(/index.php)

Home (/index.php) Demo (/demo/main/index.php) Tutorial (/tutorial/index.php)

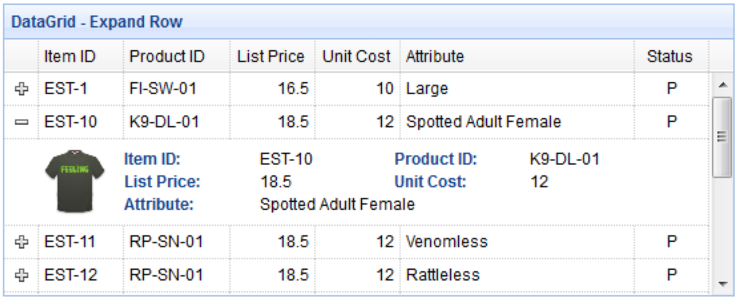
Documentation (/documentation/index.php) Download (/download/index.php) Extension (/extension/index.php)

Contact (/contact.php) Forum (/forum/index.php)

DataGrid

Extend from $.fn.panel.defaults. Override defaults with $.fn.datagrid.defaults.

The datagrid displays data in a tabular format and offers rich support to select, sort, group and edit data. The datagrid has been designed to reduce development time and to require no specific knowledge from developers. It is both featherweight and feature-rich. Cell merging, multi-column headers, frozen columns and footers are just a few of its features.



DataGrid - Expand Row

	Item ID	Product ID	List Price	Unit Cost	Attribute	Status
+	EST-1	FI-SW-01	16.5	10	Large	P
−	EST-10	K9-DL-01	18.5	12	Spotted Adult Female	P
	Item ID: EST-10 **List Price:** 18.5 **Attribute:** Spotted Adult Female		**Product ID:** K9-DL-01 **Unit Cost:** 12			
+	EST-11	RP-SN-01	18.5	12	Venomless	P
+	EST-12	RP-SN-01	18.5	12	Rattleless	P

Contents

Dependencies

- panel
- resizable
- linkbutton
- pagination

Usage Example

Create datagrid from an existing table element, defining columns, rows, and data in html.

```
<table class="easyui-datagrid">
    <thead>
        <tr>
            <th data-options="field:'code'">Code</th>
            <th data-options="field:'name'">Name</th>
            <th data-options="field:'price'">Price</th>
        </tr>
    </thead>
    <tbody>
        <tr>
            <td>001</td><td>name1</td><td>2323</td>
        </tr>
        <tr>
            <td>002</td><td>name2</td><td>4612</td>
        </tr>
    </tbody>
</table>
```

Create datagrid via <table> markup. The nested <th> tags define the columns on the table.

```
<table class="easyui-datagrid" style="width:400px;height:250px"
        data-options="url:'datagrid_data.json',fitColumns:true,singleSelect:true">
    <thead>
        <tr>
            <th data-options="field:'code',width:100">Code</th>
            <th data-options="field:'name',width:100">Name</th>
            <th data-options="field:'price',width:100,align:'right'">Price</th>
        </tr>
    </thead>
</table>
```

Create datagrid using javascript is also allowed.

```
<table id="dg"></table>
```

```
$('#dg').datagrid({
    url:'datagrid_data.json',
    columns:[[
        {field:'code',title:'Code',width:100},
        {field:'name',title:'Name',width:100},
        {field:'price',title:'Price',width:100,align:'right'}
    ]]
});
```

Query data with some parameters.

```
$('#dg').datagrid('load', {
    name: 'easyui',
    address: 'ho'
});
```

After changing data to server, refresh the front data.

```
$('#dg').datagrid('reload');    // reload the current page data
```

DataGrid Properties

The properties extend from panel. below is the added properties for datagrid.

