

# Converting Colors

$Y_{xy}(45.7461, 0.2581, 0.4488)$

Have a look what the booklet for  
Yxy(45.7461, 0.2581, 0.4488)  
contains.

<b>Yxy(45.8703, 0.2580, 0.4485)</b> .....	3
<b><i>Conversions</i></b> .....	4
<b><i>Details</i></b> .....	6
<b><i>Harmonies</i></b> .....	12
<b><i>Previews</i></b> .....	24
<b><i>Color Blindness Simulation</i></b> .....	27
<b><i>CSS Examples</i></b> .....	30

# Color

**Yxy(45.8703, 0.2580, 0.4485)**

# Conversions

## Conversions Part 1

Format	Color
Hex	01CE86
RGB	1, 206, 134
RGB Percent	0%, 81%, 53%
CMY	0.9960, 0.1921, 0.4745
CMYK	1.00, 0.00, 0.35, 0.19
HSL	159°, 99%, 41%
HSV	159°, 100%, 81%
XYZ	26.3869, 45.8703, 30.0177
YIQ	136.4970, -99.0680, -65.8520

# Conversions

## Conversions Part 2

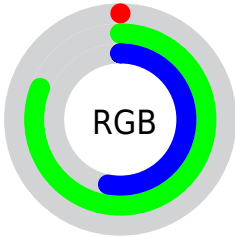
<b>Format</b>	<b>Color</b>
<b>RYB</b>	1, 125, 206
Decimal	118406
CIELab	73.46, -59.43, 24.08
CIELCh	73, 64.123, 157.947
Yxy	45.8703, 0.2580, 0.4485
Android (android.graphics.Color)	4278308486 (0xFF01CE86)
YUV	136.4970, -1.2310, -118.8309
Hunter-Lab	67.7276, -48.9791, 21.1313

# Details

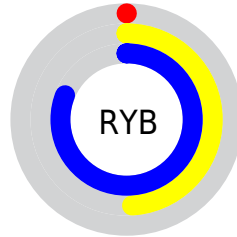
The Yxy color **45.8703, 0.2580, 0.4485** is a dark color, and the websafe version is hex **00CC99**. The color can be described as dark washed spring green. A complement of this color would be **13.6256, 0.5576, 0.2849**, and the grayscale version is **24.8520, 0.3127, 0.3290**.

A 20% lighter version of the original color is **77.9756, 0.2673, 0.4142**, and **22.4528, 0.2660, 0.4775** is the 20% darker color. If you saturate the color by 10%, you get **45.8556, 0.2581, 0.4492**, and if you desaturate by 10%, it is **46.2407, 0.2562, 0.4352**.

# Distribution



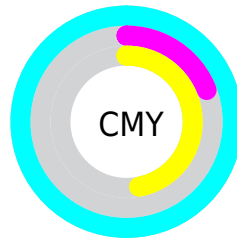
- Red (0%)
- Green (81%)
- Blue (53%)



- Red (0%)
- Yellow (49%)
- Blue (81%)



- Cyan (100%)
- Magenta (0%)
- Yellow (35%)
- Black (19%)



- Cyan (100%)
- Magenta (19%)
- Yellow (47%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 45.8703, 0.2580, 0.4485 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 45.8703, 0.2580, 0.4485 by changing the saturation by 10% instead.





 45.8703, 0.2580,  
0.4485


 45.8703, 0.2580,  
0.4485


370.2870, 0.2874,  
0.3844


 32.1435, 0.2500,  
0.4659


 84.0249, 0.2692,  
0.4242

 21.4711, 0.2393,  
0.4891


 109.2214, 0.2732,  
0.4153

 13.4688, 0.2245,  
0.5212


 139.0099, 0.2766,  
0.4080

 7.7522, 0.2027,  
0.5685

 173.7749, 0.2794,  
0.4018

 3.9368, 0.1683,  
0.6429

 213.9007, 0.2819,  
0.3965

 1.6383, 0.0000,  
1.0000

259.7717, 0.2840,

 0.3832, 0.0000,

0.3919

1.0000

311.7724, 0.2858,  
0.3879

■ 0.0000, 0.0000,  
0.0000

■ 45.8703, 0.2580,  
0.4485

■ 45.8703, 0.2580,  
0.4485

■ 45.8556, 0.2581,  
0.4492

■ 46.2407, 0.2562,  
0.4352

■ 46.7942, 0.2561,  
0.4217

■ 47.5855, 0.2580,  
0.4081

■ 48.6447, 0.2619,  
0.3947

■ 49.9975, 0.2677,  
0.3817

■ 51.6665, 0.2749,  
0.3694

■ 53.6720, 0.2834,  
0.3578

■ 56.0325, 0.2928,  
0.3471

■ 58.7652, 0.3028,  
0.3374

# Harmonies

## Analogous

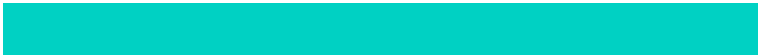
The Analogous color harmony consists of three colors that are next to each other on the color wheel.



