

Search...

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List

Create a list with sorting, filtering, searching and pagination features.

About

New in 4.2.8

If you need to add sorting, filtering, pagination and searching features to the list, you can use `list` component. To create this `list`, you must add attribute `data-role="list"` to your element whose sub-elements need to be sorted and set required additional options with special attributes.

Sort by

Price ↑

Price ↓


Author ↑

Author ↓


Name ↑

Name ↓


Paints By:




When is the wedding
Gogen
\$ 300M



Players in cards
Sezann
\$ 250M



Three Studies of Lucian Freud
Bacon
\$ 142M



Woman III
Kuning
\$ 137M

```
<script>function sortList(col, dir) {  $( '#paintings' ).data( 'list' ).sorting( col, dir, true ) }</script><p class="text-center h3 text-light">Sort by</p><div class="d-flex flex-justify-center flex-wrap m-2"><button class="button m-1" onclick="sortList('painting-price','asc')">Price <span class="mlf-arrow-up"></span></button><button class="button m-1" onclick="sortList('painting-price','desc')">Price <span class="mlf-arrow-down"></span></button><button class="button m-1" onclick="sortList('painting-author','asc')">Author <span class="mlf-arrow-up"></span></button><button class="button m-1" onclick="sortList('painting-author','desc')">Author <span class="mlf-arrow-down"></span></button><button class="button m-1" onclick="sortList('painting-name','asc')">Name <span class="mlf-arrow-up"></span></button><button class="button m-1" onclick="sortList('painting-name','desc')">Name <span class="mlf-arrow-down"></span></button></div><div class="cell-md-4 mt-4"><select data-role="select" data-filter="false" data-prepend="Paints By:" data-on-change="$('#paintings').data('list').filter(this.value)"><option value="" selected>All</option><option value="gogen">Gogen</option><option value="sezann">Sezann</option><option value="bacon">Bacon</option><option value="kling">Kling</option><option value="munk">Munk</option><option value="picasso">Picasso</option></select></div></div><div id="paintings" data-role="list" data-sort-class="painting-price" data-sort-dir="desc" data-cla-list="unstyled-list row flex-justify-center mt-4" data-cla-list-item="cell-sm-6 cell-md-4"><div class="text-center"><div class="img-container thumbnail"></div><figcaption class="painting-name">When is the wedding</figcaption><figcaption class="painting-author text-bold">Gogen</figcaption><figcaption class="painting-price" data-format="money">$ 300M</figcaption></div></div><div class="text-center"><div class="img-container thumbnail"></div><figcaption class="painting-name">Players in cards</figcaption><figcaption class="painting-author text-bold">Sezann</figcaption><figcaption class="painting-price" data-format="money">$ 250M</figcaption></div></div><div class="text-center"><div class="img-container thumbnail"></div><figcaption class="painting-name">Woman III</figcaption><figcaption class="painting-author text-bold">Bacon</figcaption><figcaption class="painting-price" data-format="money">$ 137M</figcaption></div></div><div class="text-center"><div class="img-container thumbnail"></div><figcaption class="painting-name">Gold Adele</figcaption><figcaption class="painting-author text-bold">Kling</figcaption><figcaption class="painting-price" data-format="money">$ 139M</figcaption></div></div><div class="text-center"><div class="img-container thumbnail"></div><figcaption class="painting-name">The Scream</figcaption><figcaption class="painting-author text-bold">Munk</figcaption><figcaption class="painting-price" data-format="money">$ 119M</figcaption></div></div><div class="text-center"><div class="img-container thumbnail"></div><figcaption class="painting-name">Nude, green leaves and bust</figcaption><figcaption class="painting-author text-bold">Picasso</figcaption><figcaption class="painting-price" data-format="money">$ 109M</figcaption></div></div></div></ul>
```

Create list

To create interactive list, add attribute `data-role="list"` to your html list element.

```
<ul data-role="list">...</ul>
```

External data

You can specify an external data for your list. External data must have a valid specified json structure. To set it, use attribute `data-source`.

```
<ul data-role="list" data-set="data/paintings.json"></ul>
```

External data structure

External data must have `header` block and block with `data`. Header must contains template for list items. Link to [example json file](#).

```
{  "template": "...",  "data": [...]}</pre>
```

Sorting

By default list sorter use `full inner text` of list item (tags are cleared) to sorting items. You can `clarify` this with set sub-element `class name` with attribute `data-sort-class="..."`.



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To set sort direction use attribute `data-sort-dir="..."`. This attribute must be set into one of two values: `asc` or `desc`. By default, this attribute have a `asc` as value.

```
<ul data-role="list">
  <li><span class="num">3</span> item</li>
  <li><span class="num">1</span> item</li>
  <li><span class="num">2</span> item</li>
</ul>
```

Clarify

```
<ul data-role="list" data-sort-class="num">
  <li><span class="num">3</span> item</li>
  <li><span class="num">1</span> item</li>
  <li><span class="num">2</span> item</li>
</ul>
```

For right sorting specified fields (ex: formatted money, date), you can add attribute `data-format` to sorted items. You can use next formats to a field: `number`, `int`, `float`, `date` and `money`.

