

Solrizer - How to

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Dynamic Field Names defined by Blacklight

Extensions based on data type and how the field will be indexed...

data type field parameters	text (_t...)	English text (_te...)	string (_s...)	integer (_i...)	date time (dt...)	boolean (_b...)	comments
indexed only (...i)	_ti	_tei	_si	_ii	_dti	_bi	field WILL be searched, but will NOT be part of retrieved solr document
indexed & multi-valued (...im)	_tim	_teim	_sim	_iim	_dtim	_bim	
stored only (...s)	_ts	_tes	_ss	_is	_dts	_bs	field will NOT be searched, but WILL be part of retrieved solr document
stored & multi-valued (...sm)	_tsm	_tesm	_ssm	_ism	_dtsm	_bsm	
stored & indexed (...si)	_tsi	_tesi	_ssi	_isi	_dtsi	_bsi	field WILL be searched and WILL be part of retrieved solr document
stored, indexed, & multi-valued (...sim)	_tsim	_tesim	_ssim	_isim	_dtsim	_bsim	

There are additional data types and a few additional field parameters. See the [Blacklight Solr schema.xml](#) file for all possible combinations.

Meaning of field parameters

- indexed - field will be searched
- stored - field will part of retrieved solr document
- multi-valued - field is an array of values

See [fieldType definitions in schema.xml](#) to see how data types correspond to solr field types.

Dynamic Field Names generated using Solrizer

Extensions based on data type and indexed as

data type indexed as	:date	:time	:text_en	:string	:symbol	:integer	:boolean
none	_dtsim	_dtsim	_tesim	_tesim	_ssim	_isim	_bsi
:stored_searchable	_dtsim	_dtsim	_tesim	_tesim	_ssim	_isim	_bsi
:searchable	_dtim	_dtsim	_teim	_teim	_sim	_iim	_bim
:dateable	_dtsim	_dtsim	_dtsim	_dtsim	_dtsim	_dtsim	_dtsim
:facetable	_sim	_sim	_sim	_sim	_sim	_sim	_sim
:symbol	_ssim	_ssim	_ssim	_ssim	_ssim	_ssim	_ssim
:sortable	_dti	_dti	_tei	_si	_si	_ii	_bi
:stored_sortable	_dtsi	_dtsi	_tesi	_ssi	_ssi	_isi	_bsi
:displayable	_ssm	_ssm	_ssm	_ssm	_ssm	_ssm	_ssm
:unstemmed_searchable	_tim	_tim	_tim	_tim	_tim	_tim	_tim
:simple	_dti	_dti	_tei	_si	_si	_ii	_bi

Examples using Solrizer to generate the Solr field name

Usage of FieldMapper.solr_name

```
fm.solr_name('foo', :facetable, :type=>:text )    # pass one modifier at a time
=> "foo_sim"
fm.solr_name('foo', :facetable, :type=>:string )
=> "foo_sim"
fm.solr_name('foo', :facetable, :type=>:integer )
=> "foo_sim"

fm.solr_name('foo', :searchable, type: :text )
=> "foo_teim"
fm.solr_name('foo', :searchable, type: :string )
=> "foo_teim"
fm.solr_name('foo', :searchable, type: :integer )
=> "foo_iim"

fm.solr_name('foo', :searchable, type: :float )
Solrizer::InvalidIndexDescriptor: Invalid datatype `:float'. Must be one of: :date, :time, :text, :text_en, :
string, :symbol, :integer, :boolean

fm.solr_name('foo' )
=> "foo_tesim"
fm.solr_name('foo', :stored_searchable)
=> "foo_tesim"
fm.solr_name('foo', :searchable)
=> "foo_teim"
fm.solr_name('foo', :dateable)
=> "foo_dtsim"
fm.solr_name('foo', :facetable)
=> "foo_sim"
fm.solr_name('foo', :symbol)
=> "foo_ssim"
fm.solr_name('foo', :sortable )
=> "foo_si"
fm.solr_name('foo', :stored_sortable)
=> "foo_ssi"
fm.solr_name('foo', :displayable)
=> "foo_ssm"
fm.solr_name('foo', :unstemmed_searchable)
=> "foo_tim"
fm.solr_name('foo', :simple)
=> "foo_si"
```