.
search.config.mlt.similarityfields	String	sem_text_search	[More-Like-This::More Like This]	Name of the field(s) that is/are used to get MoreLikeThis results
search.config.monitoring	boolean	true		(De)activate logging / monitoring for all endpoints
search.config.operator	String	default		Operator (AND or OR) that is used. Values can be: default , AND , OR or AND_OR (Use AND first and repeat the search with OR when the number of results is below a specified threshold (search.config.operator.and.mincount)Can be overridden with the sem.q.op parameter
search.config.operator.and.mincount	int	1		Threshold for repeating an AND search with the OR operator (see search.config.operator)
search.config.result.field.url	String	sem_url		Name of the property where the url(s) are shown in the response
search.config.spellchecker	List	default	[Autocomplete::Autocomplete]	List of the types of spellchecker to be used (1.6.5+)
search.config.suggester	List	prefix, default	[Autocomplete::Autocomplete]	List of the types of suggester to be used: e.g. 'prefix'
search.config.suggest.prefix	String	sem_text_suggest	[Autocomplete::Autocomplete]	Name of the field that is used for facet prefix suggester
search.config.suggest.prefix.fq	String	-	[Autocomplete::Autocomplete]	Filter query that should be applied when using the facet prefix suggester (e.g. "sem_record_type:wine")
search.config.urls.base_url	String	-		Optional baseUrl for urls that are constructed as absolute urls. (1.6.2+)
search.config.urls.mlt_urls.mode	String	absolute	URL modes	Determines how mlt urls are constructed. Valid options: no_path, absolute, full_path, last_path_segment. (1.6.2+)
search.config.urls.result_urls.mode	String	absolute	URL modes	Determines how result urls are constructed. Valid options: no_path, absolute, full_path, last_path_segment. (1.6.2+)
search.config.urls.search_urls.mode	String	no_path	URL modes	Determines how search urls are constructed. Valid options: no_path, absolute, full_path, last_path_segment. (1.6.2+)
search.config.urls.use_forwarded_headers	boolean	false		Read X-Forwarded-Proto and X-Forwarded-Host from Request Header and use in the generate of absolute urls (see above) (1.6.2+)
search.config.excerpt.detail.enabled	boolean	false		Enables the addition of the structured field sem_excerpt_detail which transfers structured, per field field data from the highlight section of the Solr response (2.0.0+)
search.config.excerpt.detail.fields	String	-		Restricts the fields for which structured results are added (see above) (2.0.0+)

URL modes

1. **ABSOLUTE**: Complete URL. Contains hostname, path and query:

```
https://search-features.demos.contextity.ch/sl/search?q=Sauvignon
```

2. **FULL_PATH**: The path following the hostname:

```
/sl/search?q=Sauvignon  
/sl/config
```

3. **LAST_PATH_SEGMENT**: Consists of the rightmost path segment of the request:

```
/search?q=Sauvignon  
/record?id=SEML20vMDJ4aDlyXw
```

4. **NO_PATH**: Only the query portion of the request:

```
?  
?q=Sauvignon
```

Code Example



Take a look at the properties in our example configuration at <https://search-features.demos.contextity.ch/sl/config>

Properties section of search-layer-configuration.json

```
{  
  "properties": {  
    "search.config.autocomplete": "autocomplete",  
    "search.config.autocomplete.config": "autocomplete.ungrouped",  
    "search.config.autocomplete.highlight": true,  
    "search.config.autocomplete.lasttermquery": true,  
    "search.config.autocomplete.maxsuggestions": 5,  
    "search.config.autocomplete.response": "response",  
    "search.config.autocomplete.prefetchedResults": "prefetchedResults",  
    "search.config.autocomplete.prefetchResults": true,  
    "search.config.autocomplete.sortsuggestions": "natural",  
    "search.config.autocomplete.spellcheckresults": true,  
    "search.config.autocomplete.suggestions": true,  
    "search.config.caching.solr": false,  
    "search.config.field.id": "id",  
    "search.config.field.similarity": "sem_similarity",  
    "search.config.field.thumbnail": "sem_image_thumbnail_url",  
    "search.config.field.title": "sem_title",  
    "search.config.field.url": "sem_url",  
    "search.config.fields.exclude": "_version_",  
    "search.config.fields.noncontent": "id,sem_image_thumbnail_url,sem_url,sem_title",  
    "search.config.geoquery.parallel": false,  
    "search.config.mlt.doctype.field": "sem_record_type",  
    "search.config.mlt.similarityfields": "sem_text_search",  
    "search.config.monitoring": true,  
    "search.config.operator": "default",  
    "search.config.operator.and.mincount": 1,  
    "search.config.result.field.url": "sem_url",  
    "search.config.suggester": "prefix,suggest_prefix",  
    "search.config.suggest.prefix": "sem_text_suggest",  
    "search.config.suggest.prefix.fq": "sem_record_type:wine",  
    "search.config.urls.base_url": "http://search-features.demos.contextity.ch/sl/",  
    "search.config.urls.mlt_urls.mode": "full_path",  
  }  
}
```

```
"search.config.urls.result_urls.mode": "full_path",
"search.config.urls.search_urls.mode": "no_path"
}
}
```

An example of a complete configuration file can be found in [\[Appendix-B::Appendix B: Semanteer configuration file: search-layer-configurations.json\]](#).

Advanced configuration options

The configurations section of the configuration file contains one or more configuration(s), each of it is composed by predefined parameters, predefined queries, and a set of different components.

Components

Components are added to a configuration by simply adding them to the components list of the regarding configuration. [Features](#) and Advanced Features ([Autofilter](#) and [Geographic Query](#) to learn more about the specific components.

Different configurations

Semanteer can use more than one configuration that can be defined in `search-layer-configurations.json`. The main advantage of using different configurations is the possibility to switch between them depending on the use-case (e.g. frontend and backend) that must fit different requirement.

Switching between configurations

In the normal case Semanteer would apply the default configuration. To use another configuration an additional parameter `_semc` has to be applied.

- Search with the default configuration: http://search-features.demos.contextity.ch/sl/search?q=*
- Search with the configuration for grouped response called grouped: http://search-features.demos.contextity.ch/sl/search?q=*&_semc=grouped



It is also possible to supply `_semc` more than once, in which the configurations will be merged together, e.g. http://search-features.demos.contextity.ch/sl/search?q=*&_semc=map&_semc=minimal (1.7+)

The extends property and configuration inheritance

A form of "inheritance" to allow for writing complex configurations without unnecessary repetitions.

Multiple inheritance

"Parent" referred to with `extends.configuration`. Order not important.

The property `extends.mode` can have the values:

- **merge**: the contents of the known sections of the present configuration **will be added** to the contents of

the corresponding sections of the parent configurations. Components that can be defined only once or component with the same name would be replaced.

- **replace**: the contents of the known sections of the present configuration will **replace** the contents of the corresponding sections of the parent configurations

If **extends.mode** is omitted, the default value **merge** is assumed.

A configuration can be based on a parent configuration and thus inherit properties and components defined already in the parent.

The code example below shows the configuration **grouped** that inherits from a parent base and then adds another component:

Configuration of grouped (extending default)

```
{
  "grouped": {
    "extends": [
      {
        "configuration": "default",
        "mode": "merge"
      }
    ],
    "components": [
      {
        "type": "GroupFieldComponent",
        "componentName": "color",
        "fieldName": "color_facet",
        "groupLimit": 3,
        "doc": true,
        "docField": "id",
        "docFilter": true,
        "docFq": "sem_record_type:color",
        "docExclude": false
      }
    ]
  }
}
```

Predefined parameters

A configuration can contain a list of default parameters. This way these parameters are applied automatically when the search configuration is invoked.

There are three different types of parameters:

- **defaults**: Default parameters can be overridden.
- **invariants**: Invariants can never be overridden.
- **appends**: Appends parameter will always be added.

The code below shows a configuration **redwines** that sets the default number of rows to 100 (that can be overridden), a filter query for "Red Wines" that will always apply and a fieldlist that can not be changed.

Configuration example using default request params

```
{
  "redwines": {
    "requestParams": {
      "defaults": [
        {
```

```

    "name": "rows",
    "value": "100"
  },
  {
    "name": "sph.fq",
    "value": "color_facet:\\"Red Wine\\"
  },
  {
    "name": "sph.fl",
    "value": "sem_title, country"
  }
]
}
}
}

```



The parameter prefixes **sp.** and **sph.** mean *solr parameter* and *solr parameter hidden* and make sure that the parameters are passed through to the solr server. When **sph.** is used this parameter won't show up in the action URLs in the response.

Prepared queries

Every configuration can also contain one or more predefined queries that can then be easily invoked from the frontend.

Configuration

A predefined query is defined by a name (id) and a value (all parameters and their values).

The example below adds a prepared query to the default configuration that does put a filter for old vines (with vintage before 1996) to the query.

Configuration example for preparedQueries

```

{
  "preparedQueries": {
    "oldwines": [
      {
        "name": "q",
        "value": "*"
      },
      {
        "name": "sph.fq",
        "value": "vintage:[* TO 1995]"
      },
      {
        "name": "rows",
        "value": "10"
      }
    ]
  }
}

```

Autoactivate

Optionally an **autoActivateCondition** can be defined as a [Spring Expression Language](#) expression; whenever the expression evaluates to **true**, the predefined query is activated automatically. A typical side-effect of such activation is the use of the parameters defined in the prepared query, even though the query itself is not explicitly activated.

The expression evaluation environment does not currently contain any context objects, but if there is interest in such a feature (e.g. exposing request parameters or search configuration objects in the evaluation

context) please get in touch with us.



The expression below depends on the current date and returns true during summer months. This way e.g. some special boosting depending on seasons can be defined.

```
"autoActivateCondition": "(T(org.joda.time.LocalDate).now().monthOfYear().get()+12-4)%12 < 9"
```

Usage

The predefined query can then be used by adding the parameter `q.pre` with the name of the prepared query.



The example configuration above thus can be activated here: https://search-features.demos.contextity.ch/sl/search?q.pre=oldwines&q=*

Placeholders and functions



Available since version 1.4.

Placeholders and functions can be used in the search configuration that will be resolved for each search request.

Configuration

Placeholders can be simply used in some parts (see below) of of the search configuration by using the notation `${myparam:defaultparamvalue}`. The value of placeholder is then looked up in the parameters supplied to the search.

If no parameter with the name is found:

- The default value is used if one is specified. The definition of a default value is optional, as well as it can be defined empty, e.g. `${myparam:}`
- The part of configuration where the placeholder is used is not applied. That is the case if no default value was supplied, e.g. `${myparam}`

Valid configuration places

Placeholders and functions can be used in the `requestParams` section or in the `FacetQueryComponent`

Functions

Functions are methods supplied by Semanteer that can be invoked using the same notation as placeholders `${myFuntion()}`

Currently the following function are available:

- `getNowAsOccurence()`: Will return the actual datetime in the format 'yyMMddHHmm'

- `getDateFromNowAsOccurrence(gap):`
- `getDateFromTodayAsOccurrence(gap)`
- `getDateFromThisWeekAsOccurrence(gap)`
- `getRandomField(seed)`

Example configurations and usage

The example below illustrates how placeholders and function can be used within a [Facet Query](#) for faceting documents that are nearby - by using a parameter `pt`

A FacetQueryComponent using a parameter

```
{
  "type": "FacetQueryComponent",
  "componentName": "custom_geoqueries",
  "queries": {
    "nearby": "{!geofilt pt=${pt} sfield=sem_location d=0.2}"
  },
  "excludeOwnFilters": true,
  "excludeAllFilters": false,
  "multiSelect": true,
  "multiSelectMode": "OR",
  "useExclusiveSetAction": true
}
```



Usage: Supply the parameter `pt` to activate the nearby facet: https://search-features.demos.contextity.ch/sl/search?q=*&pt=47.161664,4.955434

The example below illustrates how a function can be used within a [Facet Query](#) for faceting documents that are currently "open" - by using the function `getNowAsOccurrence()`

A FacetQueryComponent using a function

```
{
  "type": "FacetQueryComponent",
  "componentName": "custom_queries",
  "uiLabel": "Custom queries",
  "uiOrder": 20,
  "uiShow": true,
  "uiType": "boolean",
  "queries": {
    "old_american": "country_facet:'United States of America' AND vintage:[0 TO 1999]",
    "open": "sem_opening_hours:\\"Intersects(ENVELOPE(1501010000,{getNowAsOccurrence()}),2512122359,{getNowAsOccurrence()}))\\"
  },
  "excludeOwnFilters": true,
  "excludeAllFilters": false,
  "multiSelect": true,
  "multiSelectMode": "OR",
  "addNegations": true,
  "useExclusiveSetAction": true
}
```

Features

Semanteer Search Layer offers a huge list of features that can be added to your search. Generally speaking **features** of the search are activated by adding them to the **components** elements of a certain configuration in your configuration file. Every component then enhances the search by modifying or adding a section to the response of the search.

Basic structure of a component / feature

The properties of a component are described with a JSON Object, whereas the properties **type** must be specified to determine the type of the component. The structure of regarding section in search-layer-configuration can be seen in the code example below:

Basic structure of components

```
{
  "<configuration_name>": {
    "components": [
      {
        "type": "FacetFieldComponent",
        "componentName": "wine_type",
        "fieldName": "wine_type_facet",
        "...": "other facet component fields"
      },
      {
        "type": "GroupFieldComponent",
        "componentName": "color",
        "fieldName": "color_facet",
        "...": "other groupfield component fields"
      },
      {
        "type": "SortingComponent",
        "...": "other sorting component fields"
      },
      "... other components"
    ]
  }
}
```

Available Features / Components

More about the configuration of components can be found in the section of the corresponding component:

- [Spelling suggestions](#)
- [Grouping Results](#)
- [Sorting Results](#)
- [Facets and Filters](#)

The advanced features [Autofilter](#) and the [Geographic Query](#) are more sophisticated components that imply some additional modifications to the original search.

- [Autofilter](#)
- [Geographic Query](#)

Dependent Components

Components (e.g. Filters) can be configured as dependent on other filters or a parameter value. That means the regarding filter only shows up, when one or more other filter(s) are activated and set to a determined value.

Configuration

Dependencies are added by adding a `dependsOnAny` element to the component's configuration that contains a list of component (or parameters) and their values. The dependencies is satisfied and thus the component is activated when one of these dependencies is satisfied.

Dependency on component

A dependency on a component is described by the component name and the value.

Example of a component with dependency

```
{
  "type": "FacetFieldComponent",
  "componentName": "wine_style",
  "uiLabel": "Wine style",
  "minCount": 1,
  "fieldName": "wine_style_facet",
  "dependsOnAny": [
    {
      "component": "color",
      "value": "Red\\ Wine"
    },
    {
      "component": "color",
      "value": "White\\ Wine"
    }
  ]
}
```

As it can easily be seen, in the above example the filter component would only be available if the (filter) component `color` has been applied and set to the value "Red Wine" or "White Wine"



Try it out: https://search-features.demos.contextity.ch/sl/search?q=*&f.color=color_facet%3ARed\\+Wine



In versions prior to 1.6. defined values may need to be escaped, e.g `"value": "Red\\ Wine"` instead of `"value": "Red Wine"`

Dependency on a range

Dependencies on `Range facets` can be described using a custom range. The dependency is satisfied whenever the range covered by the set filter(s) contains the configured range.



Custom range definition for date ranges are available since version 1.6.

Dependency on parameter



Available since version 1.6.

A dependency is described by the parameter name and it's value.

Wildcards



Available since version 1.4.

In the configuration of a dependency on [Hierarchical facets](#), wildcards can be used to indicate a dependency on a branch

Supported components

Currently these components can be defined as dependent components

- All FacetComponents, see [Facets and Filters](#)
- The [Geographic Query](#)

Spelling suggestions

Spell-checking is activated by default and does not need any further configuration. Suggestions are added to a section **spelling** in the response, whenever alternative spelling-corrected terms would let in more results.

Structure of the response

The top-level element suggestions is an array containing the individual suggestions. The fields therein are as follows:

- **suggestion**: This is the actual suggested search term(s)
- **hits**: The number of documents in which the suggested search term(s) occur
- **sem_action**: An action that “switches” the current search term(s) with the suggested one(s), leaving the rest of the search state, as represented in the search URL, intact

Example



The **spelling** section may look as like this example from <https://search-features.demos.contextity.ch/sl/search?q=Savignon>

Example of a spelling section

```
{
  "spelling": {
    "suggestions": [
      {
        "suggestion": "sauvignon",
        "hits": "4",
        "sem_action": {
          "sem_url": "?q=sauvignon",
          "sem_url_action": "?q=sauvignon&ot.et=search&ot.est=spell-term-select&ot.es=source_serp&ot.orig=Savignon&ot.sg=sauvignon&ot.sgidx=0&ot.sse=f8e8aa72-c826-4686-b8a0-03d0f96ea8c2"
        }
      }
    ]
  }
}
```



Note that, if there are no spelling suggestions for the current search term(s), the suggestions' array is empty.

Grouping Results

Grouped search results are activated whenever a **GroupFieldComponent** is added to the configuration.



Note that grouping can be deactivated on a single request basis by submitting the parameter **g.group=false**.

Configuration

Thus in any case to be able to use a field for grouping there needs to be a configuration for the regarding field as **GroupFieldComponent**:

Example of a GroupFieldComponent

```
{
  "type": "GroupFieldComponent",
  "componentName": "color",
  "fieldName": "color_facet",
  "groupLimit": 3,
  "doc": true,
  "docField": "id",
  "docFilter": true,
  "docFq": "sem_record_type:color",
  "docExclude": false
}
```

Listing of configuration parameters

Apart from the common parameters used in other components the additional parameters used by **GroupFieldComponent** are described below:

Parameter	Type	Description	Solr parameter
groupLimit	Integer	Specifies the number of results to return for each group. The default value is 1.	group.limit
doc	Boolean	En-/Disable parent group documents	
docs	Boolean	En-/Disable multiple parent group documents (2.0.0+)	
docField	String	Name of the field that is used to get the parent group documents (if possible an id or another field with unique values)	
docFilter	boolean	Exclude parent group documents from other places by adding an additional FQ to the query during prepareQuery	
docFq	String	Filter query that defines the type of documents that are group parent documents, e.g. sem_record_type:color	
docExclude	Boolean	Exclude parent group documents from other places by removing them during processResponse.	

Adding and showing a parent document for each group

When **doc** is set to **true**, Semanteer tries to fetch a parent document for each result group.

1. Therefore an additional query is sent to Solr that tries to get the corresponding parent document (that is the document with the group's value in the field that is specified in **docField**)

2. The parent group documents attached to the groups can be excluded from being listed on other places. Therefore two parameters are use:

- a. **docExclude** excludes the document from the list
- b. **docFilter** thus applies a filter query already to the first query (for the grouped results) that filters out all documents with certain criteria (as specified with **docFilter**)



docExclude may not be work fully as expected because when SolrDocuments are removed from groups the resultlist is not refilled up to the expected `group.limit` and the correct value of matches and **numFound** can not be calculated either.

Additional (Solr) Parameters

Parameters that are passed through from the request to the Solr query:

- **group.offset**: Specifies an initial offset for the document list of each group.
- **group.sort**: Specifies how Solr sorts documents within each group. The default behavior if **group.sort** is not specified is to use the same effective value as the **sort** parameter.

Refer also to the Solr Documentation: [Result Grouping](#)

Response

As mentioned in the section [The search response](#) the response structure of a grouped search differs from an ungrouped search, whereas a section **grouped** is shown instead of the section **response**.

Elements of the response

The elements of the grouped response are:

- **fieldname**: In the example above `color_facet`, this is the name of the field that is used for grouping
 - **matches**: The total number of matches (results)
 - **nGroups**: The total number of groups (for that we have results)
 - **groups**: The container that actually contains the groups and result documents

Every group in **groups** then contains the following elements:

- **groupvalue**: The value of the field that is used for grouping
- **doclist**: This is the list of results in the present group.
 - **numFound**: The total number of results for the group
 - **start**: The index of the first document in the list
 - **docs**: The container that actually contains the documents
- **paging**: Action URLs for paging
- **sem_actions**: Additional Action URLs

- **filterby**: Action URLs to activate a filter for this group
- **groupDoc**: The parent document of the group (if doc and docField have been configured - see above)
- **groupDocs**: The container of the parent documents of the group (if docs and docField have been configured - see above)

In turn, **if docs is enabled**, groupDocs will contain the following elements:

- **numFound**: The total number of parent documents for this group
- **start**: The index of the first document in the list
- **docs**: The container that actually contains the parent documents

Example

The code example shows an response from https://search-features.demos.contextity.ch/sl/search?q=200?&_semc=grouped&sp.fl=sem_title (we use the parameters **sp.fl=sem_title** here to make the example shorter and thus more readable)

Example of a grouped response

```
{
  "matches": 93,
  "ngroups": 2,
  "groups": [
    {
      "groupValue": "Red Wine",
      "doclist": {
        "numFound": 91,
        "start": 0,
        "numFoundExact": true,
        "docs": [
          {
            "sem_title": "2005 Ridge \"Pagani Ranch\" Sonoma Valley Zinfandel",
            "sem_actions": {
              "default": "goto",
              "goto": {
                "sem_url": "/sl/record?id",
                "sem_url_action": "/sl/record?id&ot.et=result&ot.est=serp-result-click&ot.q=200%3F&ot.es=source_serp&ot.nf=93&ot.s=0&ot.r=20&ot.rank=0&ot.sse=39eb9ea9-1be1-48a8-94af-5f16d6d4f92d",
                "sem_url_logging": "/sl/log?id&ot.et=result&ot.est=serp-result-click&ot.q=200%3F&ot.es=source_serp&ot.nf=93&ot.s=0&ot.r=20&ot.rank=0&ot.sse=39eb9ea9-1be1-48a8-94af-5f16d6d4f92d",
                "sem_is_external": false
              }
            },
            "fetch": {
              "sem_url": "/sl/record?id",
              "sem_url_action": "/sl/record?id&ot.et=result&ot.est=serp-result-click&ot.q=200%3F&ot.es=source_serp&ot.nf=93&ot.s=0&ot.r=20&ot.rank=0&ot.sse=39eb9ea9-1be1-48a8-94af-5f16d6d4f92d",
              "sem_url_logging": "/sl/log?id&ot.et=result&ot.est=serp-result-click&ot.q=200%3F&ot.es=source_serp&ot.nf=93&ot.s=0&ot.r=20&ot.rank=0&ot.sse=39eb9ea9-1be1-48a8-94af-5f16d6d4f92d"
            },
            "mlt": {
              "sem_url": "/sl/morelikethis?id",
              "sem_url_action": "/sl/morelikethis?id&ot.et=mlt&ot.est=source_serp&ot.nf=93&ot.s=0&ot.r=20&ot.rank=0&ot.q=200%3F&ot.sse=39eb9ea9-1be1-48a8-94af-5f16d6d4f92d"
            }
          },
          "sem_encoded_id": null
        ],
      },
    },
    {
      "sem_title": "2004 Passalacqua \"TR Passalacqua Vineyard\" Dry Creek Valley Cabernet Sauvignon",
      "sem_actions": {
        "default": "goto",
        "goto": {
          "sem_url": "/sl/record?id",
          "sem_url_action": "/sl/record?id&ot.et=result&ot.est=serp-result-click&ot.q=200%3F&ot.es=source_serp&ot.nf=93&ot.s=0&ot.r=20&ot.rank=1&ot.sse=39eb9ea9-1be1-48a8-94af-5f16d6d4f92d",
          "sem_url_logging": "/sl/log?id&ot.et=result&ot.est=serp-result-click&ot.q=200%3F&ot.es=source_serp&ot.nf=93&ot.s=0&ot.r=20&ot.rank=1&ot.sse=39eb9ea9-1be1-48a8-94af-5f16d6d4f92d",
          "sem_is_external": false
        }
      },
      "fetch": {
```

```

        "sem_url": "/sl/record?id",
        "sem_url_action": "/sl/record?id&ot.et=result&ot.est=serp-result-
click&ot.q=200%3F&ot.es=source_serp&ot.nf=93&ot.s=0&ot.r=20&ot.rank=1&ot.sse=39eb9ea9-1be1-48a8-94af-5f16d6d4f92d",
        "sem_url_logging": "/sl/log?id&ot.et=result&ot.est=serp-result-
click&ot.q=200%3F&ot.es=source_serp&ot.nf=93&ot.s=0&ot.r=20&ot.rank=1&ot.sse=39eb9ea9-1be1-48a8-94af-5f16d6d4f92d"
    },
    "mlt": {
        "sem_url": "/sl/morelikethis?id",
        "sem_url_action": "/sl/morelikethis?id&ot.et=mlt&ot.est=mlt&ot.es=source_serp&ot.nf=93&ot.s=0&ot.r=20&ot.rank=1&ot.q=200%3F&ot.sse=39eb9ea9-1be1-
48a8-94af-5f16d6d4f92d"
    }
},
    "sem_encoded_id": null
},
{
    "sem_title": "2005 Gallo Sonoma County Pinot noir",
    "sem_actions": {
        "default": "goto",
        "goto": {
            "sem_url": "/sl/record?id",
            "sem_url_action": "/sl/record?id&ot.et=result&ot.est=serp-result-
click&ot.q=200%3F&ot.es=source_serp&ot.nf=93&ot.s=0&ot.r=20&ot.rank=2&ot.sse=39eb9ea9-1be1-48a8-94af-5f16d6d4f92d",
            "sem_url_logging": "/sl/log?id&ot.et=result&ot.est=serp-result-
click&ot.q=200%3F&ot.es=source_serp&ot.nf=93&ot.s=0&ot.r=20&ot.rank=2&ot.sse=39eb9ea9-1be1-48a8-94af-5f16d6d4f92d",
            "sem_is_external": false
        },
        "fetch": {
            "sem_url": "/sl/record?id",
            "sem_url_action": "/sl/record?id&ot.et=result&ot.est=serp-result-
click&ot.q=200%3F&ot.es=source_serp&ot.nf=93&ot.s=0&ot.r=20&ot.rank=2&ot.sse=39eb9ea9-1be1-48a8-94af-5f16d6d4f92d",
            "sem_url_logging": "/sl/log?id&ot.et=result&ot.est=serp-result-
click&ot.q=200%3F&ot.es=source_serp&ot.nf=93&ot.s=0&ot.r=20&ot.rank=2&ot.sse=39eb9ea9-1be1-48a8-94af-5f16d6d4f92d"
        },
        "mlt": {
            "sem_url": "/sl/morelikethis?id",
            "sem_url_action": "/sl/morelikethis?id&ot.et=mlt&ot.est=mlt&ot.es=source_serp&ot.nf=93&ot.s=0&ot.r=20&ot.rank=2&ot.q=200%3F&ot.sse=39eb9ea9-1be1-
48a8-94af-5f16d6d4f92d"
        }
    },
    "sem_encoded_id": null
}
]
},
    "paging": {
        "sem_generic_urls": {
            "sem_url": "?q=200%3F&_semc=grouped&sp.fl=sem_title",
            "sem_url_action": "?q=200%3F&_semc=grouped&sp.fl=sem_title&ot.et=search&ot.est=paging&ot.es=source_serp&ot.sse=39eb9ea9-1be1-48a8-94af-5f16d6d4f92d"
        },
        "sem_next_page_urls": {
            "sem_url": "?q=200%3F&_semc=grouped&sp.fl=sem_title&group.offset=3",
            "sem_url_action": "?q=200%3F&_semc=grouped&sp.fl=sem_title&ot.et=search&ot.est=paging&ot.es=source_serp&ot.sse=39eb9ea9-1be1-48a8-94af-
5f16d6d4f92d&group.offset=3"
        }
    },
    "sem_actions": {
        "default": "filterby",
        "filterby": {
            "sem_url": "?_semc=grouped&sp.fl=sem_title&f.color=color_facet%3Ared%5C+Wine&q=200%3F",
            "sem_url_action": "?_semc=grouped&sp.fl=sem_title&f.color=color_facet%3Ared%5C+Wine&q=200%3F&ot.et=search&ot.est=suggest-category-
select&ot.es=source_autocomplete&ot.orig=200%3F&ot.sse=39eb9ea9-1be1-48a8-94af-5f16d6d4f92d"
        }
    },
    "groupdoc": {
        "id": "Red Wine",
        "sem_title": "Red Wine",
        "sem_text_search": [
            "Red Wine"
        ],
        "sem_text_suggest": [
            "Red Wine"
        ],
        "sem_title_alpha": "Red Wine",
        "sem_suggest_prefix": [
            "Red Wine"
        ],
        "sem_suggest_phrase": [
            "Red Wine"
        ],
        "sem_record_type": "color",
        "sem_url": "http://www.freebase.com/m/02wsb20",
        "sem_lang": "de",
        "_version_": 1801204852261388288,
        "sem_timestamp": "2024-06-07T12:20:06.145Z",
        "sem_actions": {
            "default": "goto",
            "goto": {
                "sem_url": "/sl/redirect?url=http%3A%2F%2Fwww.freebase.com%2Fm%2F02wsb20&id=SEMUmVkJfDpbmU",
                "sem_url_action": "/sl/redirect?url=http%3A%2F%2Fwww.freebase.com%2Fm%2F02wsb20&id=SEMUmVkJfDpbmU&ot.et=result&ot.est=serp-result-

