VML

DRUPAL SEARCH

July 31, 2018

PLANNING

Ask Questions

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- What content is actually being searched?
- Do I need to filter my searches?
- How are search results going to be displayed?
- Get examples of search.

SEARCH FACILITIES

Database Search

- Default Drupal Search.
- Uses SQL queries to search database tables.
- Works well for basic searches.
- Is pretty slow.
- Caches well.

Solr

- Powerful search server maintained by Apache Foundation.
- Works very well with Drupal and is supported by Acquia.
- Uses the Lucene language to search indexes.
- Content must be "Indexed", so there is a delay in searching.
- Can search multiple fields, bias/boost results, provide facet searching, etc.
- Can index multiple sites, doesn't have to be Drupal based.

Google Search Appliance

- End of Life. :(
- Ad Supported

Other

- AWS Elastic Search (based on Solr).
- Sphinx
- Algolia
- Search API works for everything!

SEARCH MODULES

Search API

https://www.drupal.org/project/search_api

- Provides a common interface for talking to any number of search backends.
- A back-end provides a module to connect to Search API.
- Is the "go to" search module.

Search API Solr

https://www.drupal.org/project/search_api_solr

- Back End for Search API that allows connection to Solr servers.

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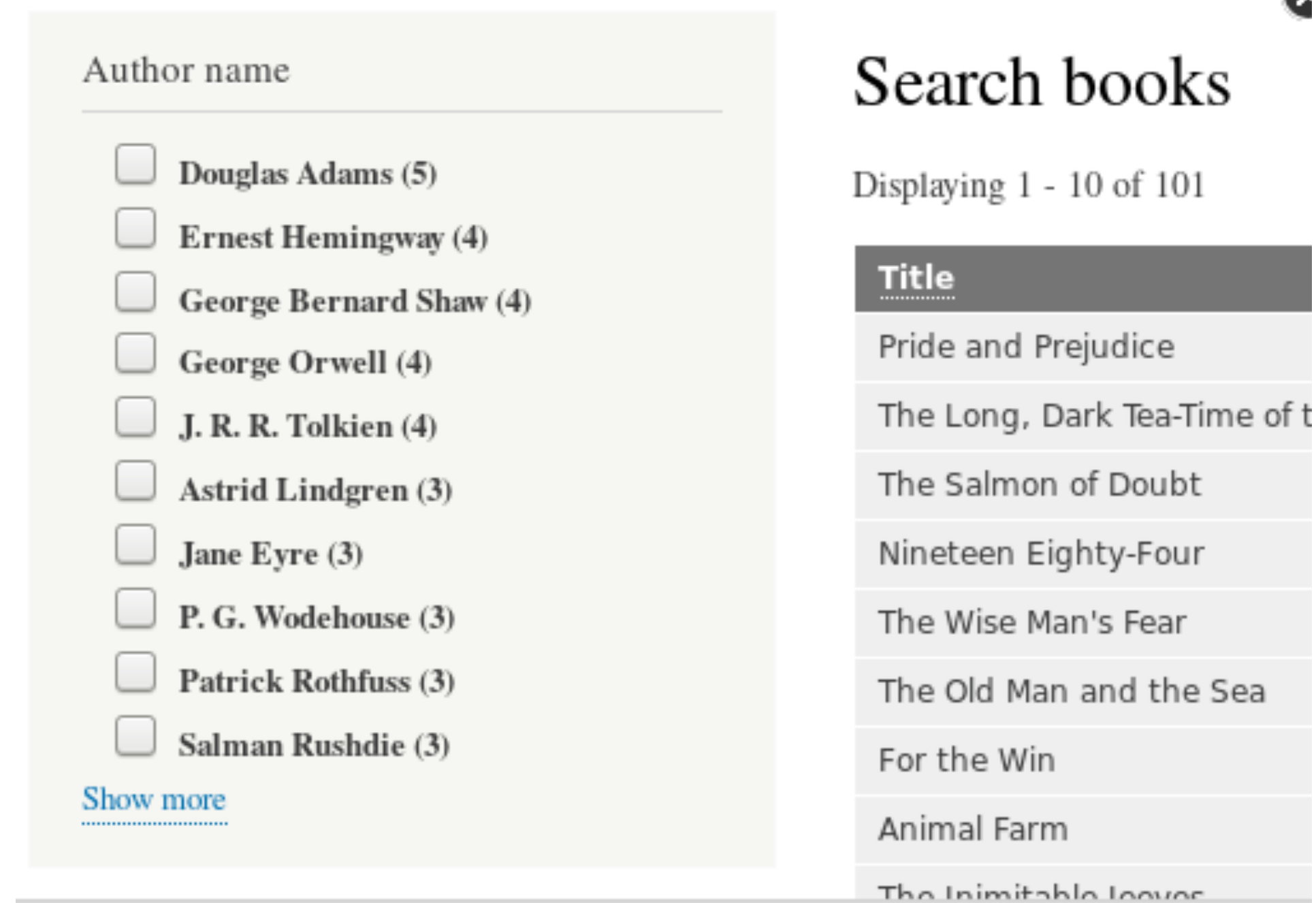
Search API Multilingual Solr

