

and Facet API

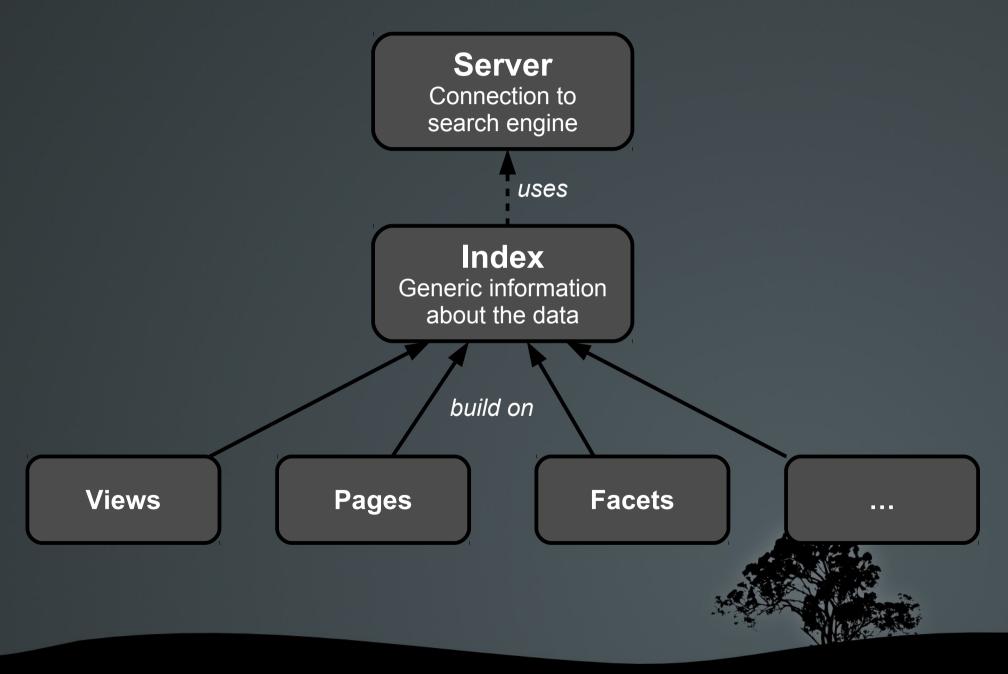
An introduction to the new, flexible search solutions By Thomas Seidl and Yuriy Gerasimov

Search API

- Est. 2010
- Based on suggestions for core search
- Generic and flexible search tools
 - Different data
 - Different search engines
 - Different types of searches / UIs



Basic structure



Basic structure



Connection to search engine

Server 2

Connection to other search engine

uses

Index

Generic information about the data

build on

Views

Pages

Facets

. . . .

How-to: Set up a search

- Ingredients:
 - 1 Server
 - 1 Index
 - 1 View, page or similar
 - Other modules, to taste



Home » Administration » Configuration » Search and metadata

Search API

◆ Add server ◆ Add index

STATUS	TYPE	NAME	OPERATIONS	
8	Index	Default node index	edit de	lete

First off: a server



Home » Administration » Configuration » Search and metadata

Search API



STATUS	TYPE	NAME	OPERATIONS	
8	Index	Default node index	edit delete	

Add server

Server name *	
Enter the displayed name for the new server.	
■ Enabled	
Select if the new server will be enabled after creation.	
Server description	
Enter a description for the new server.	

Service class *

Server name "

Test server

Machine name: test_server [Edit]

Enter the displayed name for the new server.

Enabled

Select if the new server will be enabled after creation.

Server description

Some description, only used in Admin UI.

Enter a description for the new server.

Service class *

< Choose a service class >

Choose a service class to use for this server.

Create server

Server name *

Test server

Machine name: test_server [Edit]

Enter the displayed name for the new server.

■ Enabled

Select if the new server will be enabled after creation.

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Some description, only used in Admin UI.

Enter a description for the new server.

Service class *

< Choose a service class > -

Choose a service class to use for this server.

Create server

Service classes

- Responsible for actual storage and retrieval
- NOT included, need additional module
 - Links on Search API project page
- Implementations for, e.g.,
 - Solr
 - Database
 - Xapian
 - (others in progress)



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Test server

Machine name: test_server [Edit]

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Choose a service class to use for this server.

Server name *

Test server

Machine name: test_server [Edit]

Enter the displayed name for the new server.

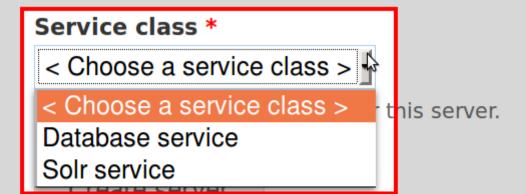
Enabled

Select if the new server will be enabled after creation.

Server description

Some description, only used in Admin UI.

Enter a description for the new server.



Service class *

Solr service

Choose a service class to use for this server.

→ SOLR SERVICE

Index items using an Apache Solr search server.

- All field types are supported and indexed in a special way, with URI/String and Integer/Duration being equivalent.
- See the Solr wiki for information about the "direct" parse mode.
- Supports the search_api_facets and search_api_multi features.
- Will use internal Solr preprocessors, so Search API preprocessors should for the most part be deactivated.
- See the README.txt file provided with this module for details.

Solr host *

localhost

The host name or IP of your Solr server, e.g. localhost or www.example.com.

Solr port *

Solr host *

localhost

The host name or IP of your Solr server, e.g. localhost or www.example.com.

Solr port *

8983

The Jetty example server is at port 8983, while Tomcat uses 8080 by default.

Solr path

/solr

The path that identifies the Solr instance to use on the server.

BASIC HTTP AUTHENTICATION

ADVANCED

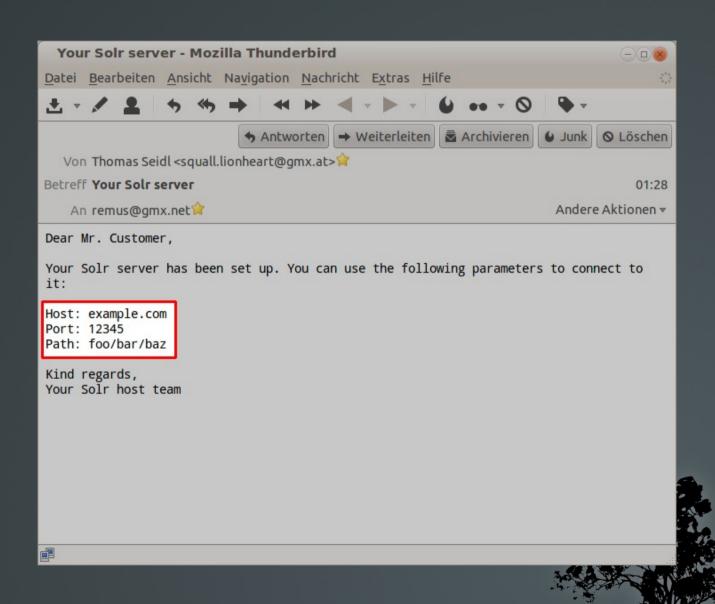
Create server

Solr servers

- Either install locally
 - Instructions in INSTALL.txt
 - Defaults already entered
 - Not using the example server?
 - Maybe different port and/or path
- Or use a web Solr hoster
 - Some listed on the Search API Solr project page



Hosted Solr



Solr host *

localhost

The host name or IP of your Solr server, e.g. localhost or www.example.com.

Solr port *

8983

The Jetty example server is at port 8983, while Tomcat uses 8080 by default.

Solr path

/solr

The path that identifies the Solr instance to use on the server.

BASIC HTTP AUTHENTICATION

ADVANCED

Create server

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Create server

Solr host *

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Solr port *

8983

The Jetty example server is at port 8983, while Tomcat uses 8080 by default.

Solr path

/solr

The path that identifies the Solr instance to use on the server.

BASIC HTTP AUTHENTICATION

ADVANCED

Test server

VIEW

EDIT

DELETE



- The server was successfully created.
- The Solr server could be reached (latency: 6.3610076904297 ms).

Test server

Status enabled (disable)

Machine name test_server

Description
Some description, only used in Admin UI.

Service class
Solr service

Index items using an Apache Solr search server.

All field to make any accompanied and independing a propriet control of the LIBUCtuin

Remember to use the Search API Solr config files!



Then: the index



Index

- For starters, just edit the Default node index
- Creation of new index works the same



Home » Administration » Configuration » Search and metadata

Search API



The Solr server could be reached.

♣ Add server
♣ Add index

STATUS	TYPE	NAME	OPERATIONS		
•	Server	Test server	disable	edit	delete
8	Index	Default node index		edit	delete

Home » Administration » Configuration » Search and metadata

Search API



The Solr server could be reached.

♣ Add server
♣ Add index

STATUS	TYPE	NAME	OPERATIONS		
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Search API



The Solr server could be reached.

♣ Add server
♣ Add index

STATUS	TYPE	NAME	OPERATIONS		
•	Server	Test server	disable	edit delete	
8	Index	Default node index		edit delete	
				Status Settings	
				Fields Workflow	

Home » Administration » Configuration » Search and metadata » Search API » Default node index

Default node index

VIEW

STATUS

SETTINGS

FIELDS

WORKFLOW

Index name *

Default node index

Enabled

Index description

An automatically created search index for indexing node data. Might be configured to specific needs.

Server

< No server > •



Select the server this index should reside on.

□ Read only

Do not write to this index or track the status of items in this index.

□ Index items immediately

Immediately index new or updated items instead of waiting for the next cron run. This might have serious performance drawbacks and is generally not advised for larger sites.

Cron batch size

50

Set how many items will be indexed at once when indexing items during a cron run. "0" means that no items will be indexed by cron for this index, "-1" means that cron should index all items at once.

< No server >

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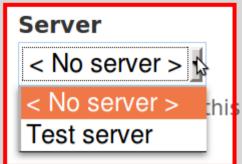
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Default node index

VIEW

STATUS

SETTINGS

FIELDS

WORKFLOW



The search index was successfully edited.

Default node index

Status

disabled (enable)

Machine name

default_node_index

Item type

Node

Description

An automatically created search index for indexing node data. Might be configured to specific needs.

Server

Default node index

VIEW

STATUS

SETTINGS

FIELDS

WORKFLOW



The search index was successfully edited.

Default node index

Status disabled (<u>enable</u>)

Machine name default_node_index

Item type Node

Description

An automatically created search index for indexing node data. Might be configured to specific needs.

Default node index

VIEW

STATUS

SETTINGS

FIELDS

WORKFLOW



The index was successfully enabled.

Default node index

Status

enabled (disable)

Machine name

default_node_index

Item type

Node

Description

An automatically created search index for indexing node data. Might be configured to specific needs.

Server

Default node index

VIEW

STATUS

SETTINGS

FIELDS

WORKFLOW



The index was successfully enabled.

Default node index

Status enabled (disable)

Machine name default_node_index

Item type Node

Description

An automatically created search index for indexing node data. Might be configured to specific needs.

Default node index

VIEW

STATUS

SETTINGS

FIELDS

WORKFLOW

Select fields to index

The datatype of a field determines how it can be used for searching and filtering. The boost is used to give additional weight to certain fields, e.g. titles or tags. It only takes effect for fulltext fields.

Whether detailed field types are supported depends on the type of server this index resides on. In any case, fields of type "Fulltext" will always be fulltext-searchable.

Check the server's service class description for details.

Note that indexing an entity-valued field (like *Author*, which has type *User*) directly will only index the entity ID. This will be used for filtering and also sorting (which might not be what you expect). The entity label will usually be used when displaying the field, though. Use the "Add related fields" option at the bottom for indexing other fields of related entities.

FIELD	INDEXED	TYPE	BOOST
Node ID			

fields of related entities.

FIELD	INDEXED	TYPE	BOOST
Node ID			
Revision ID			
Is new			
Content type		String	
Title		Fulltext •	5.0
Language			
URL			
Edit URL			
Status			
Promoted to frontpage	 ✓	Boolean •	

fields of related entities.

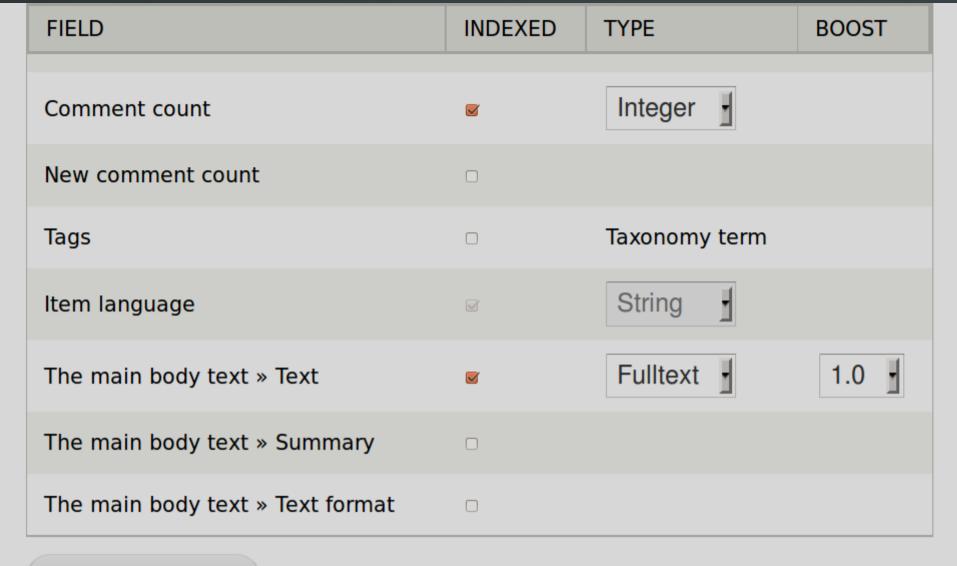
FIELD	INDEXED	TYPE	BOOST
Node ID			
Revision ID			
Is new			
Content type	 The state of the state</td <td>String</td> <td></td>	String	
Title	S	Fulltext	5.0
Language		Fulltext String	
URL		Integer Decimal	
Edit URL		Date Duration	
Status		Boolean URI	
Promoted to frontpage	 ✓	Boolean 🖠	

fields of related entities.

