

Creating Custom Plugin

RELEASE 2.4.0 OR ABOVE

- [API](#)
 - [SynapEditor.addPlugin\(pluginName, pluginGenerator\)](#)
- [Forms of Plugin Object](#)
- [Exercise](#)
 - [Plugin to insert 'Hello World~'](#)
 - [PluginGenerator Definition](#)
 - [Loading Created Plugin](#)
 - [Adding Plugin Button to Toolbar in the Editor](#)
 - [Result](#)

API

SynapEditor.addPlugin(pluginName, pluginGenerator)

Add plugin to SynapEditor.

Params:

Name	Type	Description
pluginName	string	Name of plugin.
pluginGenerator	function	Function to generate plugin object.

Example:

```
var pluginName = "pluginName";
var pluginGenerator = function (editor) {
    //Returns plugin object.
    return {
        //...
    };
};
SynapEditor.addPlugin(pluginName, pluginGenerator);
```

Forms of Plugin Object

Preference	Type	Description	Preference Definition
------------	------	-------------	-----------------------

buttonDef	Array Object	buttonDef to add button to toolbar or menu.	Array Form <pre> buttonDef: [{ name: 'Name of the button', //This is a requirement when there are 2 or more buttons. If you want to add them to UI, use names of each button. label: 'Text to be displayed on the button.', iconSVG: 'SVG tag to be used as the icon of the button', onClickFunc: function () { //Function to be executed when the button is clicked. } }, ...] </pre> Object Form <pre> buttonDef: { name: 'Name of the button', //It is not a requirement when there is only one button. Use the name of the plugin if you want to add it to UI. label: 'Text to be displayed on the button.', iconSVG: 'SVG tag to be used as the icon of the button', onClickFunc: function () { //Function to be executed when the button is clicked. } } </pre>
shortcutDef	Array Object	shortcutDef to add a shortcut. • Key available for creating a shortcut. • Backspace • Tab • Enter • Esc • Space • PageUp • PageDown • End • Home • Left • Up • Right • Down • Insert • Delete • Cmd (for mac) • 0~9 • A~Z • F1~F12 • ; • + • , • - • . • / • ` • [• \ •] • ' • How to create a shortcut • You may connect multiple keys with +. • Ex) • 'Ctrl+A' • 'Cmd+ Backspace'	Array Form <pre> shortcutDef: [{ key: { windows: 'Shortcut for Windows', mac: 'Shortcut for mac' }, option: { action: 'Name of Editor action', params: ['Editor action parameter 1', ...], focusIme: true or false //Focus onto the Editor after executing the shortcut } }, ...] </pre> Object Form <pre> shortcutDef: { key: { windows: 'Shortcut for Windows', mac: 'Shortcut for mac' }, option: { action: 'Name of Editor action', params: ['Editor action parameter 1', ...], focusIme: true or false //Focus onto the Editor after executing the shortcut } } </pre>

Exercise

Plugin to insert 'Hello World~'

PluginGenerator Definition

./plugins/helloWorldInserter.js

```
var pluginName = "helloWorldInserter";
var pluginGenerator = function(editor) {
  return {
    buttonDef: {
      label: 'Hello World Inserter',
      iconSVG: `
```

Loading Created Plugin

index.html

```
<!-- synapeditor plugin -->
<script type="text/javascript" src="./plugins/helloWorldInserter.js"></script>
```

Adding Plugin Button to Toolbar in the Editor

./synapeditor.config.js

```
"editor.toolbar": ["bold", "italic", "underline", "strike", "helloWorldInserter"] //Add helloWorldInserter
plugin to the toolbar.
```

Result

B *I* U ~~S~~ HW

| I