

jQuery.bsgrid 简单易用的jQuery Grid插件

jquery bsgrid, A simple jQuery Grid plugin with pagination and export. 一个简单易用的jQuery Grid插件, 支持分页或不分页, 支持json、xml数据格式, 对导出友好, 扩展性友好。

当前插件版本: 1.20

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在线示例地址: <http://jquery-bsgrid.coding.io/>

bsgrid的由来

首先, 澄清插件名称为何叫bsgrid, 是因为敝人常用bs开头的字符做英文账号的缘故。bsgrid诞生的原因是主流插件或框架的grid使用或扩展比较复杂。

以下仅简单说下各插件或框架的grid:

- 1, 目前主流Grid基本比较适用于内网系统, 对于外网系统适用而言, 想要改变皮肤样式, 字体大小等都非常困难;
- 2, 主流Grid封装的太好, 这反而造成了其扩展性能不是很好, 并且其methods、properties很多, 上手不容易;
- 3, 主流grid大多数不提供无分页情况下后台数据的全部展现。

bsgrid的特点

- 1, 轻量级, 基于jQuery及HTML Table, 除了对加载数据、分页、渲染数据的简单封装外, 不额外增加特别的功能; 模块化JS代码, 可按需加载; CSS样式精致简洁, 对于扩展修改非常容易;
- 2, 使用友好, 对于一个简单的表格展现, 仅仅数十行代码即可完成, 并且支持json、xml两种数据格式; 且支持友好的导出参数构建;
- 3, 自带load加载数据遮罩, 并很容易进行扩展或重写;
- 4, 扩展性好, 插件有特别好的扩展性, 易于对插件本身进行局部甚至较大的修改, 易于改变展现样式、渲染数据; 插件放开了属性及方法的全局修改权限, 所有方法都可在外部进行全局重写, 而无需修改插件本身的代码。

对于主流Grid的简单理解

大概说下目前的一些主流grid插件或框架的grid

- 1, ExtJS, 功能丰富, 封装好, 但属重量级产品, 需要加载大体积文件, 且响应速度较慢, 需商业授权, 一般用于内部系统;
- 2, DHtmlx, 同样功能丰富, 封装好, 不过其可以根据所需要的模块进行加载, 速度方面快于ExtJS, 需商业授权, 由于其样式不易修改, 同样一般用于内部系统;
- 3, EasyUI, 基于jQuery, 语法使用jQuery, 却部分地方像ExtJS的写法, 在不需其源码的情况下无需商业授权, 因无源码而不方便按需模块化加载, 也很难改变皮肤样式;
- 4, jqGrid, 基于jQuery, 开源免费且功能特别强大, 但同样其样式不易修改;
- 5, Flexigrid, 基于jQuery, 功能逊色, 但轻量级, methods、properties较少, 不失为想用ExtJS、EasyUI却难以上手这两者的另外一个选择。

bsgrid示例目录

以下列出Grid及Grid With ArtDialog的示例并作以说明; Util、Button、Form、Paging、Grid With Other

Util: 演示util.js, 提供form表单序列化为字符串的方法(区别于jquery的param方法), 以及form表单用

Button: 演示icon.css, 提供两种图标样式

Form: 演示form.js、form.css, 对于表单的敏捷处理, 包括获取表单值、给表单赋值、表单的查看新增修

Paging: 演示grid.paging.js分页工具条, 不依赖grid.js

Grid With Other Pagination: 演示Grid集成第三方分页工具条使用

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2, Simple Grid

3, Simple zh-CN Grid

4, Simple XML Data Grid

5, No Pagation

6, No Diaplay Blank Rows

7, No Data

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1, Example Index

Examples Index

Util	Util		
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Form	Simple Form	Standard Form	
Paging	Simple Paging	Simple Little Paging	Least Paging
Grid	Simple Grid	Simple zh-CN Grid (Row Hover)	Simple XML Data Grid
	No Pagation	No Diaplay Blank Rows	No Data
	Grid With Checkbox	Grid With Little Paging	
	Standard Grid (Require JSP Env)	Multi Grid	
	Export Grid		
Grid With ArtDialog	Pop with ArtDialog	Grid with ArtDialog	Grid And Form with ArtDialog
Grid With Other Pagination (Require JSP Env) Note	With jqPagination	With jqPagination (Adapter)	
	With jquery_pagination	With jquery_pagination (Adapter)	
	With iPaginate	With iPaginate (Adapter)	
	With iPages	With iPages (Adapter)	
	With smartpaginator	With smartpaginator(Adapter)	
	With iPaginator	With iPaginator(Adapter)	

