

Tutorial: Documenting the *HelloWorld* component

This tutorial shows the how to add tagged comments to *HeLLoWoRLd* source code for generating both registry and jsdoc. Refers to [Biojs specification](#) for a detailed description of the tags used by Biojs.

You must have:

- Source code of *HeLLoWoRLd*
- Maven

Steps:

1. Header

- a. Description, parent and author (optional).

```
* This is the description of the HelloWorld component. Here you can set any HTML
* to put it on the generated documentation.
*
* @class
* @extends Biojs
*
* @author <a href="mailto:johncar@gmail.com">John Gomez</a>
```

- b. Dependencies

```
* @requires <a href='http://code.jquery.com/jquery-1.6.4.js'>jQuery Core 1.6.4</a>
* @dependency <script language="JavaScript" type="text/javascript" src="../biojs/
dependencies/jquery/jquery-1.4.2.min.js"></script>
```

- c. Options

There are two (2) types of these fields, mandatory and optional. The syntax for a mandatory field is `* @option {<type>} <name> <description>` while the optional fields should include a default value such as: `* @option {<type>} [<name>=<defaultValue>] <description>`. The following example shows a mandatory field called *target* but also fields which are optional ones.

```
* @param {Object} options An object with the options for HelloWorld component.
*
* @option {string} target
*     Identifier of the DIV tag where the component should be displayed.
```

```

*
* @option {string} [fontFamily=“‘Andale mono”, courier, monospace’]
*   Font list to be applied to the component content.
*
* @option {string} [fontColor="white"]
*   HTML color code for the font.
*
* @option {string} [backgroundColor="#7BBFE9"]
*   Background color for the entire div content.
*
* @option {Object} [selectionFontColor="white"]
*   This color will be used to change the font color of selected text.
*
* @option {Object} [ selectionBackgroundColor="yellow"]
*   This color will be used to change the background of selected text.

```

d. Example of instantiation

```

* @example
* var instance = new Biojs.HelloWorld({
*   target : "YourOwnDivId",
*   selectionBackgroundColor : '#FFFF00'
* });

```

3. Add the tag *@Lens* indicating to Biojs the starting of *HeLLoWoRld* members.

```

Biojs.HelloWorld = Biojs.extend (
/** @lends Biojs.HelloWorld# */
{
  constructor: function (options) {
...

```

4. Tag the *opt* object.

```

/**
* Default values for the options
* @name Biojs.HelloWorld-opt
*/
opt : {
...

```

5. Events

- a. Tag the array *eventTypes*

```
/**
 * Array containing the supported event names
 * @name Biojs.HelloWorld-eventTypes
 */
eventTypes : [
...

```

- b. Tag the **event** *onHelloSelection*

```
/**
 * @name Biojs.HelloWorld#onHelloSelected
 * @event
 * @param {function} actionPerformed A function which receives an {@link
Biojs.Event}
 * object as argument.
 * @eventData {Object} source The component which did triggered the event.
 * @eventData {string} type The name of the event.
 * @eventData {int} textSelected Selected text, will be 'Hello' obviously.
 * @example
 * instance.onHelloSelected(
 *   function( objEvent ) {
 *     alert("The word " + objEvent.textSelected + " was selected.");
 *   }
 * );
 */
"onHelloSelected"
...

```

6. Tag the *setSize* **method**.

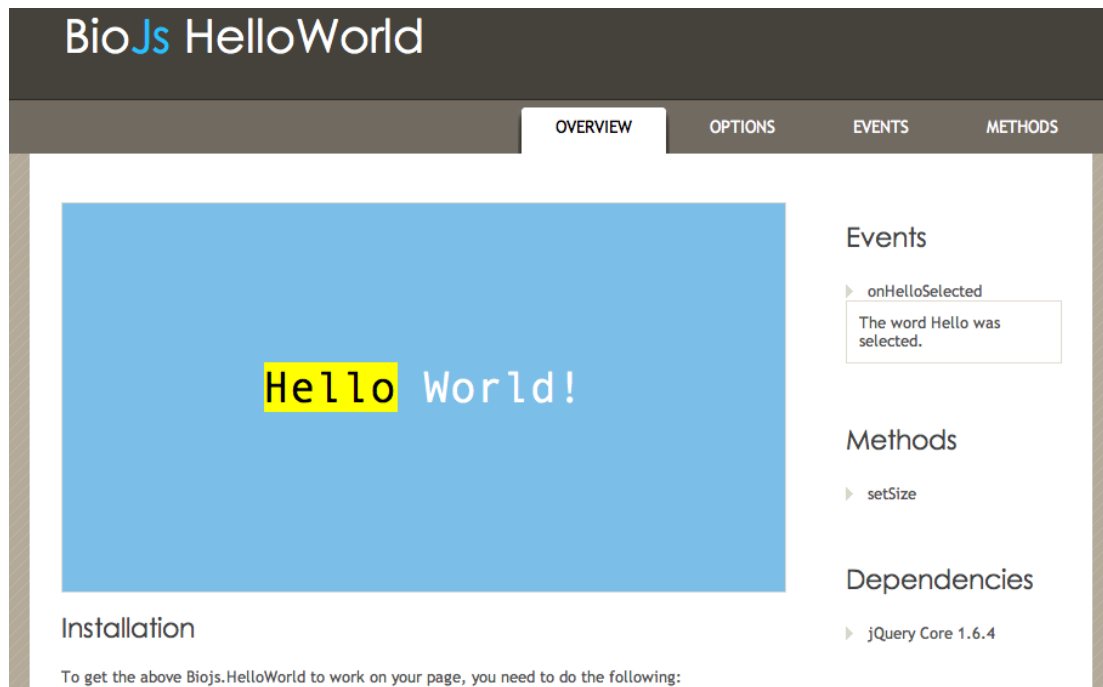
```
/**
 * Change the font size. Do nothing if no value is provided.
 *
 * @param {string} [size] The new font size in pixels.
 *
 * @example
 * instance.setSize("24px");
 */
setSize: function(size) {
...

```

7. Execute the following maven command to **generate** the documentation.

```
mvn jsdoctk:jsdoc
```

7. See the documented source code [here](#).
 8. Go to the target *dir*, could see both registry and *jsdoc* as shown in the following figures.
- Registry:



- jsdoc:

Class Index File Index
Classes
_global
Biojs
Biojs.ChEBICompound
Biojs.ChEMBLCompound
Biojs.Event
Biojs.EventHandler
Biojs.HelloWorld
Biojs.Protein3D
Biojs.Protein3DUniprot
Biojs.Protein3DWS
Biojs.Sequence
Biojs.UniProtFeature
Biojs.Utils

Class Biojs.HelloWorld

Extends [Biojs](#).

Defined in: [Biojs.HelloWorld.js](#).

Class Summary	
	Biojs.HelloWorld (options)
	This is the description of the HelloWorld component.

Field Summary	
<inner>	eventTypes Array containing the supported event names
<inner>	opt Default values for the options

Method Summary	
	constructor (options)
	setSize (size) Change the font size.

Methods borrowed from class [Biojs](#):
[addListener](#), [extend](#), [getId](#), [listen](#), [raiseEvent](#), [setEventHandlers](#), [setOptions](#)

Event Summary	
	onHelloSelected (actionPerformed)

Class Detail	
Biojs.HelloWorld (options)	
This is the description of the HelloWorld component. Here you can set any HTML text for putting on the generated documentation.	
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