

# Converting Colors

$Y_{xy}(49.1570, 0.2664, 0.4789)$

Have a look what the booklet for  
Yxy(49.1570, 0.2664, 0.4789)  
contains.

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# Color

**Yxy(48.9690, 0.2663, 0.4786)**

# Conversions

## Conversions Part 1

Format	Color
Hex	00D579
RGB	0, 213, 121
RGB Percent	0%, 84%, 47%
CMY	0.9990, 0.1647, 0.5255
CMYK	1.00, 0.00, 0.43, 0.16
HSL	154°, 100%, 42%
HSV	154°, 100%, 84%
XYZ	27.2471, 48.9690, 26.1011
YIQ	138.8250, -97.4160, -73.7680

# Conversions

## Conversions Part 2

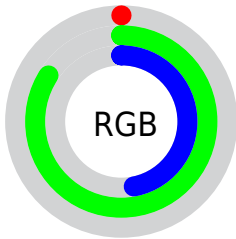
Format	Color
<a href="#">RYB</a>	<a href="#">0, 136, 213</a>
Decimal	<a href="#">54649</a>
CIELab	<a href="#">75.43, -64.42, 33.40</a>
CIELCh	<a href="#">75, 72.564, 152.594</a>
Yxy	<a href="#">48.9690, 0.2663, 0.4786</a>
Android (android.graphics.Color)	<a href="#">4278244729 (0xFF00D579)</a>
YUV	<a href="#">138.8250, -8.7877, -121.7495</a>
Hunter-Lab	<a href="#">69.9779, -52.9592, 26.8699</a>

# Details

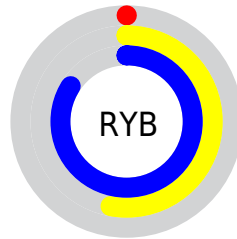
The Yxy color **48.9690, 0.2663, 0.4786** is a dark color, and the websafe version is hex **00CC66**. The color can be described as dark washed spring green. A complement of this color would be **14.9291, 0.5263, 0.2674**, and the grayscale version is **25.8408, 0.3127, 0.3290**.

A 20% lighter version of the original color is **77.5190, 0.2743, 0.4330**, and **24.5689, 0.2762, 0.5143** is the 20% darker color. If you saturate the color by 10%, you get **48.9667, 0.2663, 0.4788**, and if you desaturate by 10%, it is **49.3718, 0.2637, 0.4624**.

# Distribution



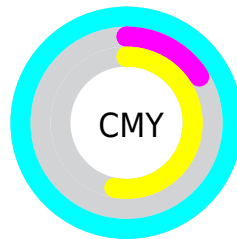
- Red (0%)
- Green (84%)
- Blue (47%)



- Red (0%)
- Yellow (53%)
- Blue (84%)



- Cyan (100%)
- Magenta (0%)
- Yellow (43%)
- Black (16%)




- Cyan (100%)
- Magenta (16%)
- Yellow (53%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 48.9690, 0.2663, 0.4786 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 48.9690, 0.2663, 0.4786 by changing the saturation by 10% instead.





 48.9690, 0.2663,  
0.4786


 48.9690, 0.2663,  
0.4786

382.6203, 0.2925,  
0.3983

 34.5949, 0.2588,  
0.5002


 88.6454, 0.2766,  
0.4482


 23.3510, 0.2485,  
0.5287


 114.7165, 0.2802,  
0.4372

 14.8529, 0.2338,  
0.5678


 145.4554, 0.2832,  
0.4280

 8.7162, 0.2117,  
0.6238

 181.2464, 0.2857,  
0.4202

 4.5565, 0.1763,  
0.7099

 222.4740, 0.2878,  
0.4136

 1.9895, 0.0251,  
0.9749

269.5226, 0.2896,


 0.6014, 0.0000,


0.4078

1.0000


322.7766, 0.2912,  
0.4028


 0.0000, 0.0000,  
0.0000


 48.9690, 0.2663,  
0.4786

 48.9690, 0.2663,  
0.4786


 48.9667, 0.2663,  
0.4788

 49.3718, 0.2637,  
0.4624

 49.9757, 0.2629,  
0.4457

 50.8422, 0.2640,  
0.4287

 52.0047, 0.2672,  
0.4118

 53.4915, 0.2721,  
0.3954

■ 55.3274, 0.2785,  
0.3799

■ 57.5348, 0.2861,  
0.3653

■ 60.1342, 0.2946,  
0.3519

■ 63.1443, 0.3035,  
0.3398

# Harmonies

## Analogous

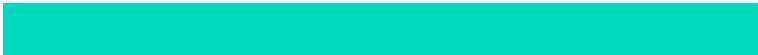
The Analogous color harmony consists of three colors that are next to each other on the color wheel.