```

```

click&ot.q=200%3F&ot.es=source_serp&ot.nf=2&ot.s=0&ot.r=20&ot.rank=0&ot.sse=39eb9ea9-1be1-48a8-94af-5f16d6d4f92d",
  "sem_url_logging": "/sl/log?url=http%3A%2F%2Fwww.freebase.com%2Fm%2F02wsb20&id=SEMUmVkIFdpbmU&ot.et=result&ot.est=serp-result-
click&ot.q=200%3F&ot.es=source_serp&ot.nf=2&ot.s=0&ot.r=20&ot.rank=0&ot.sse=39eb9ea9-1be1-48a8-94af-5f16d6d4f92d",
  "sem_is_external": true
},
"fetch": {
  "sem_url": "/sl/record?id=SEMUmVkIFdpbmU",
  "sem_url_action": "/sl/record?id=SEMUmVkIFdpbmU&ot.et=result&ot.est=serp-result-
click&ot.q=200%3F&ot.es=source_serp&ot.nf=2&ot.s=0&ot.r=20&ot.rank=0&ot.sse=39eb9ea9-1be1-48a8-94af-5f16d6d4f92d",
  "sem_url_logging": "/sl/log?id=SEMUmVkIFdpbmU&ot.et=result&ot.est=serp-result-
click&ot.q=200%3F&ot.es=source_serp&ot.nf=2&ot.s=0&ot.r=20&ot.rank=0&ot.sse=39eb9ea9-1be1-48a8-94af-5f16d6d4f92d"
},
"mlt": {
  "sem_url": "/sl/morelikethis?id=SEMUmVkIFdpbmU",
  "sem_url_action":
"/sl/morelikethis?id=SEMUmVkIFdpbmU&ot.et=mlt&ot.est=mlt&ot.es=source_serp&ot.nf=2&ot.s=0&ot.r=20&ot.rank=0&ot.q=200%3F&ot.sse=39eb9ea9-1be1-48a8-94af-5f16d6d4f92d"
},
"sem_encoded_id": "SEMUmVkIFdpbmU"
},
{
  "groupValue": "White Wine",
  "doclist": {
    "numFound": 2,
    "start": 0,
    "numFoundExact": true,
    "docs": [
      {
        "sem_title": "2004 Domaine Prieur Brunet Jehanne de Chantal",
        "sem_actions": {
          "default": "goto",
          "goto": {
            "sem_url": "/sl/record?id",
            "sem_url_action": "/sl/record?id&ot.et=result&ot.est=serp-result-
click&ot.q=200%3F&ot.es=source_serp&ot.nf=93&ot.s=0&ot.r=20&ot.rank=3&ot.sse=39eb9ea9-1be1-48a8-94af-5f16d6d4f92d",
            "sem_url_logging": "/sl/log?id&ot.et=result&ot.est=serp-result-
click&ot.q=200%3F&ot.es=source_serp&ot.nf=93&ot.s=0&ot.r=20&ot.rank=3&ot.sse=39eb9ea9-1be1-48a8-94af-5f16d6d4f92d",
            "sem_is_external": false
          },
          "fetch": {
            "sem_url": "/sl/record?id",
            "sem_url_action": "/sl/record?id&ot.et=result&ot.est=serp-result-
click&ot.q=200%3F&ot.es=source_serp&ot.nf=93&ot.s=0&ot.r=20&ot.rank=3&ot.sse=39eb9ea9-1be1-48a8-94af-5f16d6d4f92d",
            "sem_url_logging": "/sl/log?id&ot.et=result&ot.est=serp-result-
click&ot.q=200%3F&ot.es=source_serp&ot.nf=93&ot.s=0&ot.r=20&ot.rank=3&ot.sse=39eb9ea9-1be1-48a8-94af-5f16d6d4f92d"
          },
          "mlt": {
            "sem_url": "/sl/morelikethis?id",
            "sem_url_action": "/sl/morelikethis?id&ot.et=mlt&ot.est=mlt&ot.es=source_serp&ot.nf=93&ot.s=0&ot.r=20&ot.rank=3&ot.q=200%3F&ot.sse=39eb9ea9-1be1-
48a8-94af-5f16d6d4f92d"
          }
        },
        "sem_encoded_id": null
      },
      {
        "sem_title": "2003 Cloudy Bay Sauvignon Blanc",
        "sem_actions": {
          "default": "goto",
          "goto": {
            "sem_url": "/sl/record?id",
            "sem_url_action": "/sl/record?id&ot.et=result&ot.est=serp-result-
click&ot.q=200%3F&ot.es=source_serp&ot.nf=93&ot.s=0&ot.r=20&ot.rank=4&ot.sse=39eb9ea9-1be1-48a8-94af-5f16d6d4f92d",
            "sem_url_logging": "/sl/log?id&ot.et=result&ot.est=serp-result-
click&ot.q=200%3F&ot.es=source_serp&ot.nf=93&ot.s=0&ot.r=20&ot.rank=4&ot.sse=39eb9ea9-1be1-48a8-94af-5f16d6d4f92d",
            "sem_is_external": false
          },
          "fetch": {
            "sem_url": "/sl/record?id",
            "sem_url_action": "/sl/record?id&ot.et=result&ot.est=serp-result-
click&ot.q=200%3F&ot.es=source_serp&ot.nf=93&ot.s=0&ot.r=20&ot.rank=4&ot.sse=39eb9ea9-1be1-48a8-94af-5f16d6d4f92d",
            "sem_url_logging": "/sl/log?id&ot.et=result&ot.est=serp-result-
click&ot.q=200%3F&ot.es=source_serp&ot.nf=93&ot.s=0&ot.r=20&ot.rank=4&ot.sse=39eb9ea9-1be1-48a8-94af-5f16d6d4f92d"
          },
          "mlt": {
            "sem_url": "/sl/morelikethis?id",
            "sem_url_action": "/sl/morelikethis?id&ot.et=mlt&ot.est=mlt&ot.es=source_serp&ot.nf=93&ot.s=0&ot.r=20&ot.rank=4&ot.q=200%3F&ot.sse=39eb9ea9-1be1-
48a8-94af-5f16d6d4f92d"
          }
        },
        "sem_encoded_id": null
      }
    ]
  },
  "paging": {
    "sem_generic_urls": {
      "sem_url": "?q=200%3F&_semc=grouped&sp.fl=sem_title",
      "sem_url_action": "?q=200%3F&_semc=grouped&sp.fl=sem_title&ot.et=search&ot.est=paging&ot.es=source_serp&ot.sse=39eb9ea9-1be1-48a8-94af-5f16d6d4f92d"
    }
  }
}

```

```

    },
    "sem_actions": {
      "default": "filterby",
      "filterby": {
        "sem_url": "?_semc=grouped&sp.fl=sem_title&f.color=color_facet%3AWhite%5C+Wine&q=200%3F",
        "sem_url_action": "?_semc=grouped&sp.fl=sem_title&f.color=color_facet%3AWhite%5C+Wine&q=200%3F&ot.et=search&ot.est=suggest-category-select&ot.es=source_autocomplete&ot.orig=200%3F&ot.sse=39eb9ea9-1be1-48a8-94af-5f16d6d4f92d"
      }
    },
    "groupdoc": {
      "id": "White Wine",
      "sem_title": "White Wine",
      "sem_text_search": [
        "White Wine"
      ],
      "sem_text_suggest": [
        "White Wine"
      ],
      "sem_title_alpha": "White Wine",
      "sem_suggest_prefix": [
        "White Wine"
      ],
      "sem_suggest_phrase": [
        "White Wine"
      ],
      "sem_record_type": "color",
      "sem_url": "http://www.freebase.com/m/02wsb25",
      "sem_lang": "de",
      "version": "1801204852499415040",
      "sem_timestamp": "2024-06-07T12:20:06.145Z",
      "sem_actions": {
        "default": "goto",
        "goto": {
          "sem_url": "/sl/redirect?url=http%3A%2F%2Fwww.freebase.com%2Fm%2F02wsb25&id=SEMV2hpdGUgV2luZQ",
          "sem_url_action": "/sl/redirect?url=http%3A%2F%2Fwww.freebase.com%2Fm%2F02wsb25&id=SEMV2hpdGUgV2luZQ&ot.et=result&ot.est=serp-result-click&ot.q=200%3F&ot.es=source_serp&ot.nf=2&ot.s=0&ot.r=20&ot.rank=1&ot.sse=39eb9ea9-1be1-48a8-94af-5f16d6d4f92d",
          "sem_url_logging": "/sl/log?url=http%3A%2F%2Fwww.freebase.com%2Fm%2F02wsb25&id=SEMV2hpdGUgV2luZQ&ot.et=result&ot.est=serp-result-click&ot.q=200%3F&ot.es=source_serp&ot.nf=2&ot.s=0&ot.r=20&ot.rank=1&ot.sse=39eb9ea9-1be1-48a8-94af-5f16d6d4f92d",
          "sem_is_external": true
        },
        "fetch": {
          "sem_url": "/sl/record?id=SEMV2hpdGUgV2luZQ",
          "sem_url_action": "/sl/record?id=SEMV2hpdGUgV2luZQ&ot.et=result&ot.est=serp-result-click&ot.q=200%3F&ot.es=source_serp&ot.nf=2&ot.s=0&ot.r=20&ot.rank=1&ot.sse=39eb9ea9-1be1-48a8-94af-5f16d6d4f92d",
          "sem_url_logging": "/sl/log?id=SEMV2hpdGUgV2luZQ&ot.et=result&ot.est=serp-result-click&ot.q=200%3F&ot.es=source_serp&ot.nf=2&ot.s=0&ot.r=20&ot.rank=1&ot.sse=39eb9ea9-1be1-48a8-94af-5f16d6d4f92d"
        },
        "mlt": {
          "sem_url": "/sl/morelikethis?id=SEMV2hpdGUgV2luZQ",
          "sem_url_action": "/sl/morelikethis?id=SEMV2hpdGUgV2luZQ&ot.et=mlt&ot.est=mlt&ot.es=source_serp&ot.nf=2&ot.s=0&ot.r=20&ot.rank=1&ot.q=200%3F&ot.sse=39eb9ea9-1be1-48a8-94af-5f16d6d4f92d"
        }
      },
      "sem_encoded_id": "SEMV2hpdGUgV2luZQ"
    }
  },
  "start": 0
}

```

Sorting Results

By default results are sorted by their score. Custom sorting of results is activated whenever a **SortingComponent** is added to the configuration.

Configuration

In the **SortingComponent** all fields that can be used for sorting are added to **sortableFields** array, e.g.

Example of a SortingComponent

```

{
  "type": "SortingComponent",

```

```

"sortableFields": [
  "sem_title_alpha",
  "appellation",
  "vineyard"
]
}

```

Response

The **SortingComponent** adds a top-level section **sorting** to the response that contains the actions for activating the defined sorting.

Elements of the response

As can be seen in the example below, the top-level elements of the section are:

- **sem_action**: An action that provides URLs for removing all sorting parameters from the current URL, leaving all other parameters (e.g. filters) intact
- **fields**: A list of the fields configured as sortable fields. For each sortable field, actions are provided for sorting the field in ascending (asc) and descending (desc) order (the semantics of that order and their implementation depend on the respective field's type).
 - **asc**: Action URL to sort ascending
 - **desc**: Action URL to sort ascending

Example

The sorting section may look like the following example taken from https://search-features.demos.contextity.ch/sl/search?q=*

Example of a sorting section in the response

```

{
  "sorting": {
    "sem_action": {
      "sem_url": "?q=*",
      "sem_url_action": "?q=*#ot.et=search&ot.est=sort-modified&ot.es=source_serp&ot.sse=895c3780-ffcc-4cf7-b8b7-cd0ea4619617"
    },
    "fields": {
      "sem_title_alpha": {
        "asc": {
          "sem_url": "?q=*#sort=sem_title_alpha+asc",
          "sem_url_action": "?q=*#sort=sem_title_alpha+asc&ot.et=search&ot.est=sort-modified&ot.es=source_serp&ot.sse=895c3780-ffcc-4cf7-b8b7-cd0ea4619617",
          "active": true
        },
        "desc": {
          "sem_url": "?q=*#sort=sem_title_alpha+desc",
          "sem_url_action": "?q=*#sort=sem_title_alpha+desc&ot.et=search&ot.est=sort-modified&ot.es=source_serp&ot.sse=895c3780-ffcc-4cf7-b8b7-cd0ea4619617"
        }
      },
      "appellation": {
        "asc": {
          "sem_url": "?q=*#sort=appellation+asc",
          "sem_url_action": "?q=*#sort=appellation+asc&ot.et=search&ot.est=sort-modified&ot.es=source_serp&ot.sse=895c3780-ffcc-4cf7-b8b7-cd0ea4619617"
        },
        "desc": {
          "sem_url": "?q=*#sort=appellation+desc",
          "sem_url_action": "?q=*#sort=appellation+desc&ot.et=search&ot.est=sort-modified&ot.es=source_serp&ot.sse=895c3780-ffcc-4cf7-b8b7-cd0ea4619617"
        }
      },
      "vineyard": {
        "asc": {
          "sem_url": "?q=*#sort=vineyard+asc",
          "sem_url_action": "?q=*#sort=vineyard+asc&ot.et=search&ot.est=sort-modified&ot.es=source_serp&ot.sse=895c3780-ffcc-4cf7-b8b7-cd0ea4619617"
        }
      }
    }
  }
}

```

```

"desc": {
  "sem_url": "?q=*#sort=vineyard+desc",
  "sem_url_action": "?q=*#sort=vineyard+desc&ot.et=search&ot.est=sort-modified&ot.es=source_serp&ot.sse=895c3780-ffcc-4cf7-b8b7-cd0ea4619617"
}
}
}
}
}

```



Unlike actions for filters, sorting actions are not toggles but rather assertive applications of sorting fields and orders; to determine whether a particular sorting configuration is currently applied, the server identifies them with the additional field active, which is then set to true (see the part of the response for sem_title_alpha, ascending, above).

Facets and Filters

Facet components are showing faceting information (values and counts) and are used to trigger filters. Facet components can be configured in your configuration file the same way as every other component

Currently the following different kinds of facet components are available in Semanteer:

- **Text based facets:** `FacetFieldComponent`
- **Child based facets:** `FacetChildDocFieldComponent`
- **Range facets:** `IntegerRangeComponent`, `FloatRangeComponent`, and `DateRangeComponent`
- **Hierarchical facets:** `FacetPivotComponent` and `FacetHierarchyComponent`
- **Facet Query:** `FacetQueryComponent`

Common configuration options

Regardless of the concrete type of facet component there are a couple of common configuration options available.

R = required

Parameter	Type	Default	Description	R	Version support
type	text	-	the component type	✓	
componentName	text	-	name that appears in the response	✓	
fieldName	text	-	name of the field in the index	✓	
minCount	integer	-	min. number of documents in the index		
multiSelect	boolean	false	more than one option is selectable at once		
multiSelectMode	AND, OR	OR	determine multiselect filter should be combined with AND or OR		
uitype	text	-	Type that is used in the UI (e.g. <code>FilterListWidget</code>)		
excludeOwnFilters	boolean	false	exclude the filter applied by this component when calculating facet counts		
excludeAllFilters	boolean	false	exclude all filter applied by this and other component when calculating facet counts		
useExclusiveSetAction	boolean	false	other filters are removed when this filter is set (requires multiSelect to be false)		
addMissingFilters	boolean	true			
excludeTags	text array	-	List of tags from other filters that should be excluded when faceting		1.6.1+
localParams	text	-	localParams to be added when the filter is applied		1.6.1+

Parameter	Type	Default	Description	R	Version support
<code>dependsOnAny</code>	list of components	-	see Dependent Components		

Dependent Filters

Filters can be configured to depend on other filters. See [Dependent Components](#)

Facet Search Response

For configured facets, the search response contains facet values in the appropriate sections, in accordance to the *total* set of search results.



The following is an example of a response using [Text based facets](#) configured for the field `color`, from https://search-features.demos.contextity.ch/sl/search?q=*&_semc=minimal

Example of a facet_counts section

```
{
  "facet_counts": {
    "facet_queries": {},
    "facet_fields": {
      "color": {
        "Red Wine": {
          "value": "Red Wine",
          "count": 97,
          "sem_action": {
            "sem_url": "?q=*&_semc=minimal&f.color=color_facet%3ARed%5C+Wine",
            "sem_url_action": "?q=*&_semc=minimal&f.color=color_facet%3ARed%5C+Wine&ot.et=search&ot.est=filter-modified&ot.es=source_serp&ot.sse=fbe7b031-fd57-4a06-b0af-4650ede09586"
          }
        },
        "White Wine": {
          "value": "White Wine",
          "count": 2,
          "sem_action": {
            "sem_url": "?q=*&_semc=minimal&f.color=color_facet%3AWhite%5C+Wine",
            "sem_url_action": "?q=*&_semc=minimal&f.color=color_facet%3AWhite%5C+Wine&ot.et=search&ot.est=filter-modified&ot.es=source_serp&ot.sse=fbe7b031-fd57-4a06-b0af-4650ede09586"
          }
        },
        "Rosé": {
          "value": "Rosé",
          "count": 1,
          "sem_action": {
            "sem_url": "?q=*&_semc=minimal&f.color=color_facet%3ARos%C3%A9",
            "sem_url_action": "?q=*&_semc=minimal&f.color=color_facet%3ARos%C3%A9&ot.et=search&ot.est=filter-modified&ot.es=source_serp&ot.sse=fbe7b031-fd57-4a06-b0af-4650ede09586"
          }
        }
      }
    },
    "facet_ranges": {},
    "facet_intervals": {},
    "facet_heatmaps": {}
  }
}
```

As can be seen in the preceding example, the structure sets out with “named” structured objects, with each “name” corresponding to a field, range, interval, etc. In the example, we only see a top-level objects `color` within `facet_fields` that correspond to the configured facet field.

Inside these top-level objects, are the individual values for that facet. In the example, these include Red Wine and White Wine for the field `color`.



Depending on the type of the facet component it shows up in the corresponding section, as **facet_fields**, **facet_ranges**, **facet_hierarchies**, and so on. Have a look at the **facet_counts** section of full response - e.g. here: http://search-features.demos.contextity.ch/sl/search?q=* - and refer to the description of the regarding component for more details.

For each value, the following fields are returned:

- **value**: This is the value's "name" and is repeated as a field for convenience.
- **count**: This is the number of occurrences of the value amongst the search results.
- **sem_action**: This is a "toggle" action for enabling or disabling the use of the present facet value as a filter. Please refer to the sections [Action URLs](#) and [Monitoring URLs](#) for details on action fields.



Action URLs in the facet values toggle only the corresponding value on or off as a filter; the rest of the active filters are not affected (in other words, Semanteer generates the action URLs so that the rest of the filtering is maintained as is).

Facet values as filters

When a facet value is activated as a filter (through the corresponding [Action URL](#)), then the facet value's structure in the response is modified as follows, the example is taken from http://search-features.demos.contextity.ch/sl/search?q=*%&_semc=minimal&f.color=color_facet%3ARed%5C+Wine

Example of a facet_counts section with an active filter

```
{
  "facet_counts": {
    "facet_queries": {},
    "facet_fields": {
      "color": {
        "Red Wine": {
          "value": "Red Wine",
          "count": 97,
          "active": true,
          "sem_action": {
            "sem_url": "?q=*%&_semc=minimal",
            "sem_url_action": "?q=*%&_semc=minimal&ot.et=search&ot.est=filter-modified&ot.es=source_serp&ot.sse=90f9ac71-f654-4477-a2ce-6af582d6beb6"
          }
        }
      }
    },
    "facet_ranges": {},
    "facet_intervals": {},
    "facet_heatmaps": {}
  }
}
```

In the above snippet note that:

- The facet value's structure has been extended to include the field **active**, which has the value **true**.
- The actions associated with the facet value have been modified to toggle the filter off if invoked (in this example, the filter for field **color** is assumed to be the only one that is active)

Active Facet based Filters

Active filters are also represented in the corresponding section of the response. See [Active and suggested](#)

Filters.

Text based facets

Facets and filters based on text fields can be added by using a **FacetFieldComponent**.

Configuration

In order to use text based facets a **FacetFieldComponent** has to be defined in the configuration.

While most of the elements of the configuration as shown above have already been described in the section [Common configuration options](#), some additional configuration options are available for **FacetFieldComponent**:

R = required

Name	Type	Default	Description	R
sortBy	COUNT, INDEX, DEFAULT	COUNT	Determines the sorting that is applied to the facet.	

The example code below defines a **FacetFieldComponent** for the field **wine_type**:

Example configuration of a FacetFieldComponent

```
{
  "type": "FacetFieldComponent",
  "componentName": "wine_type",
  "uiLabel": "Wine type",
  "fieldName": "wine_type_facet",
  "minCount": 1,
  "sortBy": "index",
  "multiSelect": false,
  "excludeOwnFilters": true,
  "excludeAllFilters": false,
  "useExclusiveSetAction": true
}
```

Response

The response of the **FacetFieldComponent** shows up under the the section **facet_fields** section of **facet_count**. An example of a response based on the **FacetFieldComponent** **wine_type** configured above may look like this:

Example of the response section wine_type

```
{
  "wine_type": {
    "Dessert wine": {
      "value": "Dessert wine",
      "count": 1,
      "sem_action": {
        "sem_url": "?q=*%f.wine_type=wine_type_facet%3ADessert%5C+wine",
        "sem_url_action": "?q=*%f.wine_type=wine_type_facet%3ADessert%5C+wine&ot.et=search&ot.est=filter-modified&ot.es=source_serp&ot.sse=68674f08-4b60-4baf-a21b-34de7ebaa575"
      }
    },
    "Fortified wine": {
      "value": "Fortified wine",
      "count": 1,
      "sem_action": {
        "sem_url": "?q=*%f.wine_type=wine_type_facet%3AFortified%5C+wine",
        "sem_url_action": "?q=*%f.wine_type=wine_type_facet%3AFortified%5C+wine&ot.et=search&ot.est=filter-modified&ot.es=source_serp&ot.sse=68674f08-4b60-4baf-a21b-34de7ebaa575"
      }
    }
  }
}
```

```

    },
    "Sparkling wine": {
      "value": "Sparkling wine",
      "count": 1,
      "sem_action": {
        "sem_url": "?q=*%f.wine_type=wine_type_facet%3ASparkling%5C+wine",
        "sem_url_action": "?q=*%f.wine_type=wine_type_facet%3ASparkling%5C+wine&ot.et=search&ot.est=filter-modified&ot.es=source_serp&ot.sse=68674f08-4b60-4baf-a21b-34de7ebaa575"
      }
    },
    "Still Wine": {
      "value": "Still Wine",
      "count": 97,
      "sem_action": {
        "sem_url": "?q=*%f.wine_type=wine_type_facet%3AStill%5C+Wine",
        "sem_url_action": "?q=*%f.wine_type=wine_type_facet%3AStill%5C+Wine&ot.et=search&ot.est=filter-modified&ot.es=source_serp&ot.sse=68674f08-4b60-4baf-a21b-34de7ebaa575"
      }
    }
  }
}

```

Join facets

v2.0.0+

Configuration

In order to use JSON Join facets a **JsonFacetFieldComponent** has to be defined in the configuration.

While most of the elements of the configuration as shown above have already been described in the section [Common configuration options](#), some additional configuration options are available for **JsonFacetFieldComponent**:

R = required

Name	Type	Default	Description	R
domainJoinFrom	String		Solr domain change join "from" (see example configuration below)	✓
domainJoinTo	String		Solr domain change join "to"	✓
domainFilter	String		Solr domain change "filter"	
domainExcludeTags	String		Comma-separated list of domain.excludeTags elements	

The example code below defines a **JsonFacetFieldComponent** for the field **wine_sub_region**:

Example configuration of a JsonFacetFieldComponent

```

{
  "type": "JsonFacetFieldComponent",
  "componentName": "italian_wine_producer_region",
  "fieldName": "producer_region",
  "domainJoinFrom": "wine_producer_facet",
  "domainJoinTo": "id",
  "domainFilter": "sem_record_type:producer AND producer_country:Italy",
  "excludeOwnFilters": true,
  "excludeAllFilters": false,
  "useExclusiveSetAction": false,
  "multiSelect": true,
  "multiSelectMode": "OR",
  "addMissingFilters": true
}

```

Clarification of the example component

First, the faceting domain is changed by getting all the wine producers that are from Italy (this is achieved via the domain `From`, `To` and `domainFilter`). Then faceting is applied on the `producer_region` for the fetched producers.



`domainExcludeTags` can be used in order to remove filters of the main query from the domain change.

Child based facets

v1.7+

Child based facets are a special special implementation of [Text based facets](#) that can be applied to a field of child documents.

The facet count indicates the number of parent documents that have one or more childs with the given value and the applied filter weould show these parent documents.

Configuration

In order to use text based facets a `FacetChildDocFieldComponent` has to be defined in the configuration.

While most of the elements of the configuration as shown above have already been described in the section [Common configuration options](#), some additional configuration options are available for `FacetChildDocFieldComponent`:

R = required

Name	Type	Default	Description	R
<code>sortBy</code>	COUNT, INDEX, DEFAULT	COUNT	Determines the sorting that is applied to the facet.	
<code>parentDocs</code>	String	-	A filter query that defines all parent documents (e.g. <code>sem_record_type:wine</code>)	✓

The example code below defines a `FacetChildDocFieldComponent` for the field `rating` used by child documents:

Configuration example of a child based facet

```
{
  "type": "FacetChildDocFieldComponent",
  "componentName": "review_rating",
  "fieldName": "rating",
  "uiLabel": "Reviews",
  "uiOrder": 25,
  "uishow": true,
  "uitype": "boolean",
  "parentDocs": "sem_record_type:wine",
  "excludeOwnFilters": true,
  "minCount": 1
}
```

Response

The response of the `FacetChildDocFieldComponent` looks like tha response of a regular `FacetFieldComponent`.

It shows up under the the section **facet_fields** section of **facet_count**. An example of a response based on the **FacetChildDocFieldComponent review_rating** configured above may look like this:

Example response of a child based facet

```
{
  "facet_fields": {
    "review_rating": {
      "Good": {
        "value": "Good",
        "count": 1,
        "sem_action": {
          "sem_url": "?q=*%f.review_rating=rating%3AGood",
          "sem_url_action": "?q=*%f.review_rating=rating%3AGood&ot.et=search&ot.est=filter-modified&ot.es=source_serp&ot.sse=68674f08-4b60-4baf-a21b-34de7ebaa575"
        }
      }
    }
  }
}
```

Additional information on child documents

Indexing child documents

Information about indexing child documents can be found in the Solr Documentation - [Nested Child Documents](#)

Returning child documents

The **ChildDocTransformerFactory** is needed to retrieve child documents. See Solr Documentation - [ChildDocTransformerFactory](#)



In our demo installation parameter **fl=*,[child parentFilter=sem_record_type:wine childFilter=sem_record_type:review limit=100]** would include the child documents in the result.

Range facets

Range facets can be configured for integer, decimal or date fields. A range facet will group values into defined ranges.

Configuration

Depending on the type of the underlying field range facets are defined as

- **IntegerRangeComponent**
- **FloatRangeComponent**
- **DateRangeComponent**

From the configuration elements described in the section [Common configuration options](#) Range facets support **minCount**, **multiSelect**, and **minCount** (**DateRangeComponent** only).

These elements are **not** supported: `addMissingFilters`, `excludeAllFilters`, `excludeOwnFilters`, `maxOptions`, `multiselectMode`, `sortBy` and `useExclusiveSetAction`.

