Search...

Calendar

Calendar is a component for a user to select a specific date, list of dates or a range of dates.

Create calendar

The calendar component is designed to organize the user's choice of a date or a list of dates. To create `calendar` add `data-role="calendar"` attribute to element. You can create compact calendar with class `compact` .

```
<div data-role="calendar"></div>
<div data-role="calendar" class="compact"></div>
```

Also you can use `wide` calendar. To create `wide` calendar, use attributes `data-wide="true"` - persistent or `data-wide-point="..."` where `point` is one of the Metro 4 media point (fs, sm, md, lg, xl, xxl).

```
<div data-role="calendar" data-wide-point="sm"></div>
```

Week start

Metro 4 `calendar` support two modes for `week start` :

- from `sunday` (default)
- from `monday`

To set `week start` use `data-week-start` attribute. When value is `0` (default), calendar started from sunday, when value is `1` , calendar started from monday.

```
<div data-role="calendar" data-week-start="0"></div>
<div data-role="calendar" data-week-start="1"></div>
```

Selection

You can use two variants of date selecting: `one date` mode (default) or `multi dates` mode. To set `selection` mode use attribute `data-multi-select` with values `true` or `false`.

If you set `data-multi-select="true"`, you also select `column` of dates by click on `week day`.


```
<div data-role="calendar" data-multi-select="true"></div>
<div data-role="calendar" data-multi-select="false"></div>
```

Picker mode

You can set calendar to `picker mode` with attribute `data-picker-mode="true"`. In this mode user can select only one date and selected date marked as `today`.


```
<div data-role="calendar" data-picker-mode="true"></div>
```

Buttons

Metro 4 calendar contains predefined four buttons to behavior with component: `cancel`, `today`, `clear` and `done`.

To define buttons use `data-buttons` attribute with string value with enumeration of buttons. By default a all buttons are present. If this attribute value is a `false`, all buttons will be hide.


```
<div data-role="calendar" data-buttons="today, clear"></div>
<div data-role="calendar" data-buttons="false"></div>
```

For all buttons defined callbacks:

Button	Event	Data-*

cancel	onCancel(el)	data-on-cancel
today	onToday(today, el)	data-on-today
clear	onClear(el)	data-on-clear
done	onDone(selection, el)	data-on-done

Buttons `today` and `clear` has specific predefined functions. Button `today` - set today for calendar. Button `clear` - clear selection for calendar. Callbacks for this buttons **executed after predefined functions**.

Input dates format

New in 4.2.20

You can define your input format for dates with attribute `data-input-format` . To define date parts use next identifiers:

day	`dd` , `%d`
month	`mm` , `%m`
year	`yyyy` , `yy` , `%Y`
hours	`hh` , `%h`
minutes	`ii` , `%i`
seconds	`ss` , `%s`

Example: if you input date is `21/12/1972` , you must define format as `%d/%m/%Y` or `dd/mm/yyyy` for valid convert string value to date.

If your input date format different from ECMAScript date format, you must define input format for these dates with attribute `data-input-format="..."` .

Exclude dates

You can exclude any dates from user selection. To exclude dates add `data-exclude="..."` attribute and specify comma separated dates who can be excluded.

	2019 **Thursday, Dec 19**	
	‹ October › ‹ 2017 ›	
	Su Mo Tu We Th Fr Sa	
	1 2 3 4 5 6 7	
	8 9 10 11 12 13 14	
	15 16 17 18 19 20 21	
	22 23 24 25 26 27 28	
	29 30 31 1 2 3 4	
	Cancel Today Clear Done	

```
<div
    data-role="calendar"
    data-input-format="dd-mm-yyyy"
    data-show="15-10-2017"
    data-exclude="
        10-10-2017,
        11-10-2017,
        12-10-2017,
        13-10-2017,
        14-10-2017,
        15-10-2017
    "
></div>
```

Preset dates

You can preselect dates. To preselect dates use `data-preset="..."` attribute and specify dates who can be preselect.

