



# BEAR TABLE

Custom widget

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## SOMMAIRE

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## 1. Introduction

The document explains how to use the widget.

2.0 : add / remove button

## 2. Properties

The different properties are:

properties	Description
Value	Value of the table. A JSON variable
Table CSS Classes	CSS class to apply on the table
Table CSS Style	CSS Style to apply on the table, for local use
HeaderList	Control which columns are to be display, and control on different column
Pagination	Specify the pagination of the data
DynamicList	JSON variable. Columns control may be Select box. The value of the list can be give as constant in the HeaderList, or can reference an external variable. This properties groups all dynamic list
showDebug	Boolean. If yes, then information are displayed on the screen
Label	Label of the widget
ChecksRules	JSON variable. Edition rule can be specifying on the table, like one value must be unique in the table. This properties reference all rules.

### 3. Value

JSON variable. Value of the widget. This is a list of Set, one set is a line in the table. The set contains the key (column key), and the value.

Example, to display 5 lines:

```
[
  {
    "country": "France",
    "browser": "FIREFOX",
    "market": 25,
    "system": "windows",
    "processor": "4"
  },
  {
    "country": "France",
    "browser": "IE",
    "market": 30,
    "system": "windows",
    "processor": "2"
  },
  {
    "country": "France",
    "browser": "CHROME",
    "market": 40,
    "system": "windows"
  },
  {
    "country": "Germany",
    "browser": "IE",
    "market": 40,
    "system": "windows"
  },
  {
    "country": "Germany",
    "browser": "Firefox",
    "market": 50,
    "system": "windows"
  }
]
```

## 4. Information in the record

Some action can be override in the record.

Then if for one specific record, when a specific cell has to be display, a value with the prefix exist, it is apply

Attribut	Description	Example
_style	Apply a style	"country_style" : "background-color: #4CAF50"
_readonly	Set the field in readOnly	Country_readonly : true

## 5. HeaderList

The header is a JSON information. This information controls the different columns to be display, and the control on the columns.

The list is a list of set. Each set is a column. In the example, we give the way to display the column Browser, which is a list of value.

Attribut	Description	Example
title	Title of the column	"Title" : "Main browser"
name	Name. The name is use to find the value of the column in the Value list	"name" : "browser"
filter	If true, then RichTable display a input, to let the user filter the value of the line	"Filter" : false
order	If True, the user can order the lines by the value of this attribut	"order" : "true"
control	Control on the field. See below the different available control	"control" : "select"
styleheader	Style applies to the header.	"styleheader" : "background-color:yellow",
stylecol	Style apply to the column, and only on the colum, (note: the record can contains a _style too)	"stylecol" : "background-color:green",
tips	Add a info bull (tooltips) on the widget	"tips" : "Give the first day of working day",
Size [content=input] [content=number]	Size of the field on screen. Value is not limited.	"size":10
Footer [control=number]	If this property is set, then a new footer line is added, with the command. Available command are - "sum" (sum the column)	"footer":"sum"
Listoptionkey [control=select]	When the control is a select, this give the key use to save the value. List contains sets, then this information specify which attribute used in the list.	"listoptionkey":"key"
Listoptiondisplay [control=select]	This one which attributes used in the list for the value to the user	"listoptiondisplay":"display",
Listoptions [control=select]	In case of list static, the contents	listoptions": [ { "key": "IE", "display": "Internet Explorer" }, { "key": "FIREFOX", "display": "Firefox Mozilla" }, { "key": "CHROME", "display": "Chrome" }, { "key": "SMARTBROWSER", "display": "SmartBrowser" }, { "key": "SAFARI", "display": "Safari" }, { "key": "MOSAIC", "display": "Mosaic" }, { "key": "OPERA", "display": "Opera" }, { "key": "MOZILLA", "display": "Mozzila" } ]
Listoptionsvariable [control=select]	In case of list dynamic, the name of the list in the DynamicList properties	"listoptionsvariable": "listprocessor"
Readonly [control=select]	Is the value is true, then the select are in read only	
Parent	See children management	



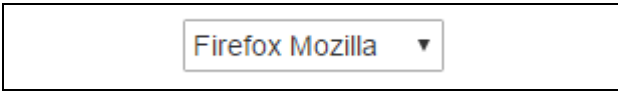

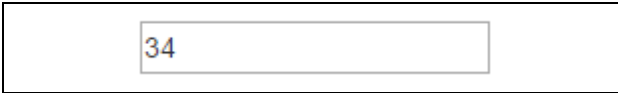
### Example:

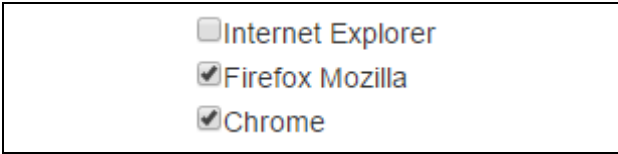
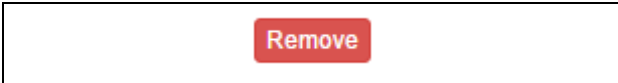
```
[
  {
    "title": "myNumber",
    "name": "mynumber",
    "filter": true,
    "order": true,
    "control": "number",
    "footer": "sum"
  },
  {
    "title": "Country",
    "name": "country",
    "filter": true,
    "order": true,
    "control": "input",
    "size": 10
  },
  {
    "title": "processor",
    "name": "processor",
    "filter": true,
    "order": true,
    "control": "select",
    "listoptionkey": "key",
    "listoptiondisplay": "value",
    "listoptionsvariable": "listprocessor"
  },
  {
    "title": "browser",
    "name": "browser",
    "filter": false,
    "order": false,
    "control": "select",
    "listoptionkey": "key",
    "listoptiondisplay": "display",
    "listoptions": [
      { "key": "IE", "display": "Internet Explorer" },
      { "key": "FIREFOX", "display": "Firefox Mozilla" },
      { "key": "CHROME", "display": "Chrome" },
      { "key": "SMARTBROWSER", "display": "SmartBrowser" },
      { "key": "SAFARI", "display": "Safari" },
      { "key": "MOSAIC", "display": "Mosaic" },
      { "key": "OPERA", "display": "Opera" },
      { "key": "MOZILLA", "display": "Mozzila" }
    ]
  },
  {
    "title": "market",
    "name": "market",
    "filter": true,
    "order": true,
    "control": "text"
  },
  {
    "title": "system",
    "name": "system",
    "filter": true,
    "order": true,
    "control": "button"
  },
  {
    "title": "mydatetime",
    "name": "mydatetime",
    "filter": true,
    "order": true,
    "control": "datetime"
  },
  {
    "title": "hour",
    "name": "myhour",
    "filter": true,
    "order": true,
    "control": "hour"
  },
  {
    "title": "password",
    "name": "password",
    "filter": true,



```

```
    "order": true,  
    "control": "password"  
  }  
]
```

## 5.1. Field Control

Control	Description	Example
link	Name of the link is header.title Content onf the link is the record	
button		
select	 <p>A select box. Only one value can be use. See the “how to set a list of value” to have an explanation on the list</p>	<pre>{ "title":"browser",   "name": "browser",   "control":"select",   "listoptionkey":"key",   "listoptiondisplay":"display",   "listoptions":     [ { "key": "IE",         "display": "Internet Explorer" },       { "key": "FIREFOX",         "display": "Firefox Mozilla" },       { "key": "CHROME",         "display": "Chrome" },       { "key": "SMARTBROWSER",         "display": "SmartBrowser" },       { "key": "SAFARI",         "display": "Safari" },       { "key": "MOSAIC",         "display": "Mosaic" },       { "key": "OPERA",         "display": "Opera" },       { "key": "MOZILLA",         "display": "Mozzila" }     ] }</pre>
input	 <p>A text input, on one line</p>	<pre>{ "title":"City",   "name":"mycity",   "control":"input" }</pre>
hidden	The column is hidden (for a usage in a javascript for example).	
text	 <p>A text in read only</p>	<pre>{ "title":"city",   "name":"mycity",   "control":"text", }</pre>
number	 <p>A test input to select a number, an HTML5 format</p>	<pre>{ "title":"myNumber",   "name":"mynumber",   "control":"number", },</pre>

