

# Converting Colors

$Y_{xy}(45.0345, 0.2506, 0.4841)$

Have a look what the booklet for  
Yxy(45.0345, 0.2506, 0.4841)  
contains.

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# Color

**Yxy(46.4198, 0.2663, 0.4786)**

# Conversions

## Conversions Part 1

Format	Color
Hex	00D076
RGB	0, 208, 118
RGB Percent	0%, 82%, 46%
CMY	0.9991, 0.1843, 0.5372
CMYK	1.00, 0.00, 0.43, 0.18
HSL	154°, 100%, 41%
HSV	154°, 100%, 82%
XYZ	25.8287, 46.4198, 24.7424
YIQ	135.5480, -95.0780, -72.0860

# Conversions

## Conversions Part 2

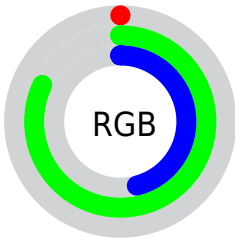
Format	Color
<a href="#">RYB</a>	<a href="#">0, 133, 208</a>
Decimal	<a href="#">53366</a>
CIELab	<a href="#">73.82, -63.28, 32.81</a>
CIELCh	<a href="#">74, 71.283, 152.594</a>
Yxy	<a href="#">46.4198, 0.2663, 0.4786</a>
Android (android.graphics.Color)	<a href="#">4278243446</a> ( <a href="#">0xFF00D076</a> )
YUV	<a href="#">135.5480, -8.6512, -118.8756</a>
Hunter-Lab	<a href="#">68.1321, -51.5624, 26.1611</a>

# Details

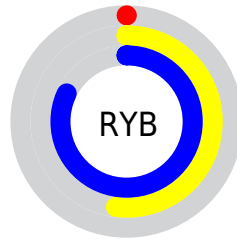
The Yxy color **46.4198, 0.2663, 0.4786** is a dark color, and the websafe version is hex **00CC66**. The color can be described as dark washed spring green. A complement of this color would be **14.1571, 0.5257, 0.2670**, and the grayscale version is **24.5311, 0.3127, 0.3290**.

A 20% lighter version of the original color is **77.3438, 0.2753, 0.4371**, and **22.8738, 0.2765, 0.5154** is the 20% darker color. If you saturate the color by 10%, you get **46.4177, 0.2663, 0.4788**, and if you desaturate by 10%, it is **46.8045, 0.2638, 0.4624**.

# Distribution



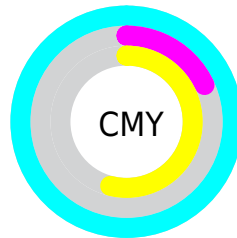
- Red (0%)
- Green (82%)
- Blue (46%)



- Red (0%)
- Yellow (52%)
- Blue (82%)



- Cyan (100%)
- Magenta (0%)
- Yellow (43%)
- Black (18%)




- Cyan (100%)
- Magenta (18%)
- Yellow (54%)

# Brightness & Saturation Gradients

These gradients show how the Yxy color 46.4198, 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 46.4198, 0.2663, 0.4786 by changing the saturation by 10% instead.




 46.4198, 0.2663,  
0.4786


 46.4198, 0.2663,  
0.4786


372.4938, 0.2928,  
0.3977


 32.5772, 0.2586,  
0.5006


 84.8469, 0.2767,  
0.4478


 21.8028, 0.2480,  
0.5299


 110.2002, 0.2804,  
0.4366


 13.7120, 0.2329,  
0.5703


 140.1593, 0.2834,  
0.4274

 7.9207, 0.2097,  
0.6288

 175.1084, 0.2859,  
0.4196

 4.0442, 0.1730,  
0.7237

 215.4320, 0.2880,  
0.4129

 1.6983, 0.0000,  
1.0000

261.5145, 0.2898,


 0.4226, 0.0000,

0.4071


1.0000

313.7403, 0.2914,  
0.4021


 0.0000, 0.0000,  
0.0000


 46.4198, 0.2663,  
0.4786


 46.4198, 0.2663,  
0.4786


 46.4177, 0.2663,  
0.4788

 46.8045, 0.2638,  
0.4624

 47.3791, 0.2629,  
0.4457

 48.2023, 0.2641,  
0.4287

 49.3056, 0.2673,  
0.4118

 50.7156, 0.2722,  
0.3954

■ 52.4559, 0.2786,  
0.3799

■ 54.5474, 0.2862,  
0.3653

■ 57.0095, 0.2946,  
0.3519

■ 59.8600, 0.3036,  
0.3398

# Harmonies

## Analogous

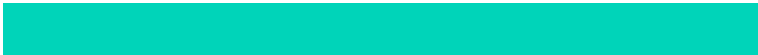
The Analogous color harmony consists of three colors that are next to each other on the color wheel.