	2019 **Thursday, Dec 19**	
	‹ October › ‹ 2017 ›	
	Su Mo Tu We Th Fr Sa	
	1 2 3 4 5 6 7	
	8 9 10 11 12 13 14	
	15 16 17 18 19 20 21	
	22 23 24 25 26 27 28	
	29 30 31 1 2 3 4	
	Cancel Today Clear Done	

```
<div
    data-role="calendar"
```

```
    data-show="2017/10/15"
    data-preset="
        2017/10/10,
        2017/10/11,
        2017/10/12,
        2017/10/13,
        2017/10/14,
        2017/10/15,
        2017/10/16"
></div>
```

Special dates

You can set a `special` dates. If you set a special dates, others dates marked as disabled. To set special dates use `data-special="..."` attribute and specify dates who can be sets.

2019						
Thursday, Dec 19						

‹	October	›		‹	2017	›

Su	Mo	Tu	We	Th	Fr	Sa
1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30	31	1	2	3	4

Cancel	Today	Clear	Done

```
<div
    data-role="calendar"
    data-show="2017/10/15"
    data-special="
        2017/10/10,
        2017/10/11,
        2017/10/12,
        2017/10/13,
        2017/10/14,
        2017/10/15,
        2017/10/16"
></div>
```

Min & max dates

You can limit the set of dates for user selection. To set limit use `data-min-date="..."` and `data-max-date="..."` attributes.

2019						
Thursday, Dec 19						

‹	October	›		‹	2017	›

Su	Mo	Tu	We	Th	Fr	Sa
1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30	31	1	2	3	4

Cancel	Today	Clear	Done

```
<div
    data-role="calendar"
    data-show="2017/10/15"
    data-min-date="2017/10/08"
    data-max-date="2017/10/25"
></div>
```

Show specific date

You can switch calendar to specific date. To switch calendar use attribute `data-show="..."`.

2019						
Thursday, Dec 19						

‹	December	›		‹	1972	›

Su	Mo	Tu	We	Th	Fr	Sa
26	27	28	29	30	1	2
3	4	5	6	7	8	9
10	11	12	13	14	15	16
17	18	19	20	**21**	22	23
24	25	26	27	28	29	30

| | | 31 | 1 | 2 | 3 | 4 | 5 | 6 |

<div style="display:flex;justify-content:center;gap:8px">

| Cancel | Today | Clear | Done |

</div>

```html
<div
    data-role="calendar"
    data-show="1972/12/21"
></div>
```

Select month, year

You can quick change `month` or `year` . To change `month` , click on **current month name** and select required month from months panel. To change `year` , click on **current year name** and select required year from year panel.

2019
Thursday, Dec 19

‹	December	›	‹	2019	›

Su	Mo	Tu	We	Th	Fr	Sa
1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30	31	1	2	3	4

| Cancel | Today | Clear | Done |

Multi select

You can enable multi select feature with attribute `data-multi-select` and `data-week-day-click` .

2019
Thursday, Dec 19

‹	December	›	‹	2019	›

Su	Mo	Tu	We	Th	Fr	Sa
1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30	31	1	2	3	4

| Cancel | Today | Clear | Done |

```html
<div id="calendar_multiselect" class="mx-auto"
    data-role="calendar"
    data-week-day-click="true"
    data-multi-select="true"
></div>
```

Internationalisation

You can use attribute `data-locale="..."` to setup language for calendar. The default locale is `en-US` . More about Metro 4 locales you can read in **this article**.

2019
Donnerstag, Dez 19

‹	Dezember	›	‹	2019	›

Sn	Mn	Di	Mi	Do	Fr	Sa
1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30	31	1	2	3	4

| Abbrechen | Heute | Reinigen | Fertig |

2019
Четвер, Гру 19

‹	Грудень	›	‹	2019	›

Нд	Пн	Вт	Ср	Чт	Пт	Сб
1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30	31	1	2	3	4

| Відміна | Сьогодні | Очистити | Готово |

```html
<div data-role="calendar" data-locale="de-DE"></div>
<div data-role="calendar" data-locale="uk-UA"></div>
```

You can change locale in runtime. To change locale, update value for attribute `data-locale` .