This feature works in pair with a `data-sort-class="..."` attribute.

```
<ul id="paintings"
  data-role="list"
  data-sort-class="painting-price"
  data-sort-dir="desc">
  <li>
    <figure class="text-center">
      <div class="img-container thumbnail">
        
      </div>
      <figcaption class="painting-name">When is the wedding</figcaption>
      <figcaption class="painting-author text-bold">Gogen</figcaption>
      <figcaption class="painting-price" data-format="money">$ 300M</figcaption>
    </figure>
  </li>
  ...
</ul>
```

You can change attributes `data-sort-class` and `data-sort-dir` at runtime to change list sorting.

Filtering

When you are use `list` component, you can set filters on list items. You can specify filtering functions when defining a component or at runtime, using special methods.

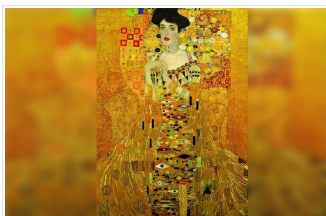
Specify filters at defining component

To set filters at defining component, you must use attributes `data-filter` and `data-filters`. Attribute `data-filter` set one filter, attribute `data-filters` set the number of filters. Value for the `data-filter` must be valid function name or javascript code, and for `data-filters` - comma separated functions name list.

Each filter receive a single parameter - `list HTML element`. Filter function must return `true` or `false`.



Three Studies of Lucian Freud
Bacon
\$ 142M



Gold Adele
Klimt
\$ 135M


```
<ul data-role="list"
  data-sort-class="painting-price"
  data-filter-class="painting-author"
  data-sort-dir="desc"
  data-cis-list="unstyled-list row flex-justify-center mt-4"
  data-cis-list-item="cell-sm-6 cell-md-4"
  data-source="data/paintings.json"
  data-filters="authorFilter, moneyFilter">
</ul>
<script>
function authorFilter(item) {
  var author = item.getElementsByClassName('painting-author')[0].textContent;
  return author.indexOf("Klimt") > -1 || author.indexOf("Bacon") > -1;
}
function moneyFilter(item) {
  return Metro.utils.parseMoney(item.getElementsByClassName('painting-price')[0].textContent) > 120;
}
</script>
```

Searching


The `list` component support searching on the list items. The `searching` is a special case of filtration. To enable this function, you must set attribute `showSearch` to `true` (this case enable built in search input) and, if your need, set your one custom search wrapper with attribute `data-search-wrapper`.

Built in search


Search:




When is the wedding
Gogen
\$ 300M



Players in cards
Sezann
\$ 250M



Three Studies of Lucian Freud
Bacon
\$ 142M



Gold Adele
Klimt
\$ 135M

```
<ul data-role="list"
  data-sort-class="painting-price"
  data-filter-class="painting-author"
  data-sort-dir="desc"
  data-cis-list="unstyled-list row flex-justify-center mt-4"
  data-cis-list-item="cell-sm-6 cell-md-4"
  data-source="data/paintings.json"
  data-show-search="true">
</ul>
```

Your one search wrapper

Search:



When is the wedding
Gogen
\$ 300M



Players in cards
Sezann
\$ 250M



Three Studies of Lucian Freud
Bacon
\$ 142M






Gold Adele
Klimt
\$ 135M

```
<ul data-role="list"
  data-sort-class="painting-price"
  data-filter-class="painting-author"
  data-sort-dir="desc"
  data-cis-list="untyped-list row flex-justify-center mt-4"
  data-cis-list-items="call-sm-6 call-md-4"
  data-source="data/paintings.json"
  data-search-wrapper="my-search-wrapper"
  data-show-search="true"
></ul>
<div class="my-search-wrapper"></div>
```

Pagination

The `list` component also support `pagination` to display part of items at one time. To enable this function, you must set attribute `showPagination` to `true` (this case enable built pagination) and, if your need, set your one custom pagination wrapper with attribute `data-pagination-wrapper`. Also you can enable `item count block` with attribute `data-items-steps="true"`. And you can enable `list items count info block` with attribute `data-show-info="true"`.

Show entries: 3

Showing 1 to 3 of 7 entries

Prev

1

2

3

Next

```
<ul data-role="list"
  data-sort-class="painting-price"
  data-filter-class="painting-author"
  data-sort-dir="desc"
  data-cis-list="untyped-list row flex-justify-center mt-4"
  data-cis-list-items="call-sm-6 call-md-4"
  data-source="data/paintings.json"
  data-show-pagination="true"
  data-items="9"
  data-items-steps="all, 3, 5"
  data-show-items-steps="true"
  data-show-list-info="true"
></ul>
```

Options

You can setup behavior of your list with any options. To these options you can use special attributes.

