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Sorter

Use Sorter component to sort an HTML element by content.

About

New in 4.2.8

Sometimes you need to sort the HTML elements by content. For example, you have a list of `` and you need to sort its elements. For these purposes in Metro 4 implemented a special component `Sorter` , which just solves this problem.

Unsorted list

Sorted asc

Sorted desc

- Oslo
- Stockholm
- Helsinki
- Berlin
- Rome
- Madrid

- Berlin
- Helsinki
- Madrid
- Oslo
- Rome
- Stockholm

- Stockholm
- Rome
- Oslo
- Madrid
- Helsinki
- Berlin

Create sortable element

To create sortable element, you must add role `data-role="sorter"` to element and define which elements will be sorted and by what content. To set sorted elements use attribute `data-sort-target="..."` and to set content use attribute `data-sort-source="..."` . By default, `sorter` sort elements by `asc` . You can setup sort direction with attribute `data-sort-dir="asc|desc"` .

Role sorter

For simple ascending sort, add role defining attribute `data-role="sorter"` to the element:

```
<ul data-role="sorter">
  <li>Oslo</li>
  <li>Stockholm</li>
  <li>Helsinki</li>
  <li>Berlin</li>
  <li>Rome</li>
  <li>Madrid</li>
</ul>
```

Sorter start

By default, sorter start sort immediate after create sorter instance. If you need starting sort manually, set attribute `data-sort-start="false"` . You can start sorting later using a special [method](#).

Sort Asc

Sort Desc

- Oslo
- Stockholm
- Helsinki
- Berlin
- Rome
- Madrid

Sort targets

Attribute `data-sort-target="..."` defined sub elements who will ben sorted. This should be the correct element selector: `tagName` or `className` . If no attribute is specified, the `tagName` property of the first child element will be used as the value.

...These paragraphs will be sorted

Berlin

Helsinki

Madrid

Oslo

Rome

Stockholm

...The blocks below will not participate in sorting

3

1

2

```
<div data-role="sorter" data-sort-target="p">
  ...These paragraphs will be sorted
  <p>Oslo</p>
  <p>Stockholm</p>
  <p>Helsinki</p>
  <p>Berlin</p>
  <p>Rome</p>
  <p>Madrid</p>

  ...The blocks below will not participate in sorting
  <div>3</div>
  <div>1</div>
  <div>2</div>
</div>
```

Sort content

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By default for sorting component `Sorter` use `textContent` property of the sortable elements. To change it use attribute `data-sort-source="..."`. This should be the correct element selector `className`.

- Madrid 1
- Rome 2
- Berlin 3
- Helsinki 4
- Stockholm 5
- Oslo 6

```
<ul data-role="sorter" data-sort-content="sort">  
  <li>Rome <span class="sort">2</span></li>  
  <li>Oslo <span class="sort">6</span></li>  
  <li>Berlin <span class="sort">3</span></li>  
  <li>Helsinki <span class="sort">4</span></li>  
  <li>Madrid <span class="sort">1</span></li>  
  <li>Stockholm <span class="sort">5</span></li>  
</ul>
```

Sort direction

By default, `sorter` sorts element be `ascending`. To change it, use attribute `data-sort-dir="..."`. Value for this attribute must be `asc` or `desc`.

- Stockholm
- Rome
- Oslo
- Madrid
- Helsinki
- Berlin

```
<ul data-role="sorter" data-sort-dir="desc">  
  <li>Oslo</li>  
  <li>Stockholm</li>  
  <li>Helsinki</li>  
  <li>Berlin</li>  
  <li>Rome</li>  
  <li>Madrid</li>  
</ul>
```

Events

When sorter works, it generated the numbers of events. You can use callback for this event to behavior with it.

Event	Data-*	Desc
onSorterCreate(el)	<code>data-on-sorter-create</code>	Fired when sorter was created
onSortStart(el)	<code>data-on-sort-start</code>	Fired when sort started
onSortStop(el)	<code>data-on-sort-stop</code>	Fired when sort finished
onSortItemSwitch(i1, i2)	<code>data-on-sort-item-switch</code>	Fired when sorter switch items

Methods

You can use Sorter methods ti interact with the sorter component.

sort(dir) - Sort in specified direction
reset() - Reset element to initial state before sorting

```
var sorter = $(el).data('sorter');  
sorter.sort('asc');  
sorter.sort('desc');
```

Sorter object

Metro 4 contains special object `Metro.sorter`. This object contains next methods:

create(el, options) - create Sorter
isSorter(el) - Check if element is Sorter instance
sort(el, dir) - Sorting data in specified sorter and direction

```
...html  
<ul id="sortable-list">  
  <li>Oslo</li>  
  <li>Stockholm</li>  
  <li>Helsinki</li>  
  <li>Berlin</li>  
  <li>Rome</li>  
  <li>Madrid</li>  
</ul>  
  
...javascript  
var sorter = Metro.sorter.create("#sortable-list");
```

```
...html  
<ul id="sortable-list" data-role="sorter">  
  <li>Oslo</li>  
  <li>Stockholm</li>  
  <li>Helsinki</li>  
  <li>Berlin</li>
```

```
<li>Rome</li>
<li>Madrid</li>
</ul>

...javascript
Metro.sorter.sort("#sortable-list", "asc");
Metro.sorter.sort("#sortable-list", "desc");
```

Observe sorter attributes

You can change attributes `data-sort-dir` and `data-sort-content` in runtime to change content sorting.

Sort Asc Sort Desc Reset

- Oslo
- Stockholm
- Helsinki
- Berlin
- Rome
- Madrid

```
<div>
  <button class="button"
    onclick="$('#sorter-attr').attr('data-sort-dir', 'asc')">
    Sort Asc
  </button>
  <button class="button"
    onclick="$('#sorter-attr').attr('data-sort-dir', 'desc')">
    Sort Desc
  </button>
</div>

<ul data-role="sorter"
  data-sort-start="false"
  id="sorter-attr">
  <li>Oslo</li>
  <li>Stockholm</li>
  <li>Helsinki</li>
  <li>Berlin</li>
  <li>Rome</li>
  <li>Madrid</li>
</ul>
```