

# Converting Colors

$Y_{xy}(40.9893, 0.2063, 0.5014)$

Have a look what the booklet for  
Yxy(40.9893, 0.2063, 0.5014)  
contains.

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# Color

**Yxy(45.4270, 0.2662, 0.4783)**

# Conversions

## Conversions Part 1

Format	Color
Hex	00CE75
RGB	0, 206, 117
RGB Percent	0%, 81%, 46%
CMY	0.9998, 0.1921, 0.5412
CMYK	1.00, 0.00, 0.43, 0.19
HSL	154°, 100%, 40%
HSV	154°, 100%, 81%
XYZ	25.2826, 45.4270, 24.2664
YIQ	134.2600, -94.2070, -71.3510

# Conversions

## Conversions Part 2

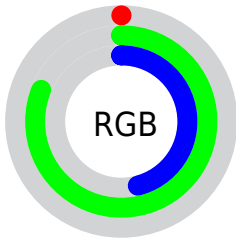
<b>Format</b>	<b>Color</b>
<b>RYB</b>	0, 131, 206
Decimal	52853
CIELab	73.17, -62.80, 32.49
CIELCh	73, 70.706, 152.648
Yxy	45.4270, 0.2662, 0.4783
Android (android.graphics.Color)	4278242933 (0xFF00CE75)
YUV	134.2600, -8.5092, -117.7460
Hunter-Lab	67.3996, -50.9912, 25.8331

# Details

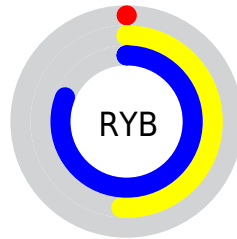
The Yxy color **45.4270, 0.2662, 0.4783** is a dark color, and the websafe version is hex **00CC66**. The color can be described as dark washed spring green. A complement of this color would be **13.8450, 0.5263, 0.2673**, and the grayscale version is **24.0041, 0.3127, 0.3290**.

A 20% lighter version of the original color is **77.2471, 0.2753, 0.4386**, and **22.2179, 0.2765, 0.5154** is the 20% darker color. If you saturate the color by 10%, you get **45.4282, 0.2662, 0.4783**, and if you desaturate by 10%, it is **45.8036, 0.2637, 0.4622**.

# Distribution



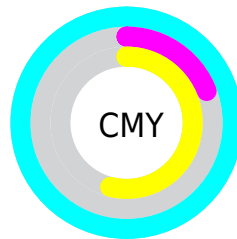
- Red (0%)
- Green (81%)
- Blue (46%)



- Red (0%)
- Yellow (51%)
- Blue (81%)



- Cyan (100%)
- Magenta (0%)
- Yellow (43%)
- Black (19%)




- Cyan (100%)
- Magenta (19%)
- Yellow (54%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 45.4270, 0.2662, 0.4783 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 45.4270, 0.2662, 0.4783 by changing the saturation by 10% instead.





 45.4270, 0.2662,  
0.4783

 45.4270, 0.2662,  
0.4783


368.5002, 0.2928,  
0.3973

 31.7939, 0.2584,  
0.5005


 83.3608, 0.2767,  
0.4474

 21.2041, 0.2478,  
0.5300


 108.4303, 0.2804,  
0.4362


 13.2733, 0.2324,  
0.5708


 138.0807, 0.2834,  
0.4269

 7.6170, 0.2087,  
0.6302

 172.6964, 0.2859,  
0.4191

 3.8509, 0.1717,  
0.7294

 212.6618, 0.2880,  
0.4125

 1.5905, 0.0000,  
1.0000

258.3613, 0.2898,


 0.3512, 0.0000,


0.4067


1.0000

310.1793, 0.2914,  
0.4017

 0.0000, 0.0000,  
0.0000


 45.4270, 0.2662,  
0.4783


 45.4270, 0.2662,  
0.4783

 45.4282, 0.2662,  
0.4783

 45.8036, 0.2637,  
0.4622

 46.3643, 0.2628,  
0.4455

 47.1678, 0.2640,  
0.4285

 48.2448, 0.2672,  
0.4117

 49.6214, 0.2721,  
0.3954

■ 51.3205, 0.2785,  
0.3799

■ 53.3626, 0.2861,  
0.3653

■ 55.7667, 0.2945,  
0.3520

■ 58.5501, 0.3035,  
0.3399

# Harmonies

## Analogous

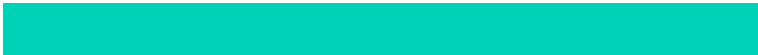
The Analogous color harmony consists of three colors that are next to each other on the color wheel.