Option	Data-*	Default	Desc
sortClass	data-sort-class		Class for sort source element. If you set this attribute, the sorter will use element with this class for sorting
sortDir	data-sort-dir		Direction for sorting. Must be <code>asc</code> or <code>desc</code>
sortInitial	data-sort-initial		When you set this attribute to true, you can reset list to initial order
filterClass	data-filter-class		Class for search source element. If you set this attribute, the searcher will use element with this class for searching
filter	data-filter		Initial filter function.
filters	data-filters		Initial filters function.
filterString	data-filter-string		Initial search value.
source	data-source		Define external data for list.
showItemsSteps	data-show-items-steps	false	Show items steps counter. Must be true or false.
showSearch	data-show-search	false	Show search input. Must be true or false.
showListInfo	data-show-list-info	false	Show list info block. Must be true or false.
showPagination	data-show-pagination	false	Show pagination. Must be true or false.
showAllPages	data-show-all-pages	false	Show all links to all pages in pagination.
showActivity	data-show-activity	true	Show activity for long operations. Must be true or false.
muteList	data-muteList	true	Mute list in the time of long operations. Must be true or false.
items	data-items	-1	How many items must be showed. -1 - all items. For pagination.
itemsSteps	data-items-steps	all, 10,25,50,100	Steps for items count to displayed. For pagination.
itemsAllTitle	data-items-all-title	Show all items	Title for all items step.
listItemsCountTitle	data-list-items-count-title	Show entries:	Title for items counter.
listSearchTitle	data-list-search-title	Search:	Title for search input.
listInfoTitle	data-list-info-title	Showing \$1 to \$2 of \$1 entries	Title for info block.
paginationPrevTitle	data-pagination-prev-title	Prev	Title pagination prev button.
paginationNextTitle	data-pagination-next-title	Next	Title pagination next button.
activityType	data-activity-type	cycle	Activity type. More about activity
activityStyle	data-activity-style	color	Activity style.
searchWrapper	data-search-wrapper		Selector for search input wrapper.
rowsWrapper	data-rows-wrapper		Selector for steps select wrapper.
infoWrapper	data-info-wrapper		Selector for list info wrapper.
paginationWrapper	data-pagination-wrapper		Selector for list pagination block wrapper.

Events

When list works, it generates a series of events that you can use to interact with the component.

Option	Data-*	Desc
onDraw (el)	data-on-draw	Event fired when the list was drawn.
onDrawItem (item)	data-on-draw-item	Event fired when the list item was drawn.
onSortStart (items)	data-on-sort-start	Event fired before sort started.
onSortStop (items)	data-on-sort-stop	Event fired after sort.
onSortItemSwitch(a, b, result)	data-on-sort-item-switch	Event fired when two item switched.
onSearch (filter, items)	data-on-search	Event fired when user use searching.
onShowsCountChange (val)	data-on-rows-count-change	Event fired when user change items count to display.
onDataLoad (res)	data-on-data-load	Event fired before external data loads.
onDataLoaded (res, data)	data-on-data-loaded	Event fired after external data was loaded.
onFilterItemAccepted (item)	data-on-filter-item-accepted	Event fired filter return true for item.
onFilterItemDeclined (item)	data-on-filter-item-declined	Event fired filter return false for item.
onListCreate (el)	data-on-list-create	Event fired after the list created.

Methods

You can use list methods to interact with it.

- `draw()` - redraw list
- `sorting(sortClass, sortDir, redraw)` - sorting list
- `filter(val)` - programming search on list items

- **loadData(res)** - load items from external json
- **next()** - goto next page
- **prev()** - goto prev page
- **first()** - goto first page
- **last()** - goto last page
- **page(n)** - goto specific page
- **addFilter(func)** - add filter function
- **removeFilter(func_index)** - remove filter function
- **removeFilters()** - remove all filters
- **getFilters()** - get filters
- **getFilterIndex()** - get index for filter who set with attribute `data-filter`
- **getFiltersIndexes()** - get indexes for filters who set with attribute `data-filters`

Load data

```
<div class="mb-4 text-center">
  <button class="button"
    onclick=${'#list-load-data'}.data('list').loadData('data/paintings.json')>
    Load data
  </button>
</div>

<ul id="list-load-data"
  data-role="list"
  data-sort-class="painting-price"
  data-sort-dir="asc"
  data-cls-list="unstyled-list row flex-justify-center mt-4"
  data-cls-list-item="cell-sm-6 cell-md-4"
></ul>
```

Customize list

You can customize style of list and him elements with next options:

Option	Data=*	Desc
clsComponent	data-cls-component	Additional class for component