[**原创]JavaScript动态添加表格行（使用模板、标记）**](http://www.cnblogs.com/badwps/archive/2009/10/22/1588241.html)

　　在客户端使用JavaScript动态添加表格行，先到网上找了相关的资料，发现有现成做好的组件，发现它只能够满足比较简单的要求，对于复杂的操作情况，比如：添加一行之后，在这一行上还要进行相关的操作会显得有些吃力；本人比较喜欢表现层使用模板、标记填充数据的做法，于是自己做手做了个小组件，与大家一起分享。

**组件运行截图：**





**设计思路：** 　　在Table的thead中加入一行隐藏的行，当要添加一行时，复制一次隐藏的行，再将实例数据填充到这一行中相应的位置，填充完毕之后，再将这一行加到表格中去，整个操作完成。  
模板：隐藏的行即相当于模板，当需要时复制一次模板。  
标记：将模板行复制出来后，该如何填充数据？  
　　网上比较多的组件的做法是，传递进来两个数组，一组是元素名称列表，一组是对应的值列表，然后对复制出来的行进行一个查找，发现其中的元素的名称在元素名称列表中的，让其value=对应的值。这样做可以满足一般的需求，因为Table里面一般放置文本框，将值放到其中即完成任务。对于复杂的情况，要求将数据填充到其它的位置，这种方法就力不从心了。  
　　我的做法是将复制进来的模板行看做一段String，在这段String中查找标记，再将数据填充到相应的标记中去，这样的话，无论你哪个地方要填充数据，只要放一个标记就可以了，比上面的做法要灵活很多。

**代码实现（关键点讲解）**  
 　　我定义的标志为${属性}，传递过去的数据为一个entity，当在String中发现${city}，则表示将entity.city的内容替换${city}，当entity.city为NULL时，用&nbsp;替换${city}（&nbsp;网页中的空格）。

http://www.cnblogs.com/Images/OutliningIndicators/ContractedBlock.gifhttp://www.cnblogs.com/Images/OutliningIndicators/ExpandedBlockStart.gifCode  
 1http://www.cnblogs.com/Images/OutliningIndicators/None.gif动态添加行方法  
 2http://www.cnblogs.com/Images/OutliningIndicators/ExpandedBlockStart.gifhttp://www.cnblogs.com/Images/OutliningIndicators/ContractedBlock.giffunction addInstanceRow(tableId,names,values,functionName)http://www.cnblogs.com/Images/dot.gif{  
 3http://www.cnblogs.com/Images/OutliningIndicators/InBlock.gif    var tableObj=getTargetControl(tableId);  
 4http://www.cnblogs.com/Images/OutliningIndicators/InBlock.gif    var tbodyOnlineEdit=getTableTbody(tableObj);  
 5http://www.cnblogs.com/Images/OutliningIndicators/InBlock.gif    var theadOnlineEdit=tableObj.getElementsByTagName("THEAD")[0];  
 6http://www.cnblogs.com/Images/OutliningIndicators/InBlock.gif    var elm=theadOnlineEdit.rows[theadOnlineEdit.rows.length-1].cloneNode(true);  
 7http://www.cnblogs.com/Images/OutliningIndicators/InBlock.gif    elm.style.display="";  
 8http://www.cnblogs.com/Images/OutliningIndicators/ExpandedSubBlockStart.gifhttp://www.cnblogs.com/Images/OutliningIndicators/ContractedSubBlock.gif    if(typeof(names)!="undefined")http://www.cnblogs.com/Images/dot.gif{  
 9http://www.cnblogs.com/Images/OutliningIndicators/InBlock.gif        if(typeof(functionName)=="undefined") functionName="setObjValueByName";  
10http://www.cnblogs.com/Images/OutliningIndicators/ExpandedSubBlockStart.gifhttp://www.cnblogs.com/Images/OutliningIndicators/ContractedSubBlock.gif        if(typeof(values)!="undefined"&&values!=null)http://www.cnblogs.com/Images/dot.gif{  
11http://www.cnblogs.com/Images/OutliningIndicators/InBlock.gif            var entity=ArrayToObj(names,values);  
12http://www.cnblogs.com/Images/OutliningIndicators/InBlock.gif            setInputValue(elm,entity,functionName);  
13http://www.cnblogs.com/Images/OutliningIndicators/ExpandedSubBlockEnd.gif        }  
14http://www.cnblogs.com/Images/OutliningIndicators/InBlock.gif        else  
15http://www.cnblogs.com/Images/OutliningIndicators/InBlock.gif            setInputValue(elm,names,functionName);  
16http://www.cnblogs.com/Images/OutliningIndicators/ExpandedSubBlockEnd.gif    }  
17http://www.cnblogs.com/Images/OutliningIndicators/InBlock.gif    tbodyOnlineEdit.appendChild(elm);  
18http://www.cnblogs.com/Images/OutliningIndicators/ExpandedBlockEnd.gif}