2, Simple Grid

XH	ID	CHAR	TEXT	DATE	TIME	NUM	Operate
1	202	1	TEXT_TEXT_TEXT_TEXT_TEXT_TEXT_TEXT_TEXT_TE...			11.2	Operate
2	201	111	TEXT_TEXT_TEXT_TEXT_TEXT_TEXT_TEXT_TEXT_TE...				Operate
3	200	200	TEXT_TEXT_TEXT_TEXT_TEXT_TEXT_TEXT_TEXT_TE...				Operate
4	199	199					Operate
5	32	34				12.1	Operate
6	16	test				16.1	Operate
7	15	zifu15		2012-05-15	15:01:01	1.15	Operate
8	14	zifu14		2012-05-14	14:01:01	1.14	Operate
9	13	zifu13		2012-05-13	13:01:01	1.13	Operate
10	12	zifu12		2012-05-12	12:01:01	1.12	Operate

PageSize: Display: 1 - 10 Count: 20

 1 / 2

引用文件:

```

<link rel="stylesheet" href="../../sources/css/grid.css"/>
<link rel="stylesheet" href="../../sources/css/grid.paging.css"/>
<script type="text/javascript" src="../../plugins/jquery-1.4.4.min.js"></script>
<script type="text/javascript" src="../../sources/js/common.js"></script>
<script type="text/javascript" src="../../sources/js/lang/grid.en.js"></script>
<script type="text/javascript" src="../../sources/js/grid.js"></script>
<script type="text/javascript" src="../../sources/js/grid.paging.js"></script>

```

实现代码:

```

<table id="searchTable" class="bsgrid">
  <tr>
    <th w_index="XH" width="5%;">XH</th>
    <th w_index="ID" width="5%;">ID</th>
    <th w_index="CHAR" w_align="left" w_tip="true" width="15%;">CHAR</th>
    <th w_index="TEXT" w_align="left" w_length="50" width="30%;">TEXT</th>
    <th w_index="DATE" width="15%;">DATE</th>
    <th w_index="TIME" width="15%;">TIME</th>
    <th w_index="NUM" width="5%;">NUM</th>
    <th w_render="operate" width="10%;">Operate</th>
  </tr>
</table>
<script type="text/javascript">
  $(function () {
    $.fn.bsgrid.init('searchTable', {
      url: 'data/simple.json',
      // autoLoad: false,
      pageSizeSelect: true,
      pageSize: 10
    });
  });

  function operate(record, rowIndex, colIndex, options) {
    return '<a href="#" onclick="alert(\'ID=' + record['ID'] + '\');">Operate</a>';
  }
</script>

```

3, Simple zh-CN Grid

XH	ID	CHAR	TEXT	DATE	TIME	NUM	Operate
1	202	1	TEXT_TEXT_TEXT_TEXT_TEXT_TEXT_TEXT_TEXT_TE...			11.2	Operate
2	201	111	TEXT_TEXT_TEXT_TEXT_TEXT_TEXT_TEXT_TEXT_TE...				Operate
3	200	200	TEXT_TEXT_TEXT_TEXT_TEXT_TEXT_TEXT_TEXT_TE...				Operate
4	199	199					Operate
5	32	34				12.1	Operate
6	16	test				16.1	Operate
7	15	zifu15		2012-05-15	15:01:01	1.15	Operate
8	14	zifu14		2012-05-14	14:01:01	1.14	Operate
9	13	zifu13		2012-05-13	13:01:01	1.13	Operate
10	12	zifu12		2012-05-12	12:01:01	1.12	Operate