46.4198, 0.3573, 0.5142



46.4198, 0.2663, 0.4786



46.4198, 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.



46.4198, 0.2663, 0.4786



46.4198, 0.1817, 0.1865



46.4198, 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.



46.4198, 0.2663, 0.4786



14.1571, 0.5257, 0.2670

# 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.



46.4198, 0.4382, 0.2778



46.4198, 0.2663, 0.4786



46.4198, 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.



46.4198, 0.2663, 0.4786



46.4198, 0.1527, 0.2095



46.4198, 0.3375, 0.2255



46.4198, 0.4975, 0.4101



# Rectangle

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



46.4198, 0.2663, 0.4786



46.4198, 0.1638, 0.3014



46.4198, 0.3375, 0.2255



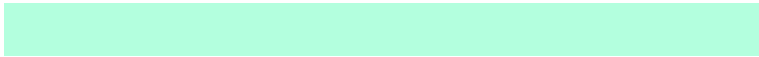
46.4198, 0.4864, 0.3195

# Sweetspot

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



46.4217, 0.2663, 0.4786



86.3110, 0.2858, 0.3660



47.2994, 0.3275, 0.5781



18.1588, 0.2825, 0.3721



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.



46.4217, 0.2663, 0.4786



73.5507, 0.2668, 0.4806



43.2057, 0.2189, 0.3079



13.3170, 0.3040, 0.3393



28.9498, 0.2657, 0.4765



1.6345, 0.2574, 0.4466



# Inverse Universe

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



14.1571, 0.5257, 0.2670



22.3955, 0.5288, 0.2687



13.7269, 0.6356, 0.3334



11.8921, 0.3224, 0.3190



8.8374, 0.5225, 0.2652



0.5099, 0.4764, 0.2398



# Previews

## White Background



This preview shows how the Yxy color 46.4198, 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 46.4198, 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 46.4198, 0.2663, 0.4786**

## **Background**



This preview shows how black text looks on a background with the Yxy color 46.4198, 0.2663, 0.4786.



This preview shows how white text looks on a background with the Yxy color 46.4198, 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

46.4198, 0.2663, 0.4786

### Protanopia

45.5744, 0.3887, 0.4217

### Deuteranopia

45.3335, 0.3924, 0.3841



## Tritanopia

46.3144, 0.2314, 0.3059

# Trichromacy



## Original Color

46.4198, 0.2663, 0.4786



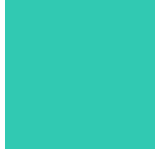
## Protanomaly

42.3346, 0.3173, 0.4517



## Deuteranomaly

41.3874, 0.3179, 0.4226



## Tritanomaly

45.6406, 0.2412, 0.3646

# Monochromacy



## Original Color

46.4198, 0.2663, 0.4786



## Achromatopsia

24.6201, 0.3127, 0.3290



## Achromatomaly

29.4519, 0.2752, 0.3895

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 46.4198, 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, 208, 118)` looks like.

```
.text, #text, p{  
    color:rgb(0, 208, 118)  
}
```

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, 208, 118) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(0, 208, 118) }
```

## Border

The CSS property to change the border of an element to Yxy 46.4198, 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, 208, 118) }
```

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

```
.border{ border-color:rgb(0, 208, 118) }
```

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

Here you see how a box with a 4 pixel `rgb(0, 208, 118)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(0, 208, 118); -webkit-box-  
shadow:4px 4px 4px 4px rgb(0, 208, 118);  
box-shadow:4px 4px 4px 4px rgb(0, 208,  
118) }
```



# Background

The CSS property to change the background color of an element to Yxy 46.4198, 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, 208, 118) }
```

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

```
.background{ background-color: rgb(0, 208,  
118) }
```

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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