



Photoshop-like jQuery Color Picker plugin with various skins and layouts, touch, and responsive.

Description

Wcolpick stands for Web Color Picker.

This is a Javascript jQuery based color picker plugin.

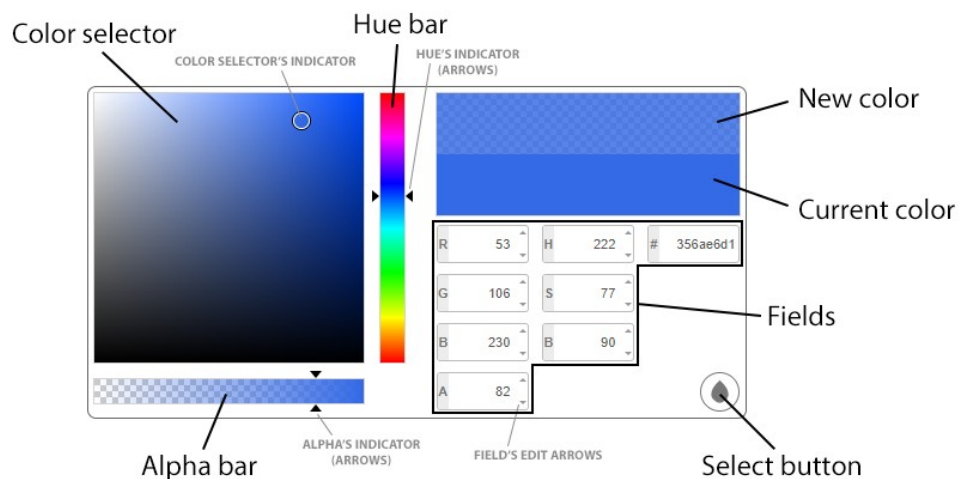
Is developed to be used on all websites that need an easy and intuitive color picker, and is totally open source.

You can use this color picker as an input color window, to allow the user to select a color (then you can use the chosen color as you want), or you can simply display it on a web page without do nothing with it.

This is an evolved version of the same, fantastic, plugin developed by Jose Vargas: colpick Color Picker. It keeps its internal collaudated logic, and all its strengths, like the backwards compatibility with older browsers, and adds the alpha channel, various new features, resolves several bugs, and restyles the plugin with a new design inspired to Google Material Design.

Features

- The interface is designed like the Photoshop's color picker.
- Supports RGB, HSB, hexadecimal, and HSL.
- Supports alpha channel (opacity value between 0 and 1).
- 3 Layouts: standard, small, and xl.
- 4 Skins: light and dark, with or without a background).
- Customizable layout: you can choose the components to use.
- Responsive: it adapts to the screen size.
- Open Source: you are free to change the code and reupload your own version.
- Lightweight: Only two little js and css files



Using the plugin

To deploy into your website you must upload the two files `wcolpick.js` and `wcolpick.css`.

Then include the following code in the head to enable the plugin in a web page, replacing the `"..."` with the paths of the files.

```
<link rel="stylesheet" type="text/css" href="../../../wcolpick.css" />
<script type="text/javascript" src="../../../wcolpick.js"></script>
```

To display the plugin, call the `loads()` function on the DOM element that will contain the plugin.

```
<script type="text/javascript">
    jQuery(function() {
        $('#mycolorpicker').loads();
    });
</script>
```

Then, insert the element container of the plugin wherever you want to display it.

```
<div id="mycolorpicker"></div>
```

Inserting the attributes to change into an options object, and sending it to `loads()`, will customize the plugin.

In this example the plugin is loaded with `rgbhex` layout and without the select button:

```
<script type="text/javascript">
    jQuery(function() {
        $('#mycolorpicker').loads({
            layout: 'rgbhex',
            enableSubmit: true
        });
    });
</script>
```

Use events to trigger actions.

Events are included in the same object parameter of the `loads()` Function.

Events require that a function to handle them is implemented and assigned.

Events are called when the plugin is loaded, before show, on show, on hide, on destroy, when the color is changed, when a color is selected.