Name	Type	Description	Default
columns	array	The datagrid columns config object, see column properties for more details.	undefined
frozenColumns	array	Same as the columns property, but the these columns will be frozen on left.	undefined
fitColumns	boolean	True to auto expand/contract the size of the columns to fit the grid width and prevent horizontal scrolling.	false
resizeHandle	string	Resizing column position, Available value are: 'left','right','both'. When 'right', users can resize columns by dragging the right edge of column headers, etc. Available since version 1.3.2.	right
autoRowHeight	boolean	Defines if set the row height based on the contents of that row. Set to false can improve loading performance.	true

toolbar	array,selector	The top toolbar of datagrid panel. Possible values:
		1) an array, each tool options are same as linkbutton.
		2) a selector that indicate the toolbar.
		Define toolbar within a <div> tag:
		$('#dg').datagrid({
		        toolbar: '#tb'
		});
		<div id="tb">
		<a href="#" class="easyui-linkbutton" data-options="iconCls:'icon-edit',plain:true"/a>
		<a href="#" class="easyui-linkbutton" data-options="iconCls:'icon-help',plain:true"/a>
		</div>
		Define toolbar via array:
		$('#dg').datagrid({
		        toolbar: [{
		                iconCls: 'icon-edit',
		                handler: function(){alert('edit')}
		        },'-',{
		                iconCls: 'icon-help',
		                handler: function(){alert('help')}
		        }]
		});
			null

striped	boolean	True to stripe the rows.	false
method	string	The method type to request remote data.	post
nowrap	boolean	True to display data in one line. Set to true can improve loading performance.	true
idField	string	Indicate which field is an identity field.	null
url	string	A URL to request data from remote site.	null
data	array,object	The data to be loaded. Available since version 1.3.2. Code example:	null

		`$('#dg').datagrid({`
		`data: [`
		`{f1:'value11', f2:'value12'},`
		`{f1:'value21', f2:'value22'}`
		`]`
		`});`	

loadMsg	string	When loading data from remote site, show a prompt message.	Processing, please wait …
pagination	boolean	True to show a pagination toolbar on datagrid bottom.	false
rownumbers	boolean	True to show a row number column.	false
singleSelect	boolean	True to allow selecting only one row.	false
ctrlSelect	boolean	True to only allow multi-selection when ctrl+click is used. Available since version 1.3.6.	false
checkOnSelect	boolean	If true, the checkbox is checked/unchecked when the user clicks on a row. If false, the checkbox is only checked/unchecked when the user clicks exactly on the checkbox. Available since version 1.3.	true
selectOnCheck	boolean	If set to true, clicking a checkbox will always select the row. If false, selecting a row will not check the checkbox. Available since version 1.3.	true
pagePosition	string	Defines position of the pager bar. Available values are: 'top','bottom','both'. Available since version 1.3.	bottom
pageNumber	number	When set pagination property, initialize the page number.	1
pageSize	number	When set pagination property, initialize the page size.	10
pageList	array	When set pagination property, initialize the page size selecting list.	[10,20,30,40,50]

queryParams	object	When request remote data, sending additional parameters also.
		Code example:
		`$('#dg').datagrid({`
		`queryParams: {`
		`name: 'easyui',`
		`subject: 'datagrid'`
		`}`
		`});`
			{}

sortName	string	Defines which column can be sorted.	null
sortOrder	string	Defines the column sort order, can only be 'asc' or 'desc'.	asc
multiSort	boolean	Defines if to enable multiple column sorting. Available since version 1.3.4.	false
remoteSort	boolean	Defines if to sort data from server.	true
showHeader	boolean	Defines if to show row header.	true
showFooter	boolean	Defines if to show row footer.	false
scrollbarSize	number	The scrollbar width(when scrollbar is vertical) or height(when scrollbar is horizontal).	18
rowStyler	function	Return style such as 'background:red'. The function take two parameters: rowIndex: the row index, start with 0 rowData: the record corresponding to this row	