1，获取Tbody，新添加的行要加到这里面去  
　　var tbodyOnlineEdit=getTableTbody(tableObj);

2，获取THEAD，隐藏的模板在这里面，进行复制  
 　　var theadOnlineEdit=tableObj.getElementsByTagName("THEAD")[0];  
 　　var elm=theadOnlineEdit.rows[theadOnlineEdit.rows.length-1].cloneNode(true);  
 　　elm.style.display="";

3，去复制出来的行进行填充

http://www.cnblogs.com/Images/OutliningIndicators/ContractedBlock.gifhttp://www.cnblogs.com/Images/OutliningIndicators/ExpandedBlockStart.gifCode  
1http://www.cnblogs.com/Images/OutliningIndicators/ExpandedBlockStart.gifhttp://www.cnblogs.com/Images/OutliningIndicators/ContractedBlock.gif    if(typeof(names)!="undefined")http://www.cnblogs.com/Images/dot.gif{  
2http://www.cnblogs.com/Images/OutliningIndicators/InBlock.gif        if(typeof(functionName)=="undefined") functionName="setObjValueByName";  
3http://www.cnblogs.com/Images/OutliningIndicators/ExpandedSubBlockStart.gifhttp://www.cnblogs.com/Images/OutliningIndicators/ContractedSubBlock.gif        if(typeof(values)!="undefined"&&values!=null)http://www.cnblogs.com/Images/dot.gif{  
4http://www.cnblogs.com/Images/OutliningIndicators/InBlock.gif            var entity=ArrayToObj(names,values);  
5http://www.cnblogs.com/Images/OutliningIndicators/InBlock.gif            setInputValue(elm,entity,functionName);  
6http://www.cnblogs.com/Images/OutliningIndicators/ExpandedSubBlockEnd.gif        }  
7http://www.cnblogs.com/Images/OutliningIndicators/InBlock.gif        else  
8http://www.cnblogs.com/Images/OutliningIndicators/InBlock.gif            setInputValue(elm,names,functionName);  
9http://www.cnblogs.com/Images/OutliningIndicators/ExpandedBlockEnd.gif    }

4，将填充好数据的行添加到表格中去  
 　　tbodyOnlineEdit.appendChild(elm);

**难点、易出问题点说明**

1， 获取Tbody，ie与firefox有区别，ie在默认的情况下是为table加上tbody的，而firefox则没有，所以要进行相应的判断

http://www.cnblogs.com/Images/OutliningIndicators/ContractedBlock.gifhttp://www.cnblogs.com/Images/OutliningIndicators/ExpandedBlockStart.gifCode  
1http://www.cnblogs.com/Images/OutliningIndicators/None.gif//得到table中的tbody控件，注意兼容firefox  
2http://www.cnblogs.com/Images/OutliningIndicators/ExpandedBlockStart.gifhttp://www.cnblogs.com/Images/OutliningIndicators/ContractedBlock.giffunction getTableTbody(tableObj)http://www.cnblogs.com/Images/dot.gif{  
3http://www.cnblogs.com/Images/OutliningIndicators/InBlock.gif    var tbodyOnlineEdit=tableObj.getElementsByTagName("TBODY")[0];  
4http://www.cnblogs.com/Images/OutliningIndicators/ExpandedSubBlockStart.gifhttp://www.cnblogs.com/Images/OutliningIndicators/ContractedSubBlock.gif    if(typeof(tbodyOnlineEdit)=="undefined"||tbodyOnlineEdit==null)http://www.cnblogs.com/Images/dot.gif{  
5http://www.cnblogs.com/Images/OutliningIndicators/InBlock.gif        tbodyOnlineEdit=document.createElement("tbody");  
6http://www.cnblogs.com/Images/OutliningIndicators/InBlock.gif        tableObj.appendChild(tbodyOnlineEdit);  
7http://www.cnblogs.com/Images/OutliningIndicators/ExpandedSubBlockEnd.gif    }  
8http://www.cnblogs.com/Images/OutliningIndicators/InBlock.gif    return tbodyOnlineEdit;  
9http://www.cnblogs.com/Images/OutliningIndicators/ExpandedBlockEnd.gif}