Every event receive a parameter with some data, the parameter contains the element `"this"`, that is the plugin itself.

```
<script type="text/javascript">
    jQuery(function() {
        $('#mycolorpicker').loads({
            onChange: function(ev) {
                //Do something...
            },
        });
    });
</script>
```

You can call some functions to execute specified actions.

In this example, the plugin is hidden after the select button is clicked:

```
<script type="text/javascript">
  jQuery(function() {
    $('#mycolorpicker').loads({
      onSubmit: function(ev) {
        // "hides" will perform the hiding process.
        $(ev.el).hides();
      },
    });
  });
</script>
```

Other than these, other useful functions are included into the plugin to execute conversions between color spaces, or to perform color encoding / decoding into css.

```
<script type="text/javascript">
  jQuery(function() {
    $('#mycolorpicker').loads({
      onSubmit: function(ev) {
        // ev.rgba contains the rgba of the selected color,
        // for example {r:12, g:175, b:26, a:67}.
        // "encodeToCSS" will convert it into the string "rgba(12,175,26,0.67)".
        var strRgba = $.wcolpick.encodeToCSS(ev.rgba);
      },
    });
  });
</script>
```

Attributes

The following attributes are available to customize the plugin:

Attribute	Type	Description	Values
alphaOutline	boolean	Specifies to display the outline around the alpha bar.	true, false
appendToBody	boolean	Specifies to normally append the color picker into the specified element, or to append it on the body's page.	true, false
arrowsColor	string	Specifies the theme to use for the color of the hue bar and alpha bar indicators.	"light", "dark", "default"
backgroundColor	object	Specifies the color of the the color picker background.	An hexadecimal string or a color in HSB, HSBA, RGB, RGBA format.
border	int	Specifies the size (in pixels) of the border around the color picker.	Any integer value.
borderColor	string	Specifies the color of the the color picker external border.	An hexadecimal string or a color in HSB, HSBA, RGB, RGBA format.
checkersColor	string	Specifies the theme to use for the checkerboard pattern of the alpha bar, and new and current, color fields.	"light", "dark", "default"
color	object	The default color of the color picker.	An hexadecimal string or a color in HSB, HSBA, RGB, RGBA format.
colorOutline	boolean	Specifies to display the outline around the new and current, color fields.	true, false
colorScheme	string	Specifies the color scheme that will be applied to the plugin.	"light", "light-full", "dark", "dark-full"
colorSelOutline	boolean	Specifies to display the outline around the color selector.	true, false
compactLayout	boolean	Enables or disables the compact layout.	true, false
enableAlpha	boolean	Enables or disables the alpha channel.	true, false
enableSubmit	boolean	Enables or disables the select button.	true, false
enableUpDown	boolean	Enables or disables changing the values with the up/down keys.	true, false
fieldsBackground	object	Specifies the background color to use for the fields.	An hexadecimal string or a color in HSB, HSBA, RGB, RGBA format.
flat	boolean	Specifies if directly display, the plugin, on the web page, or hide it and display it only at particular events.	true, false
hueOutline	boolean	Specifies to display the outline around the hue bar.	true, false

Attribute	Type	Description	Values
layout	string	Specifies the layout to use: "full" (shows all fields), "rgbhex" (shows only R, G, B, A, Hexadecimal), "hex" (shows only Hexadecimal).	"full", "rgbhex", "hex"
livePreview	boolean	Specifies if the color's parameters, and the color itself, must be immediately updated at every change.	true, false
polyfill	boolean	Specifies if to use Wcolpick as default color picker for color inputs (false), or use the browser's color picker (true).	true, false
position	string	Specifies where to place of the color picker.	"center", "auto"
readonlyFields	boolean	Sets all fields as read only.	true, false
readonlyHexField	boolean	Sets all the hexadecimal field as read only.	true, false
showEvent	string	Specifies the event that will display the plugin: click, hover...	Any event name
submitBackground	object	Specifies the background color to use for the select button.	An hexadecimal string or a color in HSB, HSBA, RGB, RGBA format.
submitColor	string	Specifies the theme to use for the select button.	"light", "dark", "default"
variant	string	Specifies the plugin variant to display: "Standard" (max 549 x 276 pixels), "Small" (max 394 x 202 pixels), "Extra Large" (max 725 x 363 pixels).	"standard", "small", "extra-large"

Events

The following events are available to be handled:

Each event receives a parameter with some attributes.

