

# HTML5YUIWidget

HTML5 Multichannel YUI Widget - 1.6

version :1.0.0

## COREMODULE

### **gson**

Gson is a Java library that can be used to convert Java Objects into their JSON representation. It can also be used to convert a JSON string to an equivalent Java object. Gson can work with arbitrary Java objects including pre-existing objects that you do not have source-code of. Gson support java generics and doesn't require any special annotations.

# JsLibraries

## YUI3

YUI is a free, open source JavaScript and CSS framework for building richly interactive web applications.

**Fast** - YUI's lightweight core and modular architecture make it scalable, fast, and robust. Built by frontend engineers at Yahoo!, YUI powers the most popular websites in the world.

**Complete** - YUI's intuitive and well-documented API takes you from basic DOM handling to building performant and maintainable applications on desktop browsers, mobile devices, and servers.

**Industrial Strength** - A thriving community, a carefully architected infrastructure, and a comprehensive suite of tools help you code like a pro, from simple web pages to complex web applications.

The YUI Library is fully documented on its website; detailed API documentation accompanies the library download. It has six types of components: YUI core, utilities, UI controls, CSS components, developer tools, and build tools.

## jQuery

jQuery is a cross-browser JavaScript library designed to simplify the client-side scripting of HTML.

jQuery is free, open source software, dual-licensed under the MIT License[Massachusetts Institute of Technology] or the GNU General Public License, jQuery's syntax is designed to make it easier to navigate a document, select DOM elements, create animations, handle events, CSS manipulation and develop Ajax applications. jQuery also provides capabilities for developers to create plug-ins on top of the JavaScript library. This enables developers to create abstractions for low-level interaction and animation, advanced effects and high-level, theme-able widgets. The modular approach to the jQuery library allows the creation of powerful and dynamic web pages and web applications.

jQuery contains the following features:

- 1)DOM element selections using the cross-browser open source selector engine Sizzle, a spin-off out of the jQuery project.
- 2)DOM traversal and modification (including support for CSS 1-3)
- 3)Events
- 4)CSS manipulation
- 5)Effects and animations
- 6)Ajax
- 7)Extensibility through plug-ins
- 8)Utilities - such as user agent information, feature detection
- 9)Compatibility methods that are natively available in modern browsers but need fallbacks for older ones - For example the `inArray()` and `each()` functions.
- 10)Cross-browser support

## jQuery\_UI

jQuery UI provides abstractions for low-level interaction and animation, advanced effects and high-level, themeable widgets, built on top of the jQuery JavaScript Library, that you can use to build highly interactive web applications. jQuery UI is free, open source software, dual-licensed under the MIT License[Massachusetts Institute of Technology] and the GNU General Public License.

### Interactions

- 1) Draggable - Make elements draggable
- 2) Droppable - Control where dragged elements may be dropped
- 3) Resizable - Make elements resizable [5]:
- 4) Selectable - Advanced selection features for lists of elements
- 5) Sortable - Make a list of elements easily sortable

### Widgets

All of jQuery UI's widgets are fully themeable using a consolidated, coordinated theme mechanism demonstrated by their ThemeRoller.

- 1) Accordion - Accordion containers
- 2) Autocomplete - Auto-complete boxes based on what the user types
- 3) Button - Enhanced button appearance, turn radio buttons and checkboxes into pushbuttons
- 4) Datepicker - Advanced date-picker
- 5) Dialog - Show dialog boxes on top of other content, easily and robustly
- 6) Progressbar - Progress bars, both animated and not
- 7) Slider - Fully customizable sliders with various features [6]:
- 8) Tabs - Tabbed user interface handling, with both inline and demand-loaded content

### Effects

- 1) Color Animation - Animate the transition from one color to another
- 2) Toggle Class, Add Class, Remove Class, Switch Class - Animate the transition from one set of styles to another
- 3) Effect - A variety of effects (appear, slide-down, explode, fade-in, etc.)
- 4) Toggle - Toggle an effect on and off
- 5) Hide, Show - Using the effects above

### Utilities

Position - Set an element's position relative to another element's position (alignment)

## jsonpath

JSONPath provides XPath way of accessing data from JSON. JSONPath expressions always refer to a JSON structure in the same way as XPath expression are used in combination with an XML document. Since a JSON structure is usually anonymous and doesn't necessarily have a "root member object" JSONPath assumes the abstract name \$ assigned to the outer level object.

JSONPath expressions can use the dot–notation.

### **xml2json**

This simple script converts XML (document of code) into a JSON object. It is the combination of 2

'xml to json' great parsers (see below) which allows for both 'simple' and 'extended' parsing modes.