https://www.drupal.org/project/search_api_solr_multilingual

- Adds multi-lingual support for Search API Solr!

Facets

https://www.drupal.org/project/facets

– Add filters

Author name		Search books
☐ Douglas Adams (5)		Displaying 1 - 10 of 101
☐ Ernest Hemingway (4)		**Title**
☐ George Bernard Shaw (4)		Pride and Prejudice
☐ George Orwell (4)		The Long, Dark Tea-Time of t
☐ J. R. R. Tolkien (4)		The Salmon of Doubt
☐ Astrid Lindgren (3)		Nineteen Eighty-Four
☐ Jane Eyre (3)		The Wise Man's Fear
☐ P. G. Wodehouse (3)		The Old Man and the Sea
☐ Patrick Rothfuss (3)		For the Win
☐ Salman Rushdie (3)		Animal Farm
Show more		The Inimitable Jeeves

Facets link in the frontend

Lots more ….

Extension modules

Last updated 7 February 2018. Created on 20 May 2013.
Edited by fundawangcn, beltofte, xSDx, TheodorosPloumis. Log in to edit this page.

This section lists modules that add new backends, plugins or other extensions to the Search API, allowing users to add additional functionality to their sites. Creators of new extension modules are welcome to add their projects to this list, too.

This page also acts as the parent for documentation on those extension modules.

Modules providing service classes

Solr search(7.x, 8.x)
A backend using an Apache Solr server for indexing and searching, like the popular Apache Solr Search Integration module. It uses dynamic fields for indexing arbitrary entities and boasts far superior indexing- and search-performance, better result accuracy and native facetting support.

Multilingual Solr search(8.x)
An extension of the Solr search backend. It provides sensible default settings for different languages and hides the complexity of defining per language filed types within a solr schema. Additionally a lot of fine tuning of the index could be done within drupal instead of editing solr config files manually.

Database search(7.x, 8.x is internal module of search_api module)
A simple, database-based backend for indexing and searching data. It's neither very fast nor accurate, but it works out of the box and can be used for testing out the Search API capabilities (it even supports facetting), or for smaller sites (or smaller, less important indexes/searches).

SETUP SEARCH

Search API ☆

Below is a list of indexes grouped by the server they are associated with. A server is the definition of the actual indexing, querying and storage engine (for example, an Apache Solr server, the database, …). An index defines the indexed content (for example, all content and all comments on "Article" posts).

+ Add server   **+ Add index**

TYPE	NAME	STATUS	OPERATIONS
Server	Acquia Search API Solr server	✓	Edit ▾
Index	Acquia Search Solr Index	✓	Edit ▾

☑ **Enabled**

Only enabled servers can index items or execute searches.

Description

Enter a description for the server.

Backend *

◉ Solr

Index items using an Apache Solr search server.

