

# Converting Colors

$Y_{xy}(48.4513, 0.2650, 0.4741)$

Have a look what the booklet for  
Yxy(48.4513, 0.2650, 0.4741)  
contains.

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# Color

**Yxy(48.5170, 0.2651, 0.4742)**

# Conversions

## Conversions Part 1

Format	Color
Hex	01D47B
RGB	1, 212, 123
RGB Percent	0%, 83%, 48%
CMY	0.9979, 0.1686, 0.5176
CMYK	1.00, 0.00, 0.42, 0.17
HSL	155°, 99%, 42%
HSV	155°, 100%, 83%
XYZ	27.1233, 48.5170, 26.6731
YIQ	138.7650, -97.1870, -72.4110

# Conversions

## Conversions Part 2

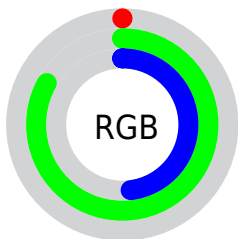
Format	Color
<a href="#">RYB</a>	<a href="#">1, 135, 212</a>
Decimal	<a href="#">119931</a>
CIELab	<a href="#">75.15, -63.70, 32.01</a>
CIELCh	<a href="#">75, 71.296, 153.319</a>
Yxy	<a href="#">48.5170, 0.2651, 0.4742</a>
Android (android.graphics.Color)	<a href="#">4278310011</a> ( <a href="#">0xFF01D47B</a> )
YUV	<a href="#">138.7650, -7.7721, -120.8199</a>
Hunter-Lab	<a href="#">69.6541, -52.3870, 26.0536</a>

# Details

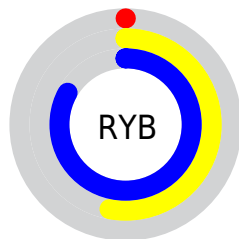
The Yxy color **48.5170, 0.2651, 0.4742** is a dark color, and the websafe version is hex **00CC66**. The color can be described as dark washed spring green. A complement of this color would be **14.7383, 0.5307, 0.2699**, and the grayscale version is **25.7243, 0.3127, 0.3290**.

A 20% lighter version of the original color is **77.5976, 0.2734, 0.4302**, and **24.2580, 0.2748, 0.5091** is the 20% darker color. If you saturate the color by 10%, you get **48.5099, 0.2652, 0.4746**, and if you desaturate by 10%, it is **48.9168, 0.2626, 0.4584**.

# Distribution



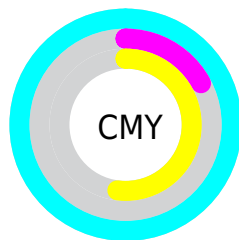
- Red (0%)
- Green (83%)
- Blue (48%)



- Red (0%)
- Yellow (53%)
- Blue (83%)



- Cyan (100%)
- Magenta (0%)
- Yellow (42%)
- Black (17%)




- Cyan (100%)
- Magenta (17%)
- Yellow (52%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 48.5170, 0.2651, 0.4742 changes by changing the brightness by 10 percent. The first figure shows a shift by +10% for each color and the second figure -10%.


Similar to the brightness gradients but the following saturation gradients show a change of the Yxy color 48.5170, 0.2651, 0.4742 by changing the saturation by 10% instead.





 48.5170, 0.2651,  
0.4742


 48.5170, 0.2651,  
0.4742

380.8377, 0.2918,  
0.3963


 34.2365, 0.2575,  
0.4952


 87.9737, 0.2755,  
0.4447


 23.0753, 0.2472,  
0.5230


 113.9186, 0.2792,  
0.4340

 14.6491, 0.2326,  
0.5611


 144.5205, 0.2822,  
0.4250

 8.5735, 0.2105,  
0.6161

 180.1637, 0.2848,  
0.4175

 4.4641, 0.1752,  
0.7003

 221.2326, 0.2869,  
0.4110

 1.9364, 0.0197,  
0.9803

268.1117, 0.2888,


 0.5701, 0.0000,


0.4055

1.0000


321.1853, 0.2904,  
0.4006


 0.0000, 0.0000,  
0.0000

 48.5170, 0.2651,  
0.4742


 48.5170, 0.2651,  
0.4742


 48.5099, 0.2652,  
0.4746

 48.9168, 0.2626,  
0.4584

 49.5160, 0.2619,  
0.4421

 50.3743, 0.2632,  
0.4256

 51.5247, 0.2665,  
0.4092

 52.9949, 0.2715,  
0.3933

■ 54.8095, 0.2781,  
0.3782

■ 56.9904, 0.2858,  
0.3641

■ 59.5579, 0.2944,  
0.3511

■ 62.5306, 0.3035,  
0.3393

# Harmonies

## Analogous

The Analogous color harmony consists of three colors that are next to each other on the color wheel.



48.5170, 0.3549, 0.5117



48.5170, 0.2651, 0.4742



48.5170, 0.1934, 0.3705

# Triad

The Triadic color harmony groups three colors that are evenly spaced from another and form a triangle on the color wheel.



48.5170, 0.2651, 0.4742



48.5170, 0.1843, 0.1880



48.5170, 0.4984, 0.3433

# Complementary

The Complementary color scheme is a pair of colors which are on the opposite of each other on the color wheel.



48.5170, 0.2651, 0.4742



14.7383, 0.5307, 0.2699

# Split Complementary

Split-complementary colors differ from the complementary color scheme. The scheme consists of three colors, the original color and two neighbors of the complement color.