		Code example:
		`$('#dg').datagrid({`
		`    rowStyler: function(index,row){`
		`        if (row.listprice>80){`
		`            return 'background-color:#6293BB;color:#fff;'; // return inline style`
		`            // the function can return predefined css class and inline style`
		`            // return {class:'r1', style:{'color:#fff'}};`
		`        }`
		`    }`
		`});`	

loader	function	Defines how to load data from remote server. Return false can abort this action. This function takes following parameters: param: the parameter object to pass to remote server. success(data): the callback function that will be called when retrieve data successfully. error(): the callback function that will be called when failed to retrieve data.	json loader

loadFilter	function	Return the filtered data to display. The function take one parameter 'data' that indicate the original data. You can change original source data to standard data format. This function must return standard data object that contain 'total' and 'rows' properties.
		Code example:
		`// removing 'd' object from asp.net web service json output`
		`$('#dg').datagrid({`
		`    loadFilter: function(data){`
		`        if (data.d){`
		`            return data.d;`
		`        } else {`
		`            return data;`
		`        }`
		`    }`
		`});`	

editors	object	Defines the editor when editing a row.	predefined editors
view	object	Defines the view of datagrid.	default view

Column Properties

The DataGrid Columns is an array object, which element is an array too. The element of element array is a config object, which defines every column field.

Code example:

```
columns:[[
    {field:'itemid',title:'Item ID',rowspan:2,width:80,sortable:true},
    {field:'productid',title:'Product ID',rowspan:2,width:80,sortable:true},
    {title:'Item Details',colspan:4}
],[
    {field:'listprice',title:'List Price',width:80,align:'right',sortable:true},
    {field:'unitcost',title:'Unit Cost',width:80,align:'right',sortable:true},
    {field:'attr1',title:'Attribute',width:100},
    {field:'status',title:'Status',width:60}
]]
```

Name	Type	Description	Default

title	string	The column title text.	undefined
field	string	The column field name.	undefined
width	number	The width of column. If not defined, the width will auto expand to fit its contents. No width definition will reduce performance.	undefined
rowspan	number	Indicate how many rows a cell should take up.	undefined
colspan	number	Indicate how many columns a cell should take up.	undefined
align	string	Indicate how to align the column data. 'left','right','center' can be used.	undefined
halign	string	Indicate how to align the column header. Possible values are: 'left','right','center'. If not assigned, the header alignment is same as data alignment defined via 'align' property. Available since version 1.3.2.	undefined
sortable	boolean	True to allow the column can be sorted.	undefined
order	string	The default sort order, can only be 'asc' or 'desc'. Available since version 1.3.2.	undefined
resizable	boolean	True to allow the column can be resized.	undefined
fixed	boolean	True to prevent from adjusting width when 'fitColumns' is set to true.	undefined
hidden	boolean	True to hide the column.	undefined
checkbox	boolean	True to show a checkbox. The checkbox column has fixed width.	undefined

formatter	function	The cell formatter function, take three parameters:
		value: the field value.
		rowData: the row record data.
		rowIndex: the row index.
		Code example:
		`$('#dg').datagrid({`
		`    columns:[[`
		`        {field:'userId',title:'User', width:80,`
		`            formatter: function(value,row,index){`
		`                if (row.user){`
		`                    return row.user.name;`
		`                } else {`
		`                    return value;`
		`                }`
		`            }`
		`        }`
		`    ]]`
		`});`
			undefined

styler	function	The cell styler function, return style string to custom the cell style such as 'background:red'. The function take three parameter:
		value: the field value.
		rowData: the row record data.
		rowIndex: the row index.
		Code example:
		`$('#dg').datagrid({`
		`    columns:[[`
		`        {field:'listprice',title:'List Price', width:80, align:'right',`
		`            styler: function(value,row,index){`
		`                if (value < 20){`
		`                    return 'background-color:#ffee00;color:red;';`
		`                    // the function can return predefined css class and inline style`
		`                    // return {class:'c1',style:'color:red'}`
		`                }`
		`            }`
		`        }`
		`    ]]`
		`});`
			undefined