In addition Range facets configuration introduces the following elements:

R = required

Name	Type	Default	Description	R
<code>start</code>	<code>int/float/date</code>	- (lowest value found)	Value to start with	
<code>end</code>	<code>int/float/date</code>	- (highest value found)	Value to end with	
<code>gap</code>		-	Gap used	✓
<code>prune</code>	<code>boolean</code>	<code>false</code>	Remove empty facet options on lower and higher end	
<code>slider</code>	<code>boolean</code>		Used by the UI	

In order to use range facet based on an integer field an `IntegerRangeComponent` has to be defined in the configuration. The example code below defines a `IntegerRangeComponent` for the field `vintage`

Example configuration of an `IntegerRangeComponent`

```
{
  "type": "IntegerRangeComponent",
  "componentName": "vintage",
  "fieldName": "vintage",
  "uiLabel": "Vintage",
  "uiOrder": 5,
  "uiShow": true,
  "uiType": "chart",
  "start": 1970,
  "end": 2010,
  "gap": 5,
  "prune": true,
  "multiSelect": true,
  "multiSelectMode": "OR",
  "excludeOwnFilters": true
}
```

Response

The response any RangeComponent shows up under the `facet_ranges` section of `facet_counts`. An example of a response based on the `IntegerRangeComponent` `vintage` configured above may look like this:

Example of the response section `facet_ranges`

```
{
  "facet_ranges": {
    "alcohol": {
      "counts": {
        "12.0": {
          "value": "12.0",
          "count": 2,
          "sem_action": {
            "sem_url": "?q=*%8f.alcohol=percentage_alcohol%3A%5B12.0+T0+13.0%7D",
            "sem_url_action": "?q=*%8f.alcohol=percentage_alcohol%3A%5B12.0+T0+13.0%7D&ot.et=search&ot.est=filter-modified&ot.es=source_serp&ot.sse=68674f08-4b60-4baf-a21b-34de7ebaa575"
          }
        },
        "13.0": {
          "value": "13.0",
          "count": 14,
          "sem_action": {
            "sem_url": "?q=*%8f.alcohol=percentage_alcohol%3A%5B13.0+T0+14.0%7D",
            "sem_url_action": "?q=*%8f.alcohol=percentage_alcohol%3A%5B13.0+T0+14.0%7D&ot.et=search&ot.est=filter-modified&ot.es=source_serp&ot.sse=68674f08-4b60-4baf-a21b-34de7ebaa575"
          }
        }
      }
    }
  },
}
```

```

"14.0": {
  "value": "14.0",
  "count": 43,
  "sem_action": {
    "sem_url": "?q=*%f.alcohol=percentage_alcohol%3A%5B14.0+T0+15.0%7D",
    "sem_url_action": "?q=*%f.alcohol=percentage_alcohol%3A%5B14.0+T0+15.0%7D&ot.et=search&ot.est=filter-modified&ot.es=source_serp&ot.sse=68674f08-4b60-4baf-a21b-34de7ebaa575"
  }
},
"15.0": {
  "value": "15.0",
  "count": 21,
  "sem_action": {
    "sem_url": "?q=*%f.alcohol=percentage_alcohol%3A%5B15.0+T0+16.0%7D",
    "sem_url_action": "?q=*%f.alcohol=percentage_alcohol%3A%5B15.0+T0+16.0%7D&ot.et=search&ot.est=filter-modified&ot.es=source_serp&ot.sse=68674f08-4b60-4baf-a21b-34de7ebaa575"
  }
},
"18.0": {
  "value": "18.0",
  "count": 1,
  "sem_action": {
    "sem_url": "?q=*%f.alcohol=percentage_alcohol%3A%5B18.0+T0+19.0%5D",
    "sem_url_action": "?q=*%f.alcohol=percentage_alcohol%3A%5B18.0+T0+19.0%5D&ot.et=search&ot.est=filter-modified&ot.es=source_serp&ot.sse=68674f08-4b60-4baf-a21b-34de7ebaa575"
  }
},
"groupedCounts": {
  "12.0 TO 13.0": {
    "value": "12.0 TO 13.0",
    "count": 2,
    "sem_action": {
      "sem_url": "?q=*%f.alcohol=percentage_alcohol%3A%5B12.0+T0+13.0%7D",
      "sem_url_action": "?q=*%f.alcohol=percentage_alcohol%3A%5B12.0+T0+13.0%7D&ot.et=search&ot.est=filter-modified&ot.es=source_serp&ot.sse=68674f08-4b60-4baf-a21b-34de7ebaa575"
    }
  },
  "13.0 TO 14.0": {
    "value": "13.0 TO 14.0",
    "count": 14,
    "sem_action": {
      "sem_url": "?q=*%f.alcohol=percentage_alcohol%3A%5B13.0+T0+14.0%7D",
      "sem_url_action": "?q=*%f.alcohol=percentage_alcohol%3A%5B13.0+T0+14.0%7D&ot.et=search&ot.est=filter-modified&ot.es=source_serp&ot.sse=68674f08-4b60-4baf-a21b-34de7ebaa575"
    }
  },
  "14.0 TO 15.0": {
    "value": "14.0 TO 15.0",
    "count": 43,
    "sem_action": {
      "sem_url": "?q=*%f.alcohol=percentage_alcohol%3A%5B14.0+T0+15.0%7D",
      "sem_url_action": "?q=*%f.alcohol=percentage_alcohol%3A%5B14.0+T0+15.0%7D&ot.et=search&ot.est=filter-modified&ot.es=source_serp&ot.sse=68674f08-4b60-4baf-a21b-34de7ebaa575"
    }
  },
  "15.0 TO 16.0": {
    "value": "15.0 TO 16.0",
    "count": 21,
    "sem_action": {
      "sem_url": "?q=*%f.alcohol=percentage_alcohol%3A%5B15.0+T0+16.0%7D",
      "sem_url_action": "?q=*%f.alcohol=percentage_alcohol%3A%5B15.0+T0+16.0%7D&ot.et=search&ot.est=filter-modified&ot.es=source_serp&ot.sse=68674f08-4b60-4baf-a21b-34de7ebaa575"
    }
  },
  "18.0 TO 19.0": {
    "value": "18.0 TO 19.0",
    "count": 1,
    "sem_action": {
      "sem_url": "?q=*%f.alcohol=percentage_alcohol%3A%5B18.0+T0+19.0%5D",
      "sem_url_action": "?q=*%f.alcohol=percentage_alcohol%3A%5B18.0+T0+19.0%5D&ot.et=search&ot.est=filter-modified&ot.es=source_serp&ot.sse=68674f08-4b60-4baf-a21b-34de7ebaa575"
    }
  }
},
"gap": 1.0,
"start": 10.0,
"adjustedStart": 10.0,
"end": 20.0,
"adjustedEnd": 20.0,
"after": 0,
"before": 0,
"between": 81,
"sem_action": {
  "sem_url": "?q=*%f.alcohol=percentage_alcohol%3A%5B%24%7Bstart%7D+T0+%24%7Bend%7D%5D",
  "sem_url_action": "?q=*%f.alcohol=percentage_alcohol%3A%5B%24%7Bstart%7D+T0+%24%7Bend%7D%5D&ot.et=search&ot.est=filter-modified&ot.es=source_serp&ot.sse=68674f08-4b60-4baf-a21b-34de7ebaa575"
}
}

```

```

},
"sem_publication_date": {
  "counts": {
    "2017-05-26T16:33:28Z": {
      "value": "2017-05-26T16:33:28Z",
      "count": 1,
      "sem_action": {
        "sem_url": "?q=*%ff.sem_publication_date=sem_publication_date%3A%5B2017-05-26T16%3A33%3A28Z+TO+2017-05-27T16%3A33%3A28Z%7D",
        "sem_url_action": "?q=*%ff.sem_publication_date=sem_publication_date%3A%5B2017-05-26T16%3A33%3A28Z+TO+2017-05-27T16%3A33%3A28Z%7D&ot.et=search&ot.est=filter-modified&ot.es=source_serp&ot.sse=68674f08-4b60-4baf-a21b-34de7ebaa575"
      }
    },
    "2017-05-27T16:33:28Z": {
      "value": "2017-05-27T16:33:28Z",
      "count": 1,
      "sem_action": {
        "sem_url": "?q=*%ff.sem_publication_date=sem_publication_date%3A%5B2017-05-27T16%3A33%3A28Z+TO+2017-05-28T16%3A33%3A28Z%7D",
        "sem_url_action": "?q=*%ff.sem_publication_date=sem_publication_date%3A%5B2017-05-27T16%3A33%3A28Z+TO+2017-05-28T16%3A33%3A28Z%7D&ot.et=search&ot.est=filter-modified&ot.es=source_serp&ot.sse=68674f08-4b60-4baf-a21b-34de7ebaa575"
      }
    },
    "2017-05-28T16:33:28Z": {
      "value": "2017-05-28T16:33:28Z",
      "count": 1,
      "sem_action": {
        "sem_url": "?q=*%ff.sem_publication_date=sem_publication_date%3A%5B2017-05-28T16%3A33%3A28Z+TO+2017-05-29T16%3A33%3A28Z%7D",
        "sem_url_action": "?q=*%ff.sem_publication_date=sem_publication_date%3A%5B2017-05-28T16%3A33%3A28Z+TO+2017-05-29T16%3A33%3A28Z%7D&ot.et=search&ot.est=filter-modified&ot.es=source_serp&ot.sse=68674f08-4b60-4baf-a21b-34de7ebaa575"
      }
    },
    "2017-05-29T16:33:28Z TO *": {
      "value": "2017-05-29T16:33:28Z TO *",
      "count": 1,
      "sem_action": {
        "sem_url": "?q=*%ff.sem_publication_date=sem_publication_date%3A%7B2017-05-29T16%3A33%3A28Z+TO+*%5D",
        "sem_url_action": "?q=*%ff.sem_publication_date=sem_publication_date%3A%7B2017-05-29T16%3A33%3A28Z+TO+*%5D&ot.et=search&ot.est=filter-modified&ot.es=source_serp&ot.sse=68674f08-4b60-4baf-a21b-34de7ebaa575"
      }
    }
  },
  "groupedCounts": {
    "2017-05-26T16:33:28Z TO 2017-05-27T16:33:28Z": {
      "value": "2017-05-26T16:33:28Z TO 2017-05-27T16:33:28Z",
      "count": 1,
      "sem_action": {
        "sem_url": "?q=*%ff.sem_publication_date=sem_publication_date%3A%5B2017-05-26T16%3A33%3A28Z+TO+2017-05-27T16%3A33%3A28Z%7D",
        "sem_url_action": "?q=*%ff.sem_publication_date=sem_publication_date%3A%5B2017-05-26T16%3A33%3A28Z+TO+2017-05-27T16%3A33%3A28Z%7D&ot.et=search&ot.est=filter-modified&ot.es=source_serp&ot.sse=68674f08-4b60-4baf-a21b-34de7ebaa575"
      }
    },
    "2017-05-27T16:33:28Z TO 2017-05-28T16:33:28Z": {
      "value": "2017-05-27T16:33:28Z TO 2017-05-28T16:33:28Z",
      "count": 1,
      "sem_action": {
        "sem_url": "?q=*%ff.sem_publication_date=sem_publication_date%3A%5B2017-05-27T16%3A33%3A28Z+TO+2017-05-28T16%3A33%3A28Z%7D",
        "sem_url_action": "?q=*%ff.sem_publication_date=sem_publication_date%3A%5B2017-05-27T16%3A33%3A28Z+TO+2017-05-28T16%3A33%3A28Z%7D&ot.et=search&ot.est=filter-modified&ot.es=source_serp&ot.sse=68674f08-4b60-4baf-a21b-34de7ebaa575"
      }
    },
    "2017-05-28T16:33:28Z TO 2017-05-29T16:33:28Z": {
      "value": "2017-05-28T16:33:28Z TO 2017-05-29T16:33:28Z",
      "count": 1,
      "sem_action": {
        "sem_url": "?q=*%ff.sem_publication_date=sem_publication_date%3A%5B2017-05-28T16%3A33%3A28Z+TO+2017-05-29T16%3A33%3A28Z%7D",
        "sem_url_action": "?q=*%ff.sem_publication_date=sem_publication_date%3A%5B2017-05-28T16%3A33%3A28Z+TO+2017-05-29T16%3A33%3A28Z%7D&ot.et=search&ot.est=filter-modified&ot.es=source_serp&ot.sse=68674f08-4b60-4baf-a21b-34de7ebaa575"
      }
    },
    "2017-05-29T16:33:28Z TO *": {
      "value": "2017-05-29T16:33:28Z TO *",
      "count": 1,
      "sem_action": {
        "sem_url": "?q=*%ff.sem_publication_date=sem_publication_date%3A%7B2017-05-29T16%3A33%3A28Z+TO+*%5D",
        "sem_url_action": "?q=*%ff.sem_publication_date=sem_publication_date%3A%7B2017-05-29T16%3A33%3A28Z+TO+*%5D&ot.et=search&ot.est=filter-modified&ot.es=source_serp&ot.sse=68674f08-4b60-4baf-a21b-34de7ebaa575"
      }
    }
  },
  "gap": "+1DAY",
  "start": "2017-05-26T16:33:28Z",
  "end": "2017-05-29T16:33:28Z",
  "after": 1,
  "before": 0,
  "between": 3,
  "sem_action": {
    "sem_url": "?q=*%ff.sem_publication_date=sem_publication_date%3A%5B%24%7Bstart%7D+TO+%24%7Bend%7D%5D",
    "sem_url_action": "?q=*%ff.sem_publication_date=sem_publication_date%3A%5B%24%7Bstart%7D+TO+%24%7Bend%7D%5D&ot.et=search&ot.est=filter-modified&ot.es=source_serp&ot.sse=68674f08-4b60-4baf-a21b-34de7ebaa575"
  }
}

```

```

    },
    "vintage": {
      "counts": {
        "TO 1990": {
          "value": "TO 1990",
          "count": 1,
          "sem_action": {
            "sem_url": "?q=*%f.vintage=vintage%3A%5B*+TO+1990%7D",
            "sem_url_action": "?q=*%f.vintage=vintage%3A%5B*+TO+1990%7D&ot.et=search&ot.est=filter-modified&ot.es=source_serp&ot.sse=68674f08-4b60-4baf-a21b-34de7ebaa575"
          }
        },
        "1990": {
          "value": "1990",
          "count": 1,
          "sem_action": {
            "sem_url": "?q=*%f.vintage=vintage%3A%5B1990+TO+1995%7D",
            "sem_url_action": "?q=*%f.vintage=vintage%3A%5B1990+TO+1995%7D&ot.et=search&ot.est=filter-modified&ot.es=source_serp&ot.sse=68674f08-4b60-4baf-a21b-34de7ebaa575"
          }
        },
        "1995": {
          "value": "1995",
          "count": 4,
          "sem_action": {
            "sem_url": "?q=*%f.vintage=vintage%3A%5B1995+TO+2000%7D",
            "sem_url_action": "?q=*%f.vintage=vintage%3A%5B1995+TO+2000%7D&ot.et=search&ot.est=filter-modified&ot.es=source_serp&ot.sse=68674f08-4b60-4baf-a21b-34de7ebaa575"
          }
        },
        "2000": {
          "value": "2000",
          "count": 41,
          "sem_action": {
            "sem_url": "?q=*%f.vintage=vintage%3A%5B2000+TO+2005%7D",
            "sem_url_action": "?q=*%f.vintage=vintage%3A%5B2000+TO+2005%7D&ot.et=search&ot.est=filter-modified&ot.es=source_serp&ot.sse=68674f08-4b60-4baf-a21b-34de7ebaa575"
          }
        },
        "2005": {
          "value": "2005",
          "count": 52,
          "sem_action": {
            "sem_url": "?q=*%f.vintage=vintage%3A%5B2005+TO+2010%5D",
            "sem_url_action": "?q=*%f.vintage=vintage%3A%5B2005+TO+2010%5D&ot.et=search&ot.est=filter-modified&ot.es=source_serp&ot.sse=68674f08-4b60-4baf-a21b-34de7ebaa575"
          }
        }
      },
      "groupedCounts": {
        "TO 1990": {
          "value": "TO 1990",
          "count": 1,
          "sem_action": {
            "sem_url": "?q=*%f.vintage=vintage%3A%5B*+TO+1990%7D",
            "sem_url_action": "?q=*%f.vintage=vintage%3A%5B*+TO+1990%7D&ot.et=search&ot.est=filter-modified&ot.es=source_serp&ot.sse=68674f08-4b60-4baf-a21b-34de7ebaa575"
          }
        },
        "1990 TO 1995": {
          "value": "1990 TO 1995",
          "count": 1,
          "sem_action": {
            "sem_url": "?q=*%f.vintage=vintage%3A%5B1990+TO+1995%7D",
            "sem_url_action": "?q=*%f.vintage=vintage%3A%5B1990+TO+1995%7D&ot.et=search&ot.est=filter-modified&ot.es=source_serp&ot.sse=68674f08-4b60-4baf-a21b-34de7ebaa575"
          }
        },
        "1995 TO 2000": {
          "value": "1995 TO 2000",
          "count": 4,
          "sem_action": {
            "sem_url": "?q=*%f.vintage=vintage%3A%5B1995+TO+2000%7D",
            "sem_url_action": "?q=*%f.vintage=vintage%3A%5B1995+TO+2000%7D&ot.et=search&ot.est=filter-modified&ot.es=source_serp&ot.sse=68674f08-4b60-4baf-a21b-34de7ebaa575"
          }
        },
        "2000 TO 2005": {
          "value": "2000 TO 2005",
          "count": 41,
          "sem_action": {
            "sem_url": "?q=*%f.vintage=vintage%3A%5B2000+TO+2005%7D",
            "sem_url_action": "?q=*%f.vintage=vintage%3A%5B2000+TO+2005%7D&ot.et=search&ot.est=filter-modified&ot.es=source_serp&ot.sse=68674f08-4b60-4baf-a21b-34de7ebaa575"
          }
        },
        "2005 TO 2010": {

```

```

    "value": "2005 TO 2010",
    "count": 52,
    "sem_action": {
      "sem_url": "?q=*%&f.vintage=vintage%3A%5B2005+TO+2010%5D",
      "sem_url_action": "?q=*%&f.vintage=vintage%3A%5B2005+TO+2010%5D&ot.et=search&ot.est=filter-modified&ot.es=source_serp&ot.sse=68674f08-4b60-4baf-a21b-34de7ebaa575"
    }
  },
  "gap": 5,
  "start": 1990,
  "adjustedStart": 1990,
  "end": 2010,
  "adjustedEnd": 2010,
  "after": 0,
  "before": 1,
  "between": 98,
  "sem_action": {
    "sem_url": "?q=*%&f.vintage=vintage%3A%5B%24%7Bstart%7D+TO+%24%7Bend%7D%5D",
    "sem_url_action": "?q=*%&f.vintage=vintage%3A%5B%24%7Bstart%7D+TO+%24%7Bend%7D%5D&ot.et=search&ot.est=filter-modified&ot.es=source_serp&ot.sse=68674f08-4b60-4baf-a21b-34de7ebaa575"
  }
}
}
}

```

Hierarchical facets

Semanteer supports facet hierarchies of two types, **“Pivot” style hierarchies** and **Single-field hierarchies**

- **“Pivot” style hierarchies:** formed by the hierarchical combination of two or more fields (e.g., combining country and region into a hierarchy)
- **Single-field hierarchies:** for fields that already contain hierarchical information

“Pivot” style hierarchies

Configuration

In order to use pivot faceting a **FacetPivotComponent** has to be defined in the configuration.

From the configuration elements described in the section [Common configuration options](#) **FacetPivotComponent** supports **minCount**, **multiSelect**, **multiSelectMode**, and **sortBy**. (These elements are not supported: **addMissingFilters**, **excludeAllFilters**, **excludeOwnFilters**, **maxOptions**, **useExclusiveSetAction** `)

In addition **FacetPivotComponent** introduces the following elements:

R = required

Name	Type	Default	Description	R
fieldNames	string array	-	Names of the fields that contain the hierarchical information (Replaces fieldName)	✓
filterFirstLevel	boolean	true	en-/disables filter actions be available at the top level	

The code below defines a pivot facet component **region** composed by the fields **country_facet**, **region_facet**, **wine_sub_region_facet**

Example configuration of a FacetPivotComponent

```

{
  "type": "FacetPivotComponent",
  "componentName": "region",

```

```

"fieldNames": [
  "country_facet",
  "region_facet",
  "wine_sub_region_facet"
],
"uiLabel": "Region",
"uiOrder": 0,
"uiShow": true,
"uiOpen": true,
"minCount": 1,
"multiSelect": false,
"sortBy": "index",
"useExclusiveSetAction": true,
"excludeOwnFilters": true
}

```

Response

The response of the `FacetPivotComponent` shows up under the the section `facet_hierarchies` section of `facet_counts`. An example of a response based on the `FacetPivotComponent` place configured above may look like in the the response returned from https://search-features.demos.contextity.ch/sl/search?q=*&f.region=country_facet:France

-Example of the response section `facet_hierarchies`

```

{
  "facet_hierarchies": {
    "italian_wine_producer_region_hierarchy": {
      "France": {
        "value": "France",
        "count": 6,
        "sem_action": {
          "sem_url": "?q=*%&f.region=country_facet%3AFrance%&f.italian_wine_producer_region_hierarchy=producer_region_hierarchy%3AFrance",
          "sem_url_action":
            "?q=*%&f.region=country_facet%3AFrance%&f.italian_wine_producer_region_hierarchy=producer_region_hierarchy%3AFrance&ot.et=search&ot.est=filter-
            modified&ot.es=source_serp&ot.sse=2b9c40f2-9ff8-4525-89b6-bdf643479ccd"
        },
        "options": {
          "Bordeaux": {
            "value": "France:Bordeaux",
            "count": 1,
            "sem_action": {
              "sem_url": "?q=*%&f.region=country_facet%3AFrance%&f.italian_wine_producer_region_hierarchy=producer_region_hierarchy%3AFrance%5C%3ABordeaux",
              "sem_url_action":
                "?q=*%&f.region=country_facet%3AFrance%&f.italian_wine_producer_region_hierarchy=producer_region_hierarchy%3AFrance%5C%3ABordeaux&ot.et=search&ot.est=filter-
                modified&ot.es=source_serp&ot.sse=2b9c40f2-9ff8-4525-89b6-bdf643479ccd"
            }
          },
          "Burgundy": {
            "value": "France:Burgundy",
            "count": 4,
            "sem_action": {
              "sem_url": "?q=*%&f.region=country_facet%3AFrance%&f.italian_wine_producer_region_hierarchy=producer_region_hierarchy%3AFrance%5C%3ABurgundy",
              "sem_url_action":
                "?q=*%&f.region=country_facet%3AFrance%&f.italian_wine_producer_region_hierarchy=producer_region_hierarchy%3AFrance%5C%3ABurgundy&ot.et=search&ot.est=filter-
                modified&ot.es=source_serp&ot.sse=2b9c40f2-9ff8-4525-89b6-bdf643479ccd"
            }
          },
          "Champagne": {
            "value": "France:Champagne",
            "count": 1,
            "sem_action": {
              "sem_url": "?q=*%&f.region=country_facet%3AFrance%&f.italian_wine_producer_region_hierarchy=producer_region_hierarchy%3AFrance%5C%3AChampagne",
              "sem_url_action":
                "?q=*%&f.region=country_facet%3AFrance%&f.italian_wine_producer_region_hierarchy=producer_region_hierarchy%3AFrance%5C%3AChampagne&ot.et=search&ot.est=filter-
                modified&ot.es=source_serp&ot.sse=2b9c40f2-9ff8-4525-89b6-bdf643479ccd"
            }
          }
        },
        "region": {
          "Australia": {
            "value": "Australia",
            "count": 1,
            "sem_action": {
              "sem_url": "?q=*%&f.region=country_facet%3AAustralia",

```

```

    "sem_url_action": "?q=*&f.region=country_facet%3AAustralia&ot.et=search&ot.est=filter-modified&ot.es=source_serp&ot.sse=2b9c40f2-9ff8-4525-89b6-bdf643479ccd"
  },
  "options": {
    "Clare Valley wine region": {
      "value": "Clare Valley wine region",
      "count": 1,
      "sem_action": {
        "sem_url": "?q=*&f.region=region_facet%3AClare%5C+Valley%5C+wine%5C+region",
        "sem_url_action": "?q=*&f.region=region_facet%3AClare%5C+Valley%5C+wine%5C+region&ot.et=search&ot.est=filter-modified&ot.es=source_serp&ot.sse=2b9c40f2-9ff8-4525-89b6-bdf643479ccd"
      }
    }
  },
  "Chile": {
    "value": "Chile",
    "count": 1,
    "sem_action": {
      "sem_url": "?q=*&f.region=country_facet%3AChile",
      "sem_url_action": "?q=*&f.region=country_facet%3AChile&ot.et=search&ot.est=filter-modified&ot.es=source_serp&ot.sse=2b9c40f2-9ff8-4525-89b6-bdf643479ccd"
    }
  },
  "options": {
    "Cachapoal Province": {
      "value": "Cachapoal Province",
      "count": 1,
      "sem_action": {
        "sem_url": "?q=*&f.region=region_facet%3ACachapoal%5C+Province",
        "sem_url_action": "?q=*&f.region=region_facet%3ACachapoal%5C+Province&ot.et=search&ot.est=filter-modified&ot.es=source_serp&ot.sse=2b9c40f2-9ff8-4525-89b6-bdf643479ccd"
      }
    }
  },
  "France": {
    "value": "France",
    "count": 6,
    "active": true,
    "sem_action": {
      "sem_url": "?q=*",
      "sem_url_action": "?q=*&ot.et=search&ot.est=filter-modified&ot.es=source_serp&ot.sse=2b9c40f2-9ff8-4525-89b6-bdf643479ccd"
    }
  },
  "options": {
    "Burgundy": {
      "value": "Burgundy",
      "count": 4,
      "sem_action": {
        "sem_url": "?q=*&f.region=region_facet%3ABurgundy",
        "sem_url_action": "?q=*&f.region=region_facet%3ABurgundy&ot.et=search&ot.est=filter-modified&ot.es=source_serp&ot.sse=2b9c40f2-9ff8-4525-89b6-bdf643479ccd"
      }
    },
    "options": {
      "Côte de Nuits": {
        "value": "Côte de Nuits",
        "count": 2,
        "sem_action": {
          "sem_url": "?q=*&f.region=wine_sub_region_facet%3AC%3CB4te%5C+de%5C+Nuits",
          "sem_url_action": "?q=*&f.region=wine_sub_region_facet%3AC%3CB4te%5C+de%5C+Nuits&ot.et=search&ot.est=filter-modified&ot.es=source_serp&ot.sse=2b9c40f2-9ff8-4525-89b6-bdf643479ccd"
        }
      },
      "Côte de Beaune": {
        "value": "Côte de Beaune",
        "count": 1,
        "sem_action": {
          "sem_url": "?q=*&f.region=wine_sub_region_facet%3AC%3CB4te%5C+de%5C+Beaune",
          "sem_url_action": "?q=*&f.region=wine_sub_region_facet%3AC%3CB4te%5C+de%5C+Beaune&ot.et=search&ot.est=filter-modified&ot.es=source_serp&ot.sse=2b9c40f2-9ff8-4525-89b6-bdf643479ccd"
        }
      }
    }
  },
  "Bordeaux": {
    "value": "Bordeaux",
    "count": 1,
    "sem_action": {
      "sem_url": "?q=*&f.region=region_facet%3ABordeaux",
      "sem_url_action": "?q=*&f.region=region_facet%3ABordeaux&ot.et=search&ot.est=filter-modified&ot.es=source_serp&ot.sse=2b9c40f2-9ff8-4525-89b6-bdf643479ccd"
    }
  },
  "options": {
    "Médoc": {
      "value": "Médoc",
      "count": 1,
      "sem_action": {
        "sem_url": "?q=*&f.region=wine_sub_region_facet%3AM%3CA9doc",
        "sem_url_action": "?q=*&f.region=wine_sub_region_facet%3AM%3CA9doc&ot.et=search&ot.est=filter-modified&ot.es=source_serp&ot.sse=2b9c40f2-9ff8-4525-89b6-bdf643479ccd"
      }
    }
  }
}

```

```

    }
  }
},
"Champagne": {
  "value": "Champagne",
  "count": 1,
  "sem_action": {
    "sem_url": "?q=*%&f.region=region_facet%3AChampagne",
    "sem_url_action": "?q=*%&f.region=region_facet%3AChampagne&ot.et=search&ot.est=filter-modified&ot.es=source_serp&ot.sse=2b9c40f2-9ff8-4525-89b6-bdf643479ccd"
  }
},
},
"Italy": {
  "value": "Italy",
  "count": 5,
  "sem_action": {
    "sem_url": "?q=*%&f.region=country_facet%3AItaly",
    "sem_url_action": "?q=*%&f.region=country_facet%3AItaly&ot.et=search&ot.est=filter-modified&ot.es=source_serp&ot.sse=2b9c40f2-9ff8-4525-89b6-bdf643479ccd"
  },
  "options": {
    "Montalcino": {
      "value": "Montalcino",
      "count": 3,
      "sem_action": {
        "sem_url": "?q=*%&f.region=region_facet%3AMontalcino",
        "sem_url_action": "?q=*%&f.region=region_facet%3AMontalcino&ot.et=search&ot.est=filter-modified&ot.es=source_serp&ot.sse=2b9c40f2-9ff8-4525-89b6-bdf643479ccd"
      }
    },
    "Piedmont": {
      "value": "Piedmont",
      "count": 2,
      "sem_action": {
        "sem_url": "?q=*%&f.region=region_facet%3APiedmont",
        "sem_url_action": "?q=*%&f.region=region_facet%3APiedmont&ot.et=search&ot.est=filter-modified&ot.es=source_serp&ot.sse=2b9c40f2-9ff8-4525-89b6-bdf643479ccd"
      },
      "options": {
        "Piedmont": {
          "value": "Piedmont",
          "count": 1,
          "sem_action": {
            "sem_url": "?q=*%&f.region=wine_sub_region_facet%3APiedmont",
            "sem_url_action": "?q=*%&f.region=wine_sub_region_facet%3APiedmont&ot.et=search&ot.est=filter-modified&ot.es=source_serp&ot.sse=2b9c40f2-9ff8-4525-89b6-bdf643479ccd"
          }
        }
      }
    }
  },
},
},
"New Zealand": {
  "value": "New Zealand",
  "count": 1,
  "sem_action": {
    "sem_url": "?q=*%&f.region=country_facet%3ANew%5C+Zealand",
    "sem_url_action": "?q=*%&f.region=country_facet%3ANew%5C+Zealand&ot.et=search&ot.est=filter-modified&ot.es=source_serp&ot.sse=2b9c40f2-9ff8-4525-89b6-bdf643479ccd"
  },
  "options": {
    "Marlborough": {
      "value": "Marlborough",
      "count": 1,
      "sem_action": {
        "sem_url": "?q=*%&f.region=region_facet%3AMarlborough",
        "sem_url_action": "?q=*%&f.region=region_facet%3AMarlborough&ot.et=search&ot.est=filter-modified&ot.es=source_serp&ot.sse=2b9c40f2-9ff8-4525-89b6-bdf643479ccd"
      }
    }
  },
},
},
"Spain": {
  "value": "Spain",
  "count": 1,
  "sem_action": {
    "sem_url": "?q=*%&f.region=country_facet%3ASpain",
    "sem_url_action": "?q=*%&f.region=country_facet%3ASpain&ot.et=search&ot.est=filter-modified&ot.es=source_serp&ot.sse=2b9c40f2-9ff8-4525-89b6-bdf643479ccd"
  },
  "options": {
    "Ribero del Duero": {
      "value": "Ribero del Duero",
      "count": 1,
      "sem_action": {
        "sem_url": "?q=*%&f.region=region_facet%3ARibero%5C+del%5C+Duero",
        "sem_url_action": "?q=*%&f.region=region_facet%3ARibero%5C+del%5C+Duero&ot.et=search&ot.est=filter-modified&ot.es=source_serp&ot.sse=2b9c40f2-9ff8-4525-89b6-bdf643479ccd"
      }
    }
  },
},

```

```

4525-89b6-bdf643479ccd"
    }
  }
},
"United States of America": {
  "value": "United States of America",
  "count": 85,
  "sem_action": {
    "sem_url": "?q=*%&f.region=country_facet%3AUnited%5C+States%5C+of%5C+America",
    "sem_url_action": "?q=*%&f.region=country_facet%3AUnited%5C+States%5C+of%5C+America&ot.et=search&ot.est=filter-modified&ot.es=source_serp&ot.sse=2b9c40f2-9ff8-4525-89b6-bdf643479ccd"
  },
  "options": {
    "California": {
      "value": "California",
      "count": 84,
      "sem_action": {
        "sem_url": "?q=*%&f.region=region_facet%3ACalifornia",
        "sem_url_action": "?q=*%&f.region=region_facet%3ACalifornia&ot.et=search&ot.est=filter-modified&ot.es=source_serp&ot.sse=2b9c40f2-9ff8-4525-89b6-bdf643479ccd"
      },
      "options": {
        "Sonoma County": {
          "value": "Sonoma County",
          "count": 59,
          "sem_action": {
            "sem_url": "?q=*%&f.region=wine_sub_region_facet%3ASonoma%5C+County",
            "sem_url_action": "?q=*%&f.region=wine_sub_region_facet%3ASonoma%5C+County&ot.et=search&ot.est=filter-modified&ot.es=source_serp&ot.sse=2b9c40f2-9ff8-4525-89b6-bdf643479ccd"
          }
        },
        "Contra Costa County": {
          "value": "Contra Costa County",
          "count": 5,
          "sem_action": {
            "sem_url": "?q=*%&f.region=wine_sub_region_facet%3AContra%5C+Costa%5C+County",
            "sem_url_action": "?q=*%&f.region=wine_sub_region_facet%3AContra%5C+Costa%5C+County&ot.et=search&ot.est=filter-modified&ot.es=source_serp&ot.sse=2b9c40f2-9ff8-4525-89b6-bdf643479ccd"
          }
        },
        "Napa County": {
          "value": "Napa County",
          "count": 3,
          "sem_action": {
            "sem_url": "?q=*%&f.region=wine_sub_region_facet%3ANapa%5C+County",
            "sem_url_action": "?q=*%&f.region=wine_sub_region_facet%3ANapa%5C+County&ot.et=search&ot.est=filter-modified&ot.es=source_serp&ot.sse=2b9c40f2-9ff8-4525-89b6-bdf643479ccd"
          }
        },
        "San Joaquin County": {
          "value": "San Joaquin County",
          "count": 3,
          "sem_action": {
            "sem_url": "?q=*%&f.region=wine_sub_region_facet%3ASan%5C+Joaquin%5C+County",
            "sem_url_action": "?q=*%&f.region=wine_sub_region_facet%3ASan%5C+Joaquin%5C+County&ot.et=search&ot.est=filter-modified&ot.es=source_serp&ot.sse=2b9c40f2-9ff8-4525-89b6-bdf643479ccd"
          }
        },
        "Amador County": {
          "value": "Amador County",
          "count": 2,
          "sem_action": {
            "sem_url": "?q=*%&f.region=wine_sub_region_facet%3AAmador%5C+County",
            "sem_url_action": "?q=*%&f.region=wine_sub_region_facet%3AAmador%5C+County&ot.et=search&ot.est=filter-modified&ot.es=source_serp&ot.sse=2b9c40f2-9ff8-4525-89b6-bdf643479ccd"
          }
        },
        "Mendocino County": {
          "value": "Mendocino County",
          "count": 2,
          "sem_action": {
            "sem_url": "?q=*%&f.region=wine_sub_region_facet%3AMendocino%5C+County",
            "sem_url_action": "?q=*%&f.region=wine_sub_region_facet%3AMendocino%5C+County&ot.et=search&ot.est=filter-modified&ot.es=source_serp&ot.sse=2b9c40f2-9ff8-4525-89b6-bdf643479ccd"
          }
        },
        "Riverside County": {
          "value": "Riverside County",
          "count": 1,
          "sem_action": {
            "sem_url": "?q=*%&f.region=wine_sub_region_facet%3ARiverside%5C+County",
            "sem_url_action": "?q=*%&f.region=wine_sub_region_facet%3ARiverside%5C+County&ot.et=search&ot.est=filter-modified&ot.es=source_serp&ot.sse=2b9c40f2-9ff8-4525-89b6-bdf643479ccd"
          }
        },
        "Santa Cruz County": {
          "value": "Santa Cruz County",

```

```
"count": 1,
  "sem_action": {
    "sem_url": "?q=*&f.region=wine_sub_region_facet%3ASanta%5C+Cruz%5C+County",
    "sem_url_action": "?q=*&f.region=wine_sub_region_facet%3ASanta%5C+Cruz%5C+County&ot.et=search&ot.est=filter-
modified&ot.es=source_serp&ot.sse=2b9c40f2-9ff8-4525-89b6-bdf643479ccd"
  }
},
"Napa Valley AVA": {
  "value": "Napa Valley AVA",
  "count": 1,
  "sem_action": {
    "sem_url": "?q=*&f.region=region_facet%3ANapa%5C+Valley%5C+AVA",
    "sem_url_action": "?q=*&f.region=region_facet%3ANapa%5C+Valley%5C+AVA&ot.et=search&ot.est=filter-modified&ot.es=source_serp&ot.sse=2b9c40f2-9ff8-4525-
89b6-bdf643479ccd"
  }
}
}
```

There are two elements in the above structure that merit particular attention:

- When a facet option has “child” options, these are to be found under the field **options**.
- Apart from the aforementioned additional field for the “children”, hierarchical facet options are identical to single-level facet options with one exception: for additional flexibility the option’s label is the same as the current “level” in the hierarchy where the option resides, while the field value contains the full branch. In the above snippet, the label for the nested option is "Clare Valley wine region" and its **value** field is also "Clare Valley wine region"
 - Difference between “Pivot” style hierarchies and Single-field hierarchies: **value** contains the full path, in the example above this would then be "Australia:Clare Valley wine region"

Single-field hierarchies

Configuration

In order to use single-field hierarchical faceting a **FacetHierarchyComponent** has to be defined in the configuration.

