

Ext.ux.form.TinyMCETextArea

ExtJS form field - a text area with integrated TinyMCE WYSIWYG Editor

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Version: 4.0

Release date: 15.12.2013

ExtJS Version: 4.2.1

TinyMCE Version: 4.0.11

License: LGPL v2.1 or later, Sencha License

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Implementation details

This component is a standard text area field, which is extended with the TinyMCE editor.

The TinyMCE editor is applied to the internal text area element of the Ext.form.field.TextArea.

Following tasks had to be solved:

- Time for starting of the editor initialization.
- Initialization in an initially invisible tab.
- Correct resizing of the editor by resizing of the underlying text in any layout.
- Enabling and disabling of the editor. Keeping of the cursor position by switching to the HTML text modus.
- Focusing of the editor field.
- Marking invalid.
- Activation and deactivation of the editor.

Initialization and Sizing

To correctly initialize the editor, we need the information of the actual size of the underlying text area. The size is not known at the time of the afterRender event. I add the 'resize' event handler only after rendering and start the initialization, when the first 'resize' event is fired. The initialization is done only once, in subsequent firing of the 'resize' event, only the adjustment of the editor size is done.

I retrieve the height of the tool bar and that of the status bar, then, I calculate the correct height for the contents iframe and set it.

Dynamic loading of the tinymce.js

If you do not include the tinymce.js code statically, but it is loaded dynamically only if it is required, you have to do some additional actions. You have to place somewhere in your code this initialization statement

```
window.tinyMCEPreInit = {  
    suffix : '',  
    base : '/js/tinymce' // your path to TinyMCE  
};
```

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This is necessary, because the TinyMCE is initialized upon "document ready" event, and in the case of dynamic loading, this event already occurred before and is not fired upon loading of the TinyMCE script. The author of the TinyMCE have provided this option – tinyMCEPreInit – for such cases.

Setting and Getting Value

You can set and get value by using usual methods `getValue()` and `setValue()`.

The editor does pre-formatting of the entered HTML text. It is important, for instance, to let the editor convert absolute or relative urls, make the entered HTML valid etc.

If you enter the HTML text manually in the HTML modus, the WYSIWYG editor does the pre-formatting also.

Enabling and Disabling

The TinyMCE does not support disabling and enabling. I solved it through usage of setting `ReadOnly`.

Marking invalid

When the editor is active, the standard marking does not work. I had to add an invalid mark manually.

For marking invalid, I add the class "tinymce-error-field" to the most outer container.

Following rule should be written somewhere in a CSS file or style:

```
.tinymce-error-field
{
    border: 1px dashed red !important;
}
```

It should be defined with a stronger rule than just

```
.tinymce-error-field {}
```

otherwise, other rules may override this.

Changing CSS files for the contents on the fly

This is a very useful feature. The editor allows specifying of the CSS file, which will be applied for the contents. Let's assume a CMS. If the user changes the design template for the page that is opened for editing in the WYSIWYG editor, the CSS file should be also changed and applied to the editable contents.

I implemented the method `reinitEditor` that does it. It is performed through removing the editor and initialization it again with the adjusted options.