Event	Description	Attributes
onLoaded	Fired immediately after that the loading process of the color picker is completed.	colorDiv, el
onBeforeShow	Before that the color picker will be displayed.	colorDiv, el, overridePos
onShow	Immediately before that the color picker will be displayed.	colorDiv, el
onHide	Immediately before that the color picker is hided.	colorDiv, el
onDestroy	Immediately before that the color picker will be destroyed.	colorDiv, el
onChange	When new color is changed, by selection, or by the function "setColor".	bySetColor, colorDiv, el, hex, hexa, hsb, hsba, hsl, hsla, rgb, rgba
onSubmit	When current color is changed, by clicking on select button.	colorDiv, el, hex, hexa, hsb, hsba, hsl, hsla, rgb, rgba

Event attributes

Attribute	Type	Description
bySetColor	boolean	If true, means that the color was changed by the function "setColor".
colorDiv	DOM_object	The color picker.
el	DOM_object	The parent element that contains the color picker, this attribute is used to call some functions of the color picker.
hex	string	6-chars string, representing the color in hexadecimal.
hexa	string	8-chars string, representing the color in hexadecimal.
hsb	object	Color object {h: float, s: float, b: float}.
hsba	object	Color object {h: float, s: float, b: float, a: float}.
hsl	object	Color object {h: float, s: float, l: float}.
hsla	object	Color object {h: float, s: float, l: float, a: float}.
overridePos	object	A special object, used only by "onBeforeShow", that allows to set manually the position of the color picker by simply set top and left attributes of this object.
rgb	object	Color object {r: int, g: int, b: int}.
rgba	object	Color object {r: int, g: int, b: int, a: float}.

Functions

These functions must be called directly on the main DOM object (the “el” attribute in events).

Function	Description	Parameters
loads(opt)	This is the function that executes the initializing of the color picker.	<u>opt</u> : customization object.
destroys()	Destroys the color picker.	-
hides()	Hides the color picker.	-
shows()	Shows the color picker.	-
setColor(col, setCurrent)	Allows to set a color on the color picker.	<u>col</u> : color object / hex string. <u>setCurrent</u> : boolean indicating if to override the current color.
getColor(type, getCurrent)	Allows to get the colors currently setted on the color picker.	<u>type</u> : color type to get. <u>getCurrent</u> : boolean indicating if to get the current color.

Utility functions

These functions must be called in the \$wcolpick object, for example \$wcolpick.hexToRgba(“00ff00”);

Function	Description
hexToRgba(hex)	Converts an hexadecimal (with or without #) into an rgba.
hexToHsba(hex)	Converts an hexadecimal (with or without #) into an hsba.
hexToHsla(hex)	Converts an hexadecimal (with or without #) into an hsla.
rgbaToHex(rgba)	Converts an rgba into an hexadecimal (without #).
rgbaToHsba(rgba)	Converts an rgba into an hsba.
rgbaToHsla(rgba)	Converts an rgba into an hsla.
hsbaToHex(hsba)	Converts an hsba into an hexadecimal (without #).
hsbaToRgba(hsba)	Converts an hsba into an rgba.
hsbaToHsla(hsba)	Converts an hsba into an hsla.
hslaToHex(hsla)	Converts an hsla into an hexadecimal (without #).
hslaToRgba(hsla)	Converts an hsla into an rgba.
hslaToHsba(hsla)	Converts an hsla into an hsba.
isValidHex(hex)	Checks if an hexadecimal (with or without #) is valid.
encodeToCSS(colobj)	Converts a color object into a css string.
decodeFromCSS(colstr)	Converts a css string into a color object.