FIELD	INDEXED	TYPE	BOOST
Node ID			
Revision ID			
Is new			
Content type		String	
Title	 ✓	Fulltext }	5.0
Language	0		0.1
URL			0.3 0.5
Edit URL			0.8 1.0
Status			2.0 3.0
Promoted to frontpage	€	Boolean 🖠	5.0 8.0

FIELD	INDEXED	TYPE	BOOST
Comment count	 The state of the state</td <td>Integer -</td> <td></td>	Integer -	
New comment count			
Tags		Taxonomy term	
Item language	$\overline{\omega}$	String -	
The main body text » Text		Fulltext •	1.0
The main body text » Summary			
The main body text » Text format			

ADD RELATED FIELDS



ADD RELATED FIELDS

FIELD	INDEXED	TYPE	BOOST
Tags		Taxonomy term	
Item language		String -	
The main body text » Text		Fulltext }	1.0
The main body text » Summary			
The main body text » Text format			

→ ADD RELATED FIELDS

There are entities related to entities of this type. You can add their fields to the list above so they can be indexed too.

Author

Add fields

FIELD	INDEXED	TYPE	BOOST
Item language	✓	String -	
Node access information	☑	String	
The main body text » Text	☑	Fulltext	1.0
The main body text » Summary			
The main body text » Text format			

→ ADD RELATED FIELDS

There are entities related to entities of this type. You can add their fields to the list above so they can be indexed too.

Author
Author
Translation source node
Tags
Image

Add fields

FIELD	INDEXED	TYPE	BOOST
Tags		Taxonomy term	
Item language		String •	
The main body text » Text		Fulltext •	1.0
The main body text » Summary			
The main body text » Text format			

→ ADD RELATED FIELDS

There are entities related to entities of this type. You can add their fields to the list above so they can be indexed too.

Author Add ields

Default node index

VIEW

STATUS

SETTINGS

FIELDS

WORKFLOW



The available fields were successfully changed.

Select fields to index

The datatype of a field determines how it can be used for searching and filtering. The boost is used to give additional weight to certain fields, e.g. titles or tags. It only takes effect for fulltext fields.

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Note that indexing an entity-valued field (like *Author*, which has type *User*) directly will only index the entity ID. This will be used for filtering and also sorting (which might not be what you expect). The entity label will usually be used when displaying the field, though. Use the "Add related fields" option at the bottom for indexing other fields of related entities.

FIELD	INDEXED	TYPE	BOOST
Tags		Taxonomy term	
Item language		String •	
Author » User ID			
Author » Name			
Author » Email			
Author » URL			
Author » Edit URL			
Author » Last access			
Author » Last login			
Author » Created			
Author » User roles			
Author » Status	0		

FIELD	INDEXED	TYPE	BOOST
Tags		Taxonomy term	
Item language	 ✓	String •	
Author » User ID			
Author » Name	S	String	
Author » Email			
Author » URL			
Author » Edit URL			
Author » Last access			
Author » Last login			
Author » Created			
Author » User roles	S	Integer -	
Author » Status			

FIELD	INDEXED	TYPE	BOOST
Author " Lust rogin			
Author » Created			
Author » User roles		Integer -	
Author » Status			
Author » Default theme			
The main body text » Text	⊘	Fulltext -	1.0
The main body text » Summary			
The main body text » Text format			

ADD RELATED FIELDS

FIELD	INDEXED	TYPE	BOOST
Addition " Last login			
Author » Created			
Author » User roles		Integer •	
Author » Status			
Author » Default theme			
The main body text » Text	S	Fulltext •	1.0
The main body text » Summary			
The main body text » Text format			

Save Hanges

ADD RELATED FIELDS

Default node index

VIEW

STATUS

SETTINGS

FIELDS

WORKFLOW



The indexed fields were successfully changed. The index was cleared and will have to be re-indexed with the new settings.

Select fields to index

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Default node index

VIEW

STATUS

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WORKFLOW



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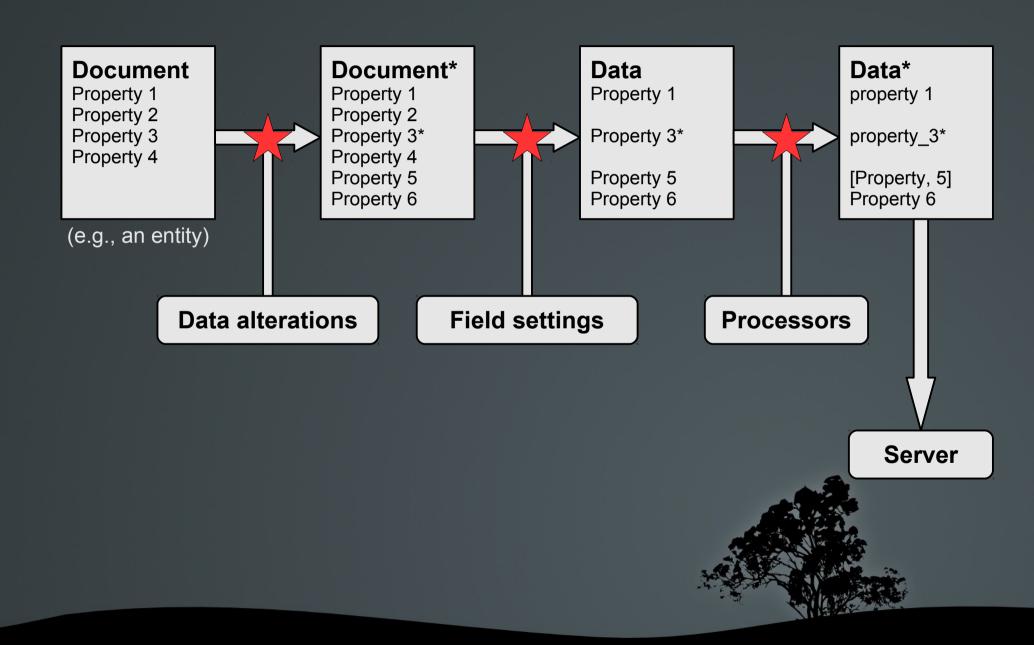
localhost/drupal/drupal/admin/config/search/search_api/index/default_node_index/workflow

Workflow settings

- Data alterations
 - Change what data can be indexed
 - E.g., additional fields
- Processors
 - Change how data is indexed
 - Called before indexing and before/after searches
 - E.g., lowercase text, remove HTML tags, ...



Indexing workflow



Default node index

VIEW

STATUS

SETTINGS

FIELDS

WORKFLOW

→ DATA ALTERATIONS

Select the alterations that will be executed on indexed items, and their order.

Enabled data alterations

Bundle filter

Exclude items from indexing based on their bundle (content type, vocabulary, ...).

Node access

Add node access information to the index.

□ Index hierarchy

Allows to index hierarchical fields along with all their ancestors.

Aggregated fields

Gives you the ability to define additional fields, containing data from one or

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URL field

Adds the item's URL to the indexed data.

□ Complete entity view

Adds an additional field containing the whole HTML content of the entity when viewed.

- DATA ALTERATIONS

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→ PROCESSORS

Select processors which will pre- and post-process data at index and search time, and their order. Most processors will only influence fulltext fields, but refer to their individual descriptions for details regarding their effect.

Enabled processors

■ Ignore case

This processor will make searches case-insensitive for all fulltext fields (and, optionally, also for filters on string fields).

■ HTML filter

Strips HTML tags from fulltext fields and decodes HTML entities. Use this processor when indexing HTML data, e.g., node bodies for certain text formats.

The processor also allows to boost (or ignore) the contents of specific elements.

▼ Tokenizer

Tokenizes fulltext data by stripping whitespace. This processor allows you to specify which characters make up words and which characters should be ignored, using regular expression syntax. Otherwise it is up to the search server implementation to decide how to split indexed fulltext data.

Stopwords

This processor prevents certain words from being indexed and removes them from search terms. For best results, it should only be executed after

When using Solr, don't use any of the (standard) processors!



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This processor prevents certain words from being indexed and removes them from search terms. For best results, it should only be executed after tokenizing.

Processor processing order

Show row weights

Set the order in which preprocessing will be done at index and search time. Postprocessing of search results will be in the exact opposite direction.

Processor settings

Save configuration

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Processor settings

Save cor guration

Default node index

VIEW

STATUS

SETTINGS

FIELDS

WORKFLOW



The search index' workflow was successfully edited. All content was scheduled for re-indexing so the new settings can take effect.

▼ DATA ALTERATIONS

Select the alterations that will be executed on indexed items, and their order.

Enabled data alterations

□ Bundle filter

Exclude items from indexing based on their bundle (content type, vocabulary, ...).

■ Node access

Add node access information to the index.

□ Index hierarchy

Default node index

VIEW

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Bundle filter

Exclude items from indexing based on their bundle (content type, vocabulary, ...).

Node access

Add node access information to the index.

Default node index

VIEW

STATUS

SETTINGS

FIELDS

WORKFLOW

Status

The index is currently enabled.

Disable

Progress

All items still need to be indexed (250 total).

*→***INDEX NOW**

Number of batches: -1 Index now

Each batch contains 50 items. Set to -1 for no limit.

Default node index

VIEW

STATUS

SETTINGS

FIELDS

WORKFLOW

Status

The index is currently enabled.

Disable

Progress

All items still need to be indexed (250 total).

→ INDEX NOW

Number of batches: -1 Index now

Each batch contains 50 items. Set to -1 for no limit.

Home » Administration » Configuration » Search and metadata » Search API » Default node index

Default node index

VIEW

STATUS

SETTINGS

FIELDS

WORKFLOW

Status

The index is currently enabled.

Disable

Progress

All items still need to be indexed (250 total).

▼INDEX NOW

Number of batches:

-1

Inde now

Each batch contains 50 items. Set to -1 for no limit.

- CLEAR INDEX

Home

Indexing items

Initializing.

Home

Indexing items

Completed about 80% of the indexing operation. Successfully indexed 200 items.

80%

Indexing items

Completed about 100% of the indexing operation. Successfully indexed 250 items.

100%

Home » Administration » Configuration » Search and metadata » Search API » Default node index

Default node index

VIEW

STATUS

SETTINGS

FIELDS

WORKFLOW



Successfully indexed 250 items.

Status

The index is currently enabled.

Disable

Progress

All items have been indexed (250 / 250).

▼ RE-INDEXING

This will add all items to the index again (overwriting the index), but existing items in the index will remain searchable.

Displaying searches

- Search views
 - Distributed with Search API core
 - (Almost) The whole power of Views for filtering, sorting and display
 - If something doesn't work: It's their fault!
 - No, really, it is!
- Search pages
 - Separate module (http://drupal.org/project/search_api_page)
 - Simpler, but less powerful/flexible
 - Use view modes, or a custom theming function

Search pages



OVERVIEW

SEARCH PAGES



The Solr server could be reached.

◆ Add server ◆ Add index

STATUS	TYPE	NAME	OPERATION	IS	
•	Server	Test server	disable	edit	delete
•	Index	Default node index	disable	edit	delete

OVERVIEW

SEARCH PAGES



The Solr server could be reached.

◆ Add server ◆ Add index

STATUS	TYPE	NAME	OPERATION	IS	
•	Server	Test server	disable	edit	delete
•	Index	Default node index	disable	edit	delete

OVERVIEW

SEARCH PAGES

◆ Add search page

STATUS	CONFIGURATION	NAME	PATH	INDEX	OPERATIONS

There are no search pages defined yet.

OVERVIEW

SEARCH PAGES



STATUS	CONFIGURATION	NAME	PATH	INDEX	OPERATIONS

There are no search pages defined yet.

