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Reference:BlueSpiceExtendedSearch

Extension: BlueSpiceExtendedSearch

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Overview			
Description:	Elasticsearch search backend		
State:	stable	Dependency:	BlueSpice
Developer:	HalloWelt	License:	GPL-3.0-only
Type:	BlueSpice	Category:	Search and Navigation
Edition:	BlueSpice pro, BlueSpice free, BlueSpice Farm, BlueSpice Cloud	Version:	4.1+
? View user help page			

Features

ExtendedSearch replaces the default MediaWiki search engine. It is based on OpenSearch (up to BlueSpice 4.3: Elasticsearch), and provides many improvements over the standard MediaWiki search both in terms of quality of indexed content and user interface.

- Search titles.
- Search the full content.
- Search uploaded or linked files (Office documents and PDFs).
- Search image data.
- Search-as-you-type and auto-complete.
- Ignore upper and lower case (case-insensitive).
- Search with the operators AND, OR, NOT.
- Search with wildcards.
- Search for phrases.
- Fuzzy search.
- Search for sentence fragments.

Some aspects of this extension can be configured on [Special:BlueSpiceConfigManager](#), under section "ExtendedSearch". Here wiki administrators can configure:

- external file paths
- layout of the autocomplete box
- language filter

- exclude patterns

Boosting (server configuration)

For boosting by match percent, the following settings are available in the extension itself:

```
"ESRecentBoostFactor": {
  "description": "Value must be between 0 and 1. If set to 1, very recent pages will
almost double their score",
  "public": false,
  "value": "0.5"
},
"ESMatchPercentBoostFactor": {
  "description": "How much to boost the result based on the percent of its title taken
up by the search term. Set to 0 to disable",
  "public": false,
  "value": "0.5"
},
"ESMatchPercentTitleField": {
  "description": "Field on which to base the match percent boosting. If empty, default
title field of the source will be used",
  "public": false,
  "value": ""
}
```

System-wide boosting

By default, BlueSpice influences the score, after the results have been retrieved, in the following ways:

- **Creation date / last edit:** All things equal, more recently edited pages will rank higher. The amount of influence can be adjusted with '\$bsgESRecentBoostFactor' (default 0.5). The value for this can be a number between 0 and 1. 0 means that recency of the page does not change the score and 1 means that very recent changes might get their score doubled.
- **Percent of the page title taken up by the search term:** An additional score boost is assigned to results that match a larger part of the title. E.g., if the search term is "foo", a page called "Foo Bar" will have a good match percentage (50%), since the search term takes 50% of the full page name. The page "Foo quick brown fox jumps" will have a lower percentage boost, because the search term takes up only a small percentage of the whole title. This is controlled by '\$bsgESMatchPercentBoostFactor' (default 0.5). Same as for the previous setting, a value of 0 will effectively disable this kind of boosting, while 1 would double the score for exact matches (In our example, page "Foo Bar" would get 50% added to its original score).
- **Wikipages** will always be boosted a bit more than other results types (reprofile, socialentity, ...)
- Inside the "wiki page" type, pages in **content namespaces** and especially pages in **NS_MAIN** will be boosted additionally. Talk pages will receive no boost.

Additional configuration is possible for:

- **ESMatchPercentTitleField:** Field on which the match analysis is performed. Defaults to nothing, so whatever the search lookup sets. It can be set to "prefixed_text" to calculate match percent on the title with namespace prefix, for example, or to something like "basename" to calculate the match percent only on the page name, without the namespace prefix.

User-related boosting

Users can adjust how pages are ranked individually. Such adjustments will only be applied for search queries made by that user and do not affect global search ranking.

- **Preferred namespace:** On the page *Special:Preferences* (tab "Extended search"), a user can prioritize namespaces, so that pages in those namespaces will be ranked a bit higher.
- **Favourite results:** In the list of search results, each result has a little "star"-button in the top right corner. Clicking this marks a result as "favorite" for the user who clicked it. This means that this particular result will be boosted more than other results.

Technical Information

This information applies to BlueSpice 4. Technical details for BlueSpice Cloud can differ in some cases.

Requirements

MediaWiki: 1.37.0
BlueSpiceFoundation: 4.1

Integrates into

- BlueSpiceArticleInfo
- BlueSpiceExtendedSearch
- BlueSpiceExtendedStatistics
- BlueSpicePrivacy
- BlueSpiceSimpleFarmer
- BlueSpiceTagCloud
- BlueSpiceVisualEditorConnector
- ContentDroplets
- VisualEditor

Special pages

- BSSearchAdmin
- BSSearchCenter

Permissions

Name	Description	Role
extendedsearch-search-externalfile	Search for external files	accountmanager, admin, author, bot, commenter, editor, maintenanceadmin, reader, reviewer, structuremanager
extendedsearch-	Search for	accountmanager, admin, author, bot, commenter, editor,

Name	Description	Role
search-repofile	files	maintenanceadmin, reader, reviewer, structuremanager
extendedsearch-search-specialpage	Search for special pages	accountmanager, admin, author, bot, commenter, editor, maintenanceadmin, reader, reviewer, structuremanager
extendedsearch-search-wikipage	Search for pages	accountmanager, admin, author, bot, commenter, editor, maintenanceadmin, reader, reviewer, structuremanager