45.8703, 0.3407, 0.4955



45.8703, 0.2580, 0.4485



45.8703, 0.1949, 0.3519

# Triad

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



45.8703, 0.2580, 0.4485



45.8703, 0.2003, 0.1968



45.8703, 0.4870, 0.3540

# Complementary

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



45.8703, 0.2580, 0.4485



13.6256, 0.5576, 0.2849

# 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.



45.8703, 0.4399, 0.2930



45.8703, 0.2580, 0.4485



45.8703, 0.2640, 0.2074

# Square

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



45.8703, 0.2580, 0.4485



45.8703, 0.1674, 0.2138



45.8703, 0.3526, 0.2413



45.8703, 0.4764, 0.4179



# Rectangle

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



45.8703, 0.2580, 0.4485



45.8703, 0.1712, 0.2901



45.8703, 0.3526, 0.2413



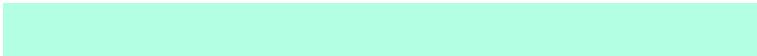
45.8703, 0.4776, 0.3331

# Sweetspot

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



45.8721, 0.2580, 0.4485



86.6529, 0.2826, 0.3588



45.6903, 0.3203, 0.5836



18.2402, 0.2789, 0.3636



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.



45.8721, 0.2580, 0.4485



74.2524, 0.2585, 0.4507



36.5717, 0.2129, 0.2862



12.6575, 0.3029, 0.3373



28.2544, 0.2576, 0.4472



1.4717, 0.2504, 0.4213



# Inverse Universe

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



13.6256, 0.5576, 0.2849



21.9908, 0.5622, 0.2871



13.9716, 0.6280, 0.3390



11.2777, 0.3236, 0.3209



8.3877, 0.5552, 0.2832

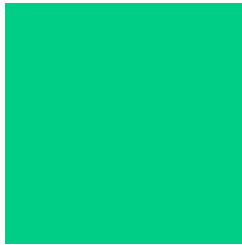


0.4470, 0.5005, 0.2531



# Previews

## White Background



This preview shows how the Yxy color 45.8703, 0.2580, 0.4485 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 45.8703, 0.2580, 0.4485 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

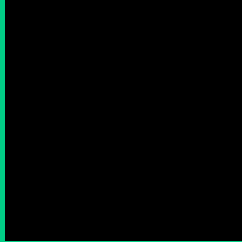
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**Yxy 45.8703, 0.2580, 0.4485**

## **Background**



This preview shows how black text looks on a background with the Yxy color 45.8703, 0.2580, 0.4485.

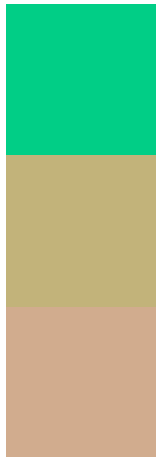


This preview shows how white text looks on a background with the Yxy color 45.8703, 0.2580, 0.4485.

# 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

45.8703, 0.2580, 0.4485

### Protanopia

45.1147, 0.3742, 0.4031

### Deuteranopia

45.0134, 0.3740, 0.3666



## Tritanopia

45.6110, 0.2299, 0.3057

# Trichromacy



## Original Color

45.8703, 0.2580, 0.4485



## Protanomaly

42.1866, 0.3066, 0.4272



## Deuteranomaly

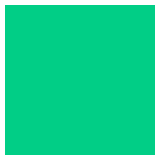
41.1316, 0.3046, 0.3981



## Tritanomaly

45.3501, 0.2372, 0.3535

# Monochromacy



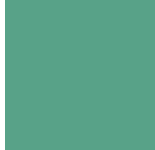
## Original Color

45.8703, 0.2580, 0.4485



## Achromatopsia

25.0158, 0.3127, 0.3290



## Achromatomaly

29.6929, 0.2708, 0.3760

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 45.8703, 0.2580, 0.4485 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, 206, 134)` looks like.

```
.text, #text, p{  
    color:rgb(1, 206, 134)  
}
```

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, 206, 134) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(1, 206, 134) }
```

## Border

The CSS property to change the border of an element to Yxy 45.8703, 0.2580, 0.4485 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, 206, 134) }
```

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

```
.border{ border-color:rgb(1, 206, 134) }
```

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

Here you see how a box with a 4 pixel `rgb(1, 206, 134)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(1, 206, 134); -webkit-box-  
shadow:4px 4px 4px 4px rgb(1, 206, 134);  
box-shadow:4px 4px 4px 4px rgb(1, 206,  
134) }
```



# Background

The CSS property to change the background color of an element to Yxy 45.8703, 0.2580, 0.4485 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(1, 206, 134) }
```

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

```
.background{ background-color: rgb(1, 206,  
134) }
```

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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