Search views



Views

LIST

SETTINGS

→ Add new view → Add view from template → Import

VIEW NAME	DESCRIPTION	TAG	PATH	OPERATIONS
Archive Displays: Block, Page In code Type: Content	Display a list of months that link to content for that month.	default	/archive	enable
Front page Displays: Feed, Page In code Type: Content	Emulates the default Drupal front page; you may set the default home page path to this view	default	/frontpage, /rss.xml	enable 🔻

Views

LIST

SETTINGS



VIEW NAME	DESCRIPTION	TAG	PATH	OPERATIONS
Archive Displays: Block, Page In code Type: Content	Display a list of months that link to content for that month.	default	/archive	enable 🔻
Front page Displays: Feed, Page In code Type: Content	Emulates the default Drupal front page; you may set the default home page path to this view	default	/frontpage, /rss.xml	enable 🔻

localhos

Add new view

LIST

SETTINGS

iew na	me *						
Descri	ption						
Show	Content	1	of ty	/pe	All	}	tagged
with			0	SO	rted by	New	est first 🖁
 Crea	te a page						
Pag	e title						
Path	า						
http	o://localhost/drupal/drupal/						

Add new view

LIST

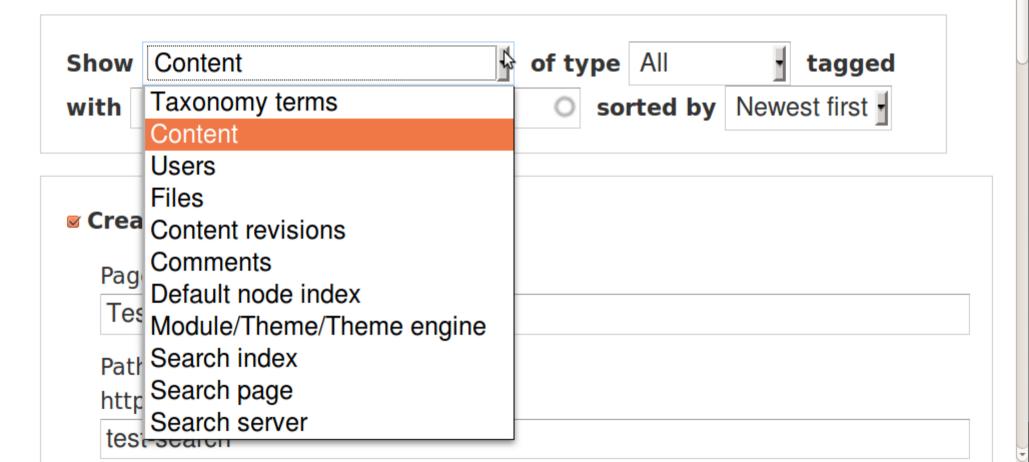
SETTINGS

View name *

Test search

Machine name: test_search [Edit]

Description



Add new view

LIST

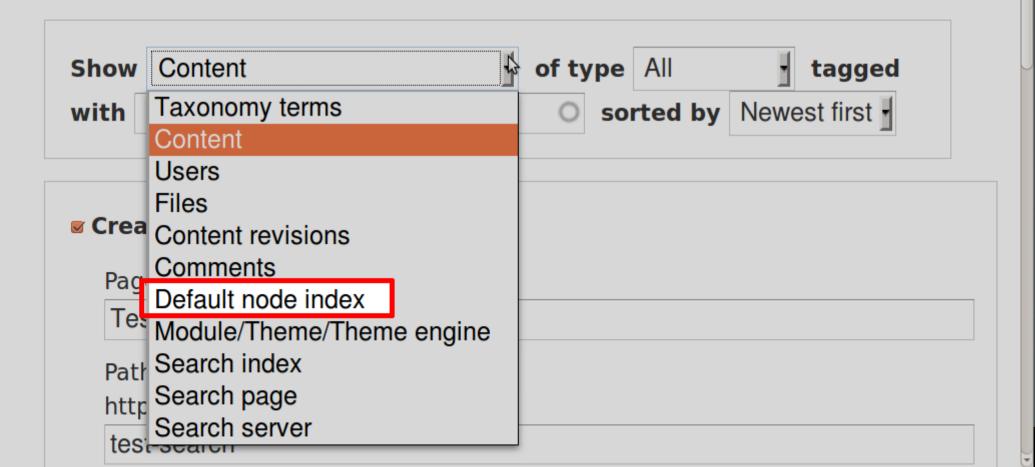
SETTINGS

View name *

Test search

Machine name: test_search [Edit]

Description



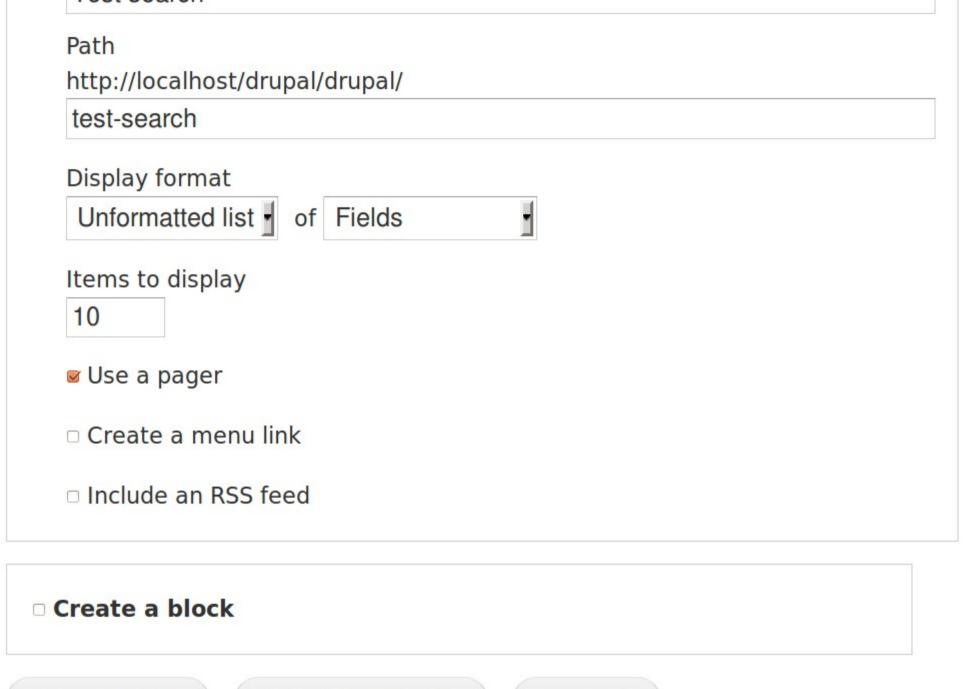
Display format

Add new view

LIST

SETTINGS

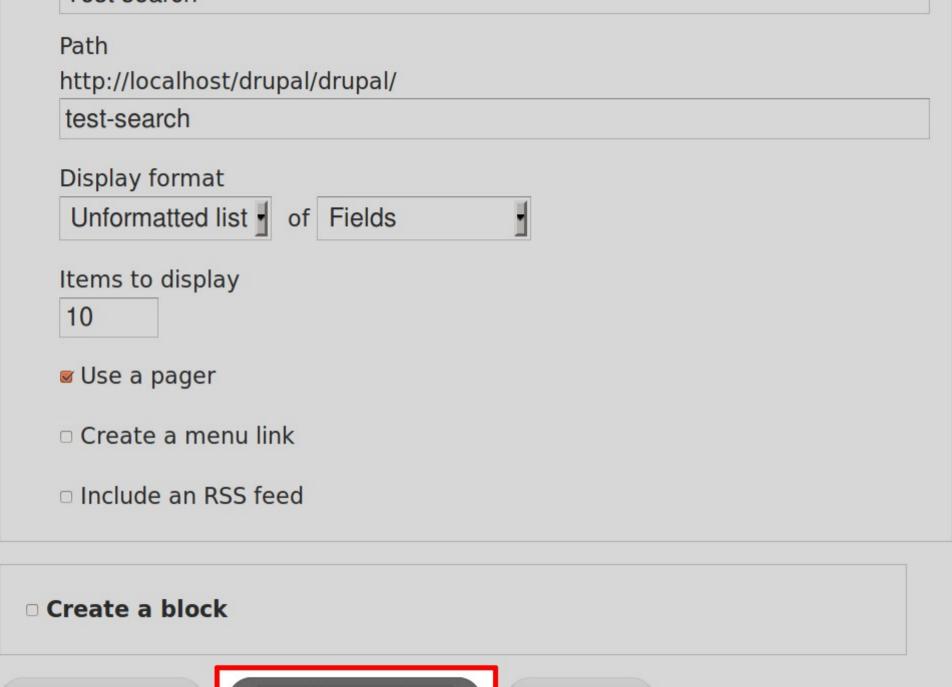
iew na	me *	
Descri	ption	
Show	Default node index	sorted by Unsorted
 Crea	ate a page	
Pag	je title	
Detl	h	
Path http	n p://localhost/drupal/dru	upal/



Save & exit

Continue & edit

Cancel



Save & exit

Continue & edit

Cancel

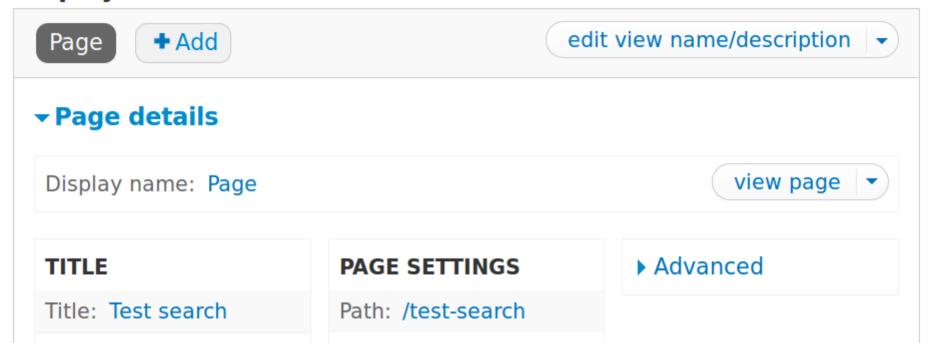


* All changes are stored temporarily. Click Save to make your changes permanent. Click Cancel to discard the view.

Modify the display(s) of your view below or add new displays.

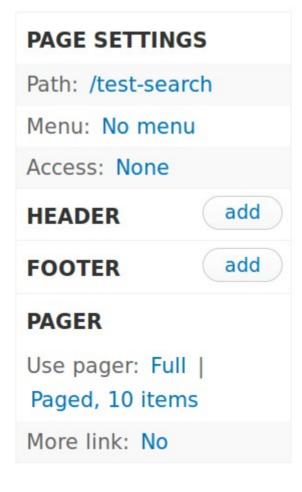
Save

Cancel



Display name: Page

TITLE Title: Test search **FORMAT** Format: Unformatted list Settings Show: Fields | Settings add 🕶 **FIELDS** Indexed Node: Node ID (Node ID) add FILTER CRITERIA SORT CRITERIA add





summary:

view page

Display name: Page

TITLE

Title: Test search

FORMAT

Format: Table |

Settings

FIELDS add -

Author: Name

(indexed) (Author)

Indexed Node: Title

(Title)

Indexed Node: Content

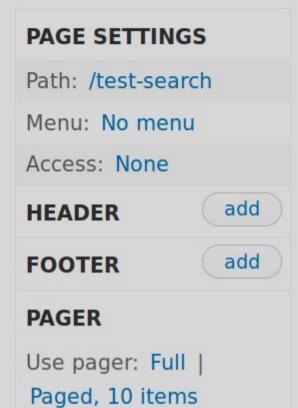
type (Type)

Indexed Node: Date

created (Created)

FILTER CRITERI, add

SORT CRITERIA add



More link: No



Hide attachments in

view page

TITLE

Title: Test search

Format: Table |

Author: Name

(indexed) (Author)

Indexed Node: Title

Indexed Node: Content

Indexed Node: Date

FORMAT

Settings

FIELDS

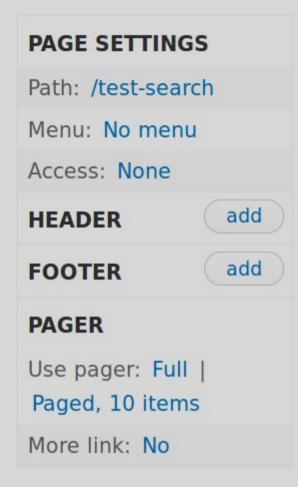
(Title)

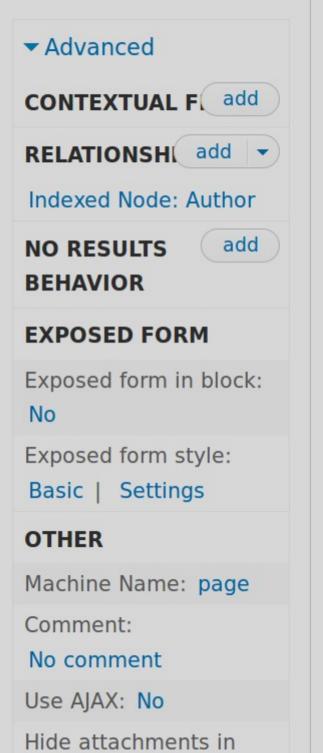
type (Type)