每页显示: 10 当前显示: 1 - 10 共: 20 首页 上一页 1 / 2 下一页 末页 跳转

- 1, 插件语言本地化文件: grid.en.js、grid.zh-CN.js、grid.zh-Tw.js
- 2, 行间隔色配置: stripeRows: true
- 3, 行hover样式: 添加如下样式

```
/* row hover */
.bsgrid tr:hover {
    background-color: #ffe48d;
}
```

4, Simple XML Data Grid

XH	ID	CHAR	TEXT	DATE	TIME	NUM	Operate
1	202	1	TEXT_TEXT_TEXT_TEXT_TEXT_TEXT_TEXT_TEXT_TE...			11.2	Operate
2	201	111	TEXT_TEXT_TEXT_TEXT_TEXT_TEXT_TEXT_TEXT_TE...				Operate
3	200	200	TEXT_TEXT_TEXT_TEXT_TEXT_TEXT_TEXT_TEXT_TE...				Operate
4	199	199					Operate
5	32	34				12.1	Operate
6	16	test				16.1	Operate
6	16	test				16.1	Operate
7	15	zifu15		2012-05-15	15:01:01	1.15	Operate
8	14	zifu14		2012-05-14	14:01:01	1.14	Operate
9	13	zifu13		2012-05-13	13:01:01	1.13	Operate

PageSize: 10 Display: 1 - 10 Count: 20 First Prev 1 / 2 Next Last Goto

默认的是json格式，换加载XML格式数据：

方式1，全局修改加载数据格式：

```
$fn.bsgrid.defaults.dataType = 'xml';
```

方式2，单grid修改加载数据格式：

```
$fn.bsgrid.init('searchTable', {
    url: 'data/simple.xml',
    dataType: 'xml',
    pageSizeSelect: true,
    pageSize: 10
})
```

```
});
```

5, No Pagation

支持展示后台的全部数据，分页工具条变为如下只显示总数的样式：

15	321	34				12.1	Operate
16	161	test				16.1	Operate
17	151	zifu15		2012-05-15	15:01:01	1.15	Operate
18	141	zifu14		2012-05-14	14:01:01	1.14	Operate
19	131	zifu13		2012-05-13	13:01:01	1.13	Operate
20	121	zifu12		2012-05-12	12:01:01	1.12	Operate

Count: 20

实现代码：将pageAll设置为true即可，后台数据格式与分页后台数据格式一致

```
$.fn.bsgrid.init('searchTable', {  
    url: 'data/simple.json',  
    pageAll: true  
});
```

补充说明：不分页则无需加载grid.paging.css、grid.paging.js

6, No Diaplay Blank Rows

设置是否显示无数据的行，下图示例展示的是分页行大小是25，但只显示了20条数据，无数据行没有显示：

15	321	34				12.1	Operate
16	161	test				16.1	Operate
17	151	zifu15		2012-05-15	15:01:01	1.15	Operate
18	141	zifu14		2012-05-14	14:01:01	1.14	Operate
19	131	zifu13		2012-05-13	13:01:01	1.13	Operate
20	121	zifu12		2012-05-12	12:01:01	1.12	Operate

PageSize: 25 ▼ Display: 1 - 20 Count: 20 First Prev 1 / 1 Next Last Goto

实现代码：修改全局参数displayBlankRows，默认值为true

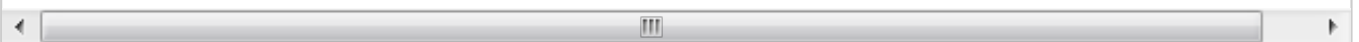
```
$.fn.bsgrid.defaults.displayBlankRows = false;
```

7, No Data

无数据时的提示：

XH	ID	CHAR	TEXT	DATE	TIME	NUM	Operate
No data to display.							