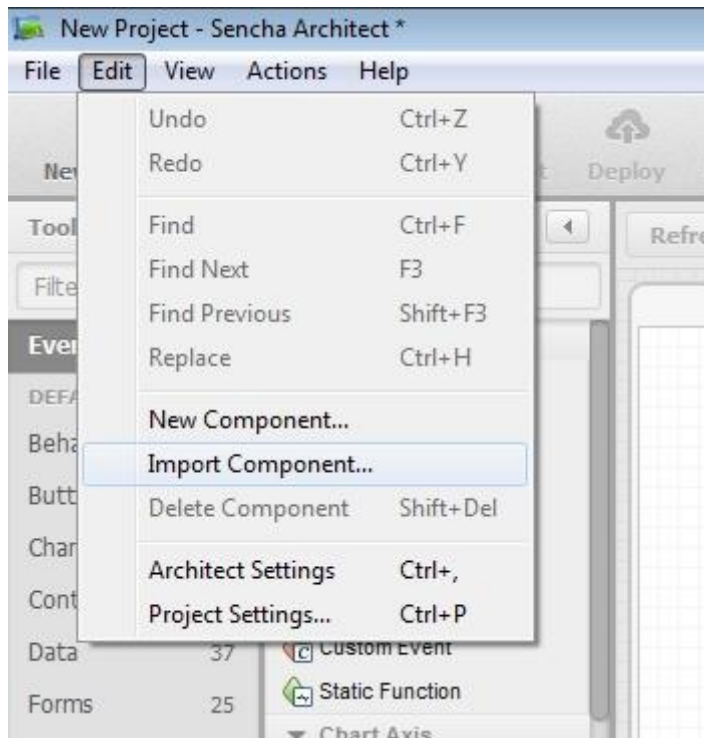
Integration into the Sencha Architect

The file `TinyMCETextArea.xdc`, kindly offered by Gregory, is included in the package of the `TinyMCETextArea`.

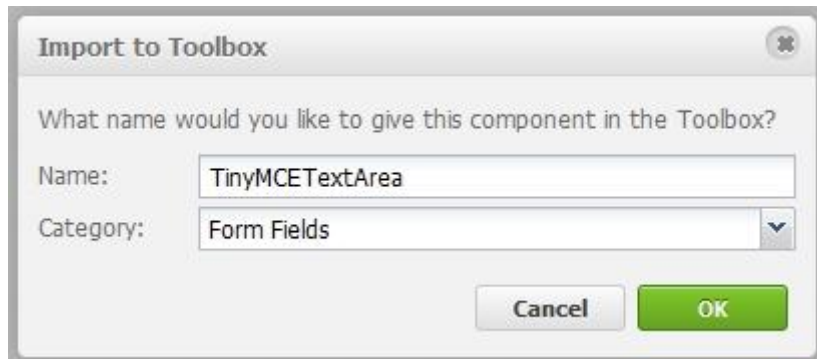
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Open the Sencha Architect and in the menu "Edit" select "Import Component". Select the file "TinyMCETextArea.xdc":



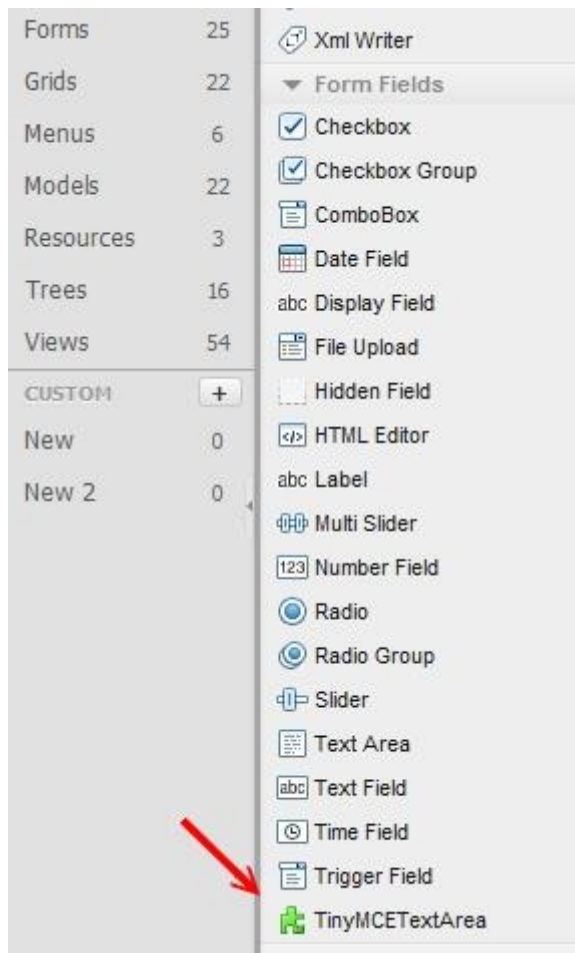
Choose the category of the component and provide the name for the component:



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The component should have been added:



Attention!

For some reason, the component is visible in the "Form Fields" branch only over the general view. If you click "Forms", the component is not listed there.