From the configuration elements described in the section [Common configuration options](#) **FacetHierarchyComponent** supports `addMissingFilters`, `excludeAllFilters`, `excludeOwnFilters`, `maxOptions`, `minCount`, `multiSelect`, `multiSelectMode`, `sortBy` and `useExclusiveSetAction`.

In addition `FacetHierarchyComponent` introduces the following elements:

R = required

Name	Type	Default	Description	R
divider	string	/	Divider character or string used to get the hierarchical information from the field	✓
filterFirstLevel	boolean	true	En-/disables filter actions be available at the top level	
exclusiveSetInBranch	boolean	false	When true , applying a filter within a branch resets any other active filter(s) "above" or "below" in the branch; multiple filters at the same branch level are still possible in multi-select mode.	



Attention! The component needs to be defined with a field of the type `descendant_path`

and the component **must** be configured to have the same divider as the field!



JSONFacetHierarchyComponent is a specialization of **FacetHierarchyComponent** with domain change functionality analogous to [Join facets](#).

Facet Query

Custom queries can be defined and used as Facet and filter by adding a **FacetQueryComponent**.

Configuration

In order to use custom query based facets a **FacetQueryComponent** has to be defined in the configuration.

While most of the elements of the configuration as shown above have already been described in the section [Common configuration options](#) some additional configuration options are available for **FacetQueryComponent**:

R = required

Name	Type	Default	Description	R
queries	key/value		A map of keys and values whereas the unique key identifies the query described in value.	✓
addNegations	boolean	false	true will add additional negated query / queries for every prefixed with not_	

Examples

Example configuration of FacetQueryComponent (custom_queries)

```
{
  "type": "FacetQueryComponent",
  "componentName": "custom_queries",
  "uiLabel": "Custom queries",
  "uiOrder": 20,
  "uiShow": true,
  "uiType": "boolean",
  "queries": {
    "old_american": "country_facet:'United States of America' AND vintage:[0 TO 1999]",
    "open": "sem_opening_hours:\\\"Intersects(ENVELOPE(1501010000,{getNowAsOccurence()},2512122359,{getNowAsOccurence()}))\\\""
  },
  "excludeOwnFilters": true,
  "excludeAllFilters": false,
  "multiSelect": true,
  "multiSelectMode": "OR",
  "addNegations": true,
  "useExclusiveSetAction": true
}
```

Example configuration of FacetQueryComponent (custom_geoqueries)

```
{
  "type": "FacetQueryComponent",
  "componentName": "custom_geoqueries",
  "queries": {
    "nearby": "{!geofilt pt=${pt} sfield=sem_location d=0.2}"
  },
  "excludeOwnFilters": true,
  "excludeAllFilters": false,
  "multiSelect": true,
  "multiSelectMode": "OR",
  "useExclusiveSetAction": true
}
```

```
}
```



Various facet queries can be defined in one or more components. Note that when they are within one component that would share the same configuration - e.g. multiselect - and would be treated together, meaning that selecting one would have effect on value / query as a filter would have effects on the other facet queries. Thus queries that should be independent should be defined in separate components.

Response

The response of the `FacetQueryComponent` shows up under the the section `facet_queries` section of `facet_counts`. An example of a response based on the configurations above is shown below. It contains two section `custom_geoqueries` and `custom_queries` whereby under `custom_queries` the results of the queries as well as the values of the negated queries show up. Note that the parameter `pt` has to be submitted in order to activate the nearby query. The example was taken from https://search-features.demos.contextity.ch/sl/search?q=*%&pt=47.161664,4.955434

Example of the response section facet_queries

```
{
  "facet_queries": {
    "custom_geoqueries": {
      "nearby": {
        "value": "nearby",
        "count": 1,
        "sem_action": {
          "sem_url": "?q=*%&pt=47.161664%2C4.955434&f.custom_geoqueries=nearby",
          "sem_url_action": "?q=*%&pt=47.161664%2C4.955434&f.custom_geoqueries=nearby&ot.et=search&ot.est=filter-modified&ot.es=source_serp&ot.sse=caf10b8e-4e0c-4163-bd6f-003d96b173d7"
        }
      }
    },
    "custom_queries": {
      "old_american": {
        "value": "old_american",
        "count": 3,
        "sem_action": {
          "sem_url": "?q=*%&pt=47.161664%2C4.955434&f.custom_queries=old_american",
          "sem_url_action": "?q=*%&pt=47.161664%2C4.955434&f.custom_queries=old_american&ot.et=search&ot.est=filter-modified&ot.es=source_serp&ot.sse=caf10b8e-4e0c-4163-bd6f-003d96b173d7"
        }
      },
      "open": {
        "value": "open",
        "count": 2,
        "sem_action": {
          "sem_url": "?q=*%&pt=47.161664%2C4.955434&f.custom_queries=open",
          "sem_url_action": "?q=*%&pt=47.161664%2C4.955434&f.custom_queries=open&ot.et=search&ot.est=filter-modified&ot.es=source_serp&ot.sse=caf10b8e-4e0c-4163-bd6f-003d96b173d7"
        }
      },
      "not_open": {
        "value": "not_open",
        "count": 98,
        "sem_action": {
          "sem_url": "?q=*%&pt=47.161664%2C4.955434&f.custom_queries=not_open",
          "sem_url_action": "?q=*%&pt=47.161664%2C4.955434&f.custom_queries=not_open&ot.et=search&ot.est=filter-modified&ot.es=source_serp&ot.sse=caf10b8e-4e0c-4163-bd6f-003d96b173d7"
        }
      },
      "not_old_american": {
        "value": "not_old_american",
        "count": 97,
        "sem_action": {
          "sem_url": "?q=*%&pt=47.161664%2C4.955434&f.custom_queries=not_old_american",
          "sem_url_action": "?q=*%&pt=47.161664%2C4.955434&f.custom_queries=not_old_american&ot.et=search&ot.est=filter-modified&ot.es=source_serp&ot.sse=caf10b8e-4e0c-4163-bd6f-003d96b173d7"
        }
      }
    }
  }
}
```

```
}  
}
```

Active and suggested Filters

[Facets and Filters](#) can add active filters while [Autofilter](#) and [Geographic Query](#) can add active and suggested filters to the response.



Suggested Filters are available since version 1.6.

Active filters from [Geographic Query](#) are available since version 1.6.

Active Filters

Active filters describe all filter that have been set by the user or by the system (e.g. by the [Autofilter](#) or the [Geographic Query](#) and are represented in the corresponding section of the response.

Continuing from the example in [Facets and Filters](#) the query https://search-features.demos.contextity.ch/sl/search?q=*%26_semc=minimal&f.color=color_facet%3ARed%5C+Wine activates a filter on the field `color` and adds a filter to that section:

Example of a response section `active_filters`

```
{  
  "active_filters": {  
    "sem_action": {  
      "sem_url": "?q=*%26_semc=minimal",  
      "sem_url_action": "?q=*%26_semc=minimal&ot.et=search&ot.est=filter-modified&ot.es=source_serp&ot.sse=90f9ac71-f654-4477-a2ce-6af582d6beb6"  
    },  
    "filters": [  
      {  
        "componentName": "color",  
        "source": "USER",  
        "valueLabel": "Red Wine",  
        "active": true,  
        "value": "color_facet:Red\\ Wine",  
        "sem_action": {  
          "sem_url": "?q=*%26_semc=minimal",  
          "sem_url_action": "?q=*%26_semc=minimal&ot.et=search&ot.est=filter-modified&ot.es=source_serp&ot.sse=90f9ac71-f654-4477-a2ce-6af582d6beb6"  
        }  
      }  
    ]  
  }  
}
```

In the above snippet:

- The top-level **sem_action** is one that disables all currently active filters. An equivalent action is available in the form of *Base URLs* (see section [Base URLs](#)).
- **filters**: An array of the currently active filters. The fields that describe each filter are:
 - **componentName**: This, by default, the name of the corresponding document field, except if otherwise configured (e.g., so that two different facet components can be applied on the same document field).
 - **source**: **USER** if the filter was set by the user), **SYSTEM** if the filter was set by the system ([Autofilter](#) or [Geographic Query](#))
 - **valueLabel**: This is the actual unprocessed facet value, typically used as a label in the front end.

- **value**: This is a representation of the filter in Solr format, which can be used if the frontend needs to do custom filter query management directly.
- **sem_action**: This is the “toggle the filter off” action for the current filter.

Suggested Filters

Suggested filters are added by [Autofilter](#) and [Geographic Query](#). If present they are also represented in the corresponding section of the response.

E.g. the autofilter adds a filter as suggested filter when it is not in apply mode: <https://search-features.demos.contextity.ch/sl/search?q=Red%20Wine&autofilter.apply=false>

Example of a response section suggested_filters

```
{
  "suggested_filters": {
    "filters": [
      {
        "componentName": "color",
        "source": "SYSTEM",
        "valueLabel": "Red Wine",
        "active": false,
        "value": "color_facet:Red\\ Wine",
        "sem_action": {
          "sem_url": "?q=Red+Wine&autofilter.apply=false&indent=true&f.color=color_facet%3ARed%5C+Wine",
          "sem_url_action": "?q=Red+Wine&autofilter.apply=false&indent=true&f.color=color_facet%3ARed%5C+Wine&ot.et=search&ot.est=filter-modified&ot.es=source_serp&ot.sse=8d6b9ece-f445-4e09-9f3b-48727f081aba"
        }
      }
    ]
  }
}
```

In the above snippet:

- **filters**: An array of suggested filters. The fields that describe each filter are:
 - **componentName**: This, by default, the name of the corresponding document field, except if otherwise configured (e.g., so that two different facet components can be applied on the same document field).
 - **source**: **SYSTEM** indicates that the filter was suggested by the system ([Autofilter](#) or [Geographic Query](#))
 - **valueLabel**: This is the actual unprocessed facet value, typically used as a label in the front end.
 - **value**: This is a representation of the filter in Solr format, which can be used if the frontend needs to do custom filter query management directly.
 - **sem_action**: This is the “toggle the filter on” action for the suggested filter.

Autofilter



Available since version 1.4.

The autofilter is a feature that automatically applies a filters for certain fields. The autofilter feature is provided by the **AutofilterSearchLayerComponent**.

Basic functionality

The `AutofilterSearchLayerComponent` looks up each query term in the index of the fields that were configured.

Query terms that were found in the defined autofilter fields are then

- activated as filters

Configuration

The *Autofilter* feature is available and enabled per default as soon as an `AutofilterSearchLayerComponent` is added to your configuration.

Solr configuration

As the `AutofilterSearchLayerComponent` works together with a plugin in solr some feature need to be edited directly in solr's main configuration file `solr-config.xml`:

Name	Type	Default	Description
<code>autofilter</code>	boolean	false	enable/disable if autofilter
<code>apply</code>	boolean	true	apply or suggest only
<code>synonyms</code>	String	-	Name of the file that is used to retrieve the synonyms.
<code>field</code>	String	-	The names of the field(s) to be used for the autofilter (Note that the field type of the fields should be string!)



Note that every field that is defined in the plugin should have corresponding [Text based facets](#) defined and should be used with `addMissingFilters = true`!

The example below shows the default configuration for the *Autofilter* plugin:

Configuration in solr

```
<searchComponent name="autofilter"
  class="org.apache.solr.handler.component.QueryAutoFilteringComponent">
  <str name="autofilter">false</str>
  <str name="apply">true</str>
  <str name="synonyms">lang/synonyms_autofilter.txt</str>
  <str name="field">
    color_facet,wine_type_facet,wine_style_facet,appellation_facet,vintage_facet,producer_region,producer_country</str>
</searchComponent>
```

Component configuration

In your `search-layer-configuration.json` configuration file the following options can be configured.

R = required

Name	Type	Default	Description	R	Overridden by searchtime parameter
<code>autofilterEnabled</code>	boolean	true	enable/disable if autofilter		<code>autofilter</code>

Name	Type	Default	Description	R	Overridden by searchtime parameter
autofilterApplied	boolean	true	apply or suggest only		autofilter.apply
mode	"filter", "boost", "replace"	filter	Set mode to "filter", "boost" or "replace"		autofilter.mode
afb	Integer	1	Boost factor when boost mode is activated		autofilter.afb
omitTermsMatchingMultipleFields	boolean	false	if true, terms that match in more than one field are not processed. (filter mode)		
omitUnkownFields	boolean	true	If true, matches in fields that are not defined as FacetFieldComponents are not processed. (filter mode)		
applyFirstFieldMatchOnly	boolean	false	if true only the first match for a field is applied whereby any succeeding matches are ignored		
removeMatchingQueryTerms	boolean	false	If true the matched query terms are removed from the query - requires version 1.6		
mappings	key/value	-	One or more mappings from a field that is configured in solrconfig.xml and a component that is configured in the configuration can be defined.		



Note that some of the configuration options can be overridden on search time using the mentioned parameters. Use **autofilter** = **true** / **false** to en- or disable the component (enabled per default whenever the **AutofilterSearchLayerComponent** was added).

The code example below defines an **AutofilterSearchLayerComponent** in filter mode:

Configuration of an AutofilterSearchLayerComponent

```
{
  "type": "AutofilterSearchLayerComponent",
  "autofilterApplied": true,
  "mode": "filter",
  "omitTermsMatchingMultipleFields": false,
  "omitUnkownFields": true,
  "applyFirstFieldMatchOnly": false,
  "mappings": {
    "vintage_facet": "vintage_hierachy"
  }
}
```

Modes

As mentioned above the Autofilter supports three different modes.

- **Filter:** The matched word/phrase is taken out of the search terms (q) and added as filter query (fq).
- **Replace:** The matched word/phrase is replaced with a fieldname:fieldvalue notation within the search terms (q).
- **Boost:** The matched word/phrase is left in the search terms but completed by an additional fieldname:fieldvalue notation with a boost factor



Try out the different modes by simply adding the autofilter.mode parameter, e.g. <https://search-features.demos.contextity.ch/sl/search?q=Still%20Wine%201999&autofilter.mode=boost> vs. <https://search-features.demos.contextity.ch/sl/search?q=Still%20Wine%201999&autofilter.mode=replace>

Observe how the query gets modified by having a look at autofilter > fields > all !

Response

A top-level section **autofilter** is added to the response that shows the found matches.

Response in filter mode

In the mode **filter** the subsection matches would list all possible matches in the same format that is also used in **Active and suggested Filters** whereby the field **active** informs if the filter has been applied or not. Furthermore the same filters would show up in the **active_filters** and **suggested_filter** section.

Example



The example below shows the autofilter section from the response for <https://search-features.demos.contextity.ch/sl/search?q=Still%20Wine%20Red%20Wine>. Note that the property **source** shows **SYSTEM** indicating that the filter was automatically set (in contrast to **USER**)

Autofilter response section (filter mode)

```
{
  "autofilter": {
    "enable": true,
    "apply": true,
    "matches": [
      {
        "componentName": "wine_type",
        "source": "SYSTEM",
        "valueLabel": "Still Wine",
        "active": true,
        "value": "wine_type_facet:Still\\ Wine",
        "sem_action": {
          "sem_url": "?q=Still+Wine+Red+Wine&f.autofilterexclude.f.wine_type=wine_type_facet%3AStill%5C+Wine",
          "sem_url_action": "?q=Still+Wine+Red+Wine&f.autofilterexclude.f.wine_type=wine_type_facet%3AStill%5C+Wine&ot.et=search&ot.est=filter-modified&ot.es=source_serp&ot.sse=7899045e-48b5-4811-ab03-0cdf79dbe9b7"
        }
      },
      {
        "componentName": "color",
        "source": "SYSTEM",
        "valueLabel": "Red Wine",
        "active": true,
        "value": "color_facet:Red\\ Wine",
        "sem_action": {
          "sem_url": "?q=Still+Wine+Red+Wine&f.autofilterexclude.f.color=color_facet%3ARed%5C+Wine",
          "sem_url_action": "?q=Still+Wine+Red+Wine&f.autofilterexclude.f.color=color_facet%3ARed%5C+Wine&ot.et=search&ot.est=filter-modified&ot.es=source_serp&ot.sse=7899045e-48b5-4811-ab03-0cdf79dbe9b7"
        }
      }
    ]
  }
}
```

Response in boost mode

As in **boost** mode there are no filter the response differs. The query term **q** itself is changed which is exposed in **fields.all.q**



The example below shows the autofilter section from the response using the same query as above but activating Autofilter's boost mode: <https://search-features.demos.contextity.ch/sl/search?q=Still%20Wine%20Red%20Wine&autofilter.mode=boost>

Autofilter response section (boost mode)

```
{
  "autofilter": {
    "enable": true,
    "apply": true,
    "tokens": [
      "Still",
      "Wine",
      "Red",
      "Wine"
    ],
    "fieldlist": "color_facet, wine_type_facet, wine_style_facet, appellation_facet, vintage_facet, producer_region, producer_country",
    "fields": {
      "all": {
        "q": "(Still Wine OR wine_type_facet:\\\"Still Wine\\\"^1) (Red Wine OR color_facet:\\\"Red Wine\\\"^1)",
        "fq": [],
        "apply": true
      }
    },
    "matches": {
      "wine_type_facet:Still Wine": {
        "usedTokenPositions": [
          0,
          1
        ],
        "field": "wine_type_facet",
        "terms": [
          "Still Wine"
        ],
        "query": "wine_type_facet:\\\"Still Wine\\\"^1",
        "usedTokens": [
          "Still",
          "Wine"
        ]
      },
      "color_facet:Red Wine": {
        "usedTokenPositions": [
          2,
          3
        ],
        "field": "color_facet",
        "terms": [
          "Red Wine"
        ],
        "query": "color_facet:\\\"Red Wine\\\"^1",
        "usedTokens": [
          "Red",
          "Wine"
        ]
      }
    }
  }
}
```

Response in replace mode

The response in **replace** mode is very similar to the **boost** mode, only that the resulting **q** would differ.



For the query above **q** would be **"q": "wine_type_facet:\\\"Still Wine\\\" color_facet:\\\"Red Wine\\\""**

Base url section

Additionally the *Autofilter* adds some entries to the **base_urls** section (see [Base URLs](#))

Autofilter base urls

```
{
  "disable_autofilter": {
    "sem_url": "?q=Still+Wine+Red+Wine&autofilter=false",
    "sem_url_action": "?q=Still+Wine+Red+Wine&autofilter=false&ot.et=search&ot.est=autofilter-modified&ot.es=source_serp&ot.sse=7899045e-48b5-4811-ab03-0cdf79dbe9b7"
  }
}
```

```

},
"reset_autofilter": {
  "sem_url": "?q=Still+Wine+Red+Wine",
  "sem_url_action": "?q=Still+Wine+Red+Wine&ot.et=search&ot.est=autofilter-modified&ot.es=source_serp&ot.sse=7899045e-48b5-4811-ab03-0cdf79dbe9b7"
},
"dont_apply_autofilter": {
  "sem_url": "?q=Still+Wine+Red+Wine&autofilter.apply=false",
  "sem_url_action": "?q=Still+Wine+Red+Wine&autofilter.apply=false&ot.et=search&ot.est=autofilter-modified&ot.es=source_serp&ot.sse=7899045e-48b5-4811-ab03-0cdf79dbe9b7"
}
}
}

```

Translator



Available since version 2.0.0.

The Translator plugin offers automatic, on the fly translation of query terms to multiple languages. The translation feature is provided by the `TranslatorFilterFactory` class.

Basic functionality

The plugin is used in Solr as a query analyzer filter. For each query term, the `TranslatorFilterFactory` creates a synonym map with translations for each of the specified languages.

Configuration

The *Translation* feature is available and enabled per default as soon as an `TranslatorFilterFactory` filter is added to your Solr schema configuration.

Solr configuration

The plugin can be configured directly in Solr's schema configuration xml file.

Name	Type	Description
translator	string	The type of the translator. Can be <code>google</code> , <code>test</code> or <code>noop</code> .
languages	string	Comma seperated list of languages (as ISO 639 codes)

Configuration in solr

```

<analyzer type="query">
  <tokenizer class="solr.StandardTokenizerFactory"/>
  <filter class="solr.LowerCaseFilterFactory"/>
  <filter class="com.contextity.es.querytranslator.TranslatorFilterFactory"
    languages="en,de"
    translator="google"/>
</analyzer>

```

Geographic Query

The *Geographic Query* feature augments the original search with geographic reference information, before it is executed against the search index. The *Geographic Query* feature is provided by the `GeoQueryComponent`.

Basic functionality

The user can either:

1. explicitly supply a geographic location (lat,long) through a request parameter: `geoquery.coordinates` (refer to [Search time parameters](#) below)
2. use the geographic information of a record from the index. Furthermore the component supports two alternative modes for establishing the index record(s) from which the reference information is extracted:
 - a. by matching terms in the user's query against the names of geographic places in the index, or
 - b. by using a record in the index explicitly specified through a dedicated request parameter: `geoquery.geoid` (refer to [Search time parameters](#) below)

If the component can establish at least one candidate reference record, it modifies the search query as follows:

1. If the record resulted from the matching of terms against the names of geographic places, then the terms used for that match are removed from the user's query string.
2. It adds parameters to the query that filter or boost results on the basis of their relation to the geographic shape that is extracted from the reference record (e.g., restricts results to only those that are located within a polygonal geographic area).

The starting geographic information in the reference record can be either a single point or a (multi-)polygon. Operations that can be additionally applied on these starting shapes include: for points, the creation of a circle with the point as its center; for (multi-)polygons, "buffering" of the the polygon.

Configuration

The component configuration controls how geographic data is retrieved from the index, what fields are reviewed for geographic information, which operations are applied and in which cases.

That means the component can be configured so that different settings are applied depending on the reference geographic record.

Name	Type	Scope	Default	Description	Overridden by searchtime parameter
qf	string	component		field name of the title of the places	
fq	string (fieldname:field value)	component		filter query that restricts results to relevant geo records	
fl	String	component	*	Field list of fields to be listed in the document section	
geoqueryApplied	boolean	component		Enable / disable if the geoquery is directly applie	geoquery.apply
distErrPct	double	component	0.05	distErrPct at query time, lower value gives more precise results at the cost of slower performance. A value of 0.01 may give good results without affecting performance too much. See also Solr Spatial Documentation.	

Name	Type	Scope	Default	Description	Overridden by searchtime parameter
prefetch	boolean	component		en/disable prefetching that is showing number of his for alternative places (up to max alternative 5 places are shown). Refer to Configuration Properties for the search.config.geoquery.parallel property. See also the minCountApply and minCountList for further fine tuning.	geoquery.prefetch
removeModeAll (requires v1.6)	boolean	component	false	true: when the selected/applied place is removed, the geoquery will not apply any other place(s) automatically (meaning it will only suggested alternative places) / false: when the selected/applied place is removed, only this place will be excluded, while other places may still get applied automatically	
proactiveSimplifyingEnabled (requires v1.7.5)	boolean	component	true	true: before applying a geometric operation, the component will check whether the geometry at hand is "too complex" and will attempt to simplify it if possible / false: no proactive simplification is performed before geometric operations	
configurations	list	component		list of configurations activated conditionally on the basis of a field:value combination	
configurations.default	configuration	component		default configuration – gets applied if none of the conditional configurations (see below) is applicable	
shapefield	string	document		name of the field where the geographic information of the geo records is stored	
searchfields	string array	document		name(s) of the field(s) where the geographic information of the main documents is stored	
params	double array	document		one or more parameters for the geographic operation applied on the starting geographic shape of the reference record(currently only the first value is typically used, as a distance expressed in km)	geoquery.distance
operation	"buffer"	document	-	the geographic operation to be applied on the starting geographic shape of the reference record (if any)	
mode	filter OR boost	document	filter	add filtering, or, alternatively, boosting parameters to the main search query.	geoquery.mode
simplify	double	document		setting a value for simplification would apply a simplification with the given value of the document's shape (useful for complex Polygons or Multipolygons)	
minCountApply (v1.4+)	integer	component	1	Minimum number of hits (results) a place needs to give back to be applied (when <code>prefetch = true</code>)	
minCountList (v1.4+)	integer	component	1	Minimum number of hits (results) a place needs to give back to be included to the list of alternatives (when <code>prefetch = true</code>)	

Sample Configuration

The code example below illustrates how a complex configuration of the **GeoQueryComponent** can look like in practice. Different reference fields, operations and parameters are used depending on the values in the field `sem_record_type` and `sem_record_subtype`.

Example configuration of a GeoQueryComponent

```
{
  "type": "GeoQueryComponent",
  "qf": "sem_geo_title",
  "fq": "sem_record_type:sem_geo",
  "prefetch": true,
  "geoqueryApplied": true,
  "distErrPet": 0.01,
  "configurations": [
    {
      "default": {
        "shapefield": "sem_geo_object",
        "titlefield": "sem_geo_title",
        "searchfields": [
          "sem_location"
        ]
      }
    }
  ],
}
```

```

{
  "field": "sem_record_type",
  "values": {
    "sem_geo": {
      "subtypes": {
        "field": "sem_record_subtype",
        "values": {
          "region": {
            "shapefield": "sem_geo_object",
            "mode": "filter"
          },
          "city": {
            "shapefield": "sem_geo_object",
            "mode": "filter",
            "params": [
              30.0
            ]
          }
        }
      },
      "default": {
        "shapefield": "sem_geo_object",
        "mode": "filter",
        "params": [
          5.0
        ]
      }
    }
  }
}

```

Search time parameters

Apart from parameters `geoquery.apply`, `geoquery.distance`, `geoquery.prefetch`, and `geoquery.mode` that can be used to override configuration option.

These additional search time parameters are available

Parameter	Type	Description
<code>geoquery</code>	<code>boolean</code>	Enable / disable the Geoquery component itself (enabled by default)
<code>geoquery.coordinates</code>	<code>lat, long</code>	Provide coordinates for the search directly
<code>geoquery.geoid</code>	<code>string</code>	Supply a reference geographic record directly by id
<code>geoquery.alternativeid</code>	<code>string</code>	Supply a reference geographic record directly by id. The parameter is triggered if an alternative from the list is selected, the other alternatives are shown in the response list (in contrary to the use of <code>geoquery.geoid</code>)

Response

The component adds a section `geoquery` to the response where it exposes information about the matched place and its name and location, together with the operations that have been applied. Moreover the list of alternative places with additional information and their corresponding actions is added.