2019
Thursday, Dec 19

‹ December › ‹ 2019 ›

Su	Mo	Tu	We	Th	Fr	Sa
1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30	31	1	2	3	4

Cancel Today Clear Done
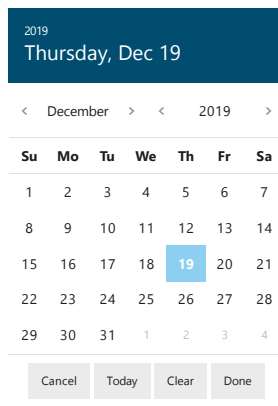
```html
<div class="d-flex flex-justify-center mb-4">
    <button class="button m-1" onclick="$('#cal_locale').attr('data-locale', $(this).text())">en-US</button>
    <button class="button m-1" onclick="$('#cal_locale').attr('data-locale', $(this).text())">de-DE</button>
    <button class="button m-1" onclick="$('#cal_locale').attr('data-locale', $(this).text())">hu-HU</button>
    <button class="button m-1" onclick="$('#cal_locale').attr('data-locale', $(this).text())">uk-UA</button>
    <button class="button m-1" onclick="$('#cal_locale').attr('data-locale', $(this).text())">ru-RU</button>
</div>

<div data-role="calendar" data-locale="en-US" class="mx-auto" id="cal_locale"></div>
```

Options

You can use calendar options to setup it behavior.

Option	Data-*	Default	Desc
yearsBefore	`data-years-before`	100	Years before today
yearsAfter	`data-years-after`	100	Years after today
show	`data-show`	null	Show specific date
pickerMode	`data-picker-mode`	false	Set calendar to picker mode
locale	`data-locale`	METRO_LOCALE (default en-US)	Calendar language
weekStart	`data-week-start`	0	Start month from sunday or monday (0 - sunday, 1 - monday)
outside	`data-outside`	true	Show dates outside from month (prev or next month dates)
buttons	`data-buttons`	cancel, today, clear, done	Buttons can be showing in calendar
ripple	`data-ripple`	false	Add ripple effect to click
rippleColor	`data-ripple-color`	#cccccc	Ripple color
exclude	`data-exclude`	null	Dates can be excluded from selection
preset	`data-preset`	null	Dates can be preselect
minDate	`data-min-date`	null	Min date
maxDate	`data-max-date`	null	Max date
weekDayClick	`data-week-day-click`	false	If true, user can click on week day to select column of days, required multiSelect can be set to true
multiSelect	`data-week-day-click`	false	If true, user can select a few days
showHeader	`data-show-header`	true	If true, header is visible
showFooter	`data-show-footer`	true	If true, footer is visible

Events

When calendar works, it generated the numbers of events. You can use callback for this event to behavior with calendar or eny elements. Rules for working with events are described on this page.

Event	Data-*	Default	Desc
`onCancel(el)`	`data-on-cancel`	Metro.noop	Callback for cancel button
`onToday(today, el)`	`data-on-today`	Metro.noop	Callback for today button
`onClear(el)`	`data-on-clear`	Metro.noop	Callback for clear button
`onDone(sel, el)`	`data-on-done`	Metro.noop	Callback for done button
`onDayClick(sel, day, el)`	`data-on-day-click`	Metro.noop	Callback for day click
`onWeekDayClick(sel, day, el)`	`data-on-week-day-click`	Metro.noop	Callback for week day click
`onMonthChange(curr, el)`	`data-on-month-change`	Metro.noop	Callback for month change event
`onYearChange(curr, el)`	`data-on-year-change`	Metro.noop	Callback for year change event
`onCalendarCreate(el)`	`data-on-calendar-create`	Metro.noop	Callback fired when calendar is created

```html
<div data-role="calendar" data-on-day-click="console.log(arguments)"></div>

<div data-role="calendar" data-on-day-click="myFunction"></div>

<script>
    function myFunction(sel, day, el){
        console.log(sel)
        console.log(day)
        console.log(el)
    }
</script>
```

Methods

You can use calendar methods to interact with the calendar.

