

Configurable Browse

Motivations

- Improved Scalability
 - Quicker end-user access
 - Intelligent indexing
- Arbitrary sort indices
- Additional features
 - Arbitrary sort fields
 - Cross-links between browse contexts

Configuration

Specifying the indices

```
webui.browse.index.<n> = <index name> : item : <sort option name>
```

```
webui.browse.index.<n> = <index name> : metadata : <metadata> : <datatype>
```

```
webui.browse.index.1 = dateissued:item:dateissued
```

```
webui.browse.index.2 = author:metadata:dc.contributor.*:text
```

```
webui.browse.index.3 = title:item:title
```

```
webui.browse.index.4 = subject:metadata:dc.subject.*:text
```

```
webui.browse.index.5 = dateaccessioned:item:dateaccessioned
```

This lets us define which fields to index on, and whether those fields are single lists of distinct metadata (<metadata>), or whether they are views on the whole list of items in the database as displayed by the itemlist configuration (<item>).

In the latter case, no metadata field need be specified, as it's display is dependent on the desired sort options which way results are presented

Browsing by Title

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or enter first few letters:

Order: Results/Page Authors/Record:

Showing results 1 to 20 of 123261

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Issue Date	Title	Imperial Author(s)	Type	Task Owner
1979	.	Leatherbarrow, Robin	Chapter	-
2005	A 0.8 V, 360 nW Gm-C biquad based on FG MOS transistors	Rodriguez Villegas, Esther	Conference	-
2005	A 0.9 V offset compensated FG MOS comparator	Rodriguez Villegas, Esther	Conference	-
Apr-2005	A 1000-measurement frames/second ERT data capture system with real-time visualization	Cilliers, Johannes	Journal	-

Browsing by Imperial Author

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or enter first few letters:

Order: Results/Page

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[Aanensen, David](#)

[Abadir, Karim](#)

[Abanades, Sergio](#)

[Abbas, Ali](#)

[Abdalla, Saad](#)

[Abellan Andres, Juan](#)

[Abel, Paul](#)

[Aboagye, Eric](#)

[Acha, Virginia](#)

[Acquillo, Giuseppe](#)

Configuration

Sort options

```
webui.browse.sort-option.<n> = <option name> : <metadata> : <datatype>
```

```
webui.browse.sort-option.1 = title:dc.title:title
```

```
webui.browse.sort-option.2 = dateissued:dc.date.issued:date
```

```
webui.browse.sort-option.3 = dateaccessioned:dc.date.accessioned:date
```

This allows us to define which fields full lists of individual items will be sortable by. In the case of <item> browse indices (see previous section), these will define the sort order of that index. In the case of metadata browse, these will define the fields by which individual metadata browse contexts are sortable by. For example:

Browsing by Imperial Author “Aanensen, David”

as shown on the next page.

Browsing by Imperial Author "Aanensen, David"

Jump to a point in the index: (Choose year) (Choose month)

Or type in a year:

Sort by: Order: Results/Page Authors/Record:

Showing results 1 to 16 of 16

Browsing by Imperial Author "Aanensen, David"

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or enter first few letters:

Sort by: Order: Results/Page Authors/Record:

Showing results 1 to 16 of 16

Configuration

Database field sizes

```
# Size of field for the browse value
#
webui.browse.value_columns.max = 500

# Size of field for hidden sort columns
webui.browse.sort_columns.max = 200

# Omission mark to place after truncated strings in display.
# The default is "...".
#
webui.browse.value_columns.omission_mark = ...
```

This allows us to decide how much data is stored in the database sort fields, which can reduce the amount of data stored, reduce the amount of time queries take to execute, but can increase the likelihood of mis-ordering result sets. The values you use will be dependent on the sort of metadata content you are indexing on

Configuration

Author field truncation

```
# the author metadata field
webui.browse.author-field = dc.contributor.*

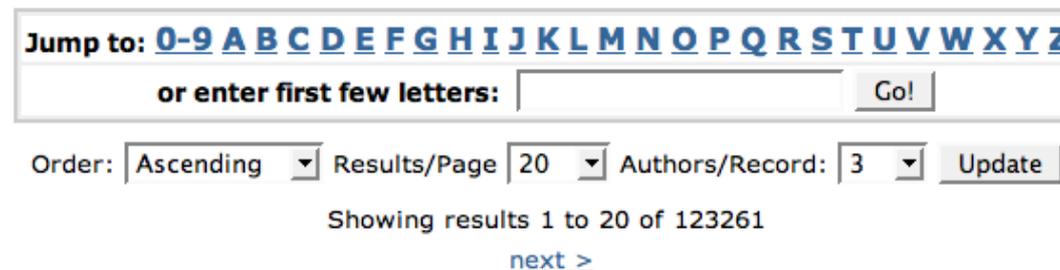
# define how many authors to display before truncating and
# completing with "et al"
#
# webui.browse.author-limit = 3
```