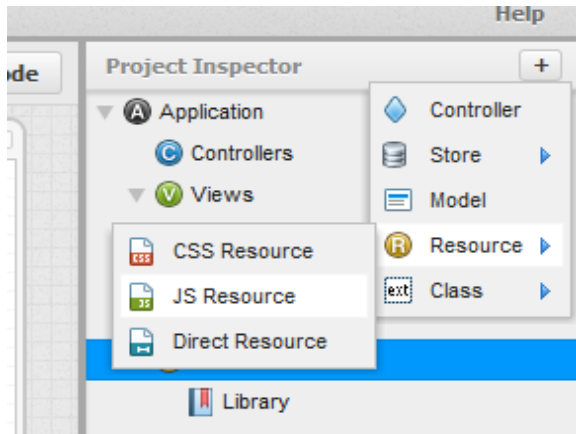
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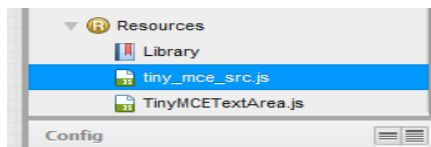
Now, we create the project and copy the following files and directories to the project directory:

- tinymce
- TinyMCETextArea.js

Next, add the following JS files to the project resources:



1. tinymce\tiny_mce_src.js
2. TinyMCETextArea.js



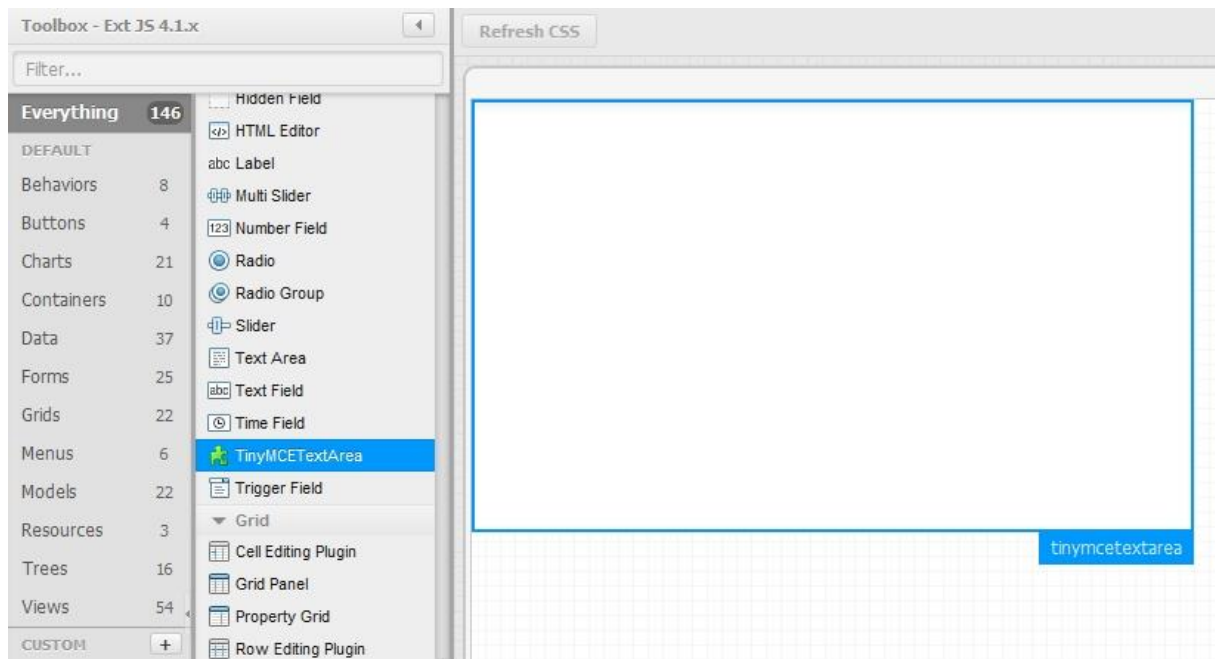
Attention!

The order of the file including is important!

