

Date Range

Block Group:	Date Time Operations
Icon:	

The Date Range block returns a formatted date and time range based on the defined formatting options.

For information on using dataflow blocks, see [Dataflow](#).



Tip

You can insert the pre-made [date range picker](#) component to enable the user to select a range.

Special Values

Special values can be the following strings:

- today
- yesterday
- thisWeek
- lastWeek
- thisMonth
- lastMonth
- thisYear
- lastYear

Input/Output Properties

The following properties of the Date Range block can take input and give output.

- input (*date range*)
- next (*trigger*)
- previous (*trigger*)
- format (*string*)
- rangeDelimiter (*string*)
- keepSpecial (*enum*)

input specifies the currently selected range. You can select a range by clicking the property and using the pop-up window.

next advances the value of the **input** property to the next range of the same duration.

previous changes the value of the **input** property to the previous range of the same duration.

format specifies the [date and time formatting string](#) used to format the dates and times in this block.

rangeDelimiter specifies the string used to delimit the beginning of the range and the end of the range.

keepSpecial specifies when a special value is used as the output properties, versus when the values of the **format** and **delimiter** properties are used. The value of the **keepSpecial** property can be one of the following:

- **None**—The **format** and **delimiter** properties are always used, if defined.
- **Raw**—The special value is used, if applicable. Otherwise, the **format** and **delimiter** properties are used.
- **Formatted**—The special value is used, if applicable. Short default formats are automatically used when available. The **format** and **delimiter** properties are used when necessary.
- **Format Clean**—The special value is used, if applicable. Shortened versions of the **format** property are used when available.

Output Properties

The following properties of the Date Range block can give output but cannot take input.

- **formatted** (*string*)
- **nextRange** (*date range*)
- **thisRange** (*date range*)
- **previousRange** (*date range*)
- **duration** (*number*)

formatted returns the range, formatted according to the **format**, **rangeDelimiter**, and **keepSpecial** properties.

nextRange returns the next range of the same duration after **input**.

thisRange returns the currently selected range in **input**.

previousRange returns the previous range of the same duration before **input**.

duration returns the duration of the currently selected range, in milliseconds.

Examples

The following image demonstrates the block properties panel for an example of the Date Range block. In this example, a one-week range has been selected and a format has been defined.

dateRange	
input	<input type="text" value="thisWeek"/>
formatted	<input type="text" value="5/1/2016 to 5/7/2016"/>
nextRange	<input type="text" value="2016-05-08T00:00:00/2016-05-14T23:59:59"/>
thisRange	<input type="text" value="2016-05-01T00:00:00/2016-05-07T23:59:59"/>
previousRange	<input type="text" value="lastWeek"/>
next	<input type="text" value="Invoke"/>
previous	<input type="text" value="Invoke"/>
format	<input type="text" value="yMd"/>
rangeDelimiter	<input type="text" value="to"/>
keepSpecial	<input type="text" value="Formatted"/>
duration	<input type="text" value="604800000"/>

The following image demonstrates a binding from a Date Range block to the **dateRange** property of a [chart axis](#).

The screenshot displays a dataflow interface with a 'Date Range' stage. A 'dateRange' block is highlighted in the stage view, and its configuration panel is open. The configuration panel shows the following properties:

input	lastYear
formatted	2015-01-01T00:00:00/2
nextRange	thisYear
thisRange	2015-01-01T00:00:0...
previousRange	2014
next	Invoke
previous	Invoke

Orange arrows indicate the flow of data from the 'thisRange' property in the configuration panel to the 'thisRange' property in the 'dateRange' block within the stage view.

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