注意此提示仅当\$.fn.bsgrid.defaults.displayBlankRows = false;时才会显示，为true时显示的是空行
说明：属性displayPagingToolbarOnlyMultiPages与displayBlankRows互不影响。

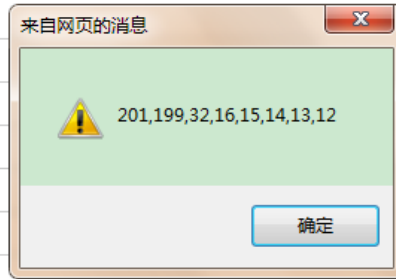


8, Grid With Checkbox

bsgrid内置并不支持checkbox的直接配置，通过column列的w_render属性实现：

Get Checked Ids

<input type="checkbox"/>	XH	ID	CHAR	TEXT	DATE	TIME	NUM	Operate
<input type="checkbox"/>	1	202	1	TEXT_TEXT_TEXT_TEXT_TEXT_TEXT_TEXT_TEXT_TE...			11.2	Operate
<input checked="" type="checkbox"/>	2	201	111	TEXT_TEXT_TEXT_TEXT_TEXT_TEXT_TEXT_TEXT_TE...				Operate
<input type="checkbox"/>	3	200	200	TEXT_TEXT_TEXT_TEXT_TEXT_TEXT_TEXT_TEXT_TE...				Operate
<input checked="" type="checkbox"/>	4	199	199					Operate
<input checked="" type="checkbox"/>	5	32	34				12.1	Operate
<input checked="" type="checkbox"/>	6	16	test				16.1	Operate
<input checked="" type="checkbox"/>	7	15	zifu15		2012-05-15	15:01:01	1.15	Operate
<input checked="" type="checkbox"/>	8	14	zifu14		2012-05-14	14:01:01	1.14	Operate
<input checked="" type="checkbox"/>	9	13	zifu13		2012-05-13	13:01:01	1.13	Operate
<input checked="" type="checkbox"/>	10	12	zifu12		2012-05-12	12:01:01	1.12	Operate



PageSize: 10 Display: 1 - 10 Count: 20 First Prev 1 / 2 Next Last Goto

实现代码：主要部分

```

<th w_render="checkbox" width="3%"><input type="checkbox"/></th>

$('#searchTable tr:first th:first input[type=checkbox]').change(function () {
    if ($(this).attr('checked')) {
        $('#searchTable tr:not(:first) td input[type=checkbox]').attr('checked', true)
    } else {
        $('#searchTable tr:not(:first) td input[type=checkbox]').attr('checked', false)
    }
});

function checkbox(record, rowIndex, colIndex, options) {
    return '<input type="checkbox" value="' + record['ID'] + '"/>';
}

function getCheckedIds() {
    var ids = '';
    $('#searchTable tr:not(:first) td input:checked').each(function () {
        ids += ',' + $(this).val();
    });
    alert(ids.length > 0 ? ids.substring(1) : '');
}

```

9. Grid With Little Paging

似ExtJS、EasyUI类分页工具条：

XH	ID	CHAR	TEXT	DATE	TIME	NUM	Operate
1	202	1	TEXT_TEXT_TEXT_TEXT_TEXT_TEXT_TEXT_TEXT_TE...			11.2	Operate
2	201	111	TEXT_TEXT_TEXT_TEXT_TEXT_TEXT_TEXT_TEXT_TE...				Operate
3	200	200	TEXT_TEXT_TEXT_TEXT_TEXT_TEXT_TEXT_TEXT_TE...				Operate
4	199	199					Operate
5	32	34				12.1	Operate
6	16	test				16.1	Operate
7	15	zifu15		2012-05-15	15:01:01	1.15	Operate
8	14	zifu14		2012-05-14	14:01:01	1.14	Operate
9	13	zifu13		2012-05-13	13:01:01	1.13	Operate
10	12	zifu12		2012-05-12	12:01:01	1.12	Operate

10

1 - 10

total 20

1 / 2

Note:

1, grid.paging.little.js should be loaded after grid.en.js

```
将grid.paging.css替换为grid.paging.little.css，并额外引入grid.paging.little.js（注意引用顺序）
<link rel="stylesheet" href="../../sources/css/grid.paging.little.css"/>
<script type="text/javascript" src="../../sources/js/grid.paging.little.js"></script>
```