Choose a backend to use for this server.

▼ **CONFIGURE _SOLR_ BACKEND**

Solr server URI

http://useast1-c26.acquia-search.com:80/solr/GTVY-165631/

Solr Connector *

◉ Acquia

○ Basic Auth

○ Standard

Choose a connector to use for this Solr server.

▶ **CONFIGURE _ACQUIA_ SOLR CONNECTOR**

ADVANCED

☑ Retrieve result data from Solr

When checked, result data will be retrieved directly from the Solr server. This might make item loads unnecessary. Only indexed fields can be retrieved. Note also that the returned field data might not always be correct, due to preprocessing and caching issues.

☑ Highlight retrieved data

When retrieving result data from the Solr server, try to highlight the search terms in the returned fulltext fields.

☐ Return an excerpt for all results

If search keywords are given, use Solr's capabilities to create a highlighted search excerpt for each result. Whether the excerpts will actually be displayed depends on the settings of the search, though.

☐ Skip schema verification

Skip the automatic check for schema-compatibillity. Use this override if you are seeing an error-message about an incompatible schema.xml configuration file, and you are sure the configuration is compatible.

MULTI-SITE COMPATIBILITY

☑ Retrieve results for this site only

Automatically filter all searches to only retrieve results from this Drupal site. The default and intended behavior is to display results from all sites. WARNING: Enabling this filter might break features like autocomplete, spell checking or suggesters!

By default a single Solr backend based Search API server is able to index the data of multiple Drupal sites. But this is an expert-only and dangerous feature that mainly exists for backward compatibility. If you really index multiple sites in one index and don't activate 'Retrieve results for this site only' below you have to ensure that you enable 'Retrieve result data from Solr'! Otherwise it could lead to any kind of errors.

Enabling Apache Solr service

Docksal configuration

Add the `solr` service under the `services` section in `.docksal/docksal.yml` :

```
# Solr
solr:
  extends:
    file: ${HOME}/.docksal/stacks/services.yml
    service: solr
```

Apply new configuration with `fin project start` (`fin p start`).

Use `http://solr.<VIRTUAL_HOST>/solr` to access the Solr web UI.

Drupal configuration

Enable all required by your version of Drupal modules for the Apache Solr search integration.

For Apachesolr module add your Solr server using following server url:

```
http://solr:8983/solr
```

For the Search API module use these values:

Name	Value
Protocol	HTTP
Host	solr
Port	8983
Solr path	/solr
Solr core	collection1

Acquia Search Solr Index ☆

ACQUIA SEARCH STATUS FOR THIS CONNECTION
Connection managed by Acquia Search module.

- search_api_solr.module server ID: acquia_search_server
- URL: http://useast1-c26.acquia-search.com:80/solr/GTVY-165631
- Acquia Search module automatically selected the proper Solr connection based on the detected environment.
- Solr core is currently reachable and up.
- Requests to Solr core are passing authentication checks.

Index status

1345/3525 indexed   38%

Status	enabled (disable)
Datasource	Content (1345/3525 indexed)
Tracker	Default
Server	Acquia Search API Solr server
Server index status	There are 1129 items indexed on the server for this index. (More information)
Cron batch size	During cron runs, 50 items will be indexed per batch.

▼ START INDEXING NOW

Index [all] items in batches of [50] items   Index now

Queue all items for reindexing   Clear all indexed data   Rebuild tracking information

Edit search index *Acquia Search Solr Index* ☆

| View | Edit | Fields | Processors |

Index name *

Acquia Search Solr Index   Machine name: acquia_search_index

Enter the displayed name for the index.

Data sources *

☐ Brick
    Provides *Brick* entities for indexing and searching.

☐ Comment
    Provides *Comment* entities for indexing and searching.

☑ Content
    Provides *Content* entities for indexing and searching.

☐ Custom block
    Provides *Custom block* entities for indexing and searching.

☐ Custom menu link
    Provides *Custom menu link* entities for indexing and searching.

