



How can I compare two color values in jQuery/JavaScript?

I get color value with jQuery with `.css('color')`, and then I know color that it should be.

How can I compare color value that I get from jQuery with for example black color value?

Asked By: [newbie](#) || [Source](#)

Answer #1:

What about...

```
if ($('#element').css('color') == 'rgb(0, 0, 0)')  
{  
    // do something  
}
```

Replace 0, 0, 0 with the red, green and blue values of the colour value you want to compare.

[.css\(\)](#) [jQuery API](#)

Answered By: [Andy Shellam](#)

Answer #2:

Here is an approach that should work on all browsers using JQuery:



- does not work for named colors)
2. Set the color of the dummy element to the expected color, i.e.
 `$('#dummy').css('color','black');`
 3. Compare the color of the dummy element with the element you want to check

i.e.

```
if($('#element').css('color') === $('#du
    //do something
}
```

Answered By: [Mike](#)

Answer #3:

I had a similar problem where I had to toggle the bgnd color of an element. I solved it like this:

```
var color_one = "#FFA500";
var color_two = "#FFFF00";

function toggle_color(elem){
    var bgcolor = elem.css("background-color");
    elem.css("background-color", color_one);
    if(bgcolor == elem.css("background-color")){
        elem.css("background-color", color_two);
    }
}
```

Answered By: [vjorjo](#)

Answer #4:

Here is my implementation of Mike's answer, in one function.



```
// Set the color to the left color
$(dummy).css('color', left);
var adjustedLeft = $(dummy).css('co');

// Set the color to the right color
$(dummy).css('color', right);
var adjustedRight = $(dummy).css('co

// Both colors are now adjusted to
// so we can compare them directly.
return adjustedLeft == adjustedRight;
}
```

You don't need to actually add the elements to the DOM for this to work. Tested in IE8, IE10, FF, Chrome, Safari.

Answered By: [Katie Kilian](#)

Answer #5:

Actually I tried [Charlie Kilian's](#) answer. For some reason it didn't work when you try to set .css('color') with and 'rgb(0,0,0)' value.

I don't know why. Worked perfectly in the console. Maybe it was because my comparing function is in a javascript object and its some kind of a context issue or a reference problem. Either way finally I got frustrated and wrote my own function that will compare two colors regardless of the formats and does not create any elements or rely on jQuery. The function takes both HEX and RGB values.

It can probably be optimized but I really don't have the time right now.



```
var l= parseColor(left);
var r=parseColor(right);
if(l !=null && r!=null){
    return l.r == r.r && l.g ==
}else{
    return false;
}
function parseColor(color){
    if(color.length==6 || color.
        //hex color
        return {
            r:hexToR(color),
            g:hexToG(color),
            b:hexToB(color)
        }
}else if(color.toLowerCase(
    var arr
    var re = /s*[0-9]{1,3}
    var m;

    if ((m = re.exec(color
        if (m.index === re
            re.lastIndex+
        }
        // View your result
        // eg m[0] etc.
        arr = m[0].split(
            return {
                r: parseInt(a
                g: parseInt(a
                b: parseInt(a
            }
}else{
    return null;
}

} else{
    return null;
}
function hexToR(h) {return
function hexToG(h) {return
function hexToB(h) {return
function cutHex(h) {return
```



These following functions I took from www.javascripter.net

```
function hexToR(h) {return
function hexToG(h) {return
function hexToB(h) {return
function cutHex(h) {return
```

Answered By: [Daniel Doinov](#)

Answer #6:

CSS Colors can appear in many formats - rgb, rgba, #hex, hardly supported #hexalpha, infamous named colors, and the special transparent. To compare any color to any color you need to normalize them first. The colorValues function found [here \(gist\)](#) or [here \(SO answer\)](#) will always give you [r,g,b,a] array of numeric values.

Then you can compare them like this:

```
var sameColor = colorValues(color1).join('') == colorValues(color2).join('')
```

colorValues function

```
// return array of [r,g,b,a] from any valid color string
function colorValues(color)
{
    if (color === '')
        return;
    if (color.toLowerCase() === 'transparent')
        return [0, 0, 0, 0];
    if (color[0] === '#')
    {
        if (color.length < 7)
        {
            // convert #RGB and #RGBA
            var r = color.substring(1, 3);
            var g = color.substring(3, 5);
            var b = color.substring(5, 7);
            return [parseInt(r, 16), parseInt(g, 16), parseInt(b, 16), 255];
        }
        else
            return [color.substring(1, 3), color.substring(3, 5), color.substring(5, 7), color.substring(7, 9)];
    }
    else
        return [color[0], color[1], color[2], color[3]];
}
```



```

        parseInt(color.substr(5, 2))
        color.length > 7 ? parseInt(color)
    }
    if (color.indexOf('rgb') === -1)
    {
        // convert named colors
        var temp_elem = document.body.appendChild(document.createElement('div'));
        var flag = 'rgb(1, 2, 3)'; // temporary value
        temp_elem.style.color = flag;
        if (temp_elem.style.color !== flag)
            return; // color set failed
        temp_elem.style.color = color;
        if (temp_elem.style.color === flag)
            return; // color parse failed
        color = getComputedStyle(temp_elem).color;
        document.body.removeChild(temp_elem);
    }
    if (color.indexOf('rgba') === -1)
        color += ',1'; // convert to rgba
    return color.match(/[\d.]+/g).map(function(a)
    {
        return +a;
    });
}

```

Answered By: [oriadam](#)

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