10, Standard Grid

演示bsgrid的大部分对外调用方法，并描述主要配置属性及其作用。

此处为了演示分页，后台使用jsp页面模拟分页数据，可以完整的展示排序，分页。

Get pageSize

Get totalRows

Get totalPages

Get curPage

Get curPage RowsNum

Get startRow

Get endRow

First page

Prev page

Next page

Last page

Page 2

Goto page 2

Refresh page

Get sort name

Get sort order

Sort by ID

Clear grid body data

param1: param1

param2: param2

Set other parames

Get page request condition

ID	CHAR	TEXT	DATE	TIME	NUM	Operate
75	char_25	TEXT_TEXT_TEXT_TEXT_TEXT_TEXT_TEXT_TEXT_TE...	2012-12-12 15:01:01	15:01:01	250	Operate
76	char_24	TEXT_TEXT_TEXT_TEXT_TEXT_TEXT_TEXT_TEXT_TE...	2012-12-12 15:01:01	15:01:01	240	Operate
77	char_23	TEXT_TEXT_TEXT_TEXT_TEXT_TEXT_TEXT_TEXT_TE...	2012-12-12 15:01:01	15:01:01	230	Operate
78	char_22	TEXT_TEXT_TEXT_TEXT_TEXT_TEXT_TEXT_TEXT_TE...	2012-12-12 15:01:01	15:01:01	220	Operate
79	char_21	TEXT_TEXT_TEXT_TEXT_TEXT_TEXT_TEXT_TEXT_TE...	2012-12-12 15:01:01	15:01:01	210	Operate

PageSize: 5

Display: 1 - 5

Count: 26

First

Prev

1 / 6

Next

Last

Goto

11, Multi Grid

支持一个页面显示多个grid:

XH	ID	CHAR	TEXT	DATE	TIME	NUM	Operate
1	202	1	TEXT_TEXT_TEXT_TEXT_TEXT_TE...			11.2	Operate
2	201	111	TEXT_TEXT_TEXT_TEXT_TEXT_TE...				Operate
3	200	200	TEXT_TEXT_TEXT_TEXT_TEXT_TE...				Operate

PageSize: Display: 1 - 3 Count: 20

1 / 7

XH	ID	CHAR	TEXT	DATE	TIME	NUM	Operate
1	202	1	TEXT_TEXT_TEXT_TEXT_TEXT_TEXT_TEXT_TE...			11.2	Operate
2	201	111	TEXT_TEXT_TEXT_TEXT_TEXT_TEXT_TEXT_TE...				Operate
3	200	200	TEXT_TEXT_TEXT_TEXT_TEXT_TEXT_TEXT_TE...				Operate
4	199	199					Operate
5	32	34				12.1	Operate

PageSize: Display: 1 - 5 Count: 20

1 / 4

XH	ID	CHAR	TEXT	DATE	TIME	NUM	Operate
1	202	1	TEXT_TEXT_TEXT_TEXT_TEXT_TEXT_TEXT_TEXT_TE...			11.2	Operate
2	201	111	TEXT_TEXT_TEXT_TEXT_TEXT_TEXT_TEXT_TEXT_TE...				Operate
3	200	200	TEXT_TEXT_TEXT_TEXT_TEXT_TEXT_TEXT_TEXT_TE...				Operate

12, Export Grid

bsgrid并不是提供导出Grid的页面数据功能，而是进行导出参数的组织：

param1:
param2:

XH	ID	CHAR	TEXT	DATE	TIME	NUM	Operate
1	202	1	TEXT_TEXT_TEXT_TEXT_TEXT_TE...			11.2	Operate
2	201	111	TEXT_TEXT_TEXT_TEXT_TEXT_TE...				Operate
3	200	200	TEXT_TEXT_TEXT_TEXT_TEXT_TE...				Operate

简单的grid导出参数URL类似如下：

http://jquery-bsgrid.coding.io/examples/grid/export.html?exportFileName=Export%2520Examp1