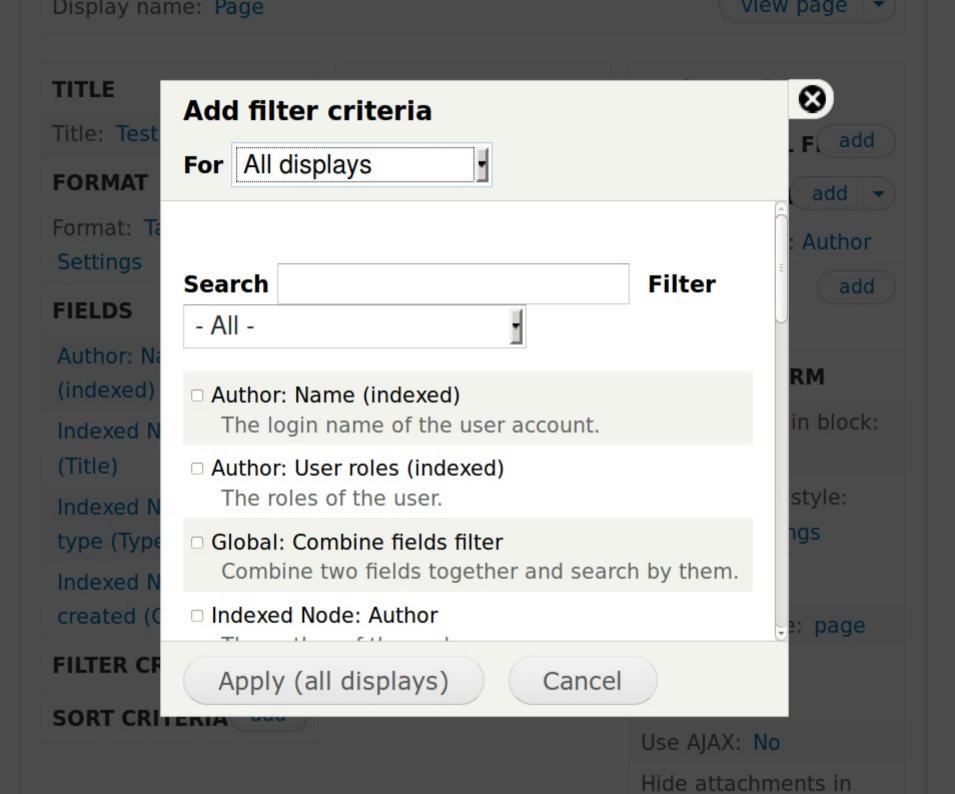
add -

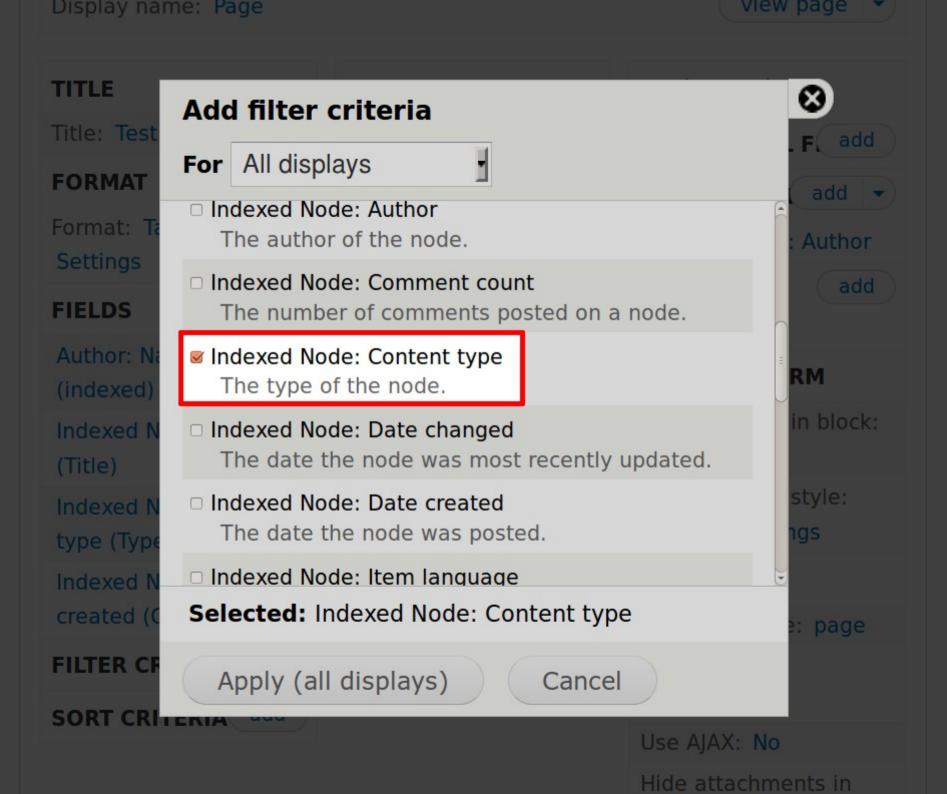
SORT CRITERIA add

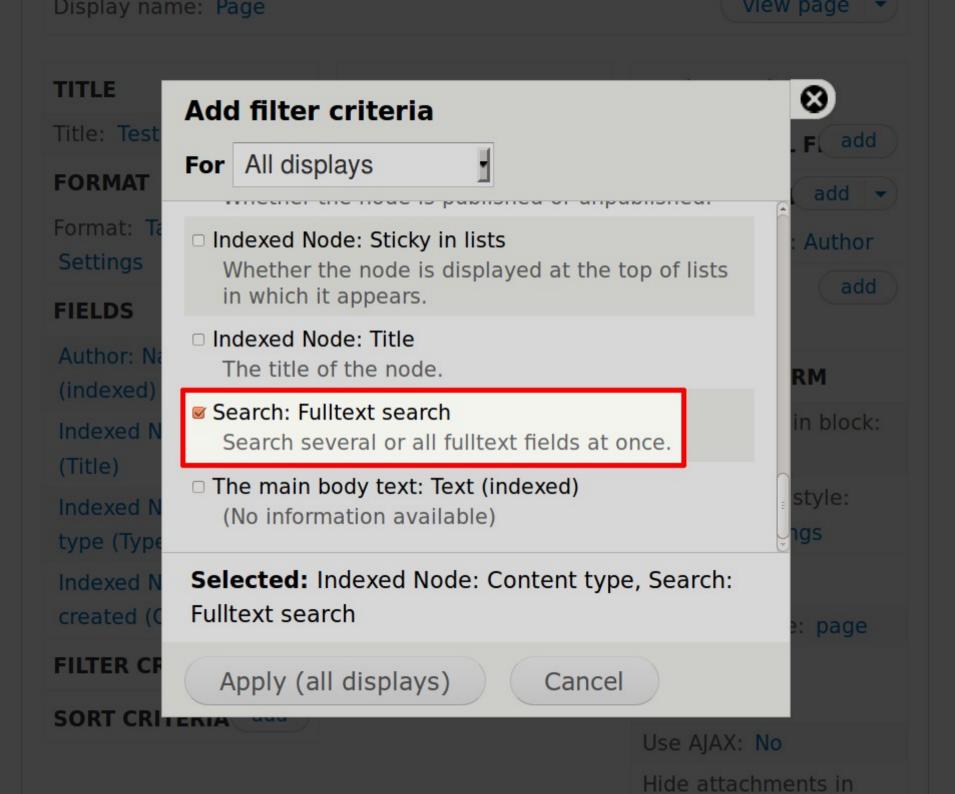


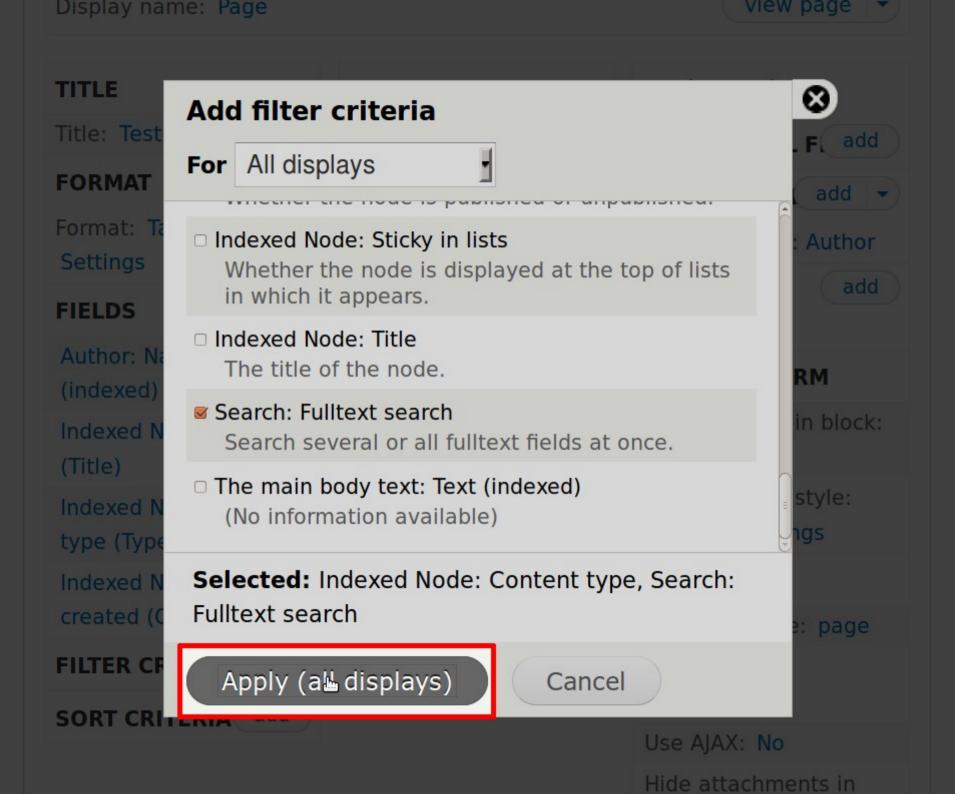


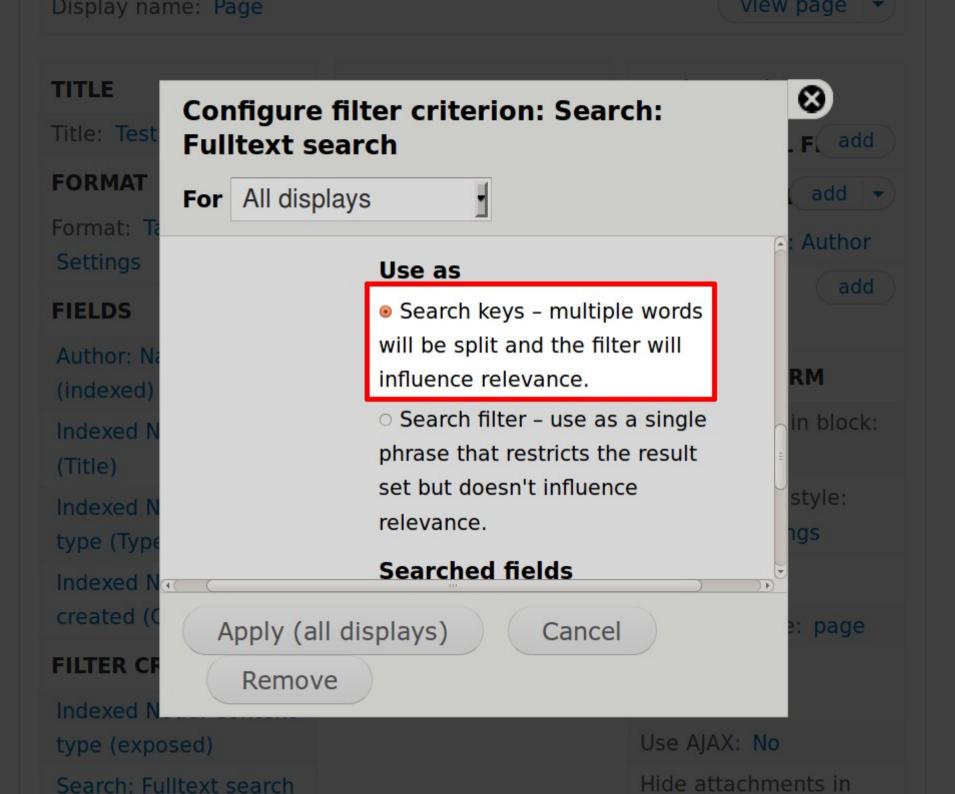
view page











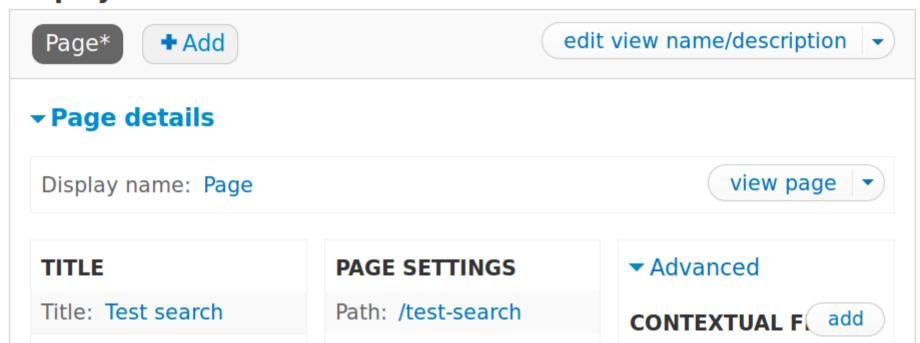


* All changes are stored temporarily. Click Save to make your changes permanent. Click Cancel to discard the view.

Modify the display(s) of your view below or add new displays.

Save

Cancel

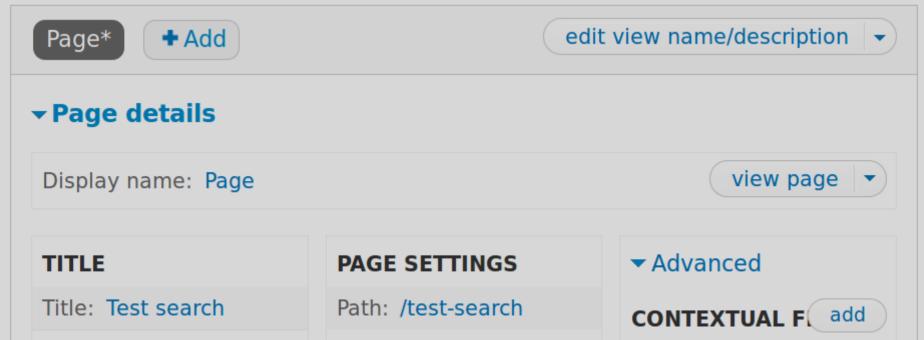




* All changes are stored temporarily. Click Save to make your changes permanent. Click Cancel to discard the view.