48.5170, 0.4385, 0.2800



48.5170, 0.2651, 0.4742



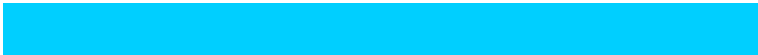
48.5170, 0.2469, 0.1953

# Square

The Square scheme is like the rectangle color scheme, but the four colors are evenly spaced on the color wheel.



48.5170, 0.2651, 0.4742



48.5170, 0.1548, 0.2101



48.5170, 0.3398, 0.2277



48.5170, 0.4945, 0.4113

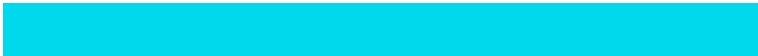


# Rectangle

The Rectangle color scheme consists of four colors that form a rectangle on the color wheel.



48.5170, 0.2651, 0.4742



48.5170, 0.1648, 0.2997



48.5170, 0.3398, 0.2277



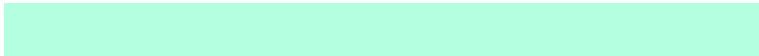
48.5170, 0.4852, 0.3215

# Sweetspot

The Sweet Spot groups the original color and five complimentary colors.



48.5189, 0.2651, 0.4742



86.3614, 0.2853, 0.3649



49.3705, 0.3275, 0.5780



18.1708, 0.2819, 0.3708



0.0000, 0.0000, 0.0000



21.4041, 0.3127, 0.3290



# Same Dimension

The Same Dimension uses a secret algorithm to generate beautiful new colors.



48.5189, 0.2651, 0.4742



73.6480, 0.2656, 0.4762



45.0989, 0.2189, 0.3079



14.0154, 0.3038, 0.3390



29.9690, 0.2646, 0.4724



1.8240, 0.2569, 0.4449



# Inverse Universe

The Inverse Universe completely reimagines the original color for something new.



14.7383, 0.5307, 0.2699



22.3283, 0.5340, 0.2715



14.3290, 0.6355, 0.3333



12.5067, 0.3226, 0.3192



9.1077, 0.5279, 0.2682

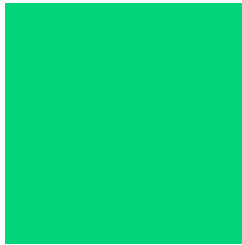


0.5657, 0.4836, 0.2437



# Previews

## White Background



This preview shows how the Yxy color 48.5170, 0.2651, 0.4742 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 48.5170, 0.2651, 0.4742 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

If you want to check with other color combinations, try the [Color Contrast Checker](#).

**Yxy 48.5170, 0.2651, 0.4742**

## **Background**



This preview shows how black text looks on a background with the Yxy color 48.5170, 0.2651, 0.4742.



This preview shows how white text looks on a background with the Yxy color 48.5170, 0.2651, 0.4742.

# Color Blindness Simulation

Color vision deficiency is a very complex topic, and I could not describe the different causes any better than Wikipedia does, so if you want to learn more, you should check out their [article about color blindness](#).

## Dichromacy



### Original Color

48.5235, 0.2651, 0.4742

### Protanopia

47.7302, 0.3855, 0.4193

### Deuteranopia

47.6220, 0.3898, 0.3819



## Tritanopia

48.4027, 0.2313, 0.3063

# Trichromacy



## Original Color

48.5235, 0.2651, 0.4742



## Protanomaly

44.3566, 0.3151, 0.4481



## Deuteranomaly

43.4691, 0.3163, 0.4192



## Tritanomaly

47.7597, 0.2405, 0.3624

# Monochromacy



## Original Color

48.5235, 0.2651, 0.4742



## Achromatopsia

25.8183, 0.3127, 0.3290



## Achromatomaly

31.0897, 0.2745, 0.3881

# CSS Examples

## Text

The CSS property to change the color of the text to  $Yxy$  48.5170, 0.2651, 0.4742 is called "color". The color property can be set on classes, ids or directly on the HTML element.

This example shows how text in the color `rgb(1, 212, 123)` looks like.

```
.text, #text, p{  
    color:rgb(1, 212, 123)  
}
```

If you want to add a text shadow in that color use the text-shadow property, you can generate a text shadow directly with our [CSS Text Shadow Generator](#).

Here you see how black text with a 4 pixel rgb(1, 212, 123) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(1, 212, 123) }
```

## Border

The CSS property to change the border of an element to Yxy 48.5170, 0.2651, 0.4742 is called "border". The border property can be set on classes, ids or directly on the HTML element.

This example shows the color as border, it can be applied via the CSS property "border" or "border-color".

```
.border, #border, table{ border:4px solid rgb(1, 212, 123) }
```

If only the border color should be changed use the property `border-color`.

```
.border{ border-color:rgb(1, 212, 123) }
```

If you want to add a box shadow in that color use:

Here you see how a box with a 4 pixel `rgb(1, 212, 123)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(1, 212, 123); -webkit-box-  
shadow:4px 4px 4px 4px rgb(1, 212, 123);  
box-shadow:4px 4px 4px 4px rgb(1, 212,  
123) }
```



# Background

The CSS property to change the background color of an element to Yxy 48.5170, 0.2651, 0.4742 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(1, 212, 123) }
```

If only the background color should be changed can be used:

```
.background{ background-color: rgb(1, 212,  
123) }
```

This example shows the color as background, it is applied via the CSS property "background".

To optimize and compress your CSS code, you can use our [online CSS compressor and optimizer](#) based on csstidy. If you want to create a linear or radial gradient as background or border, check our [CSS Gradient Generator](#).

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