需要额外引用用于导出的JS：

<script type="text/javascript" src="../../../sources/js/export.js"></script>

代码实现，如下，静态页面部分仅再需要增加一个导出按钮即可：

```

var gridObj;
$(function () {
    gridObj = $.fn.bsgrid.init('searchTable', {
        url: 'data/simple.json',
        pageSizeSelect: true,
        pageSize: 10
    });
});

function doExport() {
    alert('Only test request params, To see it in browser address url.');
    gridObj.options.otherParames = $('#searchForm').serializeArray();
    $.bsgrid_export.doExport($('#searchTable tr th'), gridObj.options.otherParames, {
        url: 'export.html', // only test request params
        exportFileName: 'Export Example',
        colsProperties: {
            width: 120
        }
    });
}

```



```

    },
    colWidthPercentmultiplier: 10 // if set column width N%, then column width wi
  });
}

```

13. Grid with ArtDialog

结合artDialog，演示使用artDialog的锁屏遮罩样式，以及演示使用artDialog覆盖JS原生alert、confirm、prompt方法的使用。

特别注意：

JS原生的alert、confirm、prompt方法是阻塞的，而使用artDialog覆盖的alert、confirm、prompt方法是非阻塞的，artDialog覆盖的方法是用回调方式实现阻塞的等待执行代码效果，详细可参看示

例：Pop with ArtDialog

XH	ID	CHAR	TEXT	DATE	TIME	NUM	Operate
1	202	1	TEXT_TEXT_TEXT_TEXT_TE...			11.2	edit delete
2	201	111	TEXT_TEXT_TEXT_TEXT_TE...				edit delete
3	200	200	TEXT_TEXT_TEXT_TEXT_TE...				edit delete
4	199	199					edit delete
5	32	34				12.1	edit delete
6	16	test				16.1	edit delete
7	15	zifu15		2012-05-15	15:01:01	1.15	edit delete
8	14	zifu14		2012-05-14	14:01:01	1.14	edit delete
9	13	zifu13		2012-05-13	13:01:01	1.13	edit delete
10	12	zifu12		2012-05-12	12:01:01	1.12	edit delete

PageSize: 10 Display: 1 - 10 Count: 20 First Prev 1 / 2 Next Last Goto

需要额外引用的文件：

```

<link rel="stylesheet" href="../../plugins/artDialog/skins/blue.css"/>
<link rel="stylesheet" href="override/artDialog.skins.override.css"/>
<script type="text/javascript" src="../../plugins/artDialog/jquery.artDialog.min.js">
<script type="text/javascript" src="../../plugins/artDialog/artDialog.plugins.min.js">
<script type="text/javascript" src="override.grid.js"></script>
<script type="text/javascript" src="override/artDialog.plugin.override.en.js"></scrip
<script type="text/javascript" src="override/artDialog.plugin.override.js"></script>
<script type="text/javascript" src="override.pop.js"></script>

```

artDialog需要引用的文件：artDialog/skins/blue.css、artDialog/jquery.artDialog.min.js、artD
覆盖bsgrid的锁屏遮罩样式的文件：override.grid.js

覆盖JS原生的alert、confirm、prompt方法的文件：artDialog.skins.override.css、artDialog.plugi

14. Grid And Form with ArtDialog

结合ArtDialog使用，可以完成一个很好看的CRUD功能，详细可查看示例及示例源码：

CHAR:

NUM:

Look search params in browser console.

XH	ID	CHAR	TEXT	DATE	TIME	NUM	Operate
1	202	1				11.2	View Edit Delete
2	201	111					View Edit Delete
3	200	200					View Edit Delete
4	199	199					View Edit Delete
5	32	34				12.1	View Edit Delete
6	16	test				16.1	View Edit Delete
7	15	zifu15			15:01:01	1.15	View Edit Delete
8	14	zifu14			14:01:01	1.14	View Edit Delete
9	13	zifu13			13:01:01	1.13	View Edit Delete
10	12	zifu12			12:01:01	1.12	View Edit Delete

PageSize

2

Next

Last

Goto

edit

XH:

CHAR:

TEXT:

TEXT TEXT TEXT TEXT TEXT
TEXT TEXT TEXT TEXT TEXT
T TEXT 1

DATE:

TIME:

NUM:

Save

Cancel