Modify the display(s) of your view below or add new displays.

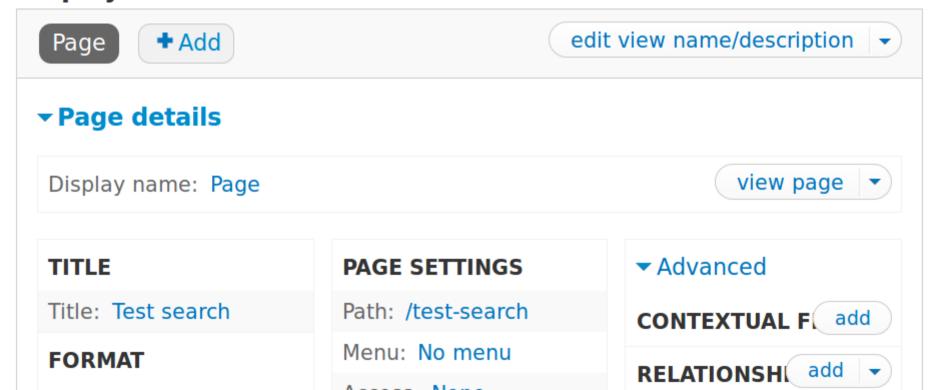






The view *Test search* has been saved.

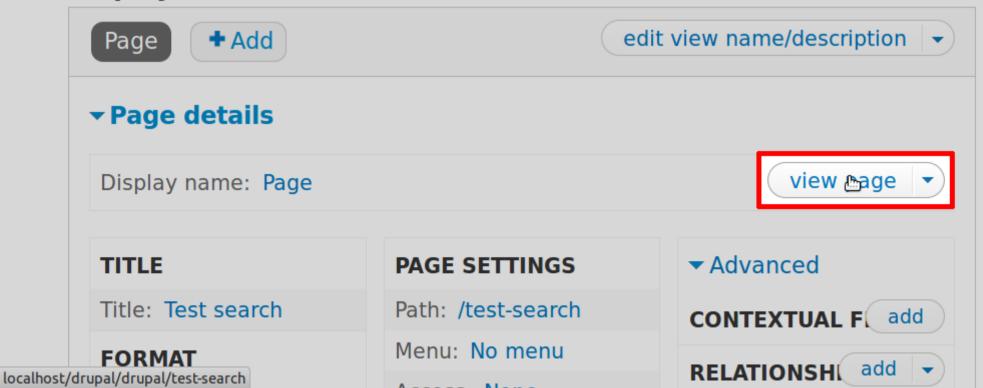
Modify the display(s) of your view below or add new displays.





The view *Test search* has been saved.

Modify the display(s) of your view below or add new displays.



Test search

Keywords	Content type
	- Any - ‡ Apply

Author	Title	Туре	Created	
frodiwrasho	Ea Pneum	Article	05/19/2012	
regare	Commodo Inhibeo	Article	12/24/2011	
stophaw	Gilvus Roto Torqueo Vicis	Article	10/22/2011	
potrujido	Eligo Et Iusto	Basic page	01/20/2012	
thethitr	Abluo Mos	Article	10/17/2011	
drunken monkey	Hos Ratis	Article	08/22/2011	
pefrebribras	Commodo Iriure Refero	Article	11/13/2011	
phudriro	Dignissim Illum Lucidus Obruo	Article	06/15/2012	
frabrecro	Abdo Haero	Basic page	09/18/2011	
spetaswicle	Natu Oppeto Sit	Article	01/26/2012	
1 2	3 4 5 6 7 8 9	next >	last »	

Test search

Keywords	Content type	
macto	- Any - ‡	Apply

Author	Title	Туре	Created
frodiwrasho	Ea Pneum	Article	05/19/2012
regare	Commodo Inhibeo	Article	12/24/2011
stophaw	Gilvus Roto Torqueo Vicis	Article	10/22/2011
potrujido	Eligo Et Iusto	Basic page	01/20/2012
thethitr	Abluo Mos	Article	10/17/2011
drunken monkey	Hos Ratis	Article	08/22/2011
pefrebribras	Commodo Iriure Refero	Article	11/13/2011
phudriro	Dignissim Illum Lucidus Obruo	Article	06/15/2012
frabrecro	Abdo Haero	Basic page	09/18/2011
spetaswicle	Natu Oppeto Sit	Article	01/26/2012
1 2	3 4 5 6 7 8 9	next >	last »

Test search



KeywordsContent typemactoArticle : Арру

Author	Title	Туре	Created
frodiwrasho	Ea Pneum	Article	05/19/2012
regare	Commodo Inhibeo	Article	12/24/2011
stophaw	Gilvus Roto Torqueo Vicis	Article	10/22/2011
potrujido	Eligo Et Iusto	Basic page	01/20/2012
thethitr	Abluo Mos	Article	10/17/2011
drunken monkey	Hos Ratis	Article	08/22/2011
pefrebribras	Commodo Iriure Refero	Article	11/13/2011
phudriro	Dignissim Illum Lucidus Obruo	Article	06/15/2012
frabrecro	Abdo Haero	Basic page	09/18/2011
spetaswicle	Natu Oppeto Sit	Article	01/26/2012
1 2	3 4 5 6 7 8 9	next >	last »

Keywords Content type

macto Article : Apply

Author	Title	Туре	Created
regare	Macto Virtus	Article	06/03/2012
bridriswebes	Macto Persto Wisi	Article	01/31/2012
pefrebribras	Macto Nostrud Rusticus Tation	Article	08/10/2011
phudriro	Distineo Macto Ratis Vel	Article	10/11/2011
hoslubritu	Ille Pagus Sed Valde	Article	05/24/2012
drunken monkey	Abico Damnum Saepius	Article	11/16/2011
nabrutre	Diam Exerci Persto Pertineo	Article	06/05/2012
stophaw	Loquor Mos Saepius	Article	10/25/2011
lucoshuwrer	Autem Quia	Article	09/09/2011
spetaswicle	Interdico Molior Odio Refero	Article	09/19/2011

2 3 4 5 6 7 8 next > last »

Keywords Content type

macto Apply Article

<u>Author</u>	Title	Туре	Created
regare	Macto Virtus	Article	06/03/2012
bridriswebes	Macto Persto Wisi	Article	01/31/2012
pefrebribras	Macto Nostrud Rusticus Tation	Article	08/10/2011
phudriro	Distineo Macto Ratis Vel	Article	10/11/2011
hoslubritu	Ille Pagus Sed Valde	Article	05/24/2012
drunken monkey	Abico Damnum Saepius	Article	11/16/2011
nabrutre	Diam Exerci Persto Pertineo	Article	06/05/2012
stophaw	Loquor Mos Saepius	Article	10/25/2011
lucoshuwrer	Autem Quia	Article	09/09/2011
spetaswicle	Interdico Molior Odio Refero	Article	09/19/2011

Keywords Content type

macto Article : Apply

Author	Title	Туре	Created
bridriswebes	Macto Persto Wisi	Article	01/31/2012
bridriswebes	Abico Bene Patria Sagaciter	Article	04/07/2012
bridriswebes E	Esca Nimis Tego	Article	09/11/2011
frabrecro	At Capto Erat Quidne	Article	03/15/2012
frabrecro	Ex Praemitto Quia	Article	10/10/2011
frabrecro	Augue Elit Esse Importunus	Article	06/06/2012
frodiwrasho E	Ea Pneum	Article	05/19/2012
frodiwrasho	Esca Natu	Article	02/19/2012
frodiwrasho l	Ludus Validus	Article	07/11/2012
frodiwrasho	Abdo Facilisis Ratis Refero	Article	11/09/2011

2 3 4 5 6 7 8 next > last »

Multi-valued and fulltext fields cannot be used for sorting!

(E.g., user roles, taxonomy terms, ...)



Facet API



Advanced Search Forms

Submit and hope for results

General Search	Search By Name	Search By Profession	Search By License Nbr			
Search by on with search o	ne or all of the foll criteria.	owing fields. All	search fields are optional, e	xpand or limit the resu	alt set based on the number of fields	
Last Nan	ne:					
First Nan	ne:					
Professio	n: Any				•	
Specialty/ Certification	Any					•
Other					_	
Specialty	·:				(Not Listed Above)	
City:						
County:	Any	1	•			
Zip Code	:					
License :						
If you have t	the License Numb	er, please enter wi	th no spaces or leading zero	es and without rank co	de. Example: 99999.	
			Search			





What are facets?

- Narrow search results
- Make sure items exist

or filter by...

All (95029)

Modules (892)

Themes (147)

Documentation (1262)

Forums & Issues (92713)

Groups (15)

Page (63) Page (63) Feature Profile (12) News (11) Faculty & Staff (8) Publication (2) FILTER BY DEPARTMENTS Bioengineering (1) Mechanical Engineering (1) FILTER BY POST DATE 2010 (5) 2011 (91)

NARROW YOUR CHOICES YOUR SELECTIONS: CATEGORY MOST POPULAR Boots (243) Sneakers & Athletic Shoes (28)Oxfords (20) Clogs & Mules (10) Insoles & Accessories (7) Loafers (1) MEN'S SIZE 2.5 4.5 6.5 Ariat 7.5 8 8.5 Sierra Wide Square Toe \$154.95 10.5 10 12 12.5 13 13.5 14 14.5 15 STYLES Athletic (133) Comfort (67) Wellington (20) Cowboy Boots (17) Logger & Packer (15) Combat (14) Euro (9) Chukka (3) Bootie (1)

High Tops (1)

"Men Shoes" we found 309 items!

What is Facet API?

- Create customizable facets
- Unified interface for all modules (search_api, apachesolr, search_facetapi)
- Very nice API to extend/modify functionality based on ctools plugins



Display widget

- Links
- Links with checkboxes
- Select (facetapi_bonus)





Sorts

Count sort

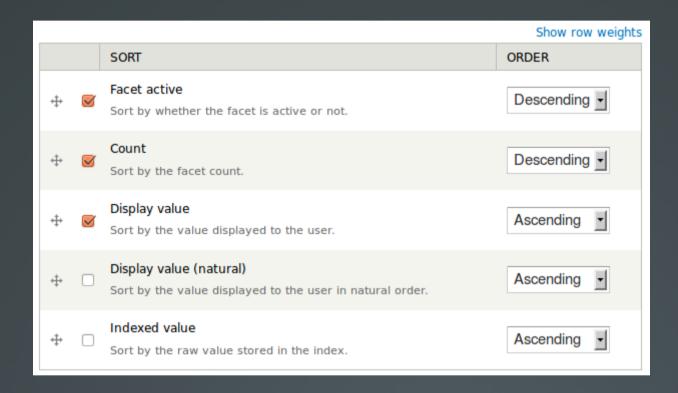
Filter by tags:

- o cluviverus (17)
- shospest (17)
- bra (9)
- o chupitheuu (9)

Display value sort

Filter by tags:

- o bra (9)
- o chupitheuu (9)
- o cluviverus (17)
- shospest (17)





Dependencies

Bundles, Roles, Another facet (facetapi_bonus)

	that must be met in order for the facet to be processed by the server and acets via the core block system or through the Drupal forms API will not ssing the facets.
undles	Show facet for specific roles
oles	anonymous user
nother facet	authenticated user administrator Show this facet only for the selected role(s). If you select no roles, the facet will be visible to all users.

Filters

Remove some items from the facet links

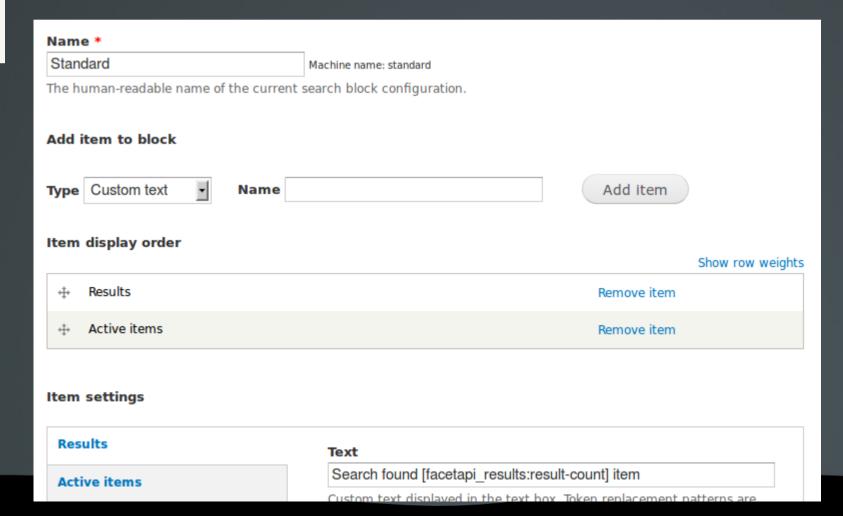
Conf	ïgure	facet filters ⊙			
Home	Home » Administration » Configuration » Search and metadata				
Activ	ve filter	'S			
			Show row weights		
+++		Do not display active items			
+‡+		Only show items in the current level of the hierarchy			
+		Exclude specified items			
+‡+		Rewrite facet items via callback function			
+		Do not display items that do not narrow results			
+‡+		Do not show facet with only X items			
÷		Show only deepest level items			

Current search block

Current search

Search found 12 items

- quae
- (-) cluviverus
- (-) Article



Search API

OVERVIEW

SEARCH PAGES



The Solr server could be reached.

