

How do I create a custom sort order for the listings pages?

When you set the sort get parameter in a listing pages url (e.g. ?sort=name-az), a method is called on the `\Aero\Search\Elastic\Query\Builder` class (for name-az the method `sortByNameAz` is called).

You can find the default sort by methods in the `Aero\Search\Elastic\Concerns\CanBeSorted` trait.

To add a custom sort to the listings page you therefore just need to macro a method to the `\Aero\Search\Elastic\Query\Builder` class using the correct naming convention.

For example, we will add a summary sort:

```
\Aero\Search\Elastic\Documents\ListingDocument::add('string-sort', function
(\Aero\Search\Elastic\Documents\ListingDocument $document) {
    return [
        'summary' => $document->getModel()->product->getTranslation('summary', $document-
>getLanguage()),
    ];
});

\Aero\Search\Elastic\Query\Builder::macro('sortBySummaryAz', function () {
    $this->query->addSort([
        'string-sort.summary' => [
            'order' => 'asc',
        ],
    ]);
});

\Aero\Search\Elastic\Query\Builder::macro('sortBySummaryZa', function () {
    $this->query->addSort([
        'string-sort.summary' => [
            'order' => 'desc',
```

```
        ],
    });
});
```

You must run `php artisan aero:search:reindex --type=listing` for these document changes to be applied to existing listings.

You can add these as selectable options in the sort-by dropdown on the listings page via the `search` settings `sort_by_options`.

Advanced Query

It's possible to do a more advanced query for your Elasticsearch sort by. You can make use of [Elasticsearch's Painless scripting language](#)

For example, you can add a sort that will execute Java to randomly sort listings:

```
\Aero\Search\Elastic\Query\Builder::macro('sortByRand', function () {
    $this->query->addSort([
        '_script' => [
            'type' => 'number',
            'script' => [
                'lang' => \Elastic\Script\Script::LANG_PAINLESS,
                'source' => $this->loadJavaFile(__DIR__.'../../scripts/random-sort.java'),
                'params' => $this->parameters,
            ],
            'order' => 'asc',
        ],
    ],
    $this->parameters);
});
```

```
// random-sort.java

def sorts = new ArrayList();

Random rand = new Random();
sorts.add(rand.nextInt(1000000));

if (sorts.size() == 0) {
```

```
    sorts.add(0);  
}  
  
Collections.min(sorts.stream().map(Double::doubleToRawLongBits).collect(Collectors.toList()));
```

Revision #2

Created 2026-09-23 08:29:49 UTC by Ethan Payne

Updated 2026-10-02 12:57:26 UTC by Ethan Payne