2， 进行填充时，实现了两种情况，一种用根据元素的name,别一种则是根据标记填充

http://www.cnblogs.com/Images/OutliningIndicators/ContractedBlock.gifhttp://www.cnblogs.com/Images/OutliningIndicators/ExpandedBlockStart.gifCode  
1http://www.cnblogs.com/Images/OutliningIndicators/None.gif// 动态添加表格行  
2http://www.cnblogs.com/Images/OutliningIndicators/None.gif// functionname为“setObjValueByName”为根据元素name，  
3http://www.cnblogs.com/Images/OutliningIndicators/None.gif//要求names为元素名称，value为相对应的值  
4http://www.cnblogs.com/Images/OutliningIndicators/None.gif//                                              
5http://www.cnblogs.com/Images/OutliningIndicators/None.gif//functionname为“”为标记填充  
6http://www.cnblogs.com/Images/OutliningIndicators/None.gif//要求names为一个对象，value为null  
7http://www.cnblogs.com/Images/OutliningIndicators/None.giffunction addInstanceRow(tableId,names,values,functionName)

3， 进行标志的填充时，使用正则表达式进行标记的查找，找到标记后到entity中取相应的属性的值，取出属性的值之后，要用&nbsp;替换字符串中的空格，不然显示时会有问题，当属性值为空时用&nbsp;替换标记符号，代码在以下函数中。

http://www.cnblogs.com/Images/OutliningIndicators/ContractedBlock.gifhttp://www.cnblogs.com/Images/OutliningIndicators/ExpandedBlockStart.gifCode  
 1http://www.cnblogs.com/Images/OutliningIndicators/None.gif//根据标志设置添加值  
 2http://www.cnblogs.com/Images/OutliningIndicators/ExpandedBlockStart.gifhttp://www.cnblogs.com/Images/OutliningIndicators/ContractedBlock.giffunction setObjValueByFlag(obj,entity)http://www.cnblogs.com/Images/dot.gif{  
 3http://www.cnblogs.com/Images/OutliningIndicators/InBlock.gif    var objTemp=obj.parentNode;  
 4http://www.cnblogs.com/Images/OutliningIndicators/InBlock.gif    var arrMatches=objTemp.innerHTML.match(/\${\w+}/g);  
 5http://www.cnblogs.com/Images/OutliningIndicators/InBlock.gif    if(typeof(arrMatches)=="undefined"||arrMatches==null||typeof(arrMatches.length)=="undefined"||arrMatches.length==null)  
 6http://www.cnblogs.com/Images/OutliningIndicators/InBlock.gif        return;  
 7http://www.cnblogs.com/Images/OutliningIndicators/InBlock.gif    var tempValue="";  
 8http://www.cnblogs.com/Images/OutliningIndicators/InBlock.gif    var propertyValue="";  
 9http://www.cnblogs.com/Images/OutliningIndicators/ExpandedSubBlockStart.gifhttp://www.cnblogs.com/Images/OutliningIndicators/ContractedSubBlock.gif    for(var i=0;i<arrMatches.length;i++)http://www.cnblogs.com/Images/dot.gif{  
10http://www.cnblogs.com/Images/OutliningIndicators/InBlock.gif        tempValue=arrMatches[i].replace(/\${|}/g,"");  
11http://www.cnblogs.com/Images/OutliningIndicators/InBlock.gif        propertyValue=getEntityPropertyValue(entity,tempValue);  
12http://www.cnblogs.com/Images/OutliningIndicators/ExpandedSubBlockStart.gifhttp://www.cnblogs.com/Images/OutliningIndicators/ContractedSubBlock.gif        if(propertyValue!=null)http://www.cnblogs.com/Images/dot.gif{  
13http://www.cnblogs.com/Images/OutliningIndicators/ExpandedSubBlockStart.gifhttp://www.cnblogs.com/Images/OutliningIndicators/ContractedSubBlock.gif            if(typeof(propertyValue)=="string")http://www.cnblogs.com/Images/dot.gif{  
14http://www.cnblogs.com/Images/OutliningIndicators/InBlock.gif                if(propertyValue!="")  
15http://www.cnblogs.com/Images/OutliningIndicators/InBlock.gif                    propertyValue=propertyValue.replace(/\s/g,"&nbsp;");  
16http://www.cnblogs.com/Images/OutliningIndicators/InBlock.gif                else  
17http://www.cnblogs.com/Images/OutliningIndicators/InBlock.gif                    propertyValue="&nbsp;";  
18http://www.cnblogs.com/Images/OutliningIndicators/ExpandedSubBlockEnd.gif            }      
19http://www.cnblogs.com/Images/OutliningIndicators/InBlock.gif            objTemp.innerHTML=objTemp.innerHTML.replace(arrMatches[i],propertyValue);     
20http://www.cnblogs.com/Images/OutliningIndicators/ExpandedSubBlockEnd.gif        }  
21http://www.cnblogs.com/Images/OutliningIndicators/ExpandedSubBlockStart.gifhttp://www.cnblogs.com/Images/OutliningIndicators/ContractedSubBlock.gif        elsehttp://www.cnblogs.com/Images/dot.gif{  
22http://www.cnblogs.com/Images/OutliningIndicators/InBlock.gif            objTemp.innerHTML=objTemp.innerHTML.replace(arrMatches[i],"&nbsp;");  
23http://www.cnblogs.com/Images/OutliningIndicators/ExpandedSubBlockEnd.gif        }  
24http://www.cnblogs.com/Images/OutliningIndicators/ExpandedSubBlockEnd.gif    }  
25http://www.cnblogs.com/Images/OutliningIndicators/ExpandedBlockEnd.gif}