♣ Add server
♣ Add index

STATUS	TYPE	NAME	OPERATION	S
•	Server	Test server	disable	edit delete
•	Index	Default node index	disable	edit delete
				Status Settings
				Fields
				Workflow
				Facets

Search API

OVERVIEW

SEARCH PAGES



The Solr server could be reached.

♣ Add server ♣ Add index

STATUS	TYPE	NAME	OPERATIO	NS
•	Server	Test server	disable	edit delete
•	Index	Default node index	disable	edit delete
				Status Settings Fields
				Workflow Farets

View index

STATUS SETTINGS FIELDS WORKFLOW FACETS

The *Blocks* realm displays each facet in a separate block. Users are able to refine their searches in a drill-down fashion.

For performance reasons, you should only enable facets that you intend to have available to users on the search page.

ENABLED	FACET	OPERATIONS
	Title	configure ▼
	Status	configure ▼
	Promoted to frontpage	configure ▼
	Sticky in lists	configure ▼
	Content type	configure ▼
	Date created	configure ▼

ENABLED	FACET	OPERATIONS
	Promoted to frontpage	configure -
0	Sticky in lists	configure -
0	Content type	configure -
	Date created	configure -
	Date changed	configure -
	Author	configure -
0	Node access information	configure -
	Comment count	configure -
	Author » Name	configure -
	The main body text » Text	configure -
	Author » User roles	configure -
	Item language	configure -

ENABLED	FACET	OPERATIONS
	Promoted to frontpage	configure -
0	Sticky in lists	configure -
	Content type	configure -
	Date created	configure -
	Date changed	configure -
	Author	configure -
	Node access information	configure -
	Comment count	configure -
	Author » Name	configure -
	The main body text » Text	configure -
	Author » User roles	configure -
	Item language	configure -

ENABLED	FACET	OPERATIONS
	Author	configure -
0	Node access information	configure -
	Comment count	configure ▼
	Author » Name	configure -
	The main body text » Text	configure -
	Author » User roles	configure -
	Item language	configure -

Block cache settings

Do not cache

Save configuration

ENABLED	FACET	OPERATIONS
	Author	configure -
	Node access information	configure -
	Comment count	configure -
	Author » Name	configure -
	The main body text » Text	configure -
	Author » User roles	configure -
	Item language	configure -

Block cache settings

Do not cache

Save configuration

View index

STATUS

SETTINGS

FIELDS

WORKFLOW

FACETS



- The configuration options have been saved.
- To enable or arrange the facet blocks, visit the blocks administration page.

The *Blocks* realm displays each facet in a separate block. Users are able to refine their searches in a drill-down fashion.

For performance reasons, you should only enable facets that you intend to have available to users on the search page.

ENABLED	FACET	OPERATIONS
	Title	configure -
	Status	configure ▼
	Promoted to frontpage	configure ▼

Home » Administration » Configuration » Search and metadata » Search API » View index

View index

STATUS

SETTINGS

FIELDS

WORKFLOW

FACETS



- The configuration options have been saved.
- To enable or arrange the facet blocks, visit the <u>blocks administration</u> <u>page</u>.

The *Blocks* realm displays each facet in a separate block. Users are able to refine their searches in a drill-down fashion.

For performance reasons, you should only enable facets that you intend to have available to users on the search page.

	ENABLED	FACET	OPERATIONS
		Title	configure -
		Status	configure -
	0	Promoted to frontpage	configure -
localhost/	/drupal/drupal/admin/structu	re/block?destination=admin/config/search/search_api/index/default	_node_index/facets

Blocks

GARLAND

BARTIK

SEVEN

This page provides a drag-and-drop interface for assigning a block to a region, and for controlling the order of blocks within regions. Since not all themes implement the same regions, or display regions in the same way, blocks are positioned on a per-theme basis. Remember that your changes will not be saved until you click the *Save blocks* button at the bottom of the page. Click the *configure* link next to each block to configure its specific title and visibility settings.

Demonstrate block regions (Garland)

♣ Add block

Show row weights

Left sidebar

No blocks in this region

Right sidebar

Show row weights

BLOCK	REGION	OPERATIONS
Left sidebar		
No blocks in this region		
Right sidebar		_
+ Current search: Standard	Right sidebar	configure
Facet API: Search service: Default node index : Author	Right sidebar	configure
Facet API: Search service: Default node index : Date created	Right sidebar	configure
Facet API: Search service: Default node index : Content type	Right sidebar	configure
Content		
Main page content	Content	configure

BLOCK	REGION	OPERATIONS
Recent comments	- None -	configure
Recent content	- None -	configure
Switch user	- None -	configure
+ Syndicate	- None -	configure
♣ User login	- None -	configure
	- None -	configure
♣ Who's new	- None -	configure
Who's online	- None -	configure

Save blocks

BLOCK	REGION	OPERATIONS
Recent comments	- None -	configure
+ Recent content	- None -	configure
Switch user	- None -	configure
+ Syndicate	- None -	configure
+ User login	- None -	configure
+ User menu	- None -	configure
+ Who's new	- None -	configure
Who's online	- None -	configure

Saveыlocks

Home » Administration » Configuration » Search and metadata » Search API » View index

View index

STATUS

SETTINGS

FIELDS

WORKFLOW

FACETS



The block settings have been updated.

The *Blocks* realm displays each facet in a separate block. Users are able to refine their searches in a drill-down fashion.

For performance reasons, you should only enable facets that you intend to have available to users on the search page.

ENABLED	FACET	OPERATIONS
	Title	configure -
	Status	configure -
	Promoted to frontpage	configure -
	Sticky in lists	configure ▼

Current search Test search Search found 159 items **Content type** Keywords macto Apply - Any macto Filter by content type: Author Title Type Created Basic page (86) Article (73) 06/03/2012 Macto Virtus Article regare Macto Persto Filter by author: bridriswebes Article 01/31/2012 Wisi spetaswicle (11) Illum Macto Basic stophaw (11) 04/29/2012 crodrecur Utrum page frodiwrasho (10) Macto Nostrud phudriro (10) pefrebribras Article 08/10/2011 Rusticus Tation vivacaprut (10) Hos Iusto Show more Basic 07/30/2012 vivacaprut Macto Ymo page Filter by date created: Distineo Macto phudriro Article 10/11/2011 May 2012 (16) Ratis Vel June 2012 (15) Ad Amet Macto Basic stophaw 08/30/2011 November 2011 (15) Quidem page

macto

Keywords Content type

- Any - ‡

Apply

Author	Title	Туре	Created
regare	Macto Virtus	Article	06/03/2012
bridriswebes	Macto Persto Wisi	Article	01/31/2012
crodrecur	Illum Macto Utrum	Basic page	04/29/2012
pefrebribras	Macto Nostrud Rusticus Tation	Article	08/10/2011
vivacaprut	Hos Iusto Macto Ymo	Basic page	07/30/2012
phudriro	Distineo Macto Ratis Vel	Article	10/11/2011
stophaw	Ad Amet Macto	Basic	08/30/2011

Current search

Search found 159 items

macto

Filter by content type:

- O Basic page (86)
- Article (73)

Filter by author:

- o spetaswicle (11)
- stophaw (11)
- o frodiwrasho (10)
- phudriro (10)
- vivacaprut (10)

Show more

Filter by date created:

- O May 2012 (16)
- June 2012 (15)
- November 2011 (15)

localhost/drupal/drupal/test-search?search_api_views_fulltext=macto&f[0]=author:17

Keywords Content type

macto - Any -

Apply

Author	Title	Туре	Created
spetaswicle	Abico Damnum Saepius	Article	11/16/2011
spetaswicle	Interdico Molior Odio Refero	Article	09/19/2011
spetaswicle	Abdo Amet Praesent Wisi	Basic page	06/27/2012
spetaswicle	Ea Esca Huic	Basic page	08/16/2011
spetaswicle	Camur Distineo In Saepius	Basic page	06/03/2012
spetaswicle	Molior Odio	Article	05/08/2012
spetaswicle	Consectetuer Pagus Sed Sit	Basic page	12/05/2011

Current search

Search found 11 items

- macto
- (-) spetaswicle

Filter by content type:

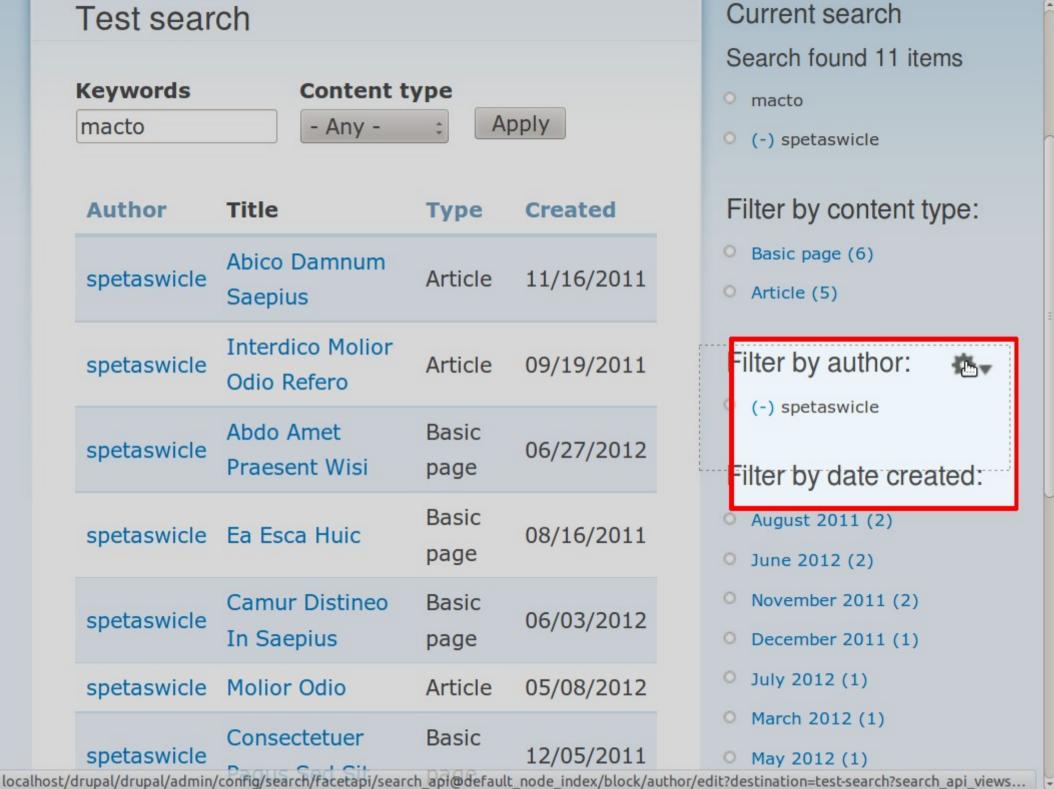
- Basic page (6)
- O Article (5)

Filter by author:

(-) spetaswicle

Filter by date created:

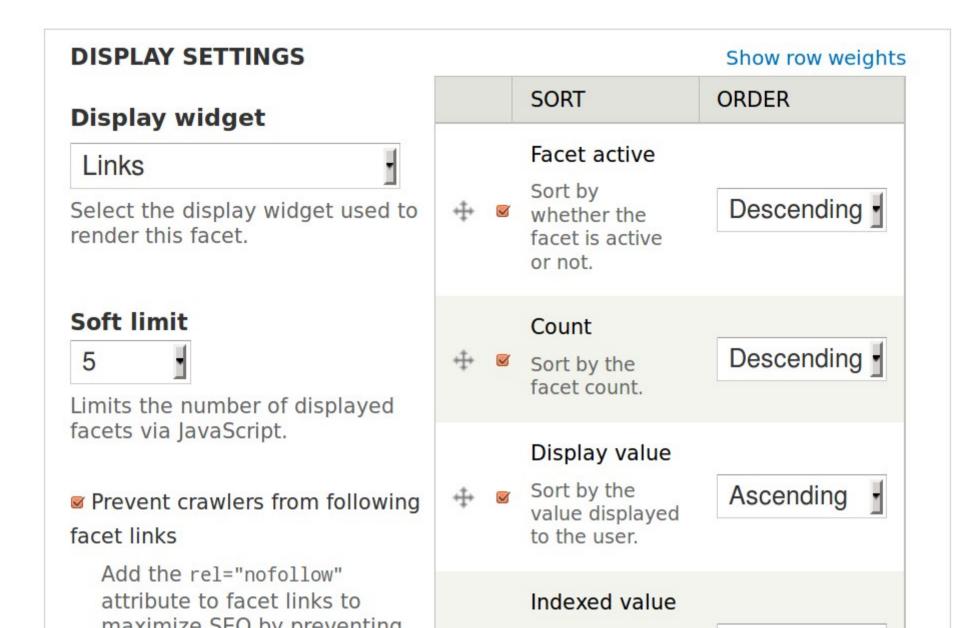
- August 2011 (2)
- O June 2012 (2)
- November 2011 (2)
- December 2011 (1)
- O July 2012 (1)
- March 2012 (1)
- May 2012 (1)