Configuration

Name	Value
ESAllowIndexingDocumentsWithoutContent	true
ESAutoRecognizeSubpages	true
ESAutoSetLangFilter	false
ESBackendClass	'\\BS\\ExtendedSearch\\Backend'
ESBackendHost	'127.0.0.1'
ESBackendPassword	"
ESBackendPort	'9200'
ESBackendTransport	'https'
ESBackendUsername	"
ESCompactAutocomplete	true
ESDefaultSearchOperator	'AND'
ESEnableSearchHistoryTracking	true
ESEnableTypeFilter	true
ESExternalFilePaths	array ()
ESIndexPrefix	"
	array (0 => '[0-9]{2}\\-[0-9]{2}\\-[0-9]{4}', 1 => '[0-9]{4}\\-[0-9]{2}\\-[0-9]{2}', 2 => '[0-9]{2}\\-[0-9]{4}\\-[0-9]{2}', 3 => '[0-9]{2}\\W[0-9]{2}\\W[0-9]{4}', 4 => '[0-9]{4}\\W[0-9]{2}\\W[0-9]{2}', 5 => '[0-9]{2}\\W[0-9]{4}\\W[0-

Name	Value
ESLookupModifierRegExPatterns	9]{2}', 6 => '[0-9]{2}\\. [0-9]{2}\\. [0-9]{4}', 7 => '[0-9]{4}\\. [0-9]{2}\\. [0-9]{2}', 8 => '[0-9]{2}\\. [0-9]{4}\\. [0-9]{2}', 9 => '[0-9]{2}\\\\ [0-9]{2}\\\\ [0-9]{4}', 10 => '[0-9]{4}\\\\ [0-9]{2}\\\\ [0-9]{2}', 11 => '[0-9]{2}\\\\ [0-9]{4}\\\\ [0-9]{2}', 12 => '[0-9]{1}\\. [0-9]{2}\\. [0-9]{4}', 13 => '[0-9]{4}\\. [0-9]{2}\\. [0-9]{1}', 14 => '[0-9]{1}\\. [0-9]{4}\\. [0-9]{2}', 15 => '[0-9]{4}\\. [0-9]{1}\\. [0-9]{2}', 16 => '[0-9]{2}\\. [0-9]{4}\\. [0-9]{1}', 17 => '[0-9]{2}\\. [0-9]{1}\\. [0-9]{4}', 18 => '[0-9]{1}\\\\ [0-9]{2}\\\\ [0-9]{4}', 19 => '[0-9]{4}\\\\ [0-9]{2}\\\\ [0-9]{1}', 20 => '[0-9]{1}\\\\ [0-9]{4}\\\\ [0-9]{2}', 21 => '[0-9]{4}\\\\ [0-9]{1}\\\\ [0-9]{2}', 22 => '[0-9]{2}\\\\ [0-9]{4}\\\\ [0-9]{1}', 23 => '[0-9]{2}\\\\ [0-9]{1}\\\\ [0-9]{4}', 24 => '[0-9]{1}\\. [0-9]{2}\\. [0-9]{4}', 25 => '[0-9]{4}\\. [0-9]{2}\\. [0-9]{1}', 26 => '[0-9]{1}\\. [0-9]{4}\\. [0-9]{2}', 27 => '[0-9]{4}\\. [0-9]{1}\\. [0-9]{2}', 28 => '[0-9]{2}\\. [0-9]{4}\\. [0-9]{1}', 29 => '[0-9]{2}\\. [0-9]{1}\\. [0-9]{4}', 30 => '[0-9]{1}\\\\ [0-9]{2}\\\\ [0-9]{4}', 31 => '[0-9]{4}\\\\ [0-9]{2}\\\\ [0-9]{1}', 32 => '[0-9]{1}\\\\ [0-9]{4}\\\\ [0-9]{2}', 33 => '[0-9]{4}\\\\ [0-9]{1}\\\\ [0-9]{2}', 34 => '[0-9]{2}\\\\ [0-9]{4}\\\\ [0-9]{1}', 35 => '[0-9]{2}\\\\ [0-9]{1}\\\\ [0-9]{4}', 36 => '[0-9]{2}\\. [0-9]{2}\\. [0-9]{2}', 37 => '[0-9]{2}\\\\ [0-9]{2}\\\\ [0-9]{2}', 38 => '[0-9]{2}\\. [0-9]{2}\\. [0-9]{2}', 39 => '[0-9]{2}\\\\ [0-9]{2}\\\\ [0-9]{2}', 40 => '[0-9]{1}\\. [0-9]{1}\\. [0-9]{4}', 41 => '[0-9]{4}\\. [0-9]{1}\\. [0-9]{1}', 42 => '[0-9]{1}\\. [0-9]{4}\\. [0-9]{1}', 43 => '[0-9]{1}\\\\ [0-9]{1}\\\\ [0-9]{4}', 44 => '[0-9]{4}\\\\ [0-9]{1}\\\\ [0-9]{1}', 45 => '[0-9]{1}\\\\ [0-9]{4}\\\\ [0-9]{1}', 46 => '[0-9]{1}\\. [0-9]{1}\\. [0-9]{4}', 47 => '[0-9]{4}\\. [0-9]{1}\\. [0-9]{1}', 48 => '[0-9]{1}\\. [0-9]{4}\\. [0-9]{1}', 49 => '[0-9]{1}\\\\ [0-9]{1}\\\\ [0-9]{4}', 50 => '[0-9]{4}\\\\ [0-9]{1}\\\\ [0-9]{1}', 51 => '[0-9]{1}\\\\ [0-9]{4}\\\\ [0-9]{1}', 52 => '[0-9]{1}\\. [0-9]{1}\\. [0-9]{2}', 53 => '[0-9]{2}\\. [0-9]{1}\\. [0-9]{1}', 54 => '[0-9]{1}\\. [0-9]{2}\\. [0-9]{1}', 55 => '[0-9]{1}\\\\ [0-9]{1}\\\\ [0-9]{2}', 56 => '[0-9]{2}\\\\ [0-9]{1}\\\\ [0-9]{1}', 57 => '[0-9]{1}\\\\ [0-9]{2}\\\\ [0-9]{1}', 58 => '[0-9]{1}\\. [0-9]{1}\\. [0-9]{2}', 59 => '[0-9]{2}\\. [0-9]{1}\\. [0-9]{1}', 60 => '[0-9]{1}\\. [0-9]{2}\\. [0-9]{1}', 61 => '[0-9]{1}\\\\ [0-9]{1}\\\\ [0-9]{2}', 62 => '[0-9]{2}\\\\ [0-9]{1}\\\\ [0-9]{1}', 63 => '[0-9]{1}\\\\ [0-9]{2}\\\\ [0-9]{1}', 64 => '[0-9]{2}\\. [0-9]{4}', 65 => '[0-9]{2}\\\\ [0-9]{4}', 66 => '[0-9]{2}\\. [0-9]{4}', 67 => '[0-9]{2}\\\\ [0-9]{4}', 68 => '[0-9]{4}\\. [0-9]{2}', 69 => '[0-9]{4}\\\\ [0-9]{2}', 70 => '[0-9]{4}\\. [0-9]{2}', 71 => '[0-9]{4}\\\\ [0-9]{2}', 72 => '[0-9]{2}\\. [0-9]{2}', 73 => '[0-9]{2}\\\\ [0-9]{2}', 74 => '[0-9]{2}\\. [0-9]{2}', 75 => '[0-9]{2}\\\\ [0-9]{2}',)