<table>
<tr>
<td>sorter</td>
<td>function</td>
<td>The custom field sort function that used to do local sorting, take two parameters:
a: the first field value.
b: the second field value.
Code example:
<pre>
$('#dg').datagrid({
	remoteSort: false,
	columns: [[
		{field:'date',title:'Date',width:80,sortable:true,align:'center',
			sorter:function(a,b){
				a = a.split('/');
				b = b.split('/');
				if (a[2] == b[2]){
					if (a[0] == b[0]){
						return (a[1]>b[1]?1:-1);
					} else {
						return (a[0]>b[0]?1:-1);
					}
				} else {
					return (a[2]>b[2]?1:-1);
				}
			}
		}
	]]
});
</pre></td>
<td>undefined</td>
</tr>
<tr>
<td>editor</td>
<td>string,object</td>
<td>Indicate the edit type. When string indicates the edit type, when object contains two properties:
type: string, the edit type, possible types are: text,textbox,numberbox,numberspinner, combobox,combotree,combogrid,datebox,datetimebox, timespinner,datetimespinner, textarea,checkbox,validatebox.
options: object, the editor options corresponding to the edit type.</td>
<td>undefined</td>
</tr>
</table>

Editor

Override defaults with $.fn.datagrid.defaults.editors.

Every editor has following actions:

Name	Parameters	Description
init	container, options	Initialize the editor and return the target object.
destroy	target	Destroy the editor if necessary.
getValue	target	Get value from editor text.
setValue	target , value	Set value for editor.
resize	target , width	Resize the editor if necessary.

For example, the text editor is defined as following:

```
$.extend($.fn.datagrid.defaults.editors, {
    text: {
        init: function(container, options){
            var input = $('<input type="text" class="datagrid-editable-input">').appendTo(cor
            return input;
        },
        destroy: function(target){
            $(target).remove();
        },
        getValue: function(target){
            return $(target).val();
        },
        setValue: function(target, value){
            $(target).val(value);
        },
        resize: function(target, width){
            $(target)._outerWidth(width);
        }
    }
});
```

DataGrid View

Override defaults with $.fn.datagrid.defaults.view.

The view is an object that will tell datagrid how to render rows. The object must defines the following functions:

Name	Parameters	Description
render	target, container, frozen	Called when the data is loaded. target: DOM object, the datagrid object. container: the rows container. frozen: indicate if to render the frozen container.
renderFooter	target, container, frozen	This is an option function to render row footer.
renderRow	target, fields, frozen, rowIndex, rowData	This is an option function and will be called by render function.
refreshRow	target, rowIndex	Defines how to refresh the specified row.
onBeforeRender	target, rows	Fires before the view is rendered.
onAfterRender	target	Fires after the view is rendered.

Events

The events extend from panel, below is the added events for datagrid.

Name	Parameters	Description
onLoadSuccess	data	Fires when data is loaded successfully.
onLoadError	none	Fires when some errors occur to load remote data.

onBeforeLoad	param	Fires before a request is made to load data. If return false the load action will be canceled.
onClickRow	index,row	Fires when the user clicks a row, the parameters contains: index: the clicked row index, start with 0 row: the record corresponding to the clicked row
onDblClickRow	index,row	Fires when the user double clicks a row, the parameters contains: index: the clicked row index, start with 0 row: the record corresponding to the clicked row
onClickCell	index,field,value	Fires when the user clicks a cell.

onDblClickCell	index,field,value	Fires when the user double clicks a cell.
		Code example:
		`// when double click a cell, begin editing and make the editor get focus`
		`$('#dg').datagrid({`
		`        onDblClickCell: function(index,field,value){`
		`                $(this).datagrid('beginEdit', index);`
		`                var ed = $(this).datagrid('getEditor', {index:index,field:field});`
		`                $(ed.target).focus();`
		`        }`
		`});`

onBeforeSortColumn	sort,order	Fires before the user sorts a column, return false to cancel this action. Available since version 1.3.6.
onSortColumn	sort,order	Fires when the user sorts a column, the parameters contains: sort: the sort column field name order: the sort column order
onResizeColumn	field,width	Fires when the user resizes the column.
onBeforeSelect	index,row	Fires before the user selects a row, return false to cancel this action. Available since version 1.4.1.
onSelect	index,row	Fires when the user selects a row, the parameters contains: index: the selected row index, start with 0 row: the record corresponding to the selected row
onBeforeUnselect	index,row	Fires before the user unselects a row, return false to cancel this action. Available since version 1.4.1.
onUnselect	index,row	Fires when the user unselects a row, the parameters contains: index: the unselected row index, start with 0 row: the record corresponding to the unselected row
onSelectAll	rows	Fires when the user selects all rows.
onUnselectAll	rows	Fires when the user unselects all rows.
onBeforeCheck	index,row	Fires before the user checks a row, return false to cancel this action. Available since version 1.4.1.
onCheck	index,row	Fires when the user checks a row, the parameters contains: index: the checked row index, start with 0 row: the record corresponding to the checked row Available since version 1.3.
onBeforeUncheck	index,row	Fires before the user unchecks a row, return false to cancel this action. Available since version 1.4.1.