☐ File
    Provides *File* entities for indexing and searching.

☐ Links
    Provides *Links* entities for indexing and searching.

☐ Media
    Provides *Media* entities for indexing and searching.

Select one or more data sources of items that will be stored in this index.

▶ **CONFIGURE THE *CONTENT* DATASOURCE**

▶ **CONFIGURE THE *DEFAULT* TRACKER**

Server

○ *– No server –*

● **Acquia Search API Solr server**

Select the server this index should use. Indexes cannot be enabled without a connection to a valid, enabled server.

☑ Enabled
    Only enabled indexes can be used for indexing and searching. This setting will only take effect if the selected server is also enabled.

Description

Manage fields for search index *Acquia Search Solr Index* ☆

+ Add fields

The data type of a field determines how it can be used for searching and filtering. The boost is used to give additional weight to certain fields, for example titles or tags.

For information about the data types available for indexing, see the data types table at the bottom of the page.

▼ GENERAL

LABEL	MACHINE NAME	PROPERTY PATH	TYPE	BOOST	OPERATIONS
Rendered HTML output	rendered_item	rendered_item	Fulltext ▼	1.0 ▼	Edit Remove

▼ CONTENT

LABEL	MACHINE NAME	PROPERTY PATH	TYPE	BOOST	OPERATIONS
Title	title	title	Fulltext ▼	1.0 ▼	Remove
Content type	type	type	String ▼		Remove
Product category	field_product_category	field_product_category	Integer ▼		Remove
Brand	field_product_brand	field_product_brand	Integer ▼		Remove
Meal	field_product_meal	field_product_meal	Integer ▼		Remove
Kitchen Equipment	field_product_kitchen_equipment	field_product_kitchen_equipment	Integer ▼		Remove
Cooked state	field_product_cooked_state	field_product_cooked_state	Integer ▼		Remove

Add view ☆

VIEW BASIC INFORMATION

View name *

My Search   Machine name: my_search [Edit]

☐ Description

VIEW SETTINGS

Show: Index Acquia Search Solr Index ▾   **sorted by:** Unsorted ▾

PAGE SETTINGS

☐ Create a page

BLOCK SETTINGS

☐ Create a block

Save and edit   Cancel

Displays

Page | **+ Add**

Edit view name/description ▾

Display name: Page

View Page ▾

TITLE

Title: Products

FORMAT

Format: Unformatted list | Settings

Show: Rendered entity | Settings

FIELDS

The selected style or row format does not use fields.

FILTER CRITERIA   Add ▾

Search: Fulltext search (and)

Index Acquia Search Solr Index: Hide deleted products (and)

Index Acquia Search Solr Index: Hide sales view only pages (and)

Index Acquia Search Solr Index: Filter Offer Dates (and)

SORT CRITERIA   Add ▾

Content datasource: Promoted to front page (desc)

Search: Relevance (desc)

PAGE SETTINGS

Path: /search

Menu: No menu

Access: None

HEADER   Add ▾

Global: Result summary (Global: Result summary)

FOOTER   Add

NO RESULTS BEHAVIOR   Add ▾

Global: Text area (Global: Text area)

PAGER

Use pager: Full | Paged, 50 items

More link: No

▶ ADVANCED

Save   **Cancel**

WHAT TO SEARCH

▼ CONFIGURE THE *CONTENT* DATASOURCE

▼ BUNDLES

Which bundles should be indexed?
◉ Only those selected
○ All except those selected

Bundles
☐ Announcement
☑ Article
☐ Confirmation Message
☐ Document
☐ eNews
☑ Menu Inspiration
☐ Menu Inspiration (landing page)
☐ Offer
☑ Basic page
☑ Pre-Order Deal
☑ Product
☑ Product hub
☐ Promotion material
☑ Rebate
☑ Segment
☑ Special Offer
☐ Webform

▼ LANGUAGES

Manage processors for search index *Acquia Search Solr Index* ☆

Configure processors which will pre- and post-process data at index and search time.