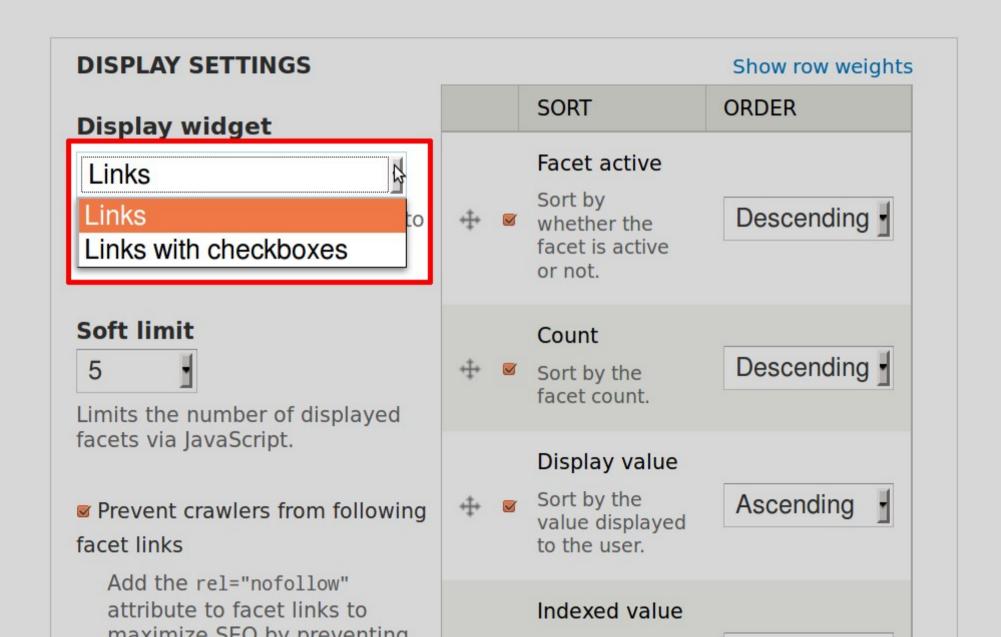
Current search Test search Search found 11 items **Keywords Content type** macto Apply - Any macto (-) spetaswicle Filter by content type: Author **Title** Type Created Basic page (6) Abico Damnum spetaswicle 11/16/2011 Article Article (5) Saepius Interdico Molior Filter by author: 09/19/2011 **₽** • spetaswicle Article Odio Refero Configure facet display Configure facet dependencies Abdo Amet Basic 06/27/2012 spetaswicle Configure facet filters Praesent Wisi page Configure block Basic August 2011 (2) spetaswicle Ea Esca Huic 08/16/2011 page June 2012 (2) November 2011 (2) Camur Distineo Basic spetaswicle 06/03/2012 In Saepius December 2011 (1) page July 2012 (1) spetaswicle 05/08/2012 Molior Odio Article March 2012 (1) Consectetuer Basic spetaswicle 12/05/2011 May 2012 (1)

localhost/drupal/drupal/admin/config/search/facetapi/search_api@default_node_index/block/author/edit?destination=test-search?search_api_views...

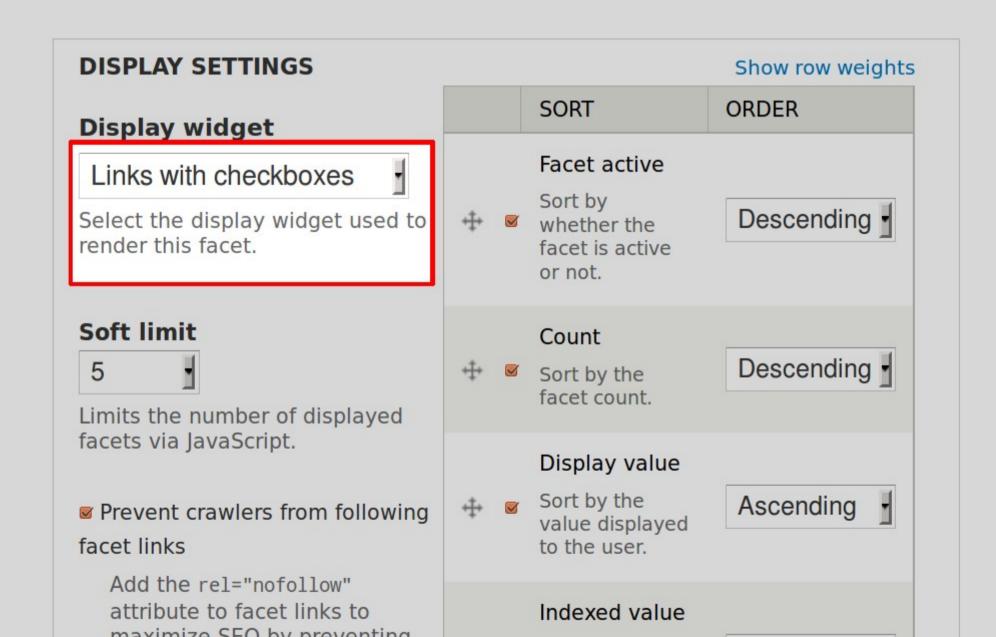
Configure facet display



Configure facet display



Configure facet display



Empty facet behavior

Do not display facet

The action to take when a facet has no items.

GLOBAL SETTINGS

The configuration options below apply to this facet across all realms.

Operator

- AND
- OR

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

Hard limit

50

Display no more than this number of facet items.

Minimum facet count

1

Only display facets that are matched in at least this many documents.

Empty facet behavior

Do not display facet

The action to take when a facet has no items.

GLOBAL SETTINGS

The configuration options below apply to this facet across all realms.

Operator

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- OR

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The action to take when a facet has no items.

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

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50

Display no more than this number of facet items.

Minimum facet count

1

Only display facets that are matched in at least this many documents.

set. OR filters are inclusive and widen the result set.

Minimum facet count

1

Only display facets that are matched in at least this many documents.

Add facet for missing values

- No
- Yes

Adds an extra facet matching documents with no value at all for this field.

Save and go back to search page

Cancel

set. OR filters are inclusive and widen the result set.

Minimum facet count

1

Only display facets that are matched in at least this many documents.

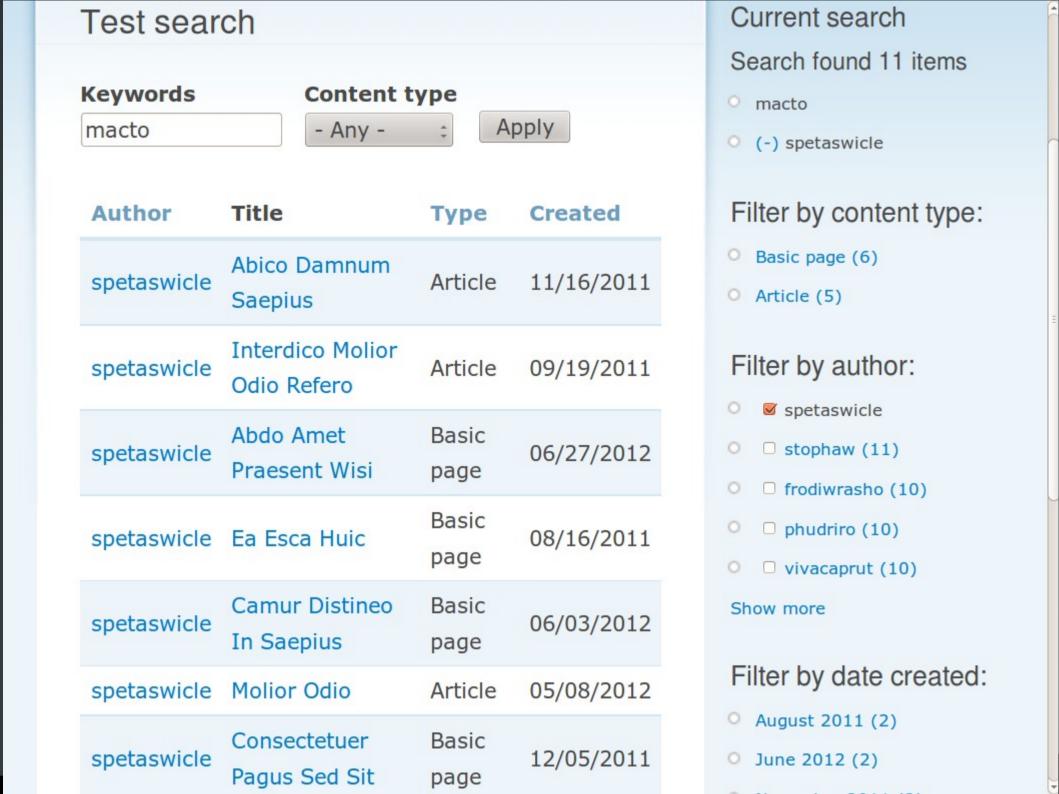
Add facet for missing values

- No
- Yes

Adds an extra facet matching documents with no value at all for this field.

Save and go back to search page

Cancel



Keywords Content type

macto - Any -

Apply

Author	Title	Туре	Created
spetaswicle	Abico Damnum Saepius	Article	11/16/2011
spetaswicle	Interdico Molior Odio Refero	Article	09/19/2011
spetaswicle	Abdo Amet Praesent Wisi	Basic page	06/27/2012
spetaswicle	Ea Esca Huic	Basic page	08/16/2011
spetaswicle	Camur Distineo In Saepius	Basic page	06/03/2012
spetaswicle	Molior Odio	Article	05/08/2012
spetaswicle	Consectetuer Pagus Sed Sit	Basic page	12/05/2011

Current search

Search found 11 items

- macto
- (-) spetaswicle

Filter by content type:

- Basic page (6)
- O Article (5)

Filter by author:

- spetaswicle
- o stophaw (11)
- o frodiwrasho (10)
- phudriro (10)
- vivacaprut (10)

Show more

- August 2011 (2)
- June 2012 (2)

Macto Content type - Any -

Author	Title	Туре	Created
stophaw	Ad Amet Macto Quidem	Basic page	08/30/2011
stophaw	Loquor Mos Saepius	Article	10/25/2011
spetaswicle	Abico Damnum Saepius	Article	11/16/2011
spetaswicle	Interdico Molior Odio Refero	Article	09/19/2011
stophaw	Exputo Paulatim Ratis	Article	08/21/2011
stophaw	Consequat Conventio Nibh Pagus	Article	03/03/2012

Apply

Current search

Search found 22 items

- macto
- (-) spetaswicle
- (-) stophaw

Filter by content type:

- O Article (12)
- Basic page (10)

Filter by author:

- spetaswicle
- **Stophaw**
- □ frodiwrasho (10)
- phudriro (10)
- vivacaprut (10)

Show more

Filter by date created:

August 2011 (4)

Extension modules



Search API Autocomplete

- Allows autocompletion for fulltext fields
- Works for both views and pages
- (Currently only works with Solr)
- http://drupal.org/project/search_api_autocomplete



Search API

OVERVIEW

SEARCH PAGES



The Solr server could be reached.

♣ Add server
♣ Add index

STATUS	TYPE	NAME	OPERATIO	OPERATIONS		
•	Server	Test server	disable	edit	delete	
	Index	Default node index	disable	edit delete Status Settings Fields Workflow		
				Autoo Facet	complete	

Search API

OVERVIEW

SEARCH PAGES



The Solr server could be reached.

♣ Add server
♣ Add index

STATUS	TYPE	NAME	OPERATIO	OPERATIONS		
•	Server	Test server	disable	edit	delete	
•	Index	Default node index	disable	edit Statu Settir Fields Workt	ngs S	
				Autoc Facet	<u>complete</u> s	

View index

STATUS

SETTINGS

FIELDS

WORKFLOW

AUTOCOMPLETE

SEARCH VIEWS

Searches provided by the Search views module.

NAME	OPERATIONS

Test search

Save

Home » Administration » Configuration » Search and metadata » Search API » View index

View index

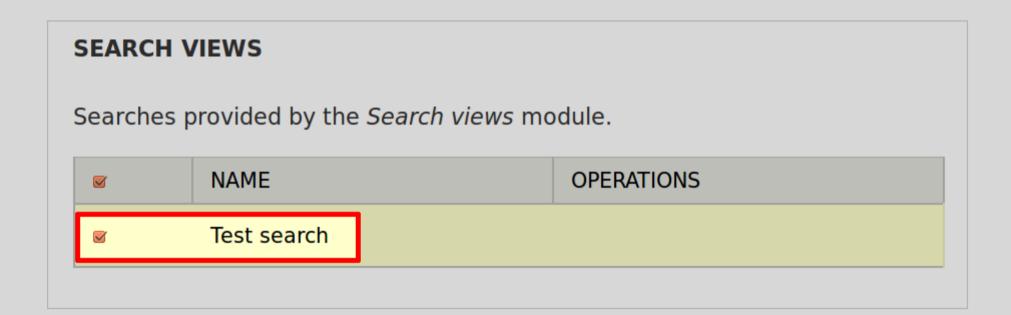
STATUS

SETTINGS

FIELDS

WORKFLOW

AUTOCOMPLETE



Save

View index

STATUS

SETTINGS

FIELDS

WORKFLOW

AUTOCOMPLETE

SEARCH VIEWS

Searches provided by the Search views module.

■ NAME OPERATIONS

Test search



Home » Administration » Configuration » Search and metadata » Search API » View index

View index

STATUS

SETTINGS

FIELDS

WORKFLOW

AUTOCOMPLETE



The settings have been saved.

SEARCH VIEWS

Searches provided by the Search views module.