Elements of the response

The listing below shows the elements that you will find within the `geoquery` section:

Name	Type	Description
<code>enable</code>	<code>boolean</code>	en/disabled
<code>match</code>	<code>boolean</code>	match / no match
<code>apply</code>	<code>boolean</code>	value of the configuration/parameter apply
<code>error</code>	<code>boolean</code>	Indicates an error

Name	Type	Description
msg	String	Error message in case of an error
place	place	an object describing the place that is the preferred match
alternatives	list of places	lists alternative geoquery search results - same structures as place with additional <code>active = false</code> (or <code>true</code>) and corresponding <code>sem_urls</code> for selecting the alternative place directly

The place elements in place and alternatives is made up by the following fields:

Name	Type	Description
type	string	type of the place
id	string	id
mode	string ("filter" OR "boost")	filter or boost
name	string	title of the place
name_hl	string	title of the place with highlighting
query_shape	string	the (simplified) geolocation used in the search (lat, long location or WKT (Multi)polygon)
distance	string	distance that is used in the search
unit	string	unit of the distance
document	document	The document as it comes from solr
active	boolean	true if the place is currently used in the search
hits	integer	The number of results when the place is applied (requires activated prefetching)
sem_action	sem_url	lists alternative geoquery search results (same structures as place with additional <code>active = true/false</code> and corresponding <code>sem_urls</code> for selecting the alternative place directly

Active and suggested places

Active place as filter

If the Geographic Query was used with `geoquery.apply=true`, or a place has been explicitly supplied by `geoquery.geoid`, `geoquery.alternativeid` or `geoquery.coordinates` the matched place is added as active filter in `active_filters` section.

Otherwise (with `geoquery.apply=false`) the matched place would be shown in the place section but it would be not be activated. When the matched place does not satisfy the requirement (e.g. `minCountApply`) the place would no even be shown in the place section but only in the list of alternatives.

Alternative places as suggested filters

All places would however be listed in the `alternatives` section, and all but the active one would be listed as `suggested_filters`.

See the 2nd and the 3rd code block below.

Sample Response

The code blocks below shows a sample response section for <https://search-features.demos.contextity.ch/sl/search?q=Siena> that encountered *Siena (region)* as best match and *Siena (place)* as alternative place that can be selected by their `action_urls`.

Example of the geoquery response section

```
{
  "geoquery": {
    "enable": true,
    "match": true,
    "apply": true,
    "totalTime": 80,
    "QTime": 4,
    "prefetchTime": 74,
    "prefetchCount": 2,
    "place": {
      "type": "city",
      "mode": "filter",
      "name": "Siena",
      "id": "3166548",
      "name_hl": "<em>Siena</em>",
      "query_shape": "POINT (11.33064 43.31822)",
      "distance": 30.0,
      "unit": "km",
      "queryTerms": [
        "Siena"
      ],
      "document": {
        "sem_address_country": "IT",
        "sem_text_search": [
          "IT"
        ],
        "sem_text_suggest": [
          "IT"
        ],
        "sem_geo_object": "POINT(11.33064 43.31822)",
        "sem_location": "43.31822,11.33064",
        "sem_location_latlng": "43.31822,11.33064",
        "sem_record_type": "sem_geo",
        "sem_geo_title": [
          "Siena"
        ],
        "id": "3166548",
        "sem_record_subtype": "city",
        "sem_source_id": "geonames",
        "_version_": 1801204883875954690,
        "sem_timestamp": "2024-06-07T12:20:36.338Z"
      ],
      "hits": 2,
      "sem_action": {
        "sem_url": "?q=Siena&geoquery.excludeid=3166548",
        "sem_url_action": "?q=Siena&geoquery.excludeid=3166548&ot.et=search&ot.est=filter-modified&ot.es=source_serp&ot.sse=c541d8e6-f481-4740-9524-297e8ad04cf2"
      }
    },
    "alternatives": [
      {
        "type": "city",
        "mode": "filter",
        "name": "Siena",
        "id": "3166548",
        "name_hl": "<em>Siena</em>",
        "query_shape": "POINT (11.33064 43.31822)",
        "distance": 30.0,
        "unit": "km",
        "queryTerms": [
          "Siena"
        ],
        "document": {
          "sem_address_country": "IT",
          "sem_text_search": [
            "IT"
          ],
          "sem_text_suggest": [
            "IT"
          ],
          "sem_geo_object": "POINT(11.33064 43.31822)",
          "sem_location": "43.31822,11.33064",
          "sem_location_latlng": "43.31822,11.33064",
          "sem_record_type": "sem_geo",
          "sem_geo_title": [
            "Siena"
          ],
          "id": "3166548",
          "sem_record_subtype": "city",
          "sem_source_id": "geonames",
          "_version_": 1801204883875954690,
          "sem_timestamp": "2024-06-07T12:20:36.338Z"
        },
        "hits": 2,
        "active": true,

```

```

"sem_action": {
  "sem_url": "?q=Siena&geoquery.excludeid=3166548",
  "sem_url_action": "?q=Siena&geoquery.excludeid=3166548&ot.et=search&ot.est=filter-modified&ot.es=source_serp&ot.sse=c541d8e6-f481-4740-9524-297e8ad04cf2"
},
{
  "type": "region",
  "mode": "filter",
  "name": "Siena",
  "id": "relation/42172",
  "name_hl": "<em>Siena</em>",
  "location": "POLYGON ((11.271991 43.5291843, 11.2464189 43.4982957, 11.2081468 43.4803563, 11.1744572 43.48979, 11.1964081 43.5170662, 11.1834702
43.5226534, 11.1236584 43.4746149, 11.111303 43.4982136, 11.0342552 43.5467771, 10.9656079 43.5139505, 10.9516306 43.4491434, 10.9790126 43.4060745, 11.0018463
43.401544, 11.0133182 43.364993, 10.9977098 43.3440441, 10.9720679 43.3442642, 10.9699866 43.3142418, 10.9547604 43.3185573, 10.9520614 43.3020514, 10.9836571
43.2886969, 10.9965987 43.2397811, 10.9889427 43.2311218, 10.9394654 43.245154, 10.9272381 43.2311125, 10.9414104 43.2040072, 10.9087977 43.1639283, 10.9424257
43.1603547, 11.0218013 43.1891437, 11.0590956 43.183877, 11.0501528 43.1446165, 11.0834579 43.0831987, 11.1223446 43.0915513, 11.1689284 43.0785124, 11.1750957
43.089993, 11.2305854 43.0922019, 11.2972852 43.0770502, 11.3285459 43.0916001, 11.3619888 43.0829725, 11.3677882 43.0562176, 11.3540174 43.0403389, 11.3641915
43.0326014, 11.351963 43.0270546, 11.3805162 42.996083, 11.3652464 42.9945538, 11.3756843 42.979246, 11.3528976 42.9692627, 11.4570154 42.957349, 11.5176551
42.9812159, 11.5293577 42.9654341, 11.5716011 42.9702551, 11.6101518 42.951121, 11.6268779 42.9146753, 11.6196858 42.8814067, 11.6372624 42.8528187, 11.6292112
42.7966085, 11.6797401 42.7879626, 11.7024642 42.7990508, 11.7460177 42.7857594, 11.7742431 42.8210689, 11.8068483 42.794854, 11.8145721 42.8233525, 11.8493907
42.8387459, 11.8945934 42.8342863, 11.9290187 42.8692902, 11.9600251 42.8692394, 11.9562799 42.9003921, 11.9334807 42.9054182, 11.9347337 42.9270234, 11.9824016
43.0509482, 11.9567018 43.0686646, 11.9360654 43.0559259, 11.9123518 43.1284024, 11.9615158 43.1670678, 11.9034459 43.1745975, 11.8878478 43.1563413, 11.8482381
43.1887306, 11.8338218 43.2243783, 11.7493943 43.2339123, 11.7015948 43.2855464, 11.6766923 43.2859702, 11.6580243 43.3217013, 11.5665632 43.3622767, 11.5315205
43.3923367, 11.5506326 43.4595802, 11.5017622 43.4606988, 11.4608131 43.5102917, 11.4358772 43.5116138, 11.4029754 43.5485101, 11.3640231 43.5261199, 11.3071753
43.5182895, 11.2696302 43.5461491, 11.271991 43.5291843)))",
  "distance": 5.0,
  "unit": "km",
  "queryTerms": [
    "Siena"
  ],
  "document": {
    "id": "relation/42172",
    "sem_geo_object": "POLYGON ((11.271991 43.5291843, 11.2464189 43.4982957, 11.2081468 43.4803563, 11.1744572 43.48979, 11.1964081 43.5170662, 11.1834702
43.5226534, 11.1236584 43.4746149, 11.111303 43.4982136, 11.0342552 43.5467771, 10.9656079 43.5139505, 10.9516306 43.4491434, 10.9790126 43.4060745, 11.0018463
43.401544, 11.0133182 43.364993, 10.9977098 43.3440441, 10.9720679 43.3442642, 10.9699866 43.3142418, 10.9547604 43.3185573, 10.9520614 43.3020514, 10.9836571
43.2886969, 10.9965987 43.2397811, 10.9889427 43.2311218, 10.9394654 43.245154, 10.9272381 43.2311125, 10.9414104 43.2040072, 10.9087977 43.1639283, 10.9424257
43.1603547, 11.0218013 43.1891437, 11.0590956 43.183877, 11.0501528 43.1446165, 11.0834579 43.0831987, 11.1223446 43.0915513, 11.1689284 43.0785124, 11.1750957
43.089993, 11.2305854 43.0922019, 11.2972852 43.0770502, 11.3285459 43.0916001, 11.3619888 43.0829725, 11.3677882 43.0562176, 11.3540174 43.0403389, 11.3641915
43.0326014, 11.351963 43.0270546, 11.3805162 42.996083, 11.3652464 42.9945538, 11.3756843 42.979246, 11.3528976 42.9692627, 11.4570154 42.957349, 11.5176551
42.9812159, 11.5293577 42.9654341, 11.5716011 42.9702551, 11.6101518 42.951121, 11.6268779 42.9146753, 11.6196858 42.8814067, 11.6372624 42.8528187, 11.6292112
42.7966085, 11.6797401 42.7879626, 11.7024642 42.7990508, 11.7460177 42.7857594, 11.7742431 42.8210689, 11.8068483 42.794854, 11.8145721 42.8233525, 11.8493907
42.8387459, 11.8945934 42.8342863, 11.9290187 42.8692902, 11.9600251 42.8692394, 11.9562799 42.9003921, 11.9334807 42.9054182, 11.9347337 42.9270234, 11.9824016
43.0509482, 11.9567018 43.0686646, 11.9360654 43.0559259, 11.9123518 43.1284024, 11.9615158 43.1670678, 11.9034459 43.1745975, 11.8878478 43.1563413, 11.8482381
43.1887306, 11.8338218 43.2243783, 11.7493943 43.2339123, 11.7015948 43.2855464, 11.6766923 43.2859702, 11.6580243 43.3217013, 11.5665632 43.3622767, 11.5315205
43.3923367, 11.5506326 43.4595802, 11.5017622 43.4606988, 11.4608131 43.5102917, 11.4358772 43.5116138, 11.4029754 43.5485101, 11.3640231 43.5261199, 11.3071753
43.5182895, 11.2696302 43.5461491, 11.271991 43.5291843)))",
    "sem_geo_title": [
      "Siena",
      "Provincia di Siena"
    ],
    "ISO3166-2": [
      "IT-SI"
    ],
    "admin_level": [
      "6"
    ],
    "boundary": [
      "administrative"
    ],
    "name:ru": [
      "Сиена"
    ],
    "official_name": [
      "Provincia di Siena"
    ],
    "ref:ISTAT": [
      "052"
    ],
    "short_name": [
      "SI"
    ],
    "wikipedia": [
      "it:Provincia di Siena"
    ],
    "sem_record_type": "sem_geo",
    "sem_record_subtype": "region",
    "sem_source_id": "osm",
    "sem_geo_country": "Italy",
    "sem_lang": "unknown",
    "version": 1801204865344471040,
    "sem_timestamp": "2024-06-07T12:20:18.560Z"
  },
  "hits": 3,
  "active": false,
  "sem_action": {
    "sem_url": "?q=Siena&geoquery.alternativeid=relation%2F42172",
    "sem_url_action": "?q=Siena&geoquery.alternativeid=relation%2F42172&ot.et=search&ot.est=filter-modified&ot.es=source_serp&ot.sse=c541d8e6-f481-4740-9524-
297e8ad04cf2"
  }
}

```

```

    }
  }
}

```

Active Filters

Response section showing active filter

```

{
  "active_filters": {
    "sem_action": {
      "sem_url": "?q=Siena",
      "sem_url_action": "?q=Siena&ot.et=search&ot.est=filter-modified&ot.es=source_serp&ot.sse=c541d8e6-f481-4740-9524-297e8ad04cf2"
    },
    "filters": [
      {
        "componentName": "GeoQueryComponent56587810",
        "source": "SYSTEM",
        "valueLabel": "place",
        "active": true,
        "value": "Siena (city)",
        "sem_action": {
          "sem_url": "?q=Siena&geoquery.excludeid=3166548",
          "sem_url_action": "?q=Siena&geoquery.excludeid=3166548&ot.et=search&ot.est=filter-modified&ot.es=source_serp&ot.sse=c541d8e6-f481-4740-9524-297e8ad04cf2"
        }
      }
    ]
  }
}

```

Suggested Filter

Response section showing suggested filters

```

{
  "suggested_filters": {
    "filters": [
      {
        "componentName": "GeoQueryComponent56587810",
        "source": "SYSTEM",
        "valueLabel": "place",
        "active": false,
        "value": "Siena (region)",
        "sem_action": {
          "sem_url": "?q=Siena&geoquery.alternativeid=relation%2F42172",
          "sem_url_action": "?q=Siena&geoquery.alternativeid=relation%2F42172&ot.et=search&ot.est=filter-modified&ot.es=source_serp&ot.sse=c541d8e6-f481-4740-9524-297e8ad04cf2"
        }
      }
    ]
  }
}

```

Error handling

In any case of an error (due to misconfiguration of missing data: e.g. the field that is supposed to contain information about the location is empty. etc.) the search would be processed "normally" (that is without further implication of `GeoQueryComponent`). An error message will be added to the response section of `GeoQueryComponent`.

Postprocess

The postprocess feature can be used to fetch additional information (documents) from your solr index. The

Postprocess feature is provided by the **PostprocessComponent**.

Configuration

The component configuration controls which fields contain information for the additional query and where this information should be added to.

Name	Type	Default	Description	Version support
<code>target</code>	<code>string</code>	-	name of the field that will be added and filled with the information.	
<code>source</code>	<code>string</code>	-	name of the field that contains the information use to perform the query.	
<code>qf</code>	<code>string</code>		name of the field(s) that will be queried.	
<code>result</code>	<code>"documents"</code>	<code>"documents"</code>	<code>"documents"</code> means that all documents from the result will be added the target field	
<code>requestParams</code>	<code>object (string)</code>	-	An object containing a list of parameter names and values, that will be used in the post query e.g. { <code>"fl": "id,sem_title"</code> , <code>"fq" : "sem_record_tyle": "color"</code> }	1.4+

Sample Configuration

The code example below illustrates how a configuration of the **PostprocessComponent** can look like in practice.

Example configurateion of a PostprocessComponent

```
{
  "type": "PostProcessComponent",
  "configurations": [
    {
      "target": "color_document",
      "source": "color",
      "qf": "id",
      "result": "documents",
      "requestParams": {
        "rows": "50",
        "fl": "id,sem_title,sem_url,sem_record_type",
        "fq": "sem_record_type:color"
      }
    }
  ]
}
```

Conditional Search Parameters



Available since version 1.6.

The **ConditionalSearchParamsComponent** can be used to define additional search parameter. As the component can be defined as **Dependent Components** these parameters are only added under the condition that the dependencies are satisfied.

Configuration

The component configuration is similar to the Predefined parameters definition (see Predefined parameters in **Advanced configuration options**) and thus uses these three different types of parameters:

- **defaults**: Default parameters can be overridden.

- **invariants**: Invariants can never be overridden.
- **appends**: Appends parameter will always be added.

Sample Configurations

The code examples below illustrates how a configuration of the `ConditionalSearchParamsComponent` can look like in practice.

Example configuration of a ConditionalSearchParamsComponent

```
{
  "type": "ConditionalSearchParamsComponent",
  "componentName": "conditional_appends",
  "appends": [
    {
      "name": "sp.fq",
      "value": "id:\"/en/2005_ravenswood_old_vine_mendocino_county_zinfandel\""
    }
  ],
  "dependsOnAny": [
    {
      "param": "q",
      "value": "ravenswood"
    }
  ]
}
```

Alternative example configuration of a ConditionalSearchParamsComponent (applying invariants)

```
{
  "type": "ConditionalSearchParamsComponent",
  "componentName": "conditional_invariants",
  "invariants": [
    {
      "name": "f.wine_type",
      "value": "wine_type_facet:Still\\ Wine"
    }
  ],
  "dependsOnAny": [
    {
      "component": "wine_producer",
      "value": "Clos\\ du\\ Bois\\ Wines"
    }
  ]
}
```

Distributed Search - multiple collections



Available since version 1.4.

With the distributed search feature one or more collection(s) that is/are different from the default one can be searched.

That enables the **use cases** for

- **Distributed search** where a set of collection can be used for the same search
- Different collections can be used for e.g. **language/country versions** while they all share the same search configuration.

Configuration

The collections that would be searchable have to be defined in the section **collections** of the search-layer-configurations.json`. Therefore a map that consists in the collection name and their properties is supplied. The properties for each collection are the following:

R = required

Name	Type	Description	R
<code>solrUrl</code>	<code>String</code>	Full URL of the solr collection	✓
<code>monitoringSolrUrl</code>	<code>String</code>	Full URL of the solr monitoring collection (If empty the default one would be used)	
<code>analyticsSolrUrl</code>	<code>String</code>	Url that points to the solr collection for analytics (If empty the default one would be used)	

Configuration example

Take a look at the collections in our example configuration at <http://search-features.demos.contextity.ch/sl/config>. The example code below defines the collections **wines** and **empty**

Example configuration for two collections

```
{
  "collections": {
    "empty": {
      "solrUrl": "http://localhost:8035/solr/empty",
      "monitoringSolrUrl": "http://localhost:8035/solr/sem_monitoring_core_empty",
      "analyticsSolrUrl": "http://localhost:8035/solr/sem_monitoring_core_empty"
    },
    "wines": {
      "solrUrl": "http://localhost:8035/solr/winedemo",
      "monitoringSolrUrl": "http://localhost:8035/solr/sem_monitoring_core",
      "analyticsSolrUrl": "http://localhost:8035/solr/sem_monitoring_core"
    }
  }
}
```

Usage

The collection to be used for the search can be specified either

- by using the parameter `_collection`
- by accessing the **collections specific endpoint(s)**:
Specific endpoints for search, suggest, similar, etc. are available under `{collectionname}/search`, `{collectionname}/suggest`, `{collectionname}/similar`, etc.

Search multiple collections

In order to search over multiple collection the parameter `_collection` can be supplied with a comma-separated list of collections

Autocomplete

As the name suggests **Autocomplete** can be used to get auto-complementation suggestion for terms entered by the user.

- Therefore, a range of **different types of suggesters** are available that can be used.
- Results can be **prefetched** for the suggested terms (therefore an additional search is triggered)

Usage

The default auto-complete endpoint is **/suggest**. The single mandatory parameter is:

- **term / q**: This parameter contains the so far entered search term(s) for which suggestions should be returned. (The parameter **q**, if present, is treated as a synonym to **term**.)

Optional parameters:

- Filter parameters (specifically for the auto-complete calls) need to be explicitly managed by the frontend, unlike what is the case of normal search. In other words, the search server defaults to not applying filters in the context of auto-complete calls. The filter parameters that can be used are identical to those of the normal search, and frontend developers can adjust the corresponding action URLs for the auto-completion calls as necessary. Note that auto-complete responses do again contain filtering capabilities (see the [Example](#) below for details).

Configuration

In the properties section of the configuration file the following properties are used to control the behavior of the **Autocomplete** search:

Name	Type	Default value	Description	Overridden by searchtime parameter
search.config.autocomplete	String	autocomplete	Response section name for autocomplete	
search.config.autocomplete.maxsuggestions	int	5	Max. number of suggestions in autocomplete	
search.config.autocomplete.lasttermquery	boolean	false	Get suggestions only for the last term when the suggesters do not return results	
search.config.autocomplete.config	String	autocomplete	Name of the configuration that is used for prefetching of results	autocomplete.config
search.config.autocomplete.spellcheckresults	boolean	false	Spellcheck results are added as suggestions when the suggesters do not return results	
search.config.autocomplete.sortsuggestions	String	natural	Available options: natural (based on string length), hits (based on number of hits)	
search.config.autocomplete.prefetchedResults	String	prefetchedResults	Response section name for prefetched results	
search.config.autocomplete.prefetchResults	boolean	true	En-/Disables prefetching of results.	
search.config.autocomplete.highlight	boolean	false	En-/Disables highlighting of results.	
search.config.spellchecker (v1.6.5+)	List	default	List of the types of spellchecker to be used	spellchecker
search.config.suggester.version (v2.0.0+)	classic or advanced	classic	advanced enables the advanced suggester	

Name	Type	Default value	Description	Overridden by searchtime parameter
search.config.suggest.prefix	String	sem_text_suggest	Name of the field that is used for facet prefix suggester	
search.config.suggest.prefix.fq	List	-	Filter queries that should be applied when using the facet prefix suggester (e.g. <code>sem_record_type:wine</code>)	suggest.prefix.fq (v1.6.5+)
search.config.suggester	List	prefix	The name(s) of the suggester that are used (e.g. <code>prefix</code> , <code>suggest</code> , or <code>sem_suggest_phrase</code>)	suggester (v1.6.5+)

Response

The autocomplete response differs from the search response, it writes information to the section **autocomplete** and **prefetchedResults**.

Elements of the Response

The main sections of the response are:

- **autocomplete**:
 - **suggestions**: This section contains the suggestions for the term(s) that can be used to “complete” the thus far user-entered query. The structure of the individual suggestions in this case is identical to the structure used for spelling suggestions – please refer to section [Spelling suggestions](#) for details.
 - **prefetchedResults**: This section contains “prefetched” documents that match the top suggestion, grouped by a predefined grouping field. The fields inside this section are:
 - **term**: This is the actual suggestion for which documents were prefetched
 - **sem_action**: The action URL that selects the term
 - **response** or **grouped**: Contains the prefetched documents either as document list or grouped. These sections correspond to the sections in the chapter [The search response](#).
 - **responseHeader**: Same as for the search response.

Example

The overall structure of a search response is shown in the example below calling suggestion for "brune": <https://search-features.demos.contextity.ch/sl/suggest?q=brune>

Autocomplete response section

```
{
  "autocomplete": {
    "suggestions": [
      {
        "suggestion": "brunet",
        "hits": 2,
        "sem_action": {
          "sem_url": "?q=brunet",
          "sem_url_action": "?q=brunet&ot.et=search&ot.est=suggest-term-select&ot.es=source_autocomplete&ot.orig=Brune&ot.sg=brunet&ot.sgidx=0&ot.sse=05ddaa43-de52-4363-9d16-1bf4e1d0915f"
        }
      },
      {
        "suggestion": "brunet jehanne",
        "hits": 1,
        "sem_action": {
```

```

    "sem_url": "?q=brunet+jehanne",
    "sem_url_action": "?q=brunet+jehanne&ot.et=search&ot.est=suggest-term-
select&ot.es=source_autocomplete&ot.orig=Brune&ot.sg=brunet+jehanne&ot.sgidx=1&ot.sse=05ddaa43-de52-4363-9d16-1bf4e1d0915f"
  },
  {
    "suggestion": "brunet jehanne de",
    "hits": 1,
    "sem_action": {
      "sem_url": "?q=brunet+jehanne+de",
      "sem_url_action": "?q=brunet+jehanne+de&ot.et=search&ot.est=suggest-term-
select&ot.es=source_autocomplete&ot.orig=Brune&ot.sg=brunet+jehanne+de&ot.sgidx=2&ot.sse=05ddaa43-de52-4363-9d16-1bf4e1d0915f"
    }
  },
  {
    "suggestion": "brunet jehanne de chantal",
    "hits": 1,
    "sem_action": {
      "sem_url": "?q=brunet+jehanne+de+chantal",
      "sem_url_action": "?q=brunet+jehanne+de+chantal&ot.et=search&ot.est=suggest-term-
select&ot.es=source_autocomplete&ot.orig=Brune&ot.sg=brunet+jehanne+de+chantal&ot.sgidx=3&ot.sse=05ddaa43-de52-4363-9d16-1bf4e1d0915f"
    }
  }
]
}
}

```

Advanced Suggester



Available since version 2.0.

The advanced suggester extends the potential of the suggester to use various fields in various ways for the suggestion. Furthermore, the response of the advanced suggester reveals more useful details.

Configuration

In the properties section of the configuration file setting properties `search.config.slsuggester.version` to `advanced` enables the advanced suggester

Note that when in advanced mode the other suggester related fields are **ignored**:

- `search.config.suggest.prefix.fq`
- `search.config.suggest.prefix`
- `search.config.suggester`
- `search.config.autocomplete.lasttermquery`
- `search.config.autocomplete.maxsuggestions`

Instead of that the advanced suggester is defined in the new section `suggester_configurations` of configuration file where various suggesters that consists in several suggester components can be added.

Every single suggester component is described by these field:

- **name**: The name of the suggester as defined in your `solrconfig.xml` (in case of prefix suggester it is the field name)
- **weight**: The factor to be applied, higher weight will bring up the results of this suggester component
- **maxResults**: The maximum number of results returned by the suggester component (replaces

`search.config.autocomplete.maxsuggestions)`

- **lastTermQuery**: Get suggestions only for the last term when the suggesters do not return results (replaces `search.config.autocomplete.lasttermquery`)
- **prefix**: `true` if it a prefix suggester
- **filterQueries**: Filter queries that should be applied when using the facet prefix suggester (replaces `search.config.suggest.prefix.fq`)

Example of an advanced suggester configuration

```
"suggester_configurations": {
  "default": {
    "components": [
      {
        "name": "sem_text_suggest",
        "weight": 1,
        "maxResults": 5,
        "lastTermQuery": true,
        "prefix": true,
        "filterQueries": ["sem_record_type:wine"]
      },
      {
        "name": "suggest_prefix",
        "weight": 1,
        "maxResults": 5,
        "lastTermQuery": true,
        "prefix": false
      }
    ]
  }
}
```

Response of the advanced suggester

In its response the advanced suggester outprints more detailed information about the source of the suggestions and its relevance (hits)



In order to take advantage of the enhanced response of the advanced suggester, you can still enable it setting `search.config.slsuggester.version` to `advanced`. In that case the properties are translated to the new format of the advanced suggester!

The example below shows the autocomplete section for the advanced suggester for the example configuration above

Autocomplete response section

```
{
  "autocomplete": {
    "suggestions": [
      {
        "suggestion": "brunet",
        "hits": 2,
        "hitsWeighted": 2.0,
        "suggesters": [
          "sem_text_suggest",
          "suggest_prefix"
        ],
        "sem_action": {
          "sem_url": "?q=brunet",
          "sem_url_action": "?q=brunet&ot.et=search&ot.est=suggest-term-select&ot.es=source_autocomplete&ot.orig=brune&ot.sg=brunet&ot.sgidx=0&ot.sse=8d63a572-a52c-43f7-ab5e-c0b4e9720445"
        }
      },
      {
        "suggestion": "brunet jehanne",
```

```

    "hits": 1,
    "hitsWeighted": 1.0,
    "suggesters": [
      "suggest_prefix"
    ],
    "sem_action": {
      "sem_url": "?q=brunet+jehanne",
      "sem_url_action": "?q=brunet+jehanne&ot.et=search&ot.est=suggest-term-select&ot.es=source_autocomplete&ot.orig=brune&ot.sg=brunet+jehanne&ot.sgidx=1&ot.sse=8d63a572-a52c-43f7-ab5e-c0b4e9720445"
    }
  },
  {
    "suggestion": "brunet jehanne de",
    "hits": 1,
    "hitsWeighted": 1.0,
    "suggesters": [
      "suggest_prefix"
    ],
    "sem_action": {
      "sem_url": "?q=brunet+jehanne+de",
      "sem_url_action": "?q=brunet+jehanne+de&ot.et=search&ot.est=suggest-term-select&ot.es=source_autocomplete&ot.orig=brune&ot.sg=brunet+jehanne+de&ot.sgidx=2&ot.sse=8d63a572-a52c-43f7-ab5e-c0b4e9720445"
    }
  },
  {
    "suggestion": "brunet jehanne de chantal",
    "hits": 1,
    "hitsWeighted": 1.0,
    "suggesters": [
      "suggest_prefix"
    ],
    "sem_action": {
      "sem_url": "?q=brunet+jehanne+de+chantal",
      "sem_url_action": "?q=brunet+jehanne+de+chantal&ot.et=search&ot.est=suggest-term-select&ot.es=source_autocomplete&ot.orig=brune&ot.sg=brunet+jehanne+de+chantal&ot.sgidx=3&ot.sse=8d63a572-a52c-43f7-ab5e-c0b4e9720445"
    }
  }
],
"suggestions_detail": {
  "sem_text_suggest": [
    {
      "suggestion": "brunet",
      "hits": 1,
      "suggesters": [
        "sem_text_suggest"
      ],
      "sem_action": {
        "sem_url": "?q=brunet",
        "sem_url_action": "?q=brunet&ot.et=search&ot.est=suggest-term-select&ot.es=source_autocomplete&ot.orig=brune&ot.sg=brunet&ot.sgidx=0&ot.sse=8d63a572-a52c-43f7-ab5e-c0b4e9720445"
      }
    }
  ],
  "suggest_prefix": [
    {
      "suggestion": "brunet",
      "hits": 2,
      "suggesters": [
        "suggest_prefix"
      ],
      "sem_action": {
        "sem_url": "?q=brunet",
        "sem_url_action": "?q=brunet&ot.et=search&ot.est=suggest-term-select&ot.es=source_autocomplete&ot.orig=brune&ot.sg=brunet&ot.sgidx=0&ot.sse=8d63a572-a52c-43f7-ab5e-c0b4e9720445"
      }
    },
    {
      "suggestion": "brunet jehanne",
      "hits": 1,
      "suggesters": [
        "suggest_prefix"
      ],
      "sem_action": {
        "sem_url": "?q=brunet+jehanne",
        "sem_url_action": "?q=brunet+jehanne&ot.et=search&ot.est=suggest-term-select&ot.es=source_autocomplete&ot.orig=brune&ot.sg=brunet+jehanne&ot.sgidx=1&ot.sse=8d63a572-a52c-43f7-ab5e-c0b4e9720445"
      }
    },
    {
      "suggestion": "brunet jehanne de",
      "hits": 1,
      "suggesters": [
        "suggest_prefix"
      ],
      "sem_action": {
        "sem_url": "?q=brunet+jehanne+de",
        "sem_url_action": "?q=brunet+jehanne+de&ot.et=search&ot.est=suggest-term-select&ot.es=source_autocomplete&ot.orig=brune&ot.sg=brunet+jehanne+de&ot.sgidx=2&ot.sse=8d63a572-a52c-43f7-ab5e-c0b4e9720445"
      }
    }
  ]
}

```

```

    }
  },
  {
    "suggestion": "brunet jehanne de chantal",
    "hits": 1,
    "suggesters": [
      "suggest_prefix"
    ],
    "sem_action": {
      "sem_url": "?q=brunet+jehanne+de+chantal",
      "sem_url_action": "?q=brunet+jehanne+de+chantal&ot.et=search&ot.est=suggest-term-select&ot.es=source_autocomplete&ot.orig=brune&ot.sg=brunet+jehanne+de+chantal&ot.sgidx=3&ot.sse=8d63a572-a52c-43f7-ab5e-c0b4e9720445"
    }
  }
]
}
}
}
}

```

More like this

More Like This is equivalent to a search for similar documents to a given one. The search can be used either by submitting the encoded ID to the default search handler in the form of `q=mlt:$ID` or by using the dedicated endpoint (see below).