Name	Value
ESMatchPercentBoostFactor	'0.5'
ESMatchPercentTitleField	"
ESOfferOperatorSuggestion	true
ESRecentBoostFactor	'0.5'
ESSearchCenterDefaultFilters	array (0 => 'namespace_text', 1 => 'categories',)
ESSearchInRawWikitext	true
ESSharedUploadsIndexPrefix	false
ESSourceConfig	array ('wikipage' => array ('skip_namespaces' => array (0 => 8, 1 => 9,),), 'repofile' => array ('extension_blacklist' => array (0 => 'mp4',), 'max_size' => 20000000,), 'externalfile' => array ('extension_blacklist' => array (0 => 'mp4',), 'max_size' => 20000000,),)
ESSubpageMasterFilterPatterns	array ()
ESSubpageMasterFilterUseRootOnly	true
ESUseSharedUploads	false
ESWildcardingOperators	array (0 => '+', 1 => ' ', 2 => '*', 3 => '(', 4 => ')', 5 => '~',)
ESWildcardingSeparators	array (0 => ',', 1 => '.', 2 => ';', 3 => '-', 4 => '_',)
ExtendedSearchExternalFilePathsExcludes	array ()
TagSearchSearchFieldTemplatePath	'/resources/templates'

API Modules

- [bs-extendedsearch-autocomplete](#)
- [bs-extendedsearch-query](#)
- [bs-extendedsearch-resultrelevance](#)
- [bs-extendedsearch-stats](#)
- [bs-extendedsearch-triggerupdate](#)
- [bs-extendedsearch-type-store](#)

Hooks

- [BSUEModulePDFBeforeCreatePDF](#)

- [BeforePageDisplay](#)
- [ChameleonSkinTemplateOutputPageBeforeExec](#)
- [GetPreferences](#)
- [LoadExtensionSchemaUpdates](#)
- [MWStakeCommonUIRegisterSkinSlotComponents](#)
- [MWStakeRunJobsTriggerRegisterHandlers](#)
- [NamespaceManager::editNamespace](#)
- [UserMergeAccountFields](#)

Accessibility

Test status:	2-testing complete
Checked for:	Web
Last test date:	2022-08-08
WCAG level:	AA
WCAG support:	partially supports (workaround:)
Comments:	• filter pills, buttons: don't indicate focus, so they cannot easily be opened with keyboard although technically it would already work. • all buttons announce "blank" and cannot be distinguished. erm:29483
Extension type:	core
Extension focus:	reader