password	A text input, but the display is hide	
email	A text input, with a HTML5 format to Email.	
date		
datetime		
time		
hour		
contentjson		
chart	Define a Chart. Different chart are possible, and value can be give directly or by an additional variable	<pre>{   "title": "ratio",   "name": "chart",   "control": "chart",   "typechart": "Doughnut",   "listdata": [65,59,80,81,54],   "listlabels": ["January", "February", "March", "April", "May"] }</pre>
checkbox	A checkbox, match to a Boolean	
checkboxlist	 <p>Like a select, but all the different options are visible, and user can select multiple value. So the result is a list of value.</p> <p>To set the list of value, see “how to set a list of values”</p>	<pre>{   "title": "checkList",   "name": "MyCheckList",   "filter": false,   "order": false,   "control": "checkboxlist",   "listoptionkey": "key",   "listoptiondisplay": "display",   "listoptions": [     { "key": "IE", "display": "Internet Explorer" },     { "key": "FIREFOX", "display": "Firefox Mozilla" },     { "key": "CHROME", "display": "Chrome" }   ] }</pre>
children	See the children management	
remove	 <p>Remove the current line. Then, a button is display on the line, and when the user clicks on, the current line is removed.</p> <p>Confirmation (default is true) : Boolean. If yes, then a confirmation is asked to the user</p> <p>Confirmation message : change the default message</p> <p>Tips: info bubble on the button</p>	<pre>{   "control": "remove",   "confirmation": true,   "confirmationmessage": "Hey Guy, Do you want to delete the current line ?" }</pre>

insert	 <p>Insert a line just before this line. To insert after, use the Add control.</p> <p>Defaultvalue: the value to add.</p> <p>Tips: info bubble on the button</p>	<pre>{   "control":"insert",   "tips" : "You add a new value   BEFORE this line",   "defaultvalue" : {     "browser":"SMARTBROWSER",     "mynumber": 12 } }</pre>
add	 <p>Insert a line just after this line. To insert before, use the insert control.</p> <p>Defaultvalue: the value to add.</p> <p>Tips: info bubble on the button</p>	<pre>{   "control":"add",   "tips" : "You add a new value   AFTER this line",   "defaultvalue" : {     "browser":"MOSAIC",     "mynumber": 15 } }</pre>

## 5.2. Control Select

## 5.3. Chart

The chart can be different type and are grouped on the parameter “typechart”

- “typechart” : type of chart, may be “doughtnut”

List Data depends of the type of chart.

"typechart": "Doughnut",

"listdata": [65,59,80,81,54],

"listlabels": ["January", "February", "March", "April", "May"]

1. “showlegend” : true by default.

Reference: <http://itblin.github.io/angular-chart.js/>

## 5.4. how to set a list of values

Different widgets accept a list of values.

The different ways to build this list :

- static : give a attributes “listoptions”, a JSON array of record, like

```
"listoptions":  
[ { "key": "IE",  
    "display": "Internet Explorer" },  
  { "key": "FIREFOX",  
    "display": "Firefox Mozilla" },  
  { "key": "CHROME",  
    "display": "Chrome" }  
]
```

According the widget, a attribute give the key and the display : for example, in the checkboxlist, the attribute “listoptionkey” return the JSON attribute to return as the internal value,n and the attribute “listoptiondisplay” return the attribute to display.

## 6. Rules

Rules are verify immediately when user change a value. In case of error, then a message is displayed.

### 6.5. Sumcol

The column is summarize, and control to the value. If the value is not the same, an error is displayed.

### 6.6. Uniquecol

The column is check, and each line must have a null or a different value.

Example

```
[
{
  "name" : "SumOfNumber",
  "rule" : "sumcol",
  "colname" : "mynumber",
  "totalsum" : 100,
  "message": "The total must be 100"
},
{
  "name" : "Check Unique country",
  "rule" : "uniquecol",
  "colname" : "country",
  "message": "Each line should have a different country"
}
]
```

## 7. Actions

Actions are used to do some controls on the line, like set line in a color, or in read only.

Different actions actions, to apply style (styleline), set in readonly, or hide the line.

```
[
  { "name": "greenline",
    "action": "styleline",
    "attribut" : "status",
    "valueattribut": "close",
    "variable": "showstyleline",
    "valuevariable": true,
    "style": "background-color: #4CAF50;readonly: true"
  },
  { "name": "readonly",
    "action": "readonlyline",
    "attribut" : "status",
    "valueattribut": "close",
    "style": "background-color: #4CAF50;"
  },
  { "name": "showhistory",
    "action": "hideline",
    "variable" : "showhistory",
    "valuevariable" : true,
    "attribut" : "status",
    "valueattribut": "close"
  },
  { "name": "sort",
    "action": "sort",
    "sort1" : "mynumber",
    "sort2" : "country"
  }
]
```

Different actions are :