Normally the search response would contain `mlt` action URLs that link to the `morelikethis` search for every document (refer to [Document fields](#)).

Usage

The default more-like-this endpoint is `/morelikethis`. The mandatory parameter for this call is:

- **id**: This is the *encoded* identifier of the document for which similar documents should be returned. This encoded form is automatically generated and returned when a document is retrieved – see section [Document fields](#) for details.

Optional parameters:

- Monitoring parameters, like in the case of normal searches, are prepared and delivered by the search server in prepopulated action URLs – see section [Common conventions](#) for details.

Configuration

In the properties section of the configuration file the following properties are used to control the behavior of the **More Like This** search:

Property name	Type	Default value	Description
<code>search.config.mlt.similarityfields</code>	String	<code>sem_text_search</code>	Name of the field(s) that is/are used to get MoreLikeThis results
<code>search.config.mlt.docctype.field</code>	String	-	Name of the Field that is used to restrict MoreLikeThis results to documents with the same value in this field.

Response

Elements of the Response

The main sections of the response are the same as in a normal search (refer to [The search response](#)). An additional field can be found in `response`:

- **maxScore**: The maximal similarity score

Note that the documents under `docs` are ordered by decreasing similarity to the original document, and the `score` within each documents describes it's similarity

Example



Try it out! 3 similar wines to the "2004 Domaine Prieur Brunet Jehanne de Chantal" are returned from the *More like this* endpoint at <https://search-features.demos.contextity.ch/sl/morelikethis?>

[id=SEML2VuLzIwMDRfZG9tYWluZV9wcmllldXJfYnJ1bmV0X2plaGFubmVfZGVfY2hhbnRhbA](https://search-features.demos.contextity.ch/sl/morelikethis?id=SEML2VuLzIwMDRfZG9tYWluZV9wcmllldXJfYnJ1bmV0X2plaGFubmVfZGVfY2hhbnRhbA)

The overall structure of an more-like-this response is as follows (see section [A.3. Full more like this response](#) for a full sample response)

Example of a mlt response

```
{
  "response": {
    "numFound": 3,
    "start": 0,
    "maxScore": 3.1117635,
    "numFoundExact": true,
    "docs": [
      {
        "wine_producer": "Domaine Gabriel Billard",
        "sem_text_search": [
          "Domaine Gabriel Billard",
          "France",
          "Red Wine",
          "Pommard wine",
          "2005 Domaine Gabriel Billard \Milliane\ Bourgogne Rouge"
        ],
        "sem_text_suggest": [
          "Domaine Gabriel Billard",
          "France",
          "2005 Domaine Gabriel Billard \Milliane\ Bourgogne Rouge"
        ],
        "sem_suggest_prefix": [
          "Domaine Gabriel Billard",
          "France",
          "2005 Domaine Gabriel Billard \Milliane\ Bourgogne Rouge"
        ],
        "sem_suggest_phrase": [
          "Domaine Gabriel Billard",
          "France",
          "2005 Domaine Gabriel Billard \Milliane\ Bourgogne Rouge"
        ],
        "wine_producer_id": "Domaine Gabriel Billard",
        "wine_sub_region": "Côte de Beaune",
        "country": "France",
        "/common/topic/image": [
          "Gabriel_billard.png"
        ],
        "id": "/m/02zznx2",
        "region": "Burgundy",
        "wine_type": "Still Wine",
        "wine_type_facet": "Still Wine",
        "percentage_alcohol": 12.5,
        "color": "Red Wine",
        "sem_grouping": "Red Wine",
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        "sem_url": "http://www.freebase.com/m/02zznx2",
        "sem_record_type": "wine",
        "sem_lang": "fr",
        "sem_timestamp": "2024-06-07T12:19:43.380Z",
        "score": 3.1117635,
        "color_document": [
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            "sem_title": "Red Wine",
            "sem_record_type": "color",
            "sem_url": "http://www.freebase.com/m/02wsb20"
          }
        ]
      }
    ]
  }
}
```

```

    },
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Brunet%22+%22Domaine+Gabriel+Billard%22+%22Domaine+Daniel+Rion%22+%22Domaine+de+la+Roman%C3%A9-
Conti%22+%22%2Fm%2F02zznx2%22+%22%2Fm%2F03ggy82%22+%22%2Fen%2F1999_domaine_romanee_conti_la_tache%22%29&ot.es=source_serp&ot.nf=3&ot.s=0&ot.r=20&ot.rank=0&ot.sse=cc
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Conti%22+%22%2Fm%2F02zznx2%22+%22%2Fm%2F03ggy82%22+%22%2Fen%2F1999_domaine_romanee_conti_la_tache%22%29&ot.es=source_serp&ot.nf=3&ot.s=0&ot.r=20&ot.rank=0&ot.sse=cc
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      },
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        "sem_url_action":
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Brunet%22+%22Domaine+Gabriel+Billard%22+%22Domaine+Daniel+Rion%22+%22Domaine+de+la+Roman%C3%A9-
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      }
    },
    "sem_encoded_id": "SEML20vMDJ6em54Mg"
  },
  {
    "wine_producer": "Domaine de la Romanée-Conti",
    "sem_text_search": [
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      "France",
      "Red Wine",
      "Vosne-Romanée",
      "La Tâche AOC",
      "1999 Domaine Romanee Conti La Tache"
    ],
    "sem_text_suggest": [
      "Domaine de la Romanée-Conti",
      "France",
      "La Tâche AOC",
      "1999 Domaine Romanee Conti La Tache"
    ],
    "sem_suggest_prefix": [
      "Domaine de la Romanée-Conti",
      "France",
      "La Tâche AOC",
      "1999 Domaine Romanee Conti La Tache"
    ],
    "sem_suggest_phrase": [
      "Domaine de la Romanée-Conti",
      "France",
      "La Tâche AOC",
      "1999 Domaine Romanee Conti La Tache"
    ],
    "wine_producer_id": "Domaine de la Romanée-Conti",
    "wine_sub_region": "Côte de Nuits",
    "wine_style": [
      "Red Burgundy"
    ],
    "wine_style_facet": "Red Burgundy",
    "fruit_source": "Producer owned",
    "country": "France",
    "/common/topic/image": [
      "DRC99LaTache.JPG"
    ],
    "id": "/en/1999_domaine_romanee_conti_la_tache",
    "region": "Burgundy",
    "wine_type": "Still Wine",
    "wine_type_facet": "Still Wine",
    "percentage_alcohol": 13.5,
    "color": "Red Wine",
    "sem_grouping": "Red Wine",
    "color_facet": "Red Wine",
    "appellation": "Vosne-Romanée",
    "appellation_facet": "Vosne-Romanée",
    "vintage_hierarchy": "Old:1999",
    "vintage": 1999,
  }

```

```

"vineyard": "La T che AOC",
"sem_location": "47.161664, 4.955435",
"sem_location_latlng": "47.161664, 4.955435",
"sem_publication_date": "2017-05-29T16:33:28.258Z",
"sem_opening_hours": [
  "1701010000 2501010000"
],
"sem_title": "1999 Domaine Romanee Conti La Tache",
"sem_title_alpha": "1999 Domaine Romanee Conti La Tache",
"sem_record_type": "wine",
"sem_lang": "it",
"sem_timestamp": "2024-06-07T12:19:43.380Z",
"score": 3.1117635,
"color_document": [
  {
    "id": "Red Wine",
    "sem_title": "Red Wine",
    "sem_record_type": "color",
    "sem_url": "http://www.freebase.com/m/02wsb20"
  }
],
"sem_actions": {
  "default": "goto",
  "goto": {
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click&ot.q=id%3A%28%22Domaine+Prieur-Brunet%22+%22Domaine+Gabriel+Billard%22+%22Domaine+Daniel+Rion%22+%22Domaine+de+la+Roman%C3%A9-
Conti%22+%22%2Fm%2F02zznx2%22+%22%2Fm%2F03ggy82%22+%22%2Fen%2F1999_domaine_romanee_conti_la_tache%22%29&ot.es=source_serp&ot.nf=3&ot.s=0&ot.r=20&ot.rank=1&ot.sse=cc
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Conti%22+%22%2Fm%2F02zznx2%22+%22%2Fm%2F03ggy82%22+%22%2Fen%2F1999_domaine_romanee_conti_la_tache%22%29&ot.sse=cc260008-5d4b-4cd0-be5e-e43296ffa3d5"
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  ],
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    "Le Vaucrain",
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  ],
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  ],
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```

},
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"region": "Burgundy",
"wine_type": "Still Wine",
"wine_type_facet": "Still Wine",
"color": "Red Wine",
"sem_grouping": "Red Wine",
"color_facet": "Red Wine",
"vintage": 2005,
"vineyard": "Le Vaucrain",
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"sem_location_latlng": "47.109931,4.929972",
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"sem_url": "http://www.freebase.com/m/03ggy82",
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"sem_lang": "fr",
"sem_timestamp": "2024-06-07T12:19:43.380Z",
"score": 3.1117635,
"color_document": [
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    "sem_title": "Red Wine",
    "sem_record_type": "color",
    "sem_url": "http://www.freebase.com/m/02wsb20"
  }
],
"sem_actions": {
  "default": "goto",
  "goto": {
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    "sem_url_action": "/sl/redirect?url=http%3A%2F%2Fwww.freebase.com%2Fm%2F03ggy82&id=SEML20vMDNnZ3k4Mg&ot.et=result&ot.est=serp-result-click&ot.q=id%3A%28%22Domaine+Prieur-Brunet%22+%22Domaine+Gabriel+Billard%22+%22Domaine+Daniel+Rion%22+%22Domaine+de+la+Roman%C3%A9-Conti%22+%22%2Fm%2F02zznx2%22+%22%2Fm%2F03ggy82%22+%22%2Fen%2F1999_domaine_romanee_conti_la_tache%22%29&ot.es=source_serp&ot.nf=3&ot.s=0&ot.r=20&ot.rank=2&ot.sse=cc260008-5d4b-4cd0-be5e-e43296ffa3d5",
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  }
},
"sem_encoded_id": "SEML20vMDNnZ3k4Mg"
}
]
}
}
}

```

Record endpoint

The record endpoint is used for retrieving individual documents from the index. The default endpoint is [/record](#).

Parameters

The mandatory parameter for this call is:

- **id**: This is the *encoded* identifier of the document for which similar documents should be returned. This encoded form is automatically generated and returned when a document is retrieved – see section [Document fields](#) for details.

Optional parameters:

- Monitoring parameters, like in the case of normal searches, are prepared and delivered by the search server in prepopulated action URLs – see section [Common conventions](#) for details.

Monitoring and Search Analytics

How Semanteer search monitoring works

Semanteer keeps track of all search events that it's aware of - in essence all requests made, whether they are “normal” search requests, “navigation” requests, or requests to retrieve individual records. In fact, Semanteer's search layer API generates two types of action URLs, a “simple” type, intended to be shown to the user and used in the browser history stack, and a second type that has additional behavior tracking parameters included. Events are tracked whichever of the two types of URLs are used to make a request to the search layer, but as one might expect, the additional tracking parameters, when present, enable richer statistics to be derived.

Something that requires separate mention is how the monitoring of “clicks” (i.e., the selection of search results in the frontend) is tracked. There are two possibilities in this case:

1. Use the corresponding action URLs generated by the search layer, which either retrieve the corresponding individual record, or redirect to the URL of the web resource that the record “points to”. (which of the two types gets generated can be configured as necessary)
2. Use the so called “log” URLs also generated by the search layer - these allow the frontend to notify Semanteer that a result was clicked, even if the click is handled directly by the frontend and no record is retrieved from Semanteer (e.g., in a shop system, the product with the selected identifier is directly shown). See also [Monitoring URLs](#).

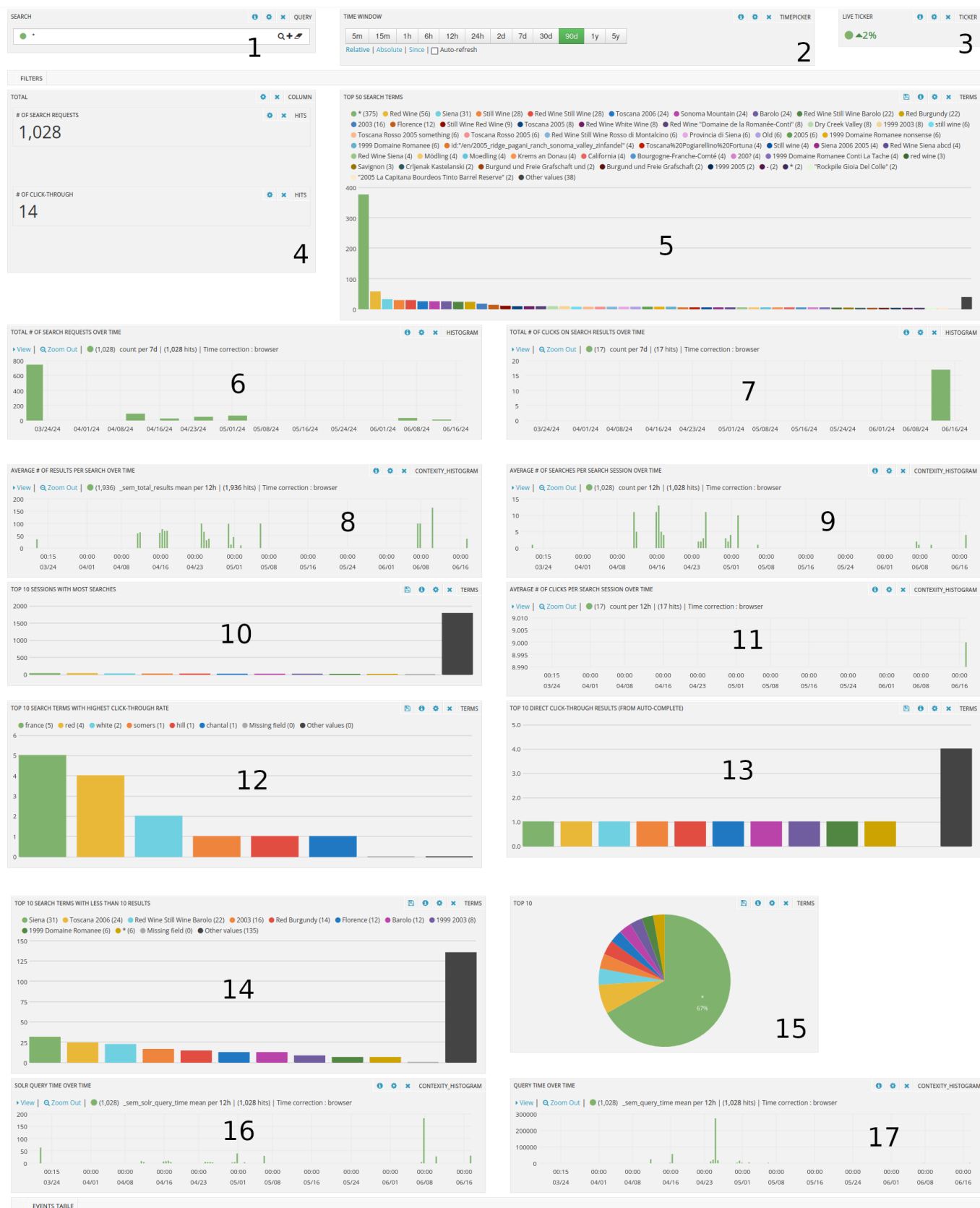
The Semanteer monitoring dashboard

Once the monitored search events have been communicated to Semanteer, they are stored in a special dedicated index, and can be used to derive statistics and indicators - both standardized ones, and custom ones of interest to the client. These statistics and indicators can be defined and accessed in a “human-readable” form in Semanteer's monitoring dashboard.



Try it out: Let's have a look at the dashboard of our demo search: <http://search-features.demos.contextity.ch/monitoring>

Below you can see a screenshot of the dashboard's default configuration, followed by an explanation of the pre-configured panels containing statistics and indicators, as well as controls that enable end users to interact with the presented statistics.



The numbered panels in the above figure are as follows:

- The “Search” panel (Panel #1) allows users to refine the (types) of events that they want to see statistics for. We will return to the this panel soon and show some typical filtering cases.

- The “Time window” panel (Panel #2) allows users to select the period for which they want to see stats. Selections in this panel like in the “Search” panel as well, affect what is shown everywhere else in the dashboard.
- The “Live ticker” (Panel #3) shows how the total count of (potentially filtered) events trends, percentage wise, between the current and immediately preceding time window.
- The next panel (Panel #4) shows:
 - The total number of search requests received by Semanteer in the selected time window
 - The total number of “click through” events in the same period. A “click through” is a click on a prefetched result shown in the autocomplete dialog, and is different than a click on a result in the SERP.
- The “Top search terms” panel (Panel #5) shows the most common terms in the received search requests. These may include “asterisk” searches (typical in navigation calls), and searches for specific articles or products by their identifier (denoted by query strings with a format similar to “id:...”)
- Panels #6 to #9 shows averages over subdivisions of the currently selected time window for:
 - Total number of search requests
 - Total number of clicks on search results
 - Number of results per search
 - Number of searches within distinct search sessions
- Panel #10 shows the top sessions with the most searches in the selected time window.
- Panel #11 shows the average number of result clicks per search session
- Panel #12 shows the search terms with the highest click-through rates (clicks on results shown directly in the autocomplete dialog)
- Panel #13 shows the prefetched results with the highest click-through rates (clicks on results shown directly in the autocomplete dialog)
- Panel #14 shows the most frequently searched terms that have less than 10 results
- Panel #15 shows the relative distribution of the most commonly encountered search terms amongst themselves.
- Panels #16 and #17 show respectively the average request completion time for search requests by Solr and by the Semanteer search layer; note that a Semanteer search layer request always involves at least (and potentially more) Solr requests.

As already mentioned, one can use the search panel to limit the events that are being used to derive the statistics in the rest of the dashboard. The constraints can be expressed as Solr or Lucene filter expressions. To express a constraint, a user needs to be aware of the fields available, which can be seen by opening the “Events table” panel at the bottom of the dashboard (which is collapsed by default). A typical case is to constraint only to events that “real” searches by excluding all requests that have “asterisk” searches, or searches for article / product identifiers, using the expression:

```
NOT _sem_query_text:( "*" id\.* )
```

Further to the above, there are a lot of possibilities regarding what panels are shown in the dashboard, and how information is presented in them.

Semanteer VUI

Semanteer VUI is Semanteer's out-of-the-box web-based search UI for rapid prototyping and improvement cycles. It is useful for experimenting with different search configurations as well as testing new search features in existing installations.

The behavior of the Semanteer VUI automatically adjusts itself to the settings in the search-layer-configuration. In addition, the VUI comes with a configuration file which allows the selection of certain configurations, the activation of features and the specification of rendering settings. The settings can be easily configured in one configuration file (**config.json**) which can be found in the main folder of the VUI application.

This chapter describes the basic settings of the VUI configuration.

- It explains the structure of the configuration file.
- It contains a sample configuration as example.

The configuration file

The **config.json** configuration file needs to be saved in the root folder of the Semanteer VUI application. Each installation comes with a default file which can be adjusted as needed. The configuration file contains different sections:

- General settings such as title, urls, which search layer configuration to use, default settings for facets and so on.
- Section for the autocomplete configuration (used in grouped and ungrouped mode)
- Section for the result configuration (used for grouped and ungrouped search results)
- Section for the groupdoc configuration (used in grouped mode)
- Section for child document configuration

General settings and structure

Name	Type	Default value	See also	Description
appTitle	string	Semanteer search		The title of the VUI application
searchURL	string	/sl/search		The endpoint for search calls
suggestURL	string	/sl/suggest		The endpoint for suggest calls
recordURL	string	/sl/record		The endpoint for record detail calls
mltURL	string	/sl/morelikethis		The endpoint for more like this suggestions
slconfigURL	string	/sl/config		The endpoint for the search layer configuration
activeSLConfig	string	default		The configuration to use to determine the components
semc	string	null		The configuration to use as semc parameter, should be similar to activeSLConfig or null
facets.defaultUIShow	boolean	false		Value determining whether facet components should be by default shown or hidden

Name	Type	Default value	See also	Description
<code>facets.displayOpen</code>	boolean	false		Value determining whether facet components such as lists or hierarchies are by default displayed in open mode or as dropdown
<code>facets.defaultExpandLevel</code>	number	0		Default value for expansion level of facet hierarchies
<code>map.active</code>	boolean	false		Value to activate map view
<code>map.clustering</code>	boolean	false		If map view is activated, this value determines whether the map uses clustered display mode
<code>map.semc</code>	string	map		The semc parameter to be used for map calls
<code>autocomplete</code>	object		Autocomplete settings	The section to determine all the settings for the autocomplete dialog
<code>autocomplete.semc</code>	string	autocomplete		The semc parameter to be used for map calls
<code>autocomplete.prefetched.label</code>	string	Results		Label to show above prefetched results in the autocomplete dialog
<code>autocomplete.prefetched.fields</code>	array	null	Field properties	Array of field properties to display for each prefetched result
<code>autocomplete.prefetched.facets</code>	array	null	Facet properties	Array of properties defining the facets to display in the autocomplete dialog
<code>result</code>	object			The section to determine all the settings for displaying results
<code>result.baseUrl</code>	string	null		Defines the base url to prepend to sem_url in case external urls are relative. The assembled links are _blank links.
<code>result.showAllIndexedFields</code>	boolean	false		Defines whether an option to show all indexed fields of results should be provided. Useful for testing purposes.
<code>result.image.fieldName</code>	string	sem_image_thumbnail_url		Field name to use for image urls.
<code>result.image.baseUrl</code>	string	null		Defines the base url to use for image urls.
<code>result.fields</code>	array	null	Field properties	Array of field properties to display for each result in the result list
<code>result.details.fields</code>	array	null	Field properties	Array of field properties to display for each result in the detail view
<code>groupdoc</code>	object			The section to determine all the settings for displaying group docs, if a grouped results configuration is used
<code>groupdoc.defaultGroupValue</code>	string	Uncategorized		The section name for results that don't belong to a group.
<code>groupdoc.baseUrl</code>	string	null		Defines the base url to prepend to sem_url in case external urls are relative. The assembled links are _blank links.
<code>groupdoc.fields</code>	array	null	Field properties	Array of field properties to display for each group doc in the result list
<code>childdocs</code>	object			The section to determine all the settings for displaying child docs, if the search results have child documents
<code>childdocs.active</code>	boolean	false		Defines if child documents should be rendered along with search results
<code>childdocs.label</code>	string	null		Defines the label for child documents of a search result
<code>childdocs.field</code>	string	null		Defines the field that contains the child documents of a search result
<code>childdocs.fields</code>	array	null	Field properties	Array of field properties to display for each child doc of a search result

Field properties

Field properties can be defined for prefetched results, results, result details and group docs. The general structure looks as follows:

```
{
  "fieldName": "sem_links",
  "label": "Links",
  "type": "array",
  "subtype": "url",
  "newline": true
}
```

Name	Type	Default value	See also	Description
<code>fieldname</code>	string	null		Defines the name of the field that contains the property to display

Name	Type	Default value	See also	Description
label	string	null		Defines the label to use for the property to display
type	string	null		Defines the type of the property to display, the following values are possible: string, datetime, date, array, boolean, url
subtype	string	null		Defines the type of the property to display, the following values are possible: url
newline	boolean	false		Defines after rendering this property a linebreak should be added

Facet properties

Facet properties can be defined for ... The general structure looks as follows:

```
{
  "label": "Color",
  "fieldName": "color",
  "type": "facet_fields",
  "limit": 10,
  "levels": 1,
  "className": "horizontal_list",
}
```

Name	Type	Default value	See also	Description
fieldname	string	null		Defines the name of the field that contains the facet to display
label	string	null		Defines the label to use for the facet to display
type	string	null		Defines the type of the facet to display, the following values are possible: facet_fields, facet_hierarchies
limit	number	null		Defines the maximum number of options to render for this facet
levels	number	null		Defines the number of levels to render for facet hierarchies
className	string	null		Defines the class name to add when rendering this facet, a typical setting is: horizontal_list

Sample configuration

The code below shows the **config.json** of the wine-demo.

Code example

```
{
  "appTitle": "Wine demo search",
  "searchURL": "/sl/search",
  "suggestURL": "/sl/suggest",
  "recordURL": "/sl/record",
  "mltURL": "/sl/morelikethis",
  "slconfigURL": "/sl/config",

  "activeSLConfig": "default",
  "semc": "",

  "facets": {
    "defaultUIShow": true,
    "displayOpen": false,
    "defaultExpandLevel": 1
  },
  "map": {
    "active": true,
    "clustered": true,
    "semc": "map"
  },
  "autocomplete": {
    "semc": "autocomplete",
    "prefetched": {
```

```

"label": "",
"fields": [
  {
    "fieldName": "wine_type",
    "label": "Type",
    "type": "string"
  },
  {
    "fieldName": "color",
    "label": "Color",
    "type": "string"
  },
  {
    "fieldName": "wine_producer",
    "label": "Producer",
    "type": "string"
  }
]
},
"facets": [
  {
    "label": "Color",
    "fieldName": "color",
    "className": "horizontal_list",
    "levels": 1,
    "limit": 10,
    "type": "facet_fields"
  },
  {
    "label": "Category",
    "fieldName": "sem_category_names_branch",
    "className": "horizontal_list",
    "levels": 2,
    "limit": 20,
    "type": "facet_hierarchies"
  }
]
},
"groupdoc": {
  "baseUrl": "",
  "defaultGroupValue": "",
  "fields": [
    {
      "fieldName": "sem_lang",
      "label": "Lang",
      "type": "string"
    }
  ]
},
"result": {
  "baseUrl": "",
  "showAllIndexedFields": true,
  "image": {
    "fieldName": "",
    "baseUrl": ""
  },
  "fields": [
    {
      "fieldName": "wine_type",
      "label": "Type",
      "type": "string"
    },
    {
      "fieldName": "color",
      "label": "Color",
      "type": "string"
    },
    {
      "fieldName": "wine_producer",
      "label": "Producer",
      "type": "string"
    },
    {
      "fieldName": "country",
      "label": "Country",
      "type": "string"
    },
    {
      "fieldName": "percentage_alcohol",
      "label": "Alcohol",
      "type": "string"
    }
  ]
},
"details": {
  "fields": [
    {
      "fieldName": "wine_type",
      "label": "Type",

```

```

        "type": "string"
    },
    {
        "fieldName": "color",
        "label": "Color",
        "type": "string"
    },
    {
        "fieldName": "percentage_alcohol",
        "label": "Alcohol",
        "type": "string"
    },
    {
        "fieldName": "vintage",
        "label": "Vintage",
        "type": "string"
    },
    {
        "fieldName": "wine_producer",
        "label": "Producer",
        "type": "string"
    },
    {
        "fieldName": "vineyard",
        "label": "Vineyard",
        "type": "string"
    },
    {
        "fieldName": "appellation",
        "label": "Appellation",
        "type": "string"
    },
    {
        "fieldName": "country",
        "label": "Country",
        "type": "string"
    },
    {
        "fieldName": "region",
        "label": "Region",
        "type": "string"
    },
    {
        "fieldName": "sem_encoded_id",
        "label": "SEMID",
        "type": "string"
    },
    {
        "fieldName": "sem_timestamp",
        "label": "Timestamp",
        "type": "date"
    }
    ]
}
},
"childdocs": {
    "active": true,
    "field": "_childDocuments_",
    "label": "Reviews",
    "fields": [
        {
            "fieldName": "author",
            "label": "Author",
            "type": "array",
            "newline": true
        },
        {
            "fieldName": "comment",
            "label": "Comment",
            "type": "array",
            "newline": true
        },
        {
            "fieldName": "rating",
            "label": "Rating",
            "type": "string",
            "newline": true
        }
    ]
}
}
}