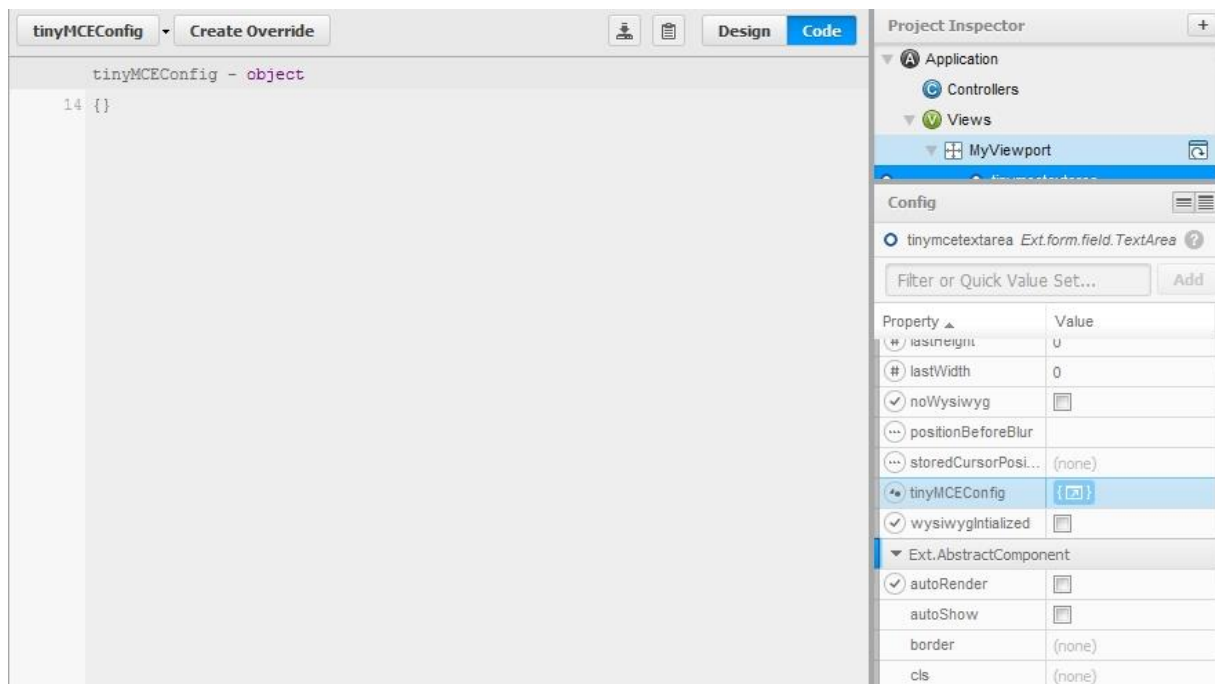
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Put the component to the desired place:



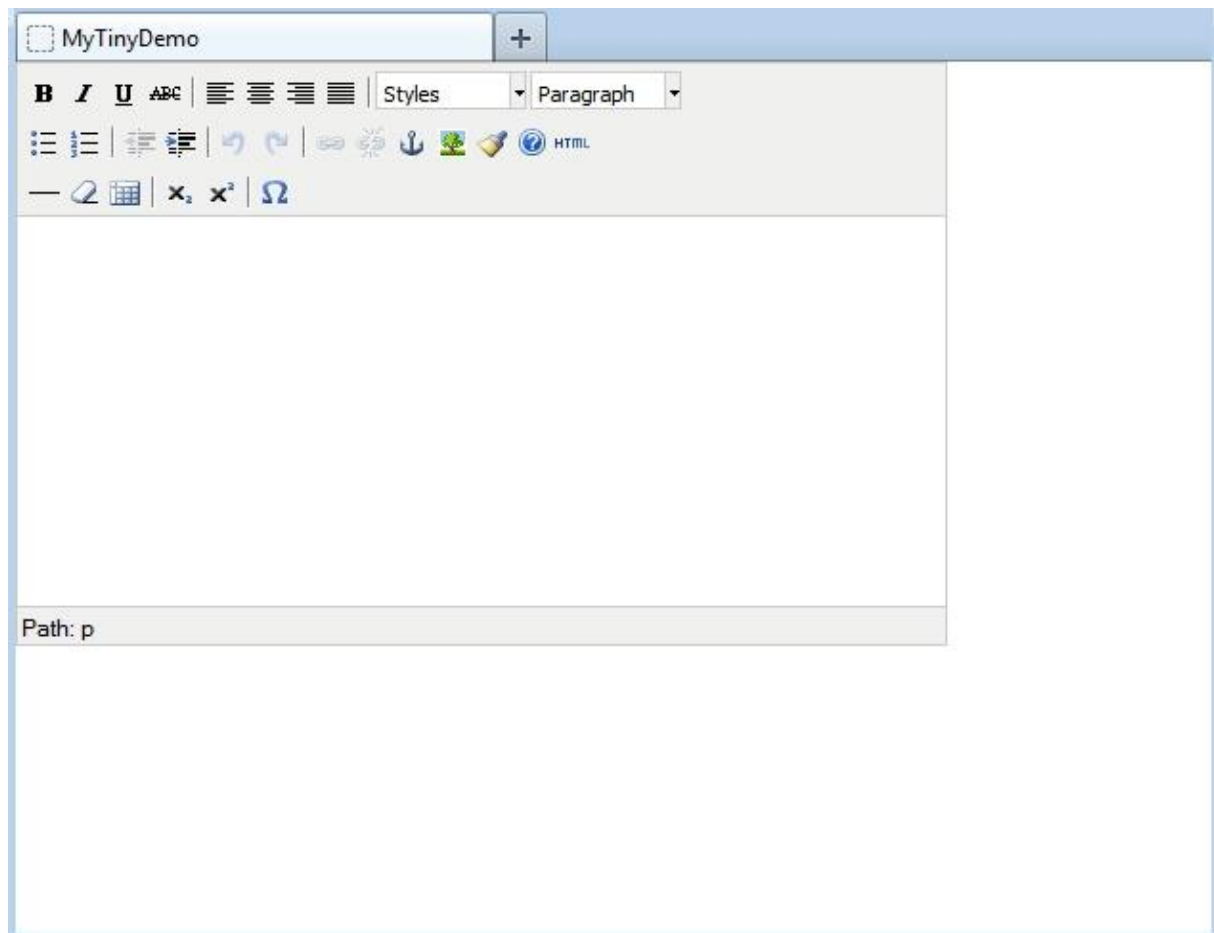
Set the tinyMCEConfig property for the component.