onUncheck	index,row	Fires when the user unchecks a row, the parameters contains: index: the unchecked row index, start with 0 row: the record corresponding to the unchecked row Available since version 1.3.
onCheckAll	rows	Fires when the user checks all rows. Available since version 1.3.
onUncheckAll	rows	Fires when the user unchecks all rows. Available since version 1.3.
onBeforeEdit	index,row	Fires before the user starts editing a row, return false to cancel this action. The parameters contains: index: the editing row index, start with 0 row: the record corresponding to the editing row
onBeginEdit	index,row	Fires when a row goes into edit mode. Available since version 1.3.6.
onEndEdit	index,row,changes	Fires when finishing editing but before destroying editors. Available since version 1.3.6.
onAfterEdit	index,row,changes	Fires after the user finishes editing, the parameters contains: index: the editing row index, start with 0 row: the record corresponding to the editing row changes: the changed field/value pairs
onCancelEdit	index,row	Fires when the user cancels editing a row, the parameters contains: index: the editing row index, start with 0 row: the record corresponding to the editing row
onHeaderContextMenu	e,field	Fires when the header of datagrid is right clicked.
onRowContextMenu	e,index,row	Fires when a row is right clicked.

Methods

Name	Parameter	Description
options	none	Return the options object.
getPager	none	Return the pager object.
getPanel	none	Return the panel object.

getColumnFields	frozen	Return the column fields. If frozen setted to true the frozen column fields is returned. Code example:
		`var opts = $('#dg').datagrid('getColumnFields');   // get unfrozen columns`
		`var opts = $('#dg').datagrid('getColumnFields', true); // get frozen columns`

getColumnOption	field	Return the specified column option.
resize	param	Do resize and do layout.

load	param	Load and show the first page rows. If the 'param' is specified, it will replace with the queryParams property. Usually do a query by passing some parameters, this method can be called to load new data from server.
		`$('#dg').datagrid('load',{`
		`        code: '01',`
		`        name: 'name01'`
		`});`

reload	param	Reload the rows. Same as the 'load' method but stay on current page.

reloadFooter	footer	Reload the footer rows. Code examples:
		`// update footer row values and then refresh`
		`var rows = $('#dg').datagrid('getFooterRows');`
		`rows[0]['name'] = 'new name';`
		`rows[0]['salary'] = 60000;`
		`$('#dg').datagrid('reloadFooter');`
		
		`// update footer rows with new data`
		`$('#dg').datagrid('reloadFooter',[`
		`        {name: 'name1', salary: 60000},`
		`        {name: 'name2', salary: 65000}`
		`]);`

loading	none	Display loading status.
loaded	none	Hide loading status.
fitColumns	none	Make columns auto expand/collapse to fit datagrid width.

fixColumnSize	field	Fix columns size. If 'field' parameter is not assigned, all columns size will be fixed.
		Code example:
		`$('#dg').datagrid('fixColumnSize', 'name');  // fix the 'name' column size`
		`$('#dg').datagrid('fixColumnSize');  // fix all columns size`