4， 对于填充标志的做法，刚开始的思路是，直接将模板行中的tr下的内容当成文本进行标志的替换，但是显示时没有内容，于是只能逐个把td中的内容对标志进行替换，发现显示时是正确的，这个地方使我有点困惑。很明显前者的做法效率更高，却莫名其妙地显不出来，只能退而求其次了。

**函数调用说明**

http://www.cnblogs.com/Images/OutliningIndicators/ContractedBlock.gifhttp://www.cnblogs.com/Images/OutliningIndicators/ExpandedBlockStart.gifCode  
 1http://www.cnblogs.com/Images/OutliningIndicators/None.gif//见上面说明，这是添加行最基本的对外函数      
 2http://www.cnblogs.com/Images/OutliningIndicators/None.giffunction addInstanceRow(tableId,names,values,functionName)  
 3http://www.cnblogs.com/Images/OutliningIndicators/None.gif      
 4http://www.cnblogs.com/Images/OutliningIndicators/None.gif//添加实体列表添加表格中，有几个entity则添加几行  
 5http://www.cnblogs.com/Images/OutliningIndicators/None.gif//tableId    要动态添加行的Table的ID值  
 6http://www.cnblogs.com/Images/OutliningIndicators/None.gif//entityList 对象数组 Array类型，  
 7http://www.cnblogs.com/Images/OutliningIndicators/None.giffunction addRowByEntityList(tableId,entityList)  
 8http://www.cnblogs.com/Images/OutliningIndicators/None.gif  
 9http://www.cnblogs.com/Images/OutliningIndicators/None.gif//将一个实体添加到一行  
10http://www.cnblogs.com/Images/OutliningIndicators/None.giffunction addRowByEntity(tableId,entity)  
11http://www.cnblogs.com/Images/OutliningIndicators/None.gif  
12http://www.cnblogs.com/Images/OutliningIndicators/None.gif//删除触发事件控件所在的行  
13http://www.cnblogs.com/Images/OutliningIndicators/None.giffunction deleteThisRow(targetControl)  
14http://www.cnblogs.com/Images/OutliningIndicators/None.gif  
15http://www.cnblogs.com/Images/OutliningIndicators/None.gif//删除表格下的所有行  
16http://www.cnblogs.com/Images/OutliningIndicators/None.giffunction deleteAllRow(tableId)  
17http://www.cnblogs.com/Images/OutliningIndicators/None.gif

在IE6,7，firefox2,3测试没问题，有问题留言或邮件[badwps@163.com](mailto:badwps@163.com)，谢谢

**附件下载**

[/Files/badwps/动态添加表格.rar](http://files.cnblogs.com/badwps/动态添加表格.rar)

分类: [JavaScript](http://www.cnblogs.com/badwps/category/215112.html)

绿色通道： [**好文要顶**](javascript:void(0);) [**关注我**](javascript:void(0);) [**收藏该文**](javascript:void(0);)[**与我联系**](http://space.cnblogs.com/msg/send/%e5%b0%8f%e5%b1%b1982) **[http://static.cnblogs.com/images/icon_weibo_24.png](javascript:void(0);)**

[http://pic.cnitblog.com/face/u77240.jpg](http://home.cnblogs.com/u/badwps/)

[小山982](http://home.cnblogs.com/u/badwps/)  
[关注 - 0](http://home.cnblogs.com/u/badwps/followees)  
[粉丝 - 9](http://home.cnblogs.com/u/badwps/followers)

[+加关注](javascript:void(0);)

2

0

(请您对文章做出评价)

[«](http://www.cnblogs.com/badwps/archive/2009/10/16/1584825.html) 上一篇：[也谈谈权限管理：理想状态下的权限管理模型](http://www.cnblogs.com/badwps/archive/2009/10/16/1584825.html)  
[»](http://www.cnblogs.com/badwps/archive/2009/11/13/1602182.html) 下一篇：[[原创]Flex文本框自动提示(AutoSuggest)、自动完成(AutoComplete)](http://www.cnblogs.com/badwps/archive/2009/11/13/1602182.html)