48.9690, 0.3573, 0.5142



48.9690, 0.2663, 0.4786



48.9690, 0.1931, 0.3739

# Triad

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



48.9690, 0.2663, 0.4786



48.9690, 0.1817, 0.1865



48.9690, 0.5003, 0.3415

# Complementary

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



48.9690, 0.2663, 0.4786



14.9291, 0.5263, 0.2674

# 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.



48.9690, 0.4382, 0.2778



48.9690, 0.2663, 0.4786



48.9690, 0.2440, 0.1933

# Square

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



48.9690, 0.2663, 0.4786



48.9690, 0.1527, 0.2095



48.9690, 0.3375, 0.2255



48.9690, 0.4975, 0.4101



# Rectangle

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



48.9690, 0.2663, 0.4786



48.9690, 0.1638, 0.3014



48.9690, 0.3375, 0.2255



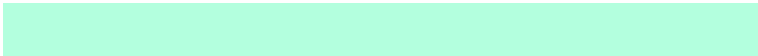
48.9690, 0.4864, 0.3195

# Sweetspot

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



48.9710, 0.2663, 0.4786



86.3136, 0.2858, 0.3659



49.8879, 0.3274, 0.5781



18.1594, 0.2824, 0.3720



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.



48.9710, 0.2663, 0.4786



73.5556, 0.2668, 0.4804



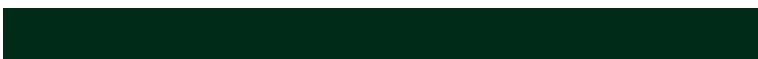
45.5689, 0.2189, 0.3079



14.0129, 0.3040, 0.3393



29.9315, 0.2657, 0.4765



1.8218, 0.2579, 0.4483



# Inverse Universe

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



14.9291, 0.5263, 0.2674



22.3920, 0.5291, 0.2688



14.4728, 0.6357, 0.3333



12.5091, 0.3224, 0.3190



9.1340, 0.5231, 0.2655

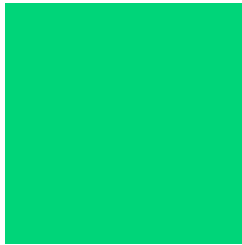


0.5674, 0.4796, 0.2416



# Previews

## White Background



This preview shows how the Yxy color 48.9690, 0.2663, 0.4786 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 48.9690, 0.2663, 0.4786 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

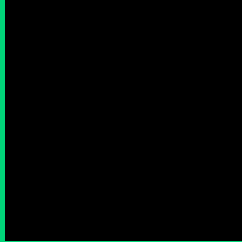
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**Yxy 48.9690, 0.2663, 0.4786**

## **Background**



This preview shows how black text looks on a background with the Yxy color 48.9690, 0.2663, 0.4786.

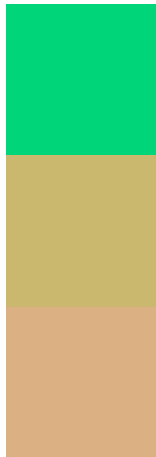


This preview shows how white text looks on a background with the Yxy color 48.9690, 0.2663, 0.4786.

# 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

48.9690, 0.2663, 0.4786

### Protanopia

47.9633, 0.3889, 0.4209

### Deuteranopia

47.7224, 0.3925, 0.3841



## Tritanopia

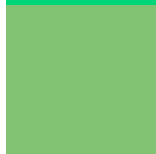
48.9653, 0.2315, 0.3064

# Trichromacy



## Original Color

48.9690, 0.2663, 0.4786



## Protanomaly

44.9122, 0.3178, 0.4516



## Deuteranomaly

43.4165, 0.3178, 0.4222



## Tritanomaly

48.2396, 0.2408, 0.3638

# Monochromacy



## Original Color

48.9690, 0.2663, 0.4786



## Achromatopsia

25.8183, 0.3127, 0.3290



## Achromatomaly

31.0622, 0.2752, 0.3900

# CSS Examples

## Text

The CSS property to change the color of the text to  $Yxy$  48.9690, 0.2663, 0.4786 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(0, 213, 121)` looks like.

```
.text, #text, p{  
  color:rgb(0, 213, 121)  
}
```

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(0, 213, 121) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(0, 213, 121) }
```

## Border

The CSS property to change the border of an element to Yxy 48.9690, 0.2663, 0.4786 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(0, 213, 121) }
```

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

```
.border{ border-color:rgb(0, 213, 121) }
```

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

Here you see how a box with a 4 pixel rgb(0, 213, 121) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(0, 213, 121); -webkit-box-  
shadow:4px 4px 4px 4px rgb(0, 213, 121);  
box-shadow:4px 4px 4px 4px rgb(0, 213,  
121) }
```



# Background

The CSS property to change the background color of an element to Yxy 48.9690, 0.2663, 0.4786 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(0, 213, 121) }
```

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

```
.background{ background-color: rgb(0, 213,  
121) }
```

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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