For author fields, which may consist of long lists on authors, this allows us to even out the display of the field by truncating after the given number of entries, and appending with “et al”. For example, with a limit of 1, this presentation might appear as:

Rutherford, James et al

This parameter can also be modified by the end-user during browsing :

Browsing by Title



The screenshot shows a web interface for browsing by title. At the top, there is a search bar with the text "Jump to: 0-9 A B C D E F G H I J K L M N O P Q R S T U V W X Y Z" and a "Go!" button. Below the search bar, there is a text input field with the placeholder "or enter first few letters:". Below the input field, there are three dropdown menus: "Order:" with "Ascending" selected, "Results/Page" with "20" selected, and "Authors/Record:" with "3" selected. To the right of these dropdowns is an "Update" button. At the bottom, there is a status line that reads "Showing results 1 to 20 of 123261" and a "next >" link.

Configuration

Cross linking browse contexts

```
webui.browse.link.<n> = <index name>:<display column metadata>
```

```
webui.browse.link.1 = author:dc.contributor.*
```

```
webui.browse.link.2 = subject:dc.subject.*
```

This allows you to set links in your browse listing which will take users to other kinds of browse listings (that is, they cross-link between browse contexts). For example, the above two configuration options will link the contents of any column in the listing (`webui.itemlist.columns`) matching the given metadata field to the browse context to which this is the primary data.

Therefore, all author names will link to lists of all items by that author, and all subjects will link to all items with that subject.

Configuration

Recent Submissions

```
recent.submissions.index = dateaccessioned
```

```
recent.submissions.count = 5
```

```
plugin.sequence.org.dspace.plugin.CommunityHomeProcessor = \  
    org.dspace.app.webui.components.RecentCommunitySubmissions
```

```
plugin.sequence.org.dspace.plugin.CollectionHomeProcessor = \  
    org.dspace.app.webui.components.RecentCollectionSubmissions
```

Recent submissions are listed traditionally on Community and Collection home pages. Now we have 2 interfaces “CommunityHomeProcessor” and “CollectionHomeProcessor” which are used to load the recent submissions based on the above configuration. They are sorted by the given browse index field, and the total number that are returned can be specified

Example 1

To browse only full lists of items by title, unique identifier, and issue date. To have these three options displayed in the navigation on the left, and to list the value of each of these fields in the browse listing.

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```
webui.browse.index.1 = title:item:title-sort
webui.browse.index.2 = identifier:item:identifier-sort
webui.browse.index.3 = issued:item:issued-sort

webui.browse.sort-option.1 = title-sort:dc.title:text
webui.browse.sort-option.2 = identifier-sort:dc.identifier:text
webui.browse.sort-option.3 = issued-sort:dc.date.issued:date

webui.itemlist.columns = dc.date.issued(date), dc.title, dc.identifier
```

Example 2

To browse lists of individual metadata elements in the archive: issn, author, subject and separately MESH subject headings. We want to sort the item lists behind each of these browse contexts by issue date or title (i.e. All items by author “Jones, R” can be viewed sorted by either of these values). We also want to cross-link for authors and subjects from the item list

Example 2

To browse lists of individual metadata elements in the archive: issn, author, subject and separately MESH subject headings. We want to sort the item lists behind each of these browse contexts by issue date or title (i.e. All items by author “Jones, R” can be viewed sorted by either of these values). We also want to cross-link for authors and subjects from the item list

```
webui.browse.index.1 = issn:metadata:dc.identifier.issn:text
webui.browse.index.2 = author:metadata:dc.contributor.author:text
webui.browse.index.3 = subject:metadata:dc.subject.*:text
webui.browse.index.4 = mesh:metadata:dc.subject.mesh:text

webui.browse.sort-option.1 = title:dc.title:text
webui.browse.sort-option.2 = issued:dc.date.issued:date

webui.itemlist.columns = dc.date.issued(date), dc.title, \
                        dc.contributor.author, dc.subject

webui.browse.author-field = dc.contributor.*
webui.browse.author-limit = 2

webui.browse.link.1 = author:dc.contributor.*
webui.browse.link.2 = subject:dc.subject.*
```