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Now, we can compile the project and see the result:



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Reference

Generally, the component derives all properties and methods from the TextArea. Here, only the new and overridden properties and methods are described.

Properties

noWysiwyg

This property forces that the editor is not initially active.

disabled

This property let make the control initially disabled.

readOnly

This property let make the control initially readOnly.

tinyMCEConfig

This property contains the TinyMCE settings which are passed to the editor by the initialization.

Methods

enable([Boolean silent])

Enable the component

Parameters:

silent : Boolean (optional)

Passing true will suppress the 'enable' event from being fired.

Defaults to: false

disable([Boolean silent])

Disable the component

Parameters:

silent : Boolean (optional)

Passing true will suppress the 'disable' event from being fired.

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Defaults to: false

setReadOnly([Boolean readOnly])

Set the control ReadOnly or not ReadOnly.

Parameters:

readOnly : Boolean

The desired state of the control.

showEditor()

Activate the editor, WYSIWYG modus.

hideEditor()

Deactivate the editor, HTML text modus.

toggleEditor()

Toggle the modus WYSIWYG versus HTML text.

isEditorHidden()

Return whether the WYSIWYG editor is hidden or not.

removeEditor()

Completely remove the WYSIWYG editor. The control becomes a normal text area.

focus([Boolean selectText], [Boolean/Number delay]) : Ext.Component

Try to focus this component.

Parameters:

selectText : Boolean (optional)

If applicable, true to also select the text in this component

delay : Boolean/Number (optional)

Delay the focus this number of milliseconds (true for 10 milliseconds).

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Returns:

Ext.Component (this)

storeCurrentSelection()

Store the current cursor position or the current selection for later restoring. This method should be called before calling any dialog for inserting of a placeholder or other text into the current cursor position or instead of the current selection.

restoreCurrentSelection()

Restore the cursor position or the current selection for later text insertion. This method should be called immediately before inserting of a placeholder or other text into the current cursor position or instead of the current selection.

insertText(txt)

Insert the text "txt" at the current cursor position or instead of the current selection.

getValue() : Object

Returns:

The actual HTML text

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setValue(Object value) : Ext.ux.form.TinyMCETextArea

Sets a data value into the field and runs the change detection and validation. The value is pre-formatted with the WYSIWYG editor.

Parameters:

value : Object

The value to set

Returns:

Ext.ux.form.TinyMCETextArea (this)

reinitEditor([cfg]) : Ext.ux.form.TinyMCETextArea

Reinitialize the editor with the adjusted settings.

Parameters:

cfg : Object (optional)

The configuration options which differ from the initial option. All options do not need be repeated.

Returns:

Ext.ux.form.TinyMCETextArea (this)