```

Appendix A: Sample responses in full

A.1. Full search response

Example of a full search response (v2.0.0)

```
{
  "response": {
    "numFound": 95,
    "start": 0,
    "numFoundExact": true,
    "docs": [
      {
        "wine_producer": "Quivira Vineyards",
        "sem_text_search": [
          "Quivira Vineyards",
          "United States of America",
          "Red Wine",
          "Dry Creek Valley",
          "Wine Creek Ranch",
          "2005 Quivira \"Wine Creek Ranch\" Dry Creek Valley Estate Zinfandel"
        ],
        "sem_text_suggest": [
          "Quivira Vineyards",
          "United States of America",
          "Wine Creek Ranch",
          "2005 Quivira \"Wine Creek Ranch\" Dry Creek Valley Estate Zinfandel"
        ],
        "sem_suggest_prefix": [
          "Quivira Vineyards",
          "United States of America",
          "Wine Creek Ranch",
          "2005 Quivira \"Wine Creek Ranch\" Dry Creek Valley Estate Zinfandel"
        ],
        "sem_suggest_phrase": [
          "Quivira Vineyards",
          "United States of America",
          "Wine Creek Ranch",
          "2005 Quivira \"Wine Creek Ranch\" Dry Creek Valley Estate Zinfandel"
        ],
        "wine_producer_id": "Quivira Vineyards",
        "wine_sub_region": "Sonoma County",
        "fruit_source": "Producer owned",
        "country": "United States of America",
        "/common/topic/image": [
          "Quivira2.jpg"
        ],
        "id": "/m/03d_88l",
        "region": "California",
        "wine_type": "Still Wine",
        "wine_type_facet": "Still Wine",
        "percentage_alcohol": 14.5,
        "color": "Red Wine",
        "sem_grouping": "Red Wine",
        "color_facet": "Red Wine",
        "appellation": "Dry Creek Valley",
        "appellation_facet": "Dry Creek Valley",
        "vintage": 2005,
        "vineyard": "Wine Creek Ranch",
        "sem_title": "2005 Quivira \"Wine Creek Ranch\" Dry Creek Valley Estate Zinfandel",
        "sem_title_alpha": "2005 Quivira \"Wine Creek Ranch\" Dry Creek Valley Estate Zinfandel",
        "sem_url": "http://www.freebase.com/m/03d_88l",
        "sem_record_type": "wine",
        "sem_lang": "en",
        "sem_timestamp": "2024-06-07T12:19:43.380Z",
        "sem_excerpt": "... 2005 Quivira \"Wine Creek Ranch\" Dry Creek Valley Estate Zinfandel ... <em>Red</em> \"Wine\" ... <em>Wine</em> Creek Ranch ... ",
        "color_document": [
          {
            "id": "Red Wine",
            "sem_title": "Red Wine",
            "sem_record_type": "color",
            "sem_url": "http://www.freebase.com/m/02wsb20"
          }
        ],
        "sem_actions": {
          "default": "goto",
          "goto": {
            "sem_url": "/sl/redirect?url=http%3A%2F%2Fwww.freebase.com%2Fm%2F03d_88l&id=SEML20vMDNkXzg4bA",
            "sem_url_action": "/sl/redirect?url=http%3A%2F%2Fwww.freebase.com%2Fm%2F03d_88l&id=SEML20vMDNkXzg4bA&ot.et=result&ot.est=serp-result-click&ot.q=Still+Wine+Red+Wine&ot.es=source_serp&ot.nf=95&ot.s=0&ot.r=20&ot.rank=0&ot.sse=7899045e-48b5-4811-ab03-0cdf79dbe9b7",
            "sem_url_logging": "/sl/log?url=http%3A%2F%2Fwww.freebase.com%2Fm%2F03d_88l&id=SEML20vMDNkXzg4bA&ot.et=result&ot.est=serp-result-click&ot.q=Still+Wine+Red+Wine&ot.es=source_serp&ot.nf=95&ot.s=0&ot.r=20&ot.rank=0&ot.sse=7899045e-48b5-4811-ab03-0cdf79dbe9b7",
            "sem_is_external": true,
            "fetch": {
              "sem_url": "/sl/record?id=SEML20vMDNkXzg4bA",
              "sem_url_action": "/sl/record?id=SEML20vMDNkXzg4bA&ot.et=result&ot.est=serp-result-click&ot.q=Still+Wine+Red+Wine&ot.es=source_serp&ot.nf=95&ot.s=0&ot.r=20&ot.rank=0&ot.sse=7899045e-48b5-4811-ab03-0cdf79dbe9b7",
              "sem_url_logging": "/sl/log?id=SEML20vMDNkXzg4bA&ot.et=result&ot.est=serp-result-click&ot.q=Still+Wine+Red+Wine&ot.es=source_serp&ot.nf=95&ot.s=0&ot.r=20&ot.rank=0&ot.sse=7899045e-48b5-4811-ab03-0cdf79dbe9b7"
            },
            "mlt": {
              "sem_url": "/sl/morelikethis?id=SEML20vMDNkXzg4bA",
              "sem_url_action": "/sl/morelikethis?id=SEML20vMDNkXzg4bA&ot.et=mlt&ot.est=mlt&ot.es=source_serp&ot.nf=95&ot.s=0&ot.r=20&ot.rank=0&ot.q=Still+Wine+Red+Wine&ot.sse=7899045e-48b5-4811-ab03-0cdf79dbe9b7"
            }
          }
        }
      }
    ]
  }
}
```

```

"sem_encoded_id": "SEML20vMDNkXzg4bA"},
{
  "wine_producer": "Abundance Vineyards",
  "sem_text_search": ["Abundance Vineyards",
    "United States of America",
    "Red Wine",
    "Lodi AVA",
    "Mencarini Vineyards",
    "2005 Abundance \\"Abundantly Rich Red, Mencarini Vineyards\\" Lodi Zinfandel"],
  "sem_text_suggest": ["Abundance Vineyards",
    "United States of America",
    "Mencarini Vineyards",
    "2005 Abundance \\"Abundantly Rich Red, Mencarini Vineyards\\" Lodi Zinfandel"],
  "sem_suggest_prefix": ["Abundance Vineyards",
    "United States of America",
    "Mencarini Vineyards",
    "2005 Abundance \\"Abundantly Rich Red, Mencarini Vineyards\\" Lodi Zinfandel"],
  "sem_suggest_phrase": ["Abundance Vineyards",
    "United States of America",
    "Mencarini Vineyards",
    "2005 Abundance \\"Abundantly Rich Red, Mencarini Vineyards\\" Lodi Zinfandel"],
  "wine_producer_id": "Abundance Vineyards",
  "wine_sub_region": "San Joaquin County",
  "fruit_source": "Purchased Grapes",
  "country": "United States of America",
  "/common/topic/image": ["RICHRED.jpg"],
  "id": "/m/03brx4k",
  "region": "California",
  "wine_type": "Still Wine",
  "wine_type_facet": "Still Wine",
  "percentage_alcohol": 15.5,
  "color": "Red Wine",
  "sem_grouping": "Red Wine",
  "color_facet": "Red Wine",
  "appellation": "Lodi AVA",
  "appellation_facet": "Lodi AVA",
  "vintage": 2004,
  "vineyard": "Mencarini Vineyards",
  "sem_title": "2005 Abundance \\"Abundantly Rich Red, Mencarini Vineyards\\" Lodi Zinfandel",
  "sem_title_alpha": "2005 Abundance \\"Abundantly Rich Red, Mencarini Vineyards\\" Lodi Zinfandel",
  "sem_url": "http://www.freebase.com/m/03brx4k",
  "sem_record_type": "wine",
  "sem_lang": "tr",
  "sem_timestamp": "2024-06-07T12:19:43.380Z",
  "sem_excerpt": "... 2005 Abundance \\"Abundantly Rich \n<em>Red</em>, Mencarini Vineyards\\" Lodi Zinfandel ... <em>Red</em> \n<em>Wine</em> ... ",
  "color_document": [
    {
      "id": "Red Wine",
      "sem_title": "Red Wine",
      "sem_record_type": "color",
      "sem_url": "http://www.freebase.com/m/02wsb20"}],
  "sem_actions": {
    "default": "goto",
    "goto": {
      "sem_url": "/sl/redirect?url=http%3A%2F%2Fwww.freebase.com%2Fm%2F03brx4k&id=SEML20vMDNkXzg4bA",
      "sem_url_action": "/sl/redirect?url=http%3A%2F%2Fwww.freebase.com%2Fm%2F03brx4k&id=SEML20vMDNkXzg4bA&ot.et=result&ot.est=serp-result-click&ot.q=Still+Wine+Red+Wine&ot.es=source_serp&ot.nf=95&ot.s=0&ot.r=20&ot.rank=1&ot.sse=7899045e-48b5-4811-ab03-0cdf79dbe9b7",
      "sem_url_logging": "/sl/log?url=http%3A%2F%2Fwww.freebase.com%2Fm%2F03brx4k&id=SEML20vMDNkXzg4bA&ot.et=result&ot.est=serp-result-click&ot.q=Still+Wine+Red+Wine&ot.es=source_serp&ot.nf=95&ot.s=0&ot.r=20&ot.rank=1&ot.sse=7899045e-48b5-4811-ab03-0cdf79dbe9b7",
      "sem_is_external": true},
    "fetch": {
      "sem_url": "/sl/record?id=SEML20vMDNkXzg4bA",
      "sem_url_action": "/sl/record?id=SEML20vMDNkXzg4bA&ot.et=result&ot.est=serp-result-click&ot.q=Still+Wine+Red+Wine&ot.es=source_serp&ot.nf=95&ot.s=0&ot.r=20&ot.rank=1&ot.sse=7899045e-48b5-4811-ab03-0cdf79dbe9b7",
      "sem_url_logging": "/sl/log?id=SEML20vMDNkXzg4bA&ot.et=result&ot.est=serp-result-click&ot.q=Still+Wine+Red+Wine&ot.es=source_serp&ot.nf=95&ot.s=0&ot.r=20&ot.rank=1&ot.sse=7899045e-48b5-4811-ab03-0cdf79dbe9b7"},
    "mlt": {
      "sem_url": "/sl/morelikethis?id=SEML20vMDNkXzg4bA",
      "sem_url_action": "/sl/morelikethis?id=SEML20vMDNkXzg4bA&ot.et=mlt&ot.est=mlt&ot.es=source_serp&ot.nf=95&ot.s=0&ot.r=20&ot.rank=1&ot.q=Still+Wine+Red+Wine&ot.sse=7899045e-48b5-4811-ab03-0cdf79dbe9b7"}],
  "sem_encoded_id": "SEML20vMDNkXzg4bA"},
{
  "wine_producer": "Domaine Gabriel Billard",
  "sem_text_search": ["Domaine Gabriel Billard",
    "France",
    "Red Wine",
    "Pommard wine",
    "2005 Domaine Gabriel Billard \\"Milliane\\" Bourgogne Rouge"],
  "sem_text_suggest": ["Domaine Gabriel Billard",
    "France",
    "2005 Domaine Gabriel Billard \\"Milliane\\" Bourgogne Rouge"],
  "sem_suggest_prefix": ["Domaine Gabriel Billard",
    "France",
    "2005 Domaine Gabriel Billard \\"Milliane\\" Bourgogne Rouge"],
  "sem_suggest_phrase": ["Domaine Gabriel Billard",
    "France",
    "2005 Domaine Gabriel Billard \\"Milliane\\" Bourgogne Rouge"],

```

```

"wine_producer_id": "Domaine Gabriel Billard",
"wine_sub_region": "Côte de Beaune",
"country": "France",
"/common/topic/image": ["Gabriel_billard.png"],
"id": "/m/02zznx2",
"region": "Burgundy",
"wine_type": "Still Wine",
"wine_type_facet": "Still Wine",
"percentage_alcohol": 12.5,
"color": "Red Wine",
"sem_grouping": "Red Wine",
"color_facet": "Red Wine",
"appellation": "Pommard wine",
"appellation_facet": "Pommard wine",
"vintage": 2005,
"sem_location": "47.010269, 4.794092",
"sem_location_latlng": "47.010269, 4.794092",
"sem_title": "2005 Domaine Gabriel Billard \\Milliane\\ Bourgogne Rouge",
"sem_title_alpha": "2005 Domaine Gabriel Billard \\Milliane\\ Bourgogne Rouge",
"sem_url": "http://www.freebase.com/m/02zznx2",
"sem_record_type": "wine",
"sem_lang": "fr",
"sem_timestamp": "2024-06-07T12:19:43.380Z",
"sem_excerpt": "... <em>Red</em> \\n<em>Wine</em> ... Pommard \\n<em>wine</em> ... ",
"color_document": [
{
"id": "Red Wine",
"sem_title": "Red Wine",
"sem_record_type": "color",
"sem_url": "http://www.freebase.com/m/02wsb20"}],
"sem_actions": {
"default": "goto",
"goto": {
"sem_url": "/s/redirect?url=http%3A%2F%2Fwww.freebase.com%2Fm%2F02zznx2&id=SEML20vMDJ6em54Mg",
"sem_url_action": "/s/redirect?url=http%3A%2F%2Fwww.freebase.com%2Fm%2F02zznx2&id=SEML20vMDJ6em54Mg&ot.et=result&ot.est=serp-result-
click&ot.q=Still+Wine+Red+Wine&ot.es=source_serp&ot.nf=95&ot.s=0&ot.r=20&ot.rank=2&ot.sse=7899045e-48b5-4811-ab03-0cdf79dbe9b7",
"sem_url_logging": "/s/log?url=http%3A%2F%2Fwww.freebase.com%2Fm%2F02zznx2&id=SEML20vMDJ6em54Mg&ot.et=result&ot.est=serp-result-
click&ot.q=Still+Wine+Red+Wine&ot.es=source_serp&ot.nf=95&ot.s=0&ot.r=20&ot.rank=2&ot.sse=7899045e-48b5-4811-ab03-0cdf79dbe9b7",
"sem_is_external": true},
"fetch": {
"sem_url": "/s/record?id=SEML20vMDJ6em54Mg",
"sem_url_action": "/s/record?id=SEML20vMDJ6em54Mg&ot.et=result&ot.est=serp-result-
click&ot.q=Still+Wine+Red+Wine&ot.es=source_serp&ot.nf=95&ot.s=0&ot.r=20&ot.rank=2&ot.sse=7899045e-48b5-4811-ab03-0cdf79dbe9b7",
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modified&ot.es=source_serp&ot.sse=7899045e-48b5-4811-ab03-0cdf79dbe9b7"}},
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            "count": 43,
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28T16%3A33%3A28Z%7D&ot.et=search&ot.est=filter-modified&ot.es=source_serp&ot.sse=7899045e-48b5-4811-ab03-0cdf79dbe9b7"}},
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"sem_url_action": "?q=Still+Wine+Red+Wine&f.sem_publication_date=sem_publication_date%3A%5B2017-05-28T16%3A33%3A28Z+TO+2017-05-
29T16%3A33%3A28Z%5D&ot.et=search&ot.est=filter-modified&ot.es=source_serp&ot.sse=7899045e-48b5-4811-ab03-0cdf79dbe9b7"}},

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modified&ot.es=source_serp&ot.sse=7899045e-48b5-4811-ab03-0cdf79dbe9b7"}},
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27T16%3A33%3A28Z%7D&ot.et=search&ot.est=filter-modified&ot.es=source_serp&ot.sse=7899045e-48b5-4811-ab03-0cdf79dbe9b7"}},
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28T16%3A33%3A28Z%7D&ot.et=search&ot.est=filter-modified&ot.es=source_serp&ot.sse=7899045e-48b5-4811-ab03-0cdf79dbe9b7"}},
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                "count":51,
                "sem_action":{
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                  "sem_url_action": "?q=Still+Wine+Red+Wine&f.vintage=vintage%3A%5B2005+TO+2010%5D&ot.et=search&ot.est=filter-modified&ot.es=source_serp&ot.sse=7899045e-
48b5-4811-ab03-0cdf79dbe9b7"}},
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                  "* TO 1990":{
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                    "count":1,
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      "adjustedEnd": 2010,
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      "between": 94,
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              "sem_url_action": "?q=Still+Wine+Red+Wine&f.italian_wine_producer_region_hierarchy=producer_region_hierarchy%3AChile&ot.et=search&ot.est=filter-modified&ot.es=source_serp&ot.sse=7899045e-48b5-4811-ab03-0cdf79dbe9b7"}},
            "options": {
              "Cachapoal Province": {
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                  "Burgundy": {
                    "value": "France:Burgundy",
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                      "sem_url_action": "?q=Still+Wine+Red+Wine&f.italian_wine_producer_region_hierarchy=producer_region_hierarchy%3AFrance%5C%3ABurgundy&ot.et=search&ot.est=filter-modified&ot.es=source_serp&ot.sse=7899045e-48b5-4811-ab03-0cdf79dbe9b7"}},

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modified&ot.es=source_serp&ot.sse=7899045e-48b5-4811-ab03-0cdf79dbe9b7"}},
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:"?q=Still+Wine+Red+Wine&f.italian_wine_producer_region_hierarchy=producer_region_hierarchy%3AItaly%5C%3AMontalcino&ot.et=search&ot.est=filter-
modified&ot.es=source_serp&ot.sse=7899045e-48b5-4811-ab03-0cdf79dbe9b7"}},
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      "value": "color_facet:Red\\ Wine",
      "sem_action": {
        "sem_url": "?q=Still+Wine+Red+Wine&f.autofilterexclude.f.color=color_facet%3ARed%5C+Wine",
        "sem_url_action": "?q=Still+Wine+Red+Wine&f.autofilterexclude.f.color=color_facet%3ARed%5C+Wine&ot.et=search&ot.est=filter-modified&ot.es=source_serp&ot.sse=7899045e-48b5-4811-ab03-0cdf79dbe9b7"}},
    "suggested_filters": {},
    "reset_filters": {
      "color": {
        "sem_action": {
          "sem_url": "?q=Still+Wine+Red+Wine&f.autofilterexclude.f.color=color_facet%3ARed%5C+Wine",
          "sem_url_action": "?q=Still+Wine+Red+Wine&f.autofilterexclude.f.color=color_facet%3ARed%5C+Wine&ot.et=search&ot.est=filter-modified&ot.es=source_serp&ot.sse=7899045e-48b5-4811-ab03-0cdf79dbe9b7"}},
        "wine_type": {
          "sem_action": {
            "sem_url": "?q=Still+Wine+Red+Wine&f.autofilterexclude.f.wine_type=wine_type_facet%3AStill%5C+Wine",
            "sem_url_action": "?q=Still+Wine+Red+Wine&f.autofilterexclude.f.wine_type=wine_type_facet%3AStill%5C+Wine&ot.et=search&ot.est=filter-modified&ot.es=source_serp&ot.sse=7899045e-48b5-4811-ab03-0cdf79dbe9b7"}},
          "base_urls": {
            "paging": {
              "sem_url": "?q=Still+Wine+Red+Wine",
              "sem_url_action": "?q=Still+Wine+Red+Wine&ot.et=search&ot.est=paging&ot.es=source_serp&ot.sse=7899045e-48b5-4811-ab03-0cdf79dbe9b7"},
            "repeat_current_search": {
              "sem_url": "?q=Still+Wine+Red+Wine",
              "sem_url_action": "?q=Still+Wine+Red+Wine&ot.et=search&ot.est=normal&ot.es=source_serp&ot.sse=7899045e-48b5-4811-ab03-0cdf79dbe9b7"},
            "remove_sl_params": {
              "sem_url": "?q=Still+Wine+Red+Wine",
              "sem_url_action": "?q=Still+Wine+Red+Wine&ot.et=search&ot.est=normal&ot.es=source_serp&ot.sse=7899045e-48b5-4811-ab03-0cdf79dbe9b7"},
            "search_with_current_state": {
              "sem_url": "?",
              "sem_url_action": "?ot.et=search&ot.est=normal&ot.es=source_serp&ot.sse=7899045e-48b5-4811-ab03-0cdf79dbe9b7"},
            "search_with_empty_state": {
              "sem_url": "?",
              "sem_url_action": "?ot.et=search&ot.est=normal&ot.es=source_serp&ot.sse=7899045e-48b5-4811-ab03-0cdf79dbe9b7"},
            "remove_all_filters": {
              "sem_url": "?q=Still+Wine+Red+Wine",
              "sem_url_action": "?q=Still+Wine+Red+Wine&ot.et=search&ot.est=filter-modified&ot.es=source_serp&ot.sse=7899045e-48b5-4811-ab03-0cdf79dbe9b7"},
            "disable_autofilter": {
              "sem_url": "?q=Still+Wine+Red+Wine&autofilter=false",
              "sem_url_action": "?q=Still+Wine+Red+Wine&autofilter=false&ot.et=search&ot.est=autofilter-modified&ot.es=source_serp&ot.sse=7899045e-48b5-4811-ab03-0cdf79dbe9b7"},
            "reset_autofilter": {
              "sem_url": "?q=Still+Wine+Red+Wine",
              "sem_url_action": "?q=Still+Wine+Red+Wine&ot.et=search&ot.est=autofilter-modified&ot.es=source_serp&ot.sse=7899045e-48b5-4811-ab03-0cdf79dbe9b7"},
            "dont_apply_autofilter": {
              "sem_url": "?q=Still+Wine+Red+Wine&autofilter.apply=false",
              "sem_url_action": "?q=Still+Wine+Red+Wine&autofilter.apply=false&ot.et=search&ot.est=autofilter-modified&ot.es=source_serp&ot.sse=7899045e-48b5-4811-ab03-0cdf79dbe9b7"},
            "disable_geoquery": {

```

```

"sem_url": "?q=Still+Wine+Red+Wine&geoquery=false",
"sem_url_action": "?q=Still+Wine+Red+Wine&geoquery=false&ot.et=search&ot.est=autofilter-modified&ot.es=source_serp&ot.sse=7899045e-48b5-4811-ab03-0cdf79dbe9b7",
"reset_geoquery": {
  "sem_url": "?q=Still+Wine+Red+Wine",
  "sem_url_action": "?q=Still+Wine+Red+Wine&ot.et=search&ot.est=autofilter-modified&ot.es=source_serp&ot.sse=7899045e-48b5-4811-ab03-0cdf79dbe9b7",
"dont_apply_geoquery": {
  "sem_url": "?q=Still+Wine+Red+Wine&geoquery.apply=false",
  "sem_url_action": "?q=Still+Wine+Red+Wine&geoquery.apply=false&ot.et=search&ot.est=autofilter-modified&ot.es=source_serp&ot.sse=7899045e-48b5-4811-ab03-0cdf79dbe9b7",
"paging": {
  "sem_generic_urls": {
    "sem_url": "?q=Still+Wine+Red+Wine",
    "sem_url_action": "?q=Still+Wine+Red+Wine&ot.et=search&ot.est=paging&ot.es=source_serp&ot.sse=7899045e-48b5-4811-ab03-0cdf79dbe9b7",
  "sem_next_page_urls": {
    "sem_url": "?q=Still+Wine+Red+Wine&start=20",
    "sem_url_action": "?q=Still+Wine+Red+Wine&ot.et=search&ot.est=paging&ot.es=source_serp&ot.sse=7899045e-48b5-4811-ab03-0cdf79dbe9b7&start=20",
"responseHeader": {
  "semQTime": 65,
  "QTime": 15,
  "semStatus": 0,
  "status": 0,
  "params": {
    "q": "Still Wine Red Wine",
    "sph.fq": "sem_record_type:\\wine\\",
    "sph.rows": "20",
    "json.nl": "arrmap"
  }
}

```

A.2. Full auto-complete response

Example of a full autocomplete response (v2.0.0)

```

{
  "response": {
    "autocomplete": {
      "suggestions": [
        {
          "suggestion": "brunet",
          "hits": 2,
          "sem_action": {
            "sem_url": "?q=brunet",
            "sem_url_action": "?q=brunet&ot.et=search&ot.est=suggest-term-select&ot.es=source_autocomplete&ot.orig=Brune&ot.sg=brunet&ot.sgidx=0&ot.sse=05ddaa43-de52-4363-9d16-1bf4e1d0915f",
          },
          {
            "suggestion": "brunet jehanne",
            "hits": 1,
            "sem_action": {
              "sem_url": "?q=brunet+jehanne",
              "sem_url_action": "?q=brunet+jehanne&ot.et=search&ot.est=suggest-term-select&ot.es=source_autocomplete&ot.orig=Brune&ot.sg=brunet+jehanne&ot.sgidx=1&ot.sse=05ddaa43-de52-4363-9d16-1bf4e1d0915f",
            },
            {
              "suggestion": "brunet jehanne de",
              "hits": 1,
              "sem_action": {
                "sem_url": "?q=brunet+jehanne+de",
                "sem_url_action": "?q=brunet+jehanne+de&ot.et=search&ot.est=suggest-term-select&ot.es=source_autocomplete&ot.orig=Brune&ot.sg=brunet+jehanne+de&ot.sgidx=2&ot.sse=05ddaa43-de52-4363-9d16-1bf4e1d0915f",
              },
              {
                "suggestion": "brunet jehanne de chantal",
                "hits": 1,
                "sem_action": {
                  "sem_url": "?q=brunet+jehanne+de+chantal",
                  "sem_url_action": "?q=brunet+jehanne+de+chantal&ot.et=search&ot.est=suggest-term-select&ot.es=source_autocomplete&ot.orig=Brune&ot.sg=brunet+jehanne+de+chantal&ot.sgidx=3&ot.sse=05ddaa43-de52-4363-9d16-1bf4e1d0915f",
                }
              }
            }
          ],
      "prefetchedResults": {
        "response": {
          "numFound": 1,
          "start": 0,
          "numFoundExact": true,
          "docs": [
            {
              "id": "/en/2004_domaine_prieur_brunet_jehanne_de_chantal",
              "sem_title": "2004 Domaine Prieur Brunet Jehanne de Chantal",
              "sem_url": "http://www.freebase.com/m/02yx9dn",
              "sem_excerpt": "... 2004 Domaine Prieur \n<em>Brunet</em> Jehanne de Chantal ... Domaine Prieur-\n<em>Brunet</em> ... ",
              "sem_actions": {
                "default": "goto",
                "goto": {
                  "sem_url": "/sl/redirect?url=http%3A%2F%2Fwww.freebase.com%2Fm%2F02yx9dn&id=SEML2VuLzIwMDRfZG9tYWluZV9wcmllXJfYnJ1bmV0X2plaGfubmVfZGVfY2hhbnRhbA",
                  "sem_url_action":
: "/sl/redirect?url=http%3A%2F%2Fwww.freebase.com%2Fm%2F02yx9dn&id=SEML2VuLzIwMDRfZG9tYWluZV9wcmllXJfYnJ1bmV0X2plaGfubmVfZGVfY2hhbnRhbA&ot.et=result&ot.est=suggest-result-click&ot.sg=brunet&ot.orig=Brune&ot.es=source_autocomplete&ot.nf=1&ot.s=0&ot.r=20&ot.rank=0&ot.sse=05ddaa43-de52-4363-9d16-1bf4e1d0915f",
                }
              },
              "sem_url_logging"
: "/sl/log?url=http%3A%2F%2Fwww.freebase.com%2Fm%2F02yx9dn&id=SEML2VuLzIwMDRfZG9tYWluZV9wcmllXJfYnJ1bmV0X2plaGfubmVfZGVfY2hhbnRhbA&ot.et=result&ot.est=suggest-result-click&ot.sg=brunet&ot.orig=Brune&ot.es=source_autocomplete&ot.nf=1&ot.s=0&ot.r=20&ot.rank=0&ot.sse=05ddaa43-de52-4363-9d16-1bf4e1d0915f",
            }
          ]
        }
      }
    }
  }
}

```

```
"sem_is_external":true},
"fetch":{
  "sem_url":"/sl/record?id=SEML2VuLzIwMDRfZG9tYWluZV9wcmldXJfYnJ1bmV0X2plaGFubmVfZGVfY2hhbnRhbA",
  "sem_url_action":"/sl/record?id=SEML2VuLzIwMDRfZG9tYWluZV9wcmldXJfYnJ1bmV0X2plaGFubmVfZGVfY2hhbnRhbA&ot.et=result&ot.est=suggest-result-
click&ot.sg=brunet&ot.orig=Brune&ot.es=source_autocomplete&ot.nf=1&ot.s=0&ot.r=20&ot.rank=0&ot.sse=05ddaa43-de52-4363-9d16-1bf4e1d0915f",
  "sem_url_logging":"/sl/log?id=SEML2VuLzIwMDRfZG9tYWluZV9wcmldXJfYnJ1bmV0X2plaGFubmVfZGVfY2hhbnRhbA&ot.et=result&ot.est=suggest-result-
click&ot.sg=brunet&ot.orig=Brune&ot.es=source_autocomplete&ot.nf=1&ot.s=0&ot.r=20&ot.rank=0&ot.sse=05ddaa43-de52-4363-9d16-1bf4e1d0915f"},
  "mlt":{
    "sem_url":"/sl/morelikethis?id=SEML2VuLzIwMDRfZG9tYWluZV9wcmldXJfYnJ1bmV0X2plaGFubmVfZGVfY2hhbnRhbA",
    "sem_url_action":
"/sl/morelikethis?id=SEML2VuLzIwMDRfZG9tYWluZV9wcmldXJfYnJ1bmV0X2plaGFubmVfZGVfY2hhbnRhbA&ot.et=mlt&ot.est=mlt&ot.es=source_autocomplete&ot.nf=1&ot.s=0&ot.r=20&ot
.rank=0&ot.q=brunet&ot.sse=05ddaa43-de52-4363-9d16-1bf4e1d0915f&ot.orig=Brune"}},
  "sem_encoded_id":"SEML2VuLzIwMDRfZG9tYWluZV9wcmldXJfYnJ1bmV0X2plaGFubmVfZGVfY2hhbnRhbA"}}}
},
"geoquery":{
  "enable":true,
  "match":false,
  "apply":true,
  "totalTime":0,
  "QTime":2,
  "prefetchTime":0,
  "prefetchCount":0},
"autofilter":{
  "enable":true,
  "apply":true,
  "matches":[]},
"spelling":{
  "suggestions":[{"
    "suggestion":"bruno",
    "hits":"1",
    "sem_action":{
      "sem_url":"?q=bruno",
      "sem_url_action":"?q=bruno&ot.et=search&ot.est=spell-term-select&ot.es=source_serp&ot.orig=brunet&ot.sg=bruno&ot.sgidx=0&ot.sse=05ddaa43-de52-4363-
9d16-1bf4e1d0915f"}},
    {
      "suggestion":"brut",
      "hits":"1",
      "sem_action":{
        "sem_url":"?q=brut",
        "sem_url_action":"?q=brut&ot.et=search&ot.est=spell-term-select&ot.es=source_serp&ot.orig=brunet&ot.sg=brut&ot.sgidx=18&ot.sse=05ddaa43-de52-4363-9d16-
1bf4e1d0915f"}},
    {
      "context":{
        "processedSearchTerms":"brunet",
        "originalSearchTerms":"brunet",
        "matchedTerms":[],
        "fallbackOperator":"DEFAULT"},
      "term":"brunet",
      "sem_action":{
        "sem_url":"?q=brunet&indent=true&term=Brune",
        "sem_url_action":"?q=brunet&indent=true&term=Brune&ot.et=search&ot.est=normal&ot.es=source_serp&ot.sse=05ddaa43-de52-4363-9d16-1bf4e1d0915f"}},
    }
  ],
  "responseHeader":{
    "semQTime":18,
    "QTime":1,
    "semStatus":0,
    "status":0,
    "params":{
      "q":"brunet",
      "indent":"true",
      "sph.fl":"id, sem_title, sem_url",
      "sph.fq":"sem_record_type:\\\"wine\\\"",
      "sph.rows":"20",
      "term":"Brune",
      "json.nl":"arrmap"}}}}
```