45.4270, 0.3571, 0.5141



45.4270, 0.2662, 0.4783



45.4270, 0.1931, 0.3736

# Triad

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



45.4270, 0.2662, 0.4783



45.4270, 0.1819, 0.1866



45.4270, 0.5002, 0.3417

# Complementary

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



45.4270, 0.2662, 0.4783



13.8450, 0.5263, 0.2673

# 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.



45.4270, 0.4383, 0.2780



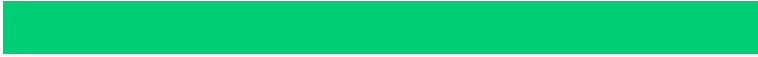
45.4270, 0.2662, 0.4783



45.4270, 0.2442, 0.1935

# Square

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



45.4270, 0.2662, 0.4783



45.4270, 0.1528, 0.2096



45.4270, 0.3377, 0.2256



45.4270, 0.4973, 0.4102



# Rectangle

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



45.4270, 0.2662, 0.4783



45.4270, 0.1638, 0.3012



45.4270, 0.3377, 0.2256



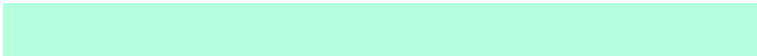
45.4270, 0.4864, 0.3197

# Sweetspot

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



45.4288, 0.2662, 0.4783



86.3152, 0.2858, 0.3659



46.2824, 0.3275, 0.5781



18.1598, 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.



45.4288, 0.2662, 0.4783



73.5586, 0.2667, 0.4802



42.2755, 0.2189, 0.3079



12.6419, 0.3040, 0.3392



27.9921, 0.2656, 0.4760



1.4591, 0.2567, 0.4442



# Inverse Universe

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



13.8450, 0.5263, 0.2673



22.3899, 0.5292, 0.2689



13.4303, 0.6357, 0.3334



11.2928, 0.3223, 0.3190



8.5429, 0.5227, 0.2653

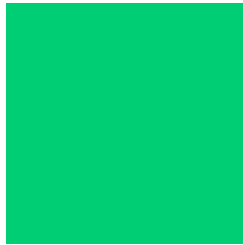


0.4558, 0.4736, 0.2382



# Previews

## White Background



This preview shows how the Yxy color 45.4270, 0.2662, 0.4783 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 45.4270, 0.2662, 0.4783 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 45.4270, 0.2662, 0.4783**

## **Background**



This preview shows how black text looks on a background with the Yxy color 45.4270, 0.2662, 0.4783.



This preview shows how white text looks on a background with the Yxy color 45.4270, 0.2662, 0.4783.

# 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

45.4270, 0.2662, 0.4783

### Protanopia

44.4835, 0.3886, 0.4214

### Deuteranopia

44.6035, 0.3927, 0.3857



## Tritanopia

45.2699, 0.2313, 0.3057

# Trichromacy



## Original Color

45.4270, 0.2662, 0.4783



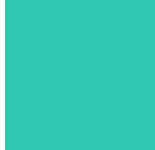
## Protanomaly

41.3773, 0.3175, 0.4513



## Deuteranomaly

40.8370, 0.3187, 0.4247



## Tritanomaly

44.6496, 0.2407, 0.3634

# Monochromacy



## Original Color

45.4270, 0.2662, 0.4783



## Achromatopsia

23.8398, 0.3127, 0.3290



## Achromatomaly

28.6314, 0.2742, 0.3883

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 45.4270, 0.2662, 0.4783 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, 206, 117)` looks like.

```
.text, #text, p{  
    color:rgb(0, 206, 117)  
}
```

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, 206, 117) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(0, 206, 117) }
```

## Border

The CSS property to change the border of an element to Yxy 45.4270, 0.2662, 0.4783 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, 206, 117) }
```

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

```
.border{ border-color:rgb(0, 206, 117) }
```

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

Here you see how a box with a 4 pixel rgb(0, 206, 117) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(0, 206, 117); -webkit-box-  
shadow:4px 4px 4px 4px rgb(0, 206, 117);  
box-shadow:4px 4px 4px 4px rgb(0, 206,  
117) }
```



# Background

The CSS property to change the background color of an element to Yxy 45.4270, 0.2662, 0.4783 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(0, 206, 117) }
```

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

```
.background{ background-color: rgb(0, 206,  
117) }
```

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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