

Reference:BlueSpiceExtendedSearch

Extension\ BlueSpiceExtendedSearch

Overview			
Description:	Elasticsearch search backend		
State:	stable	Dependency:	BlueSpice
Developer:	HalloWelt	License:	GPL-3.0-onlyProperty "BSExtensionInfoLicense" (as page type) with input value " GPL-3.0-only" contains invalid characters or is incomplete and therefore can cause unexpected results during a query or annotation process.
Type:	BlueSpice	Category:	Search and Navigation
Edition:	BlueSpice free, BlueSpice pro, BlueSpice Farm, BlueSpice Cloud		
View help page			

Features

ExtendedSearch replaces the default MediaWiki search engine. It is based on ElasticSearch engine, 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

Configuration (server)

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

```
"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": ""
},
```

Description:

- **ESMatchPercentBoostFactor:** The value here is multiplied by the the match percent and by the score of the document. Example: The search term is "Test". The search finds for example "Testpage" and - let's say - assigns a score of 20 to this result. Your search term matches 50 percent of the found name, so its match factor is 0.5. This factor is then multiplied by the value in this setting (by default 0.5), which gives the total boost factor of 0.25. The final score is calculated as "original score + (original score * boost factor)" => $20 + (20 * 0.25) = 20 + 5 = 25$. This means that because your search term matches 50% of the result, it got boosted by the factor of 5.
- **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.

Technical Information

This information applies to BlueSpice 3 . Technical details for BlueSpice cloud can differ in some cases.

Requirements

MediaWiki: 1.31
BlueSpiceFoundation: 3.2

Integrates into

- BlueSpiceArticleInfo
- BlueSpiceExtendedSearch
- BlueSpiceExtendedStatistics
- BlueSpicePrivacy
- BlueSpiceSimpleFarmer
- BlueSpiceTagCloud
- BlueSpiceVisualEditorConnector
- 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-repofile	Search for files	accountmanager, admin, author, bot, commenter, editor, 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'

Name	Value
ESBackendPort	'9200'
ESBackendTransport	'http'
ESCompactAutocomplete	false
ESDefaultSearchOperator	'AND'
ESEnableSearchHistoryTracking	true
ESEnableTypeFilter	true
ESExternalFilePaths	array ()
ESLookupModifierRegExPatterns	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[0-9]{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}\\W[0-9]{2}\\W[0-9]{4}', 10 => '[0-9]{4}\\W[0-9]{2}\\W[0-9]{2}', 11 => '[0-9]{2}\\W[0-9]{4}\\W[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}\\W[0-9]{2}\\W[0-9]{4}', 19 => '[0-9]{4}\\W[0-9]{2}\\W[0-9]{1}', 20 => '[0-9]{1}\\W[0-9]{4}\\W[0-9]{2}', 21 => '[0-9]{4}\\W[0-9]{1}\\W[0-9]{2}', 22 => '[0-9]{2}\\W[0-9]{4}\\W[0-9]{1}', 23 => '[0-9]{2}\\W[0-9]{1}\\W[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}\\W[0-9]{2}\\W[0-9]{4}', 31 => '[0-9]{4}\\W[0-9]{2}\\W[0-9]{1}', 32 => '[0-9]{1}\\W[0-9]{4}\\W[0-9]{2}', 33 => '[0-9]{4}\\W[0-9]{1}\\W[0-9]{2}', 34 => '[0-9]{2}\\W[0-9]{4}\\W[0-9]{1}', 35 => '[0-9]{2}\\W[0-9]{1}\\W[0-9]{4}', 36 => '[0-9]{2}\\-[0-9]{2}\\-[0-9]{2}', 37 => '[0-9]{2}\\W[0-9]{2}\\W[0-9]{2}', 38 => '[0-9]{2}\\.[0-9]{2}\\.[0-9]{2}', 39 => '[0-9]{2}\\W[0-9]{2}\\W[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}\\W[0-9]{1}\\W[0-9]{4}', 44 => '[0-9]{4}\\W[0-9]{1}\\W[0-9]{1}', 45 => '[0-9]{1}\\W[0-9]{4}\\W[0-9]{1}', 46 => '[0-9]{1}\\.[0-9]{1}\\.[0-9]{4}', 47 => '[0-9]

Name	Value
	<pre>{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}',)</pre>
ESMatchPercentBoostFactor	'0.5'
ESMatchPercentTitleField	"
ESOfferOperatorSuggestion	true
ESRecentBoostFactor	'0.5'
ESSearchCenterDefaultFilters	array (0 => 'namespace_text', 1 => 'categories',)
ESSearchInRawWikitext	true
ESSourceConfig	<pre>array ('wikiage' => 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,),)</pre>
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

- [BSInsertMagicAjaxGetData](#)
- [BSUEModulePDFBeforeCreatePDF](#)
- [BeforePageDisplay](#)
- [GetPreferences](#)
- [LoadExtensionSchemaUpdates](#)
- [NamespaceManager::editNamespace](#)
- [ResourceLoaderTestModules](#)
- [SkinTemplateOutputPageBeforeExec](#)