ENABLED

☑ Content access
  Adds content access checks for nodes and comments.

☑ Entity status
  Exclude inactive users and unpublished entities (which have a "Published" state) from being indexed.

Short code	field_short_code	field_short_code	String		Remove
Promoted to front page	promote	promote	Boolean		Remove
Body	field_body	field_body	Integer		Remove
Description	field_product_description	field_product_description	Fulltext	8.0	Remove
Product Details	field_product_details	field_product_details	Fulltext	5.0	Remove
Name	field_name	field_name	Fulltext	21.0	Remove

▶ DATA TYPES

Save changes

Configure processors which will pre- and post-process data at index and search time.

ENABLED

☐ Content access

Adds content access checks for nodes and comments.

☑ Entity status

Exclude inactive users and unpublished entities (which have a "Published" state) from being indexed.

☐ Highlight

Adds a highlighted excerpt to results and highlights returned fields.

☑ HTML filter

Strips HTML tags from fulltext fields and decodes HTML entities. Use this processor when indexing HTML data – for example, node bodies for certain text formats. The processor also allows to boost (or ignore) the contents of specific elements.

☑ Ignore case

Makes searches case-insensitive on selected fields.

☑ Ignore characters

Configure types of characters which should be ignored for searches.

☑ Index hierarchy

Allows the indexing of values along with all their ancestors for hierarchical fields (like taxonomy term references)

☑ Stemmer

Stems search terms (for example, *talking* to *talk*). Currently, this only acts on English language content. It uses the Porter 2 stemmer algorithm (More information). For best results, use after tokenizing.

☐ Stopwords

Allows you to define stopwords which will be ignored in searches. **Caution:** Only use after both 'Ignore case' and 'Tokenizer' have run.

☑ Tokenizer

Splits text into individual words for searching.

☐ Transliteration

Makes searches insensitive to accents and other non-ASCII characters.

☐ Type-specific boosting

Adds a boost to indexed items based on their datasource and/or bundle.

☑ UPC Formatter

Pre-processes the search query to format old UPC codes to new format

PROCESSOR ORDER

CONTROLLING SEARCH

Browse Results

Poultry (14)

Mexican Products (10)

Hospitality (4)

Convenience (3)

Healthcare (2)

Bacon (1)

Filter Results

MEAL ⊖

☐ Dinner

☐ Lunch

☐ Snack

☐ Breakfast

Facets ☆

Below is a list of facets grouped by facetsources they are associated with. A facetsource is the instance where the facet does the actual filtering, for example a View on a Search API index.

The facets weight can be changed with drag and drop within the same facet source. Although you can drag and drop a facet under any facet source, this change will not be performed on save.

+Add facet

Show row weights

TYPE	TITLE	OPERATIONS
Facet source	search_api:views_page__acquia_search__page	Configure
Facet source	search_api:views_page__product_search__page_1	Configure
✛ Facet	**Brand** field_product_brand – checkbox	Edit ▾
✛ Facet	**Browse results** field_product_category – links	Edit ▾
✛ Facet	**Cooked state** field_product_cooked_state – checkbox	Edit ▾
✛ Facet	**Cuisine** field_product_cuisine – checkbox	Edit ▾

Widget *

○ List of icons

○ Three state toggle switch

● List of checkboxes

○ Array with raw results

○ List of links

○ Dropdown

The widget used for displaying this facet.

SETTINGS

☐ Show the amount of results

Soft limit

[No limit ▾]

Limit the number of displayed facets via JavaScript.

FACET SETTINGS

☐ Count limit

Show or hide depending on the number of results.

☐ Date item processor

Display dates with granularity options for date fields.

☐ Dependent facet

Display this facet depending on the state of another facet.

☐ Exclude specified items

Exclude items depending on their raw or display value (such as node IDs or t

☐ Granularity item processor

List of numbers grouped in steps.

☐ Hide active items

Do not display items that are active.