Control	Description	Example
sort	Sort the data. This action is done only at the first time sort1 and sort2 are the two attributes name	<pre>{ "name": "sort",   "action": "sort",   "sort1" : "mynumber",   "sort2" : "country" }</pre>
Styleline	Apply a style on the line.  Variable and valuevariable is use to get and information from the properties dynamicLists.  Example : if valuevariable is “showstyleline”, then the dynamicLists. showstyleline is read, and compare to the valuevariable.  Attribute and valueattributes reference attributes on the record.	<pre>{ "name": "greenline",   "action": "styleline",   "attribut" : "status",   "valueattribut": "close",   "variable": "showstyleline",   "valuevariable": true,   "style": "background-color: #4CAF50; " },</pre>
readonlyline	Apply a read only on the line. Same controls “variable”, “variablevalue”, “attribute”, “attributevalue” are used	
hideline	Hide the line. Same controls “variable”, “variablevalue”, “attribute”, “attributevalue” are used	

## 8. Children management

### 8.7. Data

The JSON data can have some children, like:

```
[
  {
    "firstname": "Walter",
    "lastname": "Bates",
    "details": { "ssn": "5553355" },
    "period": [
      { "type": "RTT", "nbday": 24 },
      { "type": "VAC", "nbday": 24 },
      { "type": "RECUP", "nbday": 24 }
    ]
  },
  {
    "firstname": "Helen",
    "lastname": "Kelly",
    "details": { "ssn": "2222" },
    "period": []
  },
  {
    "firstname": "Jan",
    "lastname": "Fisher",
    "details": { "ssn": "4444" },
    "period_bearwidget": true,
    "period": [
      { "type": "RTT", "nbday": 24 },
      { "type": "RECUP", "nbday": 24 }
    ]
  }
]
```

The Bear table can display the list of children, one line per children. Only one depth can be managed at this time.

To do that, in the Header, the attribute **“parent”** should be used. When the header contains :

```
{
  "title": "Type",
  "parent": "period",
  "name": "type",
  "control": "input",
  "stylecol": "background-color: #dff0d8"
},
```

The following management is done:

- In the data, for each record, children with the name “period” are search. For each line, the widget displays a new line in the array. In this example, the first record “Walter” contains 3 periods: 3 lines will be displayed

	First name	last name
<input checked="" type="checkbox"/>	Walter	Bates
	RTT	24
	VAC	24
	RECUP	24
<input type="checkbox"/>	Helen	Kelly
<input checked="" type="checkbox"/>	Jan	Fisher
	RTT	24
	RECUP	24

- The list of header for parent is used to display the line with this type. With the following header

```
[
  {
    "title": "",
    "name": "period",
    "control": "children",
    "styleheader": "background-color: #007DB3",
    "stylecol": "background-color: #F2DEDE",
    "tips": "Click here to display the period attached"
  },
  {
    "title": "First name",
    "name": "firstname",
    "control": "text",
    "styleheader": "background-color: #007DB3",
    "stylecol": "background-color: #F2DEDE"
  },
  {
    "title": "last name",
    "name": "lastname",
    "control": "text",
    "styleheader": "background-color: #007DB3",
    "stylecol": "background-color: #F2DEDE"
  },
  {
    "title": "",
    "parent": "period",
    "name": "margin",
    "control": "text"
  },
  {
    "title": "Type",
    "parent": "period",
    "name": "type",
    "control": "input",
    "stylecol": "background-color: #dff0d8"
  },
  {
    "title": "nb days",
    "parent": "period",
    "name": "nbday",
    "control": "text",
    "stylecol": "background-color: #dff0d8"
  }
]
```

The header “type”, “nbDays” and the first header (empty title) is used to display the second type of line. Note the header to give a margin.

## 8.8. Control the display

Using a header “children”, it’s possible to control by the user the visibility of the line.

The control must be “children” and the name is the name of the child in JSON.

In the example, the header

```
{  "title": "",
    "name": "period",
    "control": "children",
    "styleheader": "background-color: #007DB3",
    "stylecol": "background-color: #F2DEDE",
    "tips": "Click here to display the period attached"
},
```

Display a check box. When the user selects it, the periods attached to this line are displayed.

It’s possible to give a default values to the display: this is the “<name of data>\_bearwidget”, and it must be a Boolean.

In the data,

```
{
  "firstname": "Jan",
  "lastname": "Fisher",
  "details": { "ssn": "4444" },
  "period_bearwidget": true,
  "period": [
    { "type": "RTT", "nbday": 24 },
    { "type": "RECUP", "nbday": 24 }
  ]
}
```

The value is set to true: by default, the line is displayed (if the value is not set, then sub-line are hidden)

## **HEADQUARTERS**

### **GRENOBLE, FRANCE**

32, rue Gustave Eiffel  
38000 Grenoble

## **EMEA, ASIA & LATIN AMERICA**

### **PARIS, FRANCE**

73-77, rue de Sèvres  
92100 Boulogne-Billancourt

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