fixRowHeight	index	Fix the specified row height. If 'index' parameter is not assigned, all rows height will be fixed.
freezeRow	index	Freeze the specify row that will always be displayed at the top when the datagrid is scrolled down. Available since version 1.3.2.
autoSizeColumn	field	adjusts the column width to fit the contents. Available since version 1.3.
loadData	data	Load local data, the old rows will be removed.
getData	none	Return the loaded data.
getRows	none	Return the current page rows.
getFooterRows	none	Return the footer rows.
getRowIndex	row	Return the specified row index, the row parameter can be a row record or an id field value.
getChecked	none	Return all rows where the checkbox has been checked. Available since version 1.3.
getSelected	none	Return the first selected row record or null.
getSelections	none	Return all selected rows, when no record selected, am empty array will return.
clearSelections	none	Clear all selections.
clearChecked	none	Clear all checked rows. Available since version 1.3.2.
scrollTo	index	Scroll to the specified row. Available since version 1.3.3.
highlightRow	index	Highlight a row. Available since version 1.3.3.
selectAll	none	Select all current page rows.
unselectAll	none	Unselect all current page rows.
selectRow	index	Select a row, the row index start with 0.
selectRecord	idValue	Select a row by passing id value parameter.

unselectRow	index	Unselect a row.
checkAll	none	Check all current page rows. Available since version 1.3.
uncheckAll	none	Uncheck all current page rows. Available since version 1.3.
checkRow	index	Check a row, the row index start with 0. Available since version 1.3.
uncheckRow	index	Uncheck a row, the row index start with 0. Available since version 1.3.
beginEdit	index	Begin editing a row.
endEdit	index	End editing a row.
cancelEdit	index	Cancel editing a row.
getEditors	index	Get the specified row editors. Each editor has the following properties: actions: the actions that the editor can do, same as the editor definition. target: the target editor jQuery object. field: the field name. type: the editor type, such as 'text','combobox','datebox', etc.

getEditor	options	Get the specified editor, the options contains two properties:
		index: the row index.
		field: the field name.
		Code example:
		`// get the datebox editor and change its value`
		`var ed = $('#dg').datagrid('getEditor', {index:1,field:'birthday'});`
		`$(ed.target).datebox('setValue', '5/4/2012');`

refreshRow	index	Refresh a row.
validateRow	index	validate the specified row, return true when valid.

updateRow	param	Update the specified row, the param contains following properties:
		index: the row index to be updated.
		row: the new row data.
		Code example:
		`$('#dg').datagrid('updateRow',{`
		`        index: 2,`
		`        row: {`
		`                name: 'new name',`
		`                note: 'new note message'`
		`        }`
		`});`

appendRow	row	Append a new row. The new row will be added to the last position:
		`$('#dg').datagrid('appendRow',{`
		`        name: 'new name',`
		`        age: 30,`
		`        note: 'some messages'`
		`});`

insertRow	param	Insert a new row, the param contains following properties: index: the row index to insert into, if not defined, append the new row. row: the row data. Code examples:

		// insert a new row at second row position
		$('#dg').datagrid('insertRow',{
		        index: 1, // index start with 0
		        row: {
		                name: 'new name',
		                age: 30,
		                note: 'some messages'
		        }
		});

deleteRow	index	Delete a row.
getChanges	type	Get changed rows since the last commit. The type parameter indicate which type changed rows, possible value is: inserted,deleted,updated,etc. When the type parameter is not assigned, return all changed rows.
acceptChanges	none	Commits all the changes data since it was loaded or since the last time acceptChanges was called.
rejectChanges	none	Rolls back all the changes data since it was created, or since the last time acceptChanges was called.

mergeCells	options	Merge some cells to one cell, the options contains following properties:
		index: the row index.
		type: the row type, possible values are 'body','footer'.
		field: the field name.
		rowspan: the rowspan count to be merged.
		colspan: the colspan count to be merged.
		Code example:
		// merge the footer rows
		$('#dg').datagrid('mergeCells', {
		        index: 1,
		        field: 'name',
		        colspan: 2,
		        type: 'footer'
		});

showColumn	field	Display the specified column.
hideColumn	field	Hide the specified column.

sort	param	Sort the datagrid. Available since version 1.3.6.
		Code example:
		// sort on a column
		$('#dg').datagrid('sort', 'itemid');
		// sort on a column with specified order
		$('#dg').datagrid('sort', {
		        sortName: 'productid',
		        sortOrder: 'desc'
		});
		// sort on multiple columns
		$('#dg').datagrid('sort', {
		        sortName: 'productid,listprice',
		        sortOrder: 'desc,asc'
		});