☐ Hide facet with 1 result

When the facet has only one result, it will be hidden

☐ Hide non-narrowing results

Only display items that will narrow the results.

☐ List item label

Display the label instead of the key of fields that are a list (such as *List (inte*
break this functionality.

☐ Show only deepest item levels

Only show items that have no children.

☑ Transform entity ID to label

AND filters are exclusive and narrow the result set. OR filters are inclusive and widen the result set.

Hard limit

[No limit ▾]

Display no more than this number of facet items.

☐ Exclude

Exclude the selected facets from the search result instead of restricting it to them.

☐ Use hierarchy

Renders the items using hierarchy. Make sure to enable the hierarchy processor on the Search api index
At this moment only hierarchical taxonomy terms are supported.

Minimum count *

[1]

Only display the results if there is this minimum amount of results.

Weight *

[−7]

This weight is used to determine the order of the facets in the URL if pretty paths are used.

FACET SORTING

☐ Sort by active state

Sorts the widget results by active state.

☑ Sort by count

Sorts the widget results by count.
Sort order

○ Ascending

● Descending

☑ Sort by display value

Sorts the widget results by display value.
Sort order

● Ascending

○ Descending

☐ Sort by raw value

Sorts the widget results by raw value.

☐ Sort by taxonomy term weight

Sorts the widget results by taxonomy term weight. This sort is only applicable for term-based facets.

▶ **ADVANCED SETTINGS**

[**Save**]

DISPLAY SEARCH

Home • Search

Search

Search: PRODUCTS (766)   ARTICLES (9)

https://tysonfoodservice.prod.acquia-sites.com/search?search_api_fulltext=philly%20cheese

Restaurant

https://tysonfoodservice.prod.acquia-sites.com/your-channel/restaurant

UPC CODE: 00023700025531
PRODUCT CODE: 038353-0928

Tyson® Red Label™ NAE Fully Cooked, Roasted Chicken Breast Filets with Rib Meat, 40 target/4 oz target, 10 lbs

by: Tyson®

•Better Prices. Save up to 20% on comparable chicken products you currently menu. •Better Flavor. No artificial aftertastes commonly associated with other fully cooked chicken items. •Better Performance.

UPC CODE: 00023700025722
PRODUCT CODE: 038382-0928

Tyson® Red Label™ NAE Uncooked, Hot 'n Spicy Chicken Breast Pattie Fritters, 48-52 pieces, 10 lbs

by: Tyson®

•Better Prices. Save up to 20% on comparable chicken products you currently menu. •Better Flavor. Fine-tuned to deliver the perfect balance of breading to chicken, the right texture, and the perfect color. •Better Performance.

UPC CODE: 00023700025739
PRODUCT CODE: 038383-0928

Tyson® Red Label™ NAE Homestyle Chicken Breast Tenders, 109-119 pieces, 10 lbs

by: Tyson®

•Better Prices. Save up to 20% on comparable chicken products you currently menu. •Better Flavor. Fine-tuned to deliver the perfect balance of breading to chicken, the right texture, and the perfect color. •Better Performance.

Manage display

+ Add group

Edit	Manage fields	Manage form display	Manage display	Devel

Default   Search index   Teaser

Show row weights

FIELD	LABEL	FORMAT			
✥ **Left**		HTML element ▼	Extra CSS classes: left Element: div	delete	⚙
✥ Search Teaser Image	– Hidden – ▼	Rendered entity ▼	Rendered as Search Page		⚙
✥ **right**		HTML element ▼	Extra CSS classes: right Element: div	delete	⚙
✥ Display Title					
✥ Search Teaser	– Hidden – ▼	Trimmed ▼	Trimmed limit: 230 characters		⚙
Disabled					
✥ Body	Above ▼	Trimmed ▼			

| Search Teaser | field_search_teaser | Text (formatted, long) | Edit ▾ |
| Search Teaser Image | field_search_teaser_image | Entity reference | Edit ▾ |

CACHING!

- Search pages are just GET
- Varnish Cached
- Views Cached

THANKS!