- **getPreset()**
- **getSelected()**
- **getExcluded()**
- **getToday()**
- **getCurrent()**
- **setToday(today)**
- **setExclude(exclude)**
- **setPreset(preset)**
- **setShow(show)**
- **setMinDate(date)**
- **setMaxDate(date)**

```javascript
var calendar = $(element).data('calendar');

console.log(calendar.getPreset());
console.log(calendar.getSelected());
console.log(calendar.getExcluded());
console.log(calendar.getToday());
console.log(calendar.getCurrent());

calendar.setExcluded("10/10/2017, 10/11/2017");
calendar.setPreset("10/14/2017, 10/15/2017, 10/16/2017");
calendar.setShow("01/01/2017");
calendar.setMinDate("05/01/2017");
calendar.setMaxDate("31/01/2017");
```

Observe

You can change attributes `data-exclude` , `data-preset` , `data-show` , `data-min-date` , `data-max-date` at runtime and calendar will be updated.

Customize

You can customize any calendar elements with nex options:

clsToday	`data-cls-today`	Additional class for today
clsSelected	`data-cls-selected`	Additional class for selected
clsExclude	`data-cls-exclude`	Additional class for excluded
clsCancelButton	`data-cls-cancel-button`	Additional class for cancel button
clsTodayButton	`data-cls-today-button`	Additional class for today button
clsClearButton	`data-cls-clear-button`	Additional class for clear button
clsDoneButton	`data-cls-done-button`	Additional class for done button
clsCalendar	`data-cls-calendar`	Additional class calendar
clsCalendarHeader	`data-cls-calendar-header`	Additional class for calendar header
clsCalendarContent	`data-cls-calendar-content`	Additional class for calendar content
clsCalendarFooter	`data-cls-calendar-footer`	Additional class for calendar footer
clsCalendarMonths	`data-cls-calendar-months`	Additional class for calendar months
clsCalendarYears	`data-cls-calendar-years`	Additional class for calendar years
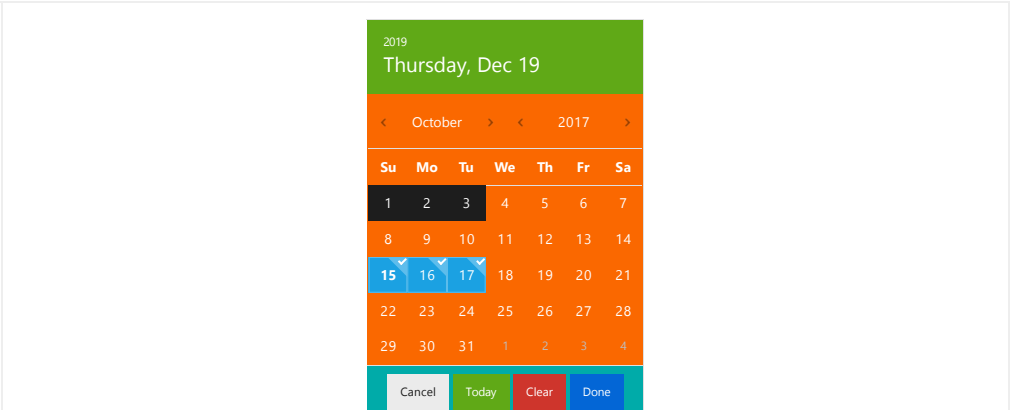
```
<div class="mx-auto"
    data-role="calendar"
    data-show="2017/10/15"
    data-exclude="2017/10/01, 2017/10/02, 2017/10/03"
    data-preset="2017/10/15, 2017/10/16, 2017/10/17"
    data-cls-selected="bg-cyan fg-white"
    data-cls-excluded="bg-dark fg-white"
    data-cls-today="bg-pink fg-white"
    data-cls-today-button="success"
    data-cls-clear-button="alert"
    data-cls-done-button="primary"
    data-cls-calendar-header="bg-green"
    data-cls-calendar-content="bg-orange fg-white"
    data-cls-calendar-footer="bg-teal"
></div>
```