A.3. Full more like this response

Example of a full more like this response (v2.0.0)

```
{
  "autofilter":{
    "enable":false,
    "response":{"numFound":3,"start":0,"maxScore":3.1117635,"numFoundExact":true,"docs":[
      {
        "wine_producer":"Domaine Gabriel Billard",
        "sem_text_search":["Domaine Gabriel Billard",
          "France",
          "Red Wine",
          "Pommard wine",
          "2005 Domaine Gabriel Billard  \Milliane\  Bourgogne Rouge"],
        "sem_text suggest":["Domaine Gabriel Billard",
```

```

"France",
"2005 Domaine Gabriel Billard \Milliane\ Bourgogne Rouge"],
"sem_suggest_prefix":["Domaine Gabriel Billard",
"France",
"2005 Domaine Gabriel Billard \Milliane\ Bourgogne Rouge"],
"sem_suggest_phrase":["Domaine Gabriel Billard",
"France",
"2005 Domaine Gabriel Billard \Milliane\ Bourgogne Rouge"],
"wine_producer_id":"Domaine Gabriel Billard",
"wine_sub_region":"Côte de Beaune",
"country":"France",
"/common/topic/image":["Gabriel_billard.png"],
"id":"/m/02zznx2",
"region":"Burgundy",
"wine_type":"Still Wine",
"wine_type_facet":"Still Wine",
"percentage_alcohol":12.5,
"color":"Red Wine",
"sem_grouping":"Red Wine",
"color_facet":"Red Wine",
"appellation":"Pommard wine",
"appellation_facet":"Pommard wine",
"vintage":2005,
"sem_location":"47.010269, 4.794092",
"sem_location_latlng":"47.010269, 4.794092",
"sem_title":"2005 Domaine Gabriel Billard \Milliane\ Bourgogne Rouge",
"sem_title_alpha":"2005 Domaine Gabriel Billard \Milliane\ Bourgogne Rouge",
"sem_url":"http://www.freebase.com/m/02zznx2",
"sem_record_type":"wine",
"sem_lang":"fr",
"sem_timestamp":"2024-06-07T12:19:43.380Z",
"score":3.1117635,
"color_document":[
{
"id":"Red Wine",
"sem_title":"Red Wine",
"sem_record_type":"color",
"sem_url":"http://www.freebase.com/m/02wsb20"}],
"sem_actions":{
"default":"goto",
"goto":{
"sem_url":"/sl/redirect?url=http%3A%2F%2Fwww.freebase.com%2Fm%2F02zznx2&id=SEML20vMDJ6em54Mg",
"sem_url_action":"/sl/redirect?url=http%3A%2F%2Fwww.freebase.com%2Fm%2F02zznx2&id=SEML20vMDJ6em54Mg&ot.et=result&ot.est=serp-result-
click&ot.q=id%3A%28%22Domaine+Prieur-Brunet%22+%22Domaine+Gabriel+Billard%22+%22Domaine+Daniel+Rion%22+%22Domaine+de+la+Roman%C3%A9-
Conti%22+%22%2Fm%2F02zznx2%22+%22%2Fm%2F03ggy82%22+%22%2Fen%2F1999_domaine_romanee_conti_la_tache%22%29&ot.es=source_serp&ot.nf=3&ot.s=0&ot.r=20&ot.rank=0&ot.sse=cc
260008-5d4b-4cd0-be5e-e43296ffa3d5",
"sem_url_logging":"/sl/log?url=http%3A%2F%2Fwww.freebase.com%2Fm%2F02zznx2&id=SEML20vMDJ6em54Mg&ot.et=result&ot.est=serp-result-
click&ot.q=id%3A%28%22Domaine+Prieur-Brunet%22+%22Domaine+Gabriel+Billard%22+%22Domaine+Daniel+Rion%22+%22Domaine+de+la+Roman%C3%A9-
Conti%22+%22%2Fm%2F02zznx2%22+%22%2Fm%2F03ggy82%22+%22%2Fen%2F1999_domaine_romanee_conti_la_tache%22%29&ot.es=source_serp&ot.nf=3&ot.s=0&ot.r=20&ot.rank=0&ot.sse=cc
260008-5d4b-4cd0-be5e-e43296ffa3d5",
"sem_is_external":true},
"fetch":{
"sem_url":"/sl/record?id=SEML20vMDJ6em54Mg",
"sem_url_action":"/sl/record?id=SEML20vMDJ6em54Mg&ot.et=result&ot.est=serp-result-click&ot.q=id%3A%28%22Domaine+Prieur-
Brunet%22+%22Domaine+Gabriel+Billard%22+%22Domaine+Daniel+Rion%22+%22Domaine+de+la+Roman%C3%A9-
Conti%22+%22%2Fm%2F02zznx2%22+%22%2Fm%2F03ggy82%22+%22%2Fen%2F1999_domaine_romanee_conti_la_tache%22%29&ot.es=source_serp&ot.nf=3&ot.s=0&ot.r=20&ot.rank=0&ot.sse=cc
260008-5d4b-4cd0-be5e-e43296ffa3d5",
"sem_url_logging":"/sl/log?id=SEML20vMDJ6em54Mg&ot.et=result&ot.est=serp-result-click&ot.q=id%3A%28%22Domaine+Prieur-
Brunet%22+%22Domaine+Gabriel+Billard%22+%22Domaine+Daniel+Rion%22+%22Domaine+de+la+Roman%C3%A9-
Conti%22+%22%2Fm%2F02zznx2%22+%22%2Fm%2F03ggy82%22+%22%2Fen%2F1999_domaine_romanee_conti_la_tache%22%29&ot.es=source_serp&ot.nf=3&ot.s=0&ot.r=20&ot.rank=0&ot.sse=cc
260008-5d4b-4cd0-be5e-e43296ffa3d5"},
"mlt":{
"sem_url":"/sl/morelikethis?id=SEML20vMDJ6em54Mg",
"sem_url_action":
"/sl/morelikethis?id=SEML20vMDJ6em54Mg&ot.et=mlt&ot.est=mlt&ot.es=source_serp&ot.nf=3&ot.s=0&ot.r=20&ot.rank=0&ot.q=id%3A%28%22Domaine+Prieur-
Brunet%22+%22Domaine+Gabriel+Billard%22+%22Domaine+Daniel+Rion%22+%22Domaine+de+la+Roman%C3%A9-
Conti%22+%22%2Fm%2F02zznx2%22+%22%2Fm%2F03ggy82%22+%22%2Fen%2F1999_domaine_romanee_conti_la_tache%22%29&ot.sse=cc260008-5d4b-4cd0-be5e-e43296ffa3d5"}},
"sem_encoded_id":"SEML20vMDJ6em54Mg"},
{
"wine_producer":"Domaine de la Romanée-Conti",
"sem_text_search":["Domaine de la Romanée-Conti",
"France",
"Red Wine",
"Vosne-Romanée",
"La Tâche AOC",
"1999 Domaine Romanee Conti La Tache"],
"sem_text_suggest":["Domaine de la Romanée-Conti",
"France",
"La Tâche AOC",
"1999 Domaine Romanee Conti La Tache"],
"sem_suggest_prefix":["Domaine de la Romanée-Conti",
"France",
"La Tâche AOC",
"1999 Domaine Romanee Conti La Tache"],
"sem_suggest_phrase":["Domaine de la Romanée-Conti",
"France",
"La Tâche AOC",
"1999 Domaine Romanee Conti La Tache"],

```

```

"wine_producer_id": "Domaine de la Romanée-Conti",
"wine_sub_region": "Côte de Nuits",
"wine_style": ["Red Burgundy"],
"wine_style_facet": "Red Burgundy",
"fruit_source": "Producer owned",
"country": "France",
"/common/topic/image": ["DRC99LaTache.JPG"],
"id": "/en/1999_domaine_romanee_conti_la_tache",
"region": "Burgundy",
"wine_type": "Still Wine",
"wine_type_facet": "Still Wine",
"percentage_alcohol": 13.5,
"color": "Red Wine",
"sem_grouping": "Red Wine",
"color_facet": "Red Wine",
"appellation": "Vosne-Romanée",
"appellation_facet": "Vosne-Romanée",
"vintage_hierarchy": "Old:1999",
"vintage": 1999,
"vineyard": "La Tâche AOC",
"sem_location": "47.161664, 4.955435",
"sem_location_latlng": "47.161664, 4.955435",
"sem_publication_date": "2017-05-29T16:33:28.258Z",
"sem_opening_hours": ["1701010000 2501010000"],
"sem_title": "1999 Domaine Romanee Conti La Tache",
"sem_title_alpha": "1999 Domaine Romanee Conti La Tache",
"sem_record_type": "wine",
"sem_lang": "it",
"sem_timestamp": "2024-06-07T12:19:43.380Z",
"score": 3.1117635,
"color_document": [
  {
    "id": "Red Wine",
    "sem_title": "Red Wine",
    "sem_record_type": "color",
    "sem_url": "http://www.freebase.com/m/02wsb20"}],
"sem_actions": {
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modified&ot.es=source_serp&ot.sse=cc260008-5d4b-4cd0-be5e-e43296ffa3d5"}},
"reset_autofilter":{
"sem_url": "?id=SEML2VuLzIwMDRfZG9tYWluZV9wcmllldXJfYnJ1bmV0X2plaGFubmVfZGVfY2hhbnRhbA&indent=true",
"sem_url_action": "?id=SEML2VuLzIwMDRfZG9tYWluZV9wcmllldXJfYnJ1bmV0X2plaGFubmVfZGVfY2hhbnRhbA&indent=true&ot.et=search&ot.est=autofilter-
modified&ot.es=source_serp&ot.sse=cc260008-5d4b-4cd0-be5e-e43296ffa3d5"}},
"dont_apply_autofilter":{
"sem_url": "?id=SEML2VuLzIwMDRfZG9tYWluZV9wcmllldXJfYnJ1bmV0X2plaGFubmVfZGVfY2hhbnRhbA&indent=true&autofilter.apply=false",
"sem_url_action": "?id=SEML2VuLzIwMDRfZG9tYWluZV9wcmllldXJfYnJ1bmV0X2plaGFubmVfZGVfY2hhbnRhbA&indent=true&autofilter.apply=false&ot.et=search&ot.est=autofilter-
modified&ot.es=source_serp&ot.sse=cc260008-5d4b-4cd0-be5e-e43296ffa3d5"}},
"disable_geoquery":{
"sem_url": "?id=SEML2VuLzIwMDRfZG9tYWluZV9wcmllldXJfYnJ1bmV0X2plaGFubmVfZGVfY2hhbnRhbA&indent=true&q=id%3A%28%22Domaine+Prieur-
Brunet%22+%22Domaine+Gabriel+Billard%22+%22Domaine+Daniel+Rion%22+%22Domaine+de+la+Roman%C3%A9-
Conti%22+%22%2Fm%2F02zznx%22+%22%2Fm%2F03ggy82%22+%22%2Fen%2F1999_domaine_romanee_conti_la_tache%22%29&fl=score%2C*&geoquery=false",
"sem_url_action": "?id=SEML2VuLzIwMDRfZG9tYWluZV9wcmllldXJfYnJ1bmV0X2plaGFubmVfZGVfY2hhbnRhbA&indent=true&q=id%3A%28%22Domaine+Prieur-
Brunet%22+%22Domaine+Gabriel+Billard%22+%22Domaine+Daniel+Rion%22+%22Domaine+de+la+Roman%C3%A9-
Conti%22+%22%2Fm%2F02zznx%22+%22%2Fm%2F03ggy82%22+%22%2Fen%2F1999_domaine_romanee_conti_la_tache%22%29&fl=score%2C*&geoquery=false&ot.et=search&ot.est=autofilter-
modified&ot.es=source_serp&ot.sse=cc260008-5d4b-4cd0-be5e-e43296ffa3d5"}},
"reset_geoquery":{
"sem_url": "?id=SEML2VuLzIwMDRfZG9tYWluZV9wcmllldXJfYnJ1bmV0X2plaGFubmVfZGVfY2hhbnRhbA&indent=true&q=id%3A%28%22Domaine+Prieur-
Brunet%22+%22Domaine+Gabriel+Billard%22+%22Domaine+Daniel+Rion%22+%22Domaine+de+la+Roman%C3%A9-
Conti%22+%22%2Fm%2F02zznx%22+%22%2Fm%2F03ggy82%22+%22%2Fen%2F1999_domaine_romanee_conti_la_tache%22%29&fl=score%2C*",
"sem_url_action": "?id=SEML2VuLzIwMDRfZG9tYWluZV9wcmllldXJfYnJ1bmV0X2plaGFubmVfZGVfY2hhbnRhbA&indent=true&q=id%3A%28%22Domaine+Prieur-
Brunet%22+%22Domaine+Gabriel+Billard%22+%22Domaine+Daniel+Rion%22+%22Domaine+de+la+Roman%C3%A9-
Conti%22+%22%2Fm%2F02zznx%22+%22%2Fm%2F03ggy82%22+%22%2Fen%2F1999_domaine_romanee_conti_la_tache%22%29&fl=score%2C*&ot.et=search&ot.est=autofilter-
modified&ot.es=source_serp&ot.sse=cc260008-5d4b-4cd0-be5e-e43296ffa3d5"}},
"dont_apply_geoquery":{
"sem_url": "?id=SEML2VuLzIwMDRfZG9tYWluZV9wcmllldXJfYnJ1bmV0X2plaGFubmVfZGVfY2hhbnRhbA&indent=true&q=id%3A%28%22Domaine+Prieur-
Brunet%22+%22Domaine+Gabriel+Billard%22+%22Domaine+Daniel+Rion%22+%22Domaine+de+la+Roman%C3%A9-
Conti%22+%22%2Fm%2F02zznx%22+%22%2Fm%2F03ggy82%22+%22%2Fen%2F1999_domaine_romanee_conti_la_tache%22%29&fl=score%2C*&geoquery.apply=false",
"sem_url_action": "?id=SEML2VuLzIwMDRfZG9tYWluZV9wcmllldXJfYnJ1bmV0X2plaGFubmVfZGVfY2hhbnRhbA&indent=true&q=id%3A%28%22Domaine+Prieur-
Brunet%22+%22Domaine+Gabriel+Billard%22+%22Domaine+Daniel+Rion%22+%22Domaine+de+la+Roman%C3%A9-
Conti%22+%22%2Fm%2F02zznx%22+%22%2Fm%2F03ggy82%22+%22%2Fen%2F1999_domaine_romanee_conti_la_tache%22%29&fl=score%2C*&geoquery.apply=false&ot.et=search&ot.est=autofi
lter-modified&ot.es=source_serp&ot.sse=cc260008-5d4b-4cd0-be5e-e43296ffa3d5"}},
"responseHeader":{
"semQTime":107,
"QTime":38,
"semStatus":0,
"status":0,
"params":{
"id":"SEML2VuLzIwMDRfZG9tYWluZV9wcmllldXJfYnJ1bmV0X2plaGFubmVfZGVfY2hhbnRhbA",
"indent":"true",
"sph.fq":"sem_record_type:\\\"wine\\\" ",
"sph.rows":"20",
"q":"id:(\\\"Domaine Prieur-Brunet\\\" \\\"Domaine Gabriel Billard\\\" \\\"Domaine Daniel Rion\\\" \\\"Domaine de la Romanée-Conti\\\" \\\"/m/02zznx\\\" \\\"/m/03ggy82\\\"
\\\"/en/1999_domaine_romanee_conti_la_tache\\\")",
"fl":"score,*",
"json.nl":"arrmap"}}}}

```

Appendix B: Semanteer configuration file

```
{
  "collections": {
    "empty": {
      "solrUrl": "http://localhost:8035/solr/empty",
      "monitoringSolrUrl": "http://localhost:8035/solr/sem_monitoring_core_empty",
      "analyticsSolrUrl": "http://localhost:8035/solr/sem_monitoring_core_empty"
    },
    "wines": {
      "solrUrl": "http://localhost:8035/solr/winedemo",
      "monitoringSolrUrl": "http://localhost:8035/solr/sem_monitoring_core",
      "analyticsSolrUrl": "http://localhost:8035/solr/sem_monitoring_core"
    }
  },
  "properties": {
    "search.config.autocomplete": "autocomplete",
    "search.config.autocomplete.config": "autocomplete.ungrouped",
    "search.config.autocomplete.highlight": true,
    "search.config.autocomplete.lasttermquery": true,
    "search.config.autocomplete.maxsuggestions": 5,
    "search.config.autocomplete.response": "response",
    "search.config.autocomplete.prefetchedResults": "prefetchedResults",
    "search.config.autocomplete.prefetchResults": true,
    "search.config.autocomplete.sortsuggestions": "natural",
    "search.config.autocomplete.spellcheckresults": true,
    "search.config.autocomplete.suggestions": true,
    "search.config.caching.solr": false,
    "search.config.field.id": "id",
    "search.config.field.similarity": "sem_similarity",
    "search.config.field.thumbnail": "sem_image_thumbnail_url",
    "search.config.field.title": "sem_title",
    "search.config.field.url": "sem_url",
    "search.config.fields.exclude": "_version_",
    "search.config.fields.noncontent": "id,sem_image_thumbnail_url,sem_url,sem_title",
    "search.config.geoquery.parallel": false,
    "search.config.mlt.doctype.field": "sem_record_type",
    "search.config.mlt.similarityfields": "sem_text_search",
    "search.config.monitoring": true,
    "search.config.operator": "default",
    "search.config.operator.and.mincount": 1,
    "search.config.result.field.url": "sem_url",
    "search.config.suggester": "prefix,suggest_prefix",
    "search.config.suggest.prefix": "sem_text_suggest",
    "search.config.suggest.prefix.fq": "sem_record_type:wine",
    "search.config.urls.base_url": "http://search-features.demos.contextity.ch/sl/",
    "search.config.urls.mlt_urls.mode": "full_path",
    "search.config.urls.result_urls.mode": "full_path",
    "search.config.urls.search_urls.mode": "no_path"
  },
  "configurations": {
    "base": {
      "requestParams": {
        "appends": [
          {
            "name": "sph.fq",
            "value": "sem_record_type:\"wine\""
          }
        ],
        "invariants": [
          {
            "name": "sph.rows",
            "value": "20"
          }
        ]
      }
    },
    "base_geoquery_autofilter": {
      "extends": [
        {
          "configuration": "base",
          "mode": "merge"
        }
      ],
      "components": [
        {
          "type": "AutofilterSearchLayerComponent",
          "autofilterApplied": true,
          "mode": "filter",
          "omitTermsMatchingMultipleFields": false,
          "omitUnknownFields": true,
          "applyFirstFieldMatchOnly": false,
          "mappings": {
```

```

    "vintage_facet": "vintage_hierarchy"
  }
},
{
  "type": "GeoQueryComponent",
  "qf": "sem_geo_title",
  "fq": "sem_record_type:sem_geo",
  "prefetch": true,
  "geoqueryApplied": true,
  "distErrPct": 0.01,
  "configurations": [
    {
      "default": {
        "shapefield": "sem_geo_object",
        "titlefield": "sem_geo_title",
        "searchfields": [
          "sem_location"
        ]
      }
    },
    {
      "field": "sem_record_type",
      "values": {
        "sem_geo": {
          "subtypes": {
            "field": "sem_record_subtype",
            "values": {
              "region": {
                "shapefield": "sem_geo_object",
                "mode": "filter"
              },
              "city": {
                "shapefield": "sem_geo_object",
                "mode": "filter",
                "params": [
                  30.0
                ]
              }
            }
          }
        },
        "default": {
          "shapefield": "sem_geo_object",
          "mode": "filter",
          "params": [
            5.0
          ]
        }
      }
    }
  ]
},
{
  "autocomplete": {
    "extends": [
      {
        "configuration": "base_geoquery_autofilter",
        "mode": "merge"
      }
    ],
    "requestParams": {
      "defaults": [
        {
          "name": "sph.fl",
          "value": "id, sem_title, sem_url"
        }
      ]
    }
  },
  "autocomplete.ungrouped": {
    "extends": [
      {
        "configuration": "autocomplete",
        "mode": "merge"
      }
    ]
  },
  "autocomplete.grouped": {
    "extends": [
      {
        "configuration": "autocomplete",
        "mode": "merge"
      }
    ]
  },
  "components": [
    {
      "type": "GroupFieldComponent",

```

```

        "componentName": "color",
        "fieldName": "color_facet",
        "groupLimit": "5"
    },
    {
        "type": "FacetFieldComponent",
        "componentName": "color",
        "fieldName": "color_facet"
    }
],
"default": {
    "extends": [
        {
            "configuration": "base_geoquery_autofilter",
            "mode": "merge"
        }
    ],
    "components": [
        {
            "type": "FacetPivotComponent",
            "componentName": "region",
            "fieldNames": [
                "country_facet",
                "region_facet",
                "wine_sub_region_facet"
            ],
            "uiLabel": "Region",
            "uiOrder": 0,
            "uiShow": true,
            "uiOpen": true,
            "minCount": 1,
            "multiSelect": false,
            "sortBy": "index",
            "useExclusiveSetAction": true,
            "excludeOwnFilters": true
        },
        {
            "type": "SortingComponent",
            "sortableFields": [
                "sem_title_alpha",
                "appellation",
                "vineyard"
            ]
        },
        {
            "type": "IntegerRangeComponent",
            "componentName": "vintage",
            "fieldName": "vintage",
            "uiLabel": "Vintage",
            "uiOrder": 5,
            "uiShow": true,
            "uiType": "chart",
            "start": 1970,
            "end": 2010,
            "gap": 5,
            "prune": true,
            "multiSelect": true,
            "multiSelectMode": "OR",
            "excludeOwnFilters": true
        },
        {
            "type": "FacetFieldComponent",
            "componentName": "color",
            "fieldName": "color_facet",
            "uiLabel": "Color",
            "uiOrder": 10,
            "uiShow": true,
            "uiType": "badges",
            "minCount": 1,
            "multiSelect": true,
            "multiSelectMode": "OR",
            "addMissingFilter": false,
            "excludeAllFilters": false,
            "excludeOwnFilters": true,
            "useExclusiveSetAction": true
        },
        {
            "type": "FacetFieldComponent",
            "componentName": "vineyard",
            "fieldName": "vineyard_facet",
            "uiLabel": "Vineyard",
            "minCount": 1,
            "multiSelect": true,
            "excludeOwnFilters": true,
            "excludeAllFilters": false,
            "useExclusiveSetAction": false
        }
    ],
},

```

```

{
  "type": "FacetFieldComponent",
  "componentName": "wine_producer",
  "fieldName": "wine_producer_facet",
  "uiLabel": "Producer",
  "minCount": 1,
  "multiSelect": true,
  "excludeOwnFilters": false,
  "excludeAllFilters": false,
  "useExclusiveSetAction": false
},
{
  "type": "FacetFieldComponent",
  "componentName": "wine_style",
  "uiLabel": "Wine style",
  "minCount": 1,
  "fieldName": "wine_style_facet",
  "dependsOnAny": [
    {
      "component": "color",
      "value": "Red\\ Wine"
    },
    {
      "component": "color",
      "value": "White\\ Wine"
    }
  ]
},
{
  "type": "FacetFieldComponent",
  "componentName": "wine_type",
  "uiLabel": "Wine type",
  "fieldName": "wine_type_facet",
  "minCount": 1,
  "sortBy": "index",
  "multiSelect": false,
  "excludeOwnFilters": true,
  "excludeAllFilters": false,
  "useExclusiveSetAction": true
},
{
  "type": "FloatRangeComponent",
  "componentName": "alcohol",
  "fieldName": "percentage_alcohol",
  "uiLabel": "Alcohol",
  "uiOrder": 15,
  "uiShow": true,
  "uiType": "slider",
  "start": 10,
  "end": 20,
  "gap": 1,
  "prune": true,
  "minCount": 1,
  "multiSelect": false,
  "excludeOwnFilters": false,
  "excludeAllFilters": true
},
{
  "type": "DateRangeComponent",
  "componentName": "date",
  "fieldName": "sem_timestamp",
  "minCount": 101,
  "gap": "+7DAY",
  "multiSelect": false
},
{
  "type": "DateRangeComponent",
  "componentName": "sem_publication_date",
  "fieldName": "sem_publication_date",
  "uiLabel": "Publication date",
  "uiOrder": 100,
  "gap": "+1DAY",
  "multiSelect": true,
  "excludeOwnFilters": true
},
{
  "type": "FacetQueryComponent",
  "componentName": "custom_geoqueries",
  "queries": {
    "nearby": "{!geofilt pt=${pt} sfield=sem_location d=0.2}"
  },
  "excludeOwnFilters": true,
  "excludeAllFilters": false,
  "multiSelect": true,
  "multiSelectMode": "OR",
  "useExclusiveSetAction": true
},
{

```

```

    "type": "FacetQueryComponent",
    "componentName": "custom_queries",
    "uiLabel": "Custom queries",
    "uiOrder": 20,
    "uiShow": true,
    "uiType": "boolean",
    "queries": {
      "old_american": "country_facet:'United States of America' AND vintage:[0 TO 1999]",
      "open": "sem_opening_hours:\\"Intersects(ENVELOPE(1501010000,{getNowAsOccurrence()}),2512122359,{getNowAsOccurrence()}))\\"
    },
    "excludeOwnFilters": true,
    "excludeAllFilters": false,
    "multiSelect": true,
    "multiSelectMode": "OR",
    "addNegations": true,
    "useExclusiveSetAction": true
  },
  {
    "type": "FacetChildDocFieldComponent",
    "componentName": "review_rating",
    "fieldName": "rating",
    "uiLabel": "Reviews",
    "uiOrder": 25,
    "uiShow": true,
    "uiType": "boolean",
    "parentDocs": "sem_record_type:wine",
    "excludeOwnFilters": true,
    "minCount": 1
  },
  {
    "type": "JsonFacetFieldComponent",
    "componentName": "italian_wine_producer_region",
    "fieldName": "producer_region",
    "domainJoinFrom": "wine_producer_facet",
    "domainJoinTo": "id",
    "domainFilter": "sem_record_type:producer AND producer_country:Italy",
    "excludeOwnFilters": true,
    "excludeAllFilters": false,
    "useExclusiveSetAction": false,
    "multiSelect": true,
    "multiSelectMode": "OR",
    "addMissingFilters": true
  },
  {
    "type": "JsonFacetHierarchyComponent",
    "componentName": "italian_wine_producer_region_hierarchy",
    "fieldName": "producer_region_hierarchy",
    "domainJoinFrom": "wine_producer_facet",
    "domainJoinTo": "id",
    "domainFilter": "sem_record_type:producer",
    "divider": ":",
    "excludeOwnFilters": true,
    "excludeAllFilters": false,
    "useExclusiveSetAction": false,
    "multiSelect": true,
    "multiSelectMode": "OR",
    "exclusiveSetInBranch": false
  },
  {
    "type": "PostProcessComponent",
    "configurations": [
      {
        "target": "color_document",
        "source": "color",
        "qf": "id",
        "result": "documents",
        "requestParams": {
          "rows": "50",
          "fl": "id,sem_title,sem_url,sem_record_type",
          "fq": "sem_record_type:color"
        }
      }
    ]
  },
  "preparedQueries": {
    "oldwines": [
      {
        "name": "q",
        "value": "*:*"
      },
      {
        "name": "sph.fq",
        "value": "vintage:[* TO 1995]"
      },
      {
        "name": "rows",
        "value": "10"
      }
    ]
  }
}

```

```

    }
  }
},
"grouped": {
  "extends": [
    {
      "configuration": "default",
      "mode": "merge"
    }
  ],
  "components": [
    {
      "type": "GroupFieldComponent",
      "componentName": "color",
      "fieldName": "color_facet",
      "groupLimit": 3,
      "doc": true,
      "docField": "id",
      "docFilter": true,
      "docFq": "sem_record_type:color",
      "docExclude": false
    }
  ]
},
"map": {
  "extends": [
    {
      "configuration": "base_geoquery_autofilter",
      "mode": "merge"
    }
  ],
  "requestParams": {
    "defaults": [
      {
        "name": "rows",
        "value": "1000"
      },
      {
        "name": "sph.fl",
        "value": "id, sem_title, sem_location"
      }
    ],
    "appends": [
      {
        "name": "sph.fq",
        "value": "sem_location:*"
      }
    ]
  }
},
"minimal": {
  "components": [
    {
      "type": "FacetFieldComponent",
      "componentName": "color",
      "fieldName": "color_facet",
      "minCount": 1
    }
  ]
},
"hierachical": {
  "extends": [
    {
      "configuration": "base_geoquery_autofilter",
      "mode": "merge"
    }
  ],
  "components": [
    {
      "type": "FacetHierarchyComponent",
      "componentName": "vintage_hierachy",
      "fieldName": "vintage_hierachy",
      "divider": ":",
      "minCount": 1,
      "multiSelect": true,
      "multiSelectMode": "AND",
      "excludeOwnFilters": false,
      "filterFirstLevel": true
    }
  ]
},
"demo": {
  "extends": [
    {
      "configuration": "default",
      "mode": "merge"
    }
  ]
}

```

```

    },
    "components": [
      {
        "type": "ConditionalSearchParamsComponent",
        "componentName": "conditional_appends",
        "appends": [
          {
            "name": "sp.fq",
            "value": "id:\\en/2005_ravenswood_old_vine_mendocino_county_zinfandel\\"
          }
        ],
        "dependsOnAny": [
          {
            "param": "q",
            "value": "ravenswood"
          }
        ]
      },
      {
        "type": "ConditionalSearchParamsComponent",
        "componentName": "conditional_invariants",
        "invariants": [
          {
            "name": "f.wine_type",
            "value": "wine_type_facet:Still\\ Wine"
          }
        ],
        "dependsOnAny": [
          {
            "component": "wine_producer",
            "value": "Clos\\ du\\ Bois\\ Wines"
          }
        ]
      },
      {
        "type": "HighlightingExtractor",
        "componentName": "highlighting",
        "fragsize": 300,
        "snippets": 1,
        "fields": "sem_title, appellation, region",
        "requireFieldMatch": false
      }
    ]
  },
  "redwines": {
    "requestParams": {
      "defaults": [
        {
          "name": "rows",
          "value": "100"
        },
        {
          "name": "sph.fq",
          "value": "color_facet:\\Red Wine\\"
        },
        {
          "name": "sph.fl",
          "value": "sem_title, country"
        }
      ]
    }
  }
}

```