	NAME	OPERATIONS	
✓	Test search	edit delete	

Save

Author

Keywords Content type - Any - Apply

Title

Autnor	litie	Туре	Created
frodiwrasho	Ea Pneum	Article	05/19/2012
regare	Dolus Mos Praesent	Basic page	10/03/2011
regare	Commodo Inhibeo	Article	12/24/2011
stophaw	Gilvus Roto Torqueo Vicis	Article	10/22/2011
potrujido	Eligo Et Iusto	Basic page	01/20/2012
thethitr	Abluo Mos	Article	10/17/2011
pefrebribras	Commodo Iriure Refero	Article	11/13/2011

Dignissim Illum

Current search

Search found 250 items

[all items]

Created

Filter by content type:

- Basic page (136)
- Article (114)

Filter by author:

- stophaw (18)
- spetaswicle (17)
- bridriswebes (16)
- lucoshuwrer (16)
- o potrujido (15)

Show more

- January 2012 (28)
- August 2011 (27)
- December 2011 (27)



Current search

Search found 250 items

[all items]

Filter by content type:

- Basic page (136)
- Article (114)

Filter by author:

- stophaw (18)
- spetaswicle (17)
- bridriswebes (16)
- lucoshuwrer (16)
- o potrujido (15)

Show more

- January 2012 (28)
 - August 2011 (27)
- December 2011 (27)



Current search

Search found 250 items

[all items]

Filter by content type:

- Basic page (136)
- Article (114)

Filter by author:

- stophaw (18)
- spetaswicle (17)
- bridriswebes (16)
- lucoshuwrer (16)
- o potrujido (15)

Show more

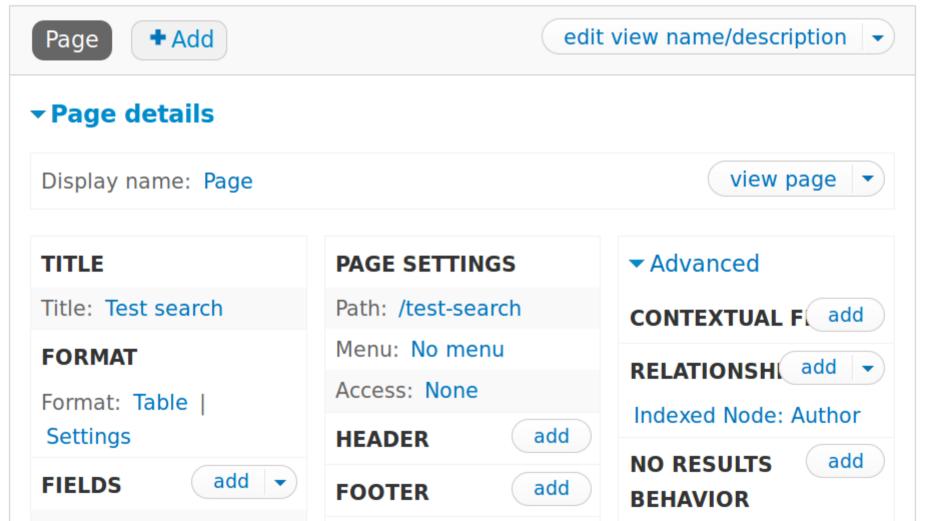
- January 2012 (28)
- August 2011 (27)
- December 2011 (27)

Search API Spellcheck

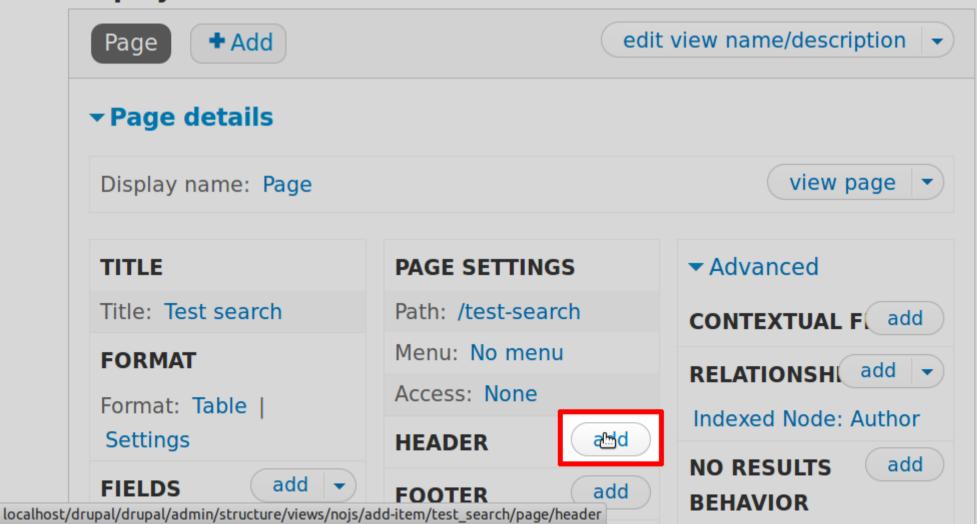
- Suggests alternate spellings
- Works for both views and pages
- (Currently only works with Solr)
- http://drupal.org/project/search_api_spellcheck

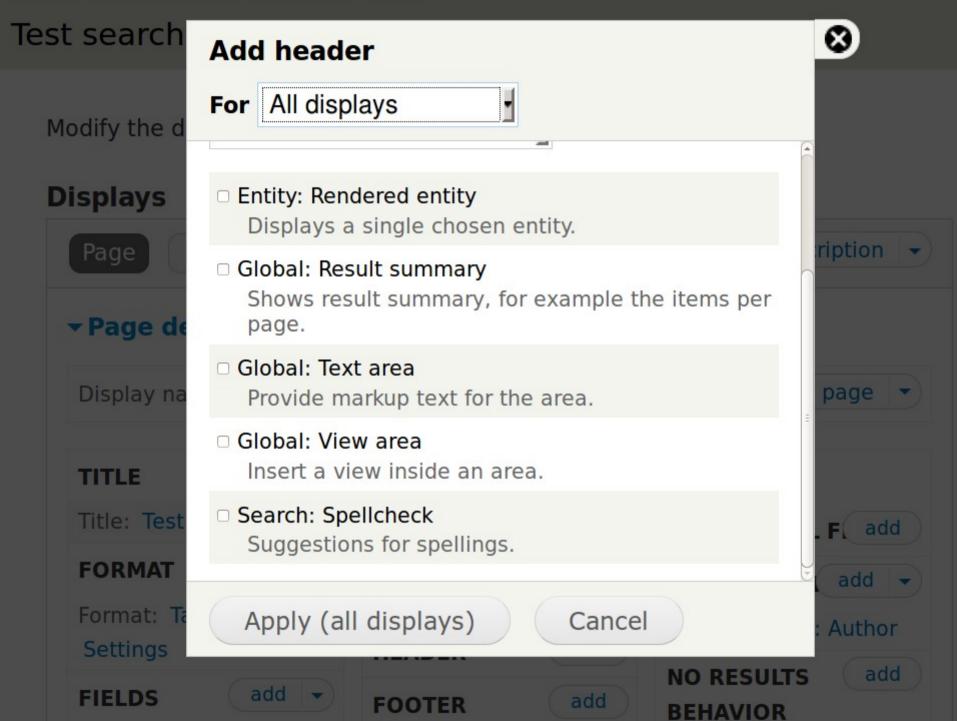


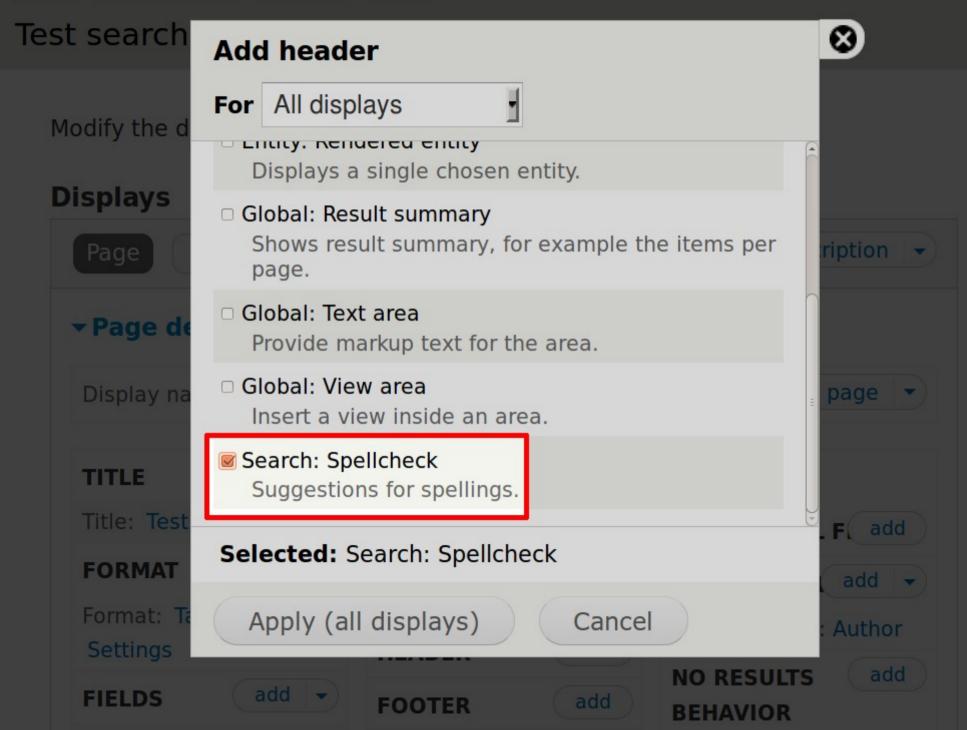
Modify the display(s) of your view below or add new displays.



Modify the display(s) of your view below or add new displays.







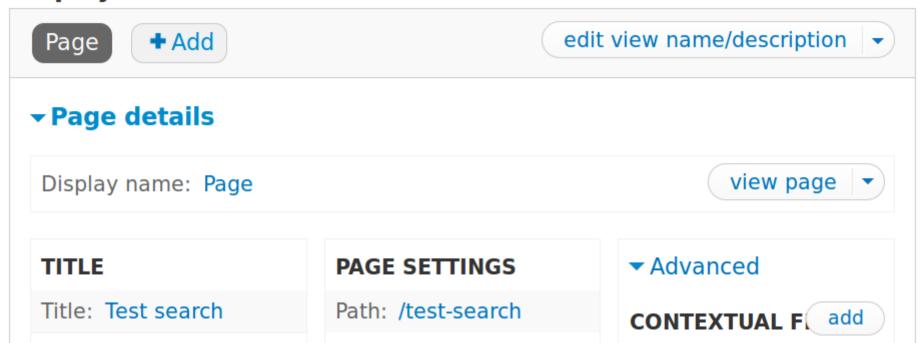


* All changes are stored temporarily. Click Save to make your changes permanent. Click Cancel to discard your changes.

Modify the display(s) of your view below or add new displays.

Save

Cancel

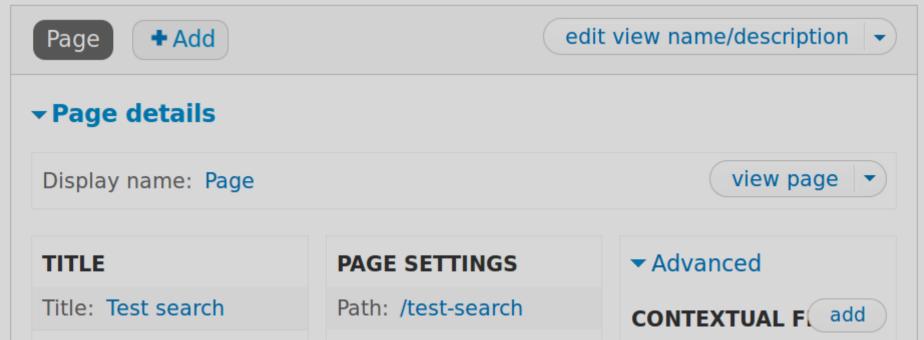




* All changes are stored temporarily. Click Save to make your changes permanent. Click Cancel to discard your changes.

Modify the display(s) of your view below or add new displays.

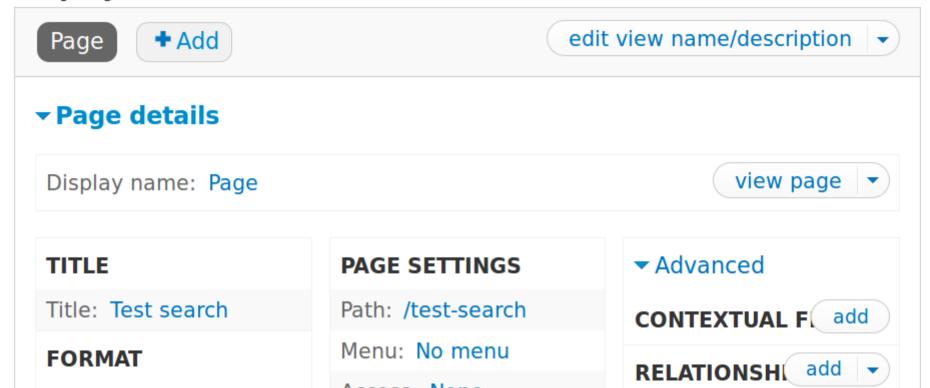






The view *Test search* has been saved.

Modify the display(s) of your view below or add new displays.



My account

Log out

Home > matco

Test search

Did you mean: macto?

Keywords

Content type

matco

- Any -

Apply

Powered by Drupal

Current search

Search found 0 items

matco

Miscellaneous



Comparison of Solr modules

Search API

- Very flexible
- All entities supported
- Switching of backends
- Better Views integration

Apachesolr

- Optimized for standard use case
- Good support of multisite searches
- Non-node entities with additional modules
- Also available for D6

Search API BoF

• Wednesday, 15:15, Chamonix





What did you think?

Locate this session on the DrupalCon Munich website:

http://munich2012.drupal.org/program

Thank you!