

# Converting Colors

$Y_{xy}(44.9587, 0.2563, 0.4428)$

Have a look what the booklet for  
Yxy(44.9587, 0.2563, 0.4428)  
contains.

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# Color

**Yxy(44.9633, 0.2563, 0.4426)**

# Conversions

## Conversions Part 1

Format	Color
Hex	00CC88
RGB	0, 204, 136
RGB Percent	0%, 80%, 53%
CMY	0.9990, 0.2000, 0.4668
CMYK	1.00, 0.00, 0.33, 0.20
HSL	160°, 100%, 40%
HSV	160°, 100%, 80%
XYZ	26.0373, 44.9633, 30.5885
YIQ	135.2520, -99.7560, -64.3960

# Conversions

## Conversions Part 2

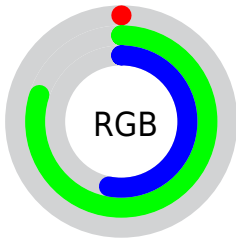
<b>Format</b>	<b>Color</b>
<b>RYB</b>	0, 122, 204
Decimal	52360
CIELab	72.87, -58.32, 22.23
CIELCh	73, 62.415, 159.132
Yxy	44.9633, 0.2563, 0.4426
Android (android.graphics.Color)	4278242440 (0xFF00CC88)
YUV	135.2520, 0.3688, -118.6160
Hunter-Lab	67.0547, -48.0343, 19.8918

# Details

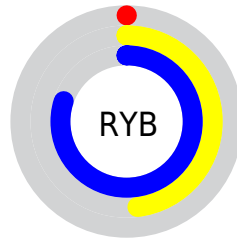
The Yxy color **44.9633, 0.2563, 0.4426** is a dark color, and the websafe version is hex **00CC99**. The color can be described as dark washed spring green. A complement of this color would be **13.2636, 0.5652, 0.2888**, and the grayscale version is **24.3810, 0.3127, 0.3290**.

A 20% lighter version of the original color is **78.0625, 0.2664, 0.4115**, and **21.8517, 0.2639, 0.4700** is the 20% darker color. If you saturate the color by 10%, you get **44.9612, 0.2563, 0.4428**, and if you desaturate by 10%, it is **45.3189, 0.2546, 0.4300**.

# Distribution



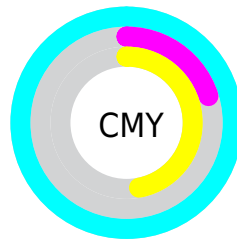
- Red (0%)
- Green (80%)
- Blue (53%)



- Red (0%)
- Yellow (48%)
- Blue (80%)



- Cyan (100%)
- Magenta (0%)
- Yellow (33%)
- Black (20%)




- Cyan (100%)
- Magenta (20%)
- Yellow (47%)

# Brightness & Saturation Gradients

These gradients show how the Yxy color 44.9633, 0.2563, 0.4426 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 44.9633, 0.2563, 0.4426 by changing the saturation by 10% instead.




 44.9633, 0.2563,  
0.4426


 44.9633, 0.2563,  
0.4426


366.6249, 0.2865,  
0.3816


 31.4285, 0.2482,  
0.4592


 82.6653, 0.2677,  
0.4194

 20.9254, 0.2373,  
0.4813


 107.6014, 0.2719,  
0.4110

 13.0695, 0.2223,  
0.5121


 137.1066, 0.2753,  
0.4040

 7.4764, 0.2004,  
0.5575

 171.5655, 0.2782,  
0.3981

 3.7618, 0.1658,  
0.6296

 211.3624, 0.2807,  
0.3931

 1.5412, 0.0000,  
1.0000

256.8816, 0.2829,

 0.3175, 0.0000,

0.3887

1.0000

308.5077, 0.2848,  
0.3849

■ 0.0000, 0.0000,  
0.0000

■ 44.9633, 0.2563,  
0.4426

■ 44.9633, 0.2563,  
0.4426

■ 44.9612, 0.2563,  
0.4428

■ 45.3189, 0.2546,  
0.4300

■ 45.8480, 0.2546,  
0.4172

■ 46.6070, 0.2566,  
0.4044

■ 47.6257, 0.2606,  
0.3917

■ 48.9291, 0.2664,  
0.3794

■ 50.5394, 0.2738,  
0.3677

■ 52.4763, 0.2824,  
0.3567

■ 54.7581, 0.2920,  
0.3465

■ 57.4016, 0.3022,  
0.3373

# Harmonies

## Analogous

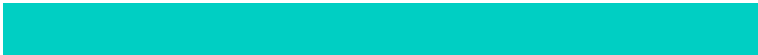
The Analogous color harmony consists of three colors that are next to each other on the color wheel.



44.9633, 0.3373, 0.4914



44.9633, 0.2563, 0.4426



44.9633, 0.1953, 0.3478

# Triad

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



44.9633, 0.2563, 0.4426



44.9633, 0.2041, 0.1989



44.9633, 0.4843, 0.3565

# Complementary

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



44.9633, 0.2563, 0.4426



13.2636, 0.5652, 0.2888

# 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.



44.9633, 0.4402, 0.2960



44.9633, 0.2563, 0.4426



44.9633, 0.2680, 0.2102

# Square

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



44.9633, 0.2563, 0.4426



44.9633, 0.1705, 0.2146



44.9633, 0.3556, 0.2446



44.9633, 0.4721, 0.4194



# Rectangle

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



44.9633, 0.2563, 0.4426



44.9633, 0.1727, 0.2879



44.9633, 0.3556, 0.2446



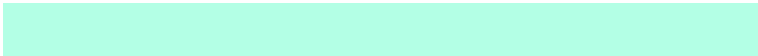
44.9633, 0.4758, 0.3358

# Sweetspot

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



44.9651, 0.2563, 0.4426



86.7271, 0.2819, 0.3572



44.5480, 0.3184, 0.5853



18.2579, 0.2781, 0.3619



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.



44.9651, 0.2563, 0.4426



74.4171, 0.2568, 0.4443



34.4168, 0.2112, 0.2804



12.6609, 0.3027, 0.3369



28.3164, 0.2558, 0.4410



1.4745, 0.2490, 0.4164



# Inverse Universe

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



13.2636, 0.5652, 0.2888



21.9180, 0.5688, 0.2907



13.8081, 0.6264, 0.3407



11.2744, 0.3238, 0.3213



8.3591, 0.5619, 0.2869

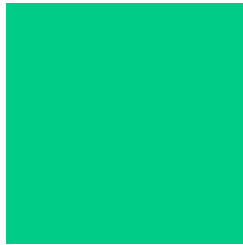


0.4453, 0.5063, 0.2563



# Previews

## White Background



This preview shows how the Yxy color 44.9633, 0.2563, 0.4426 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 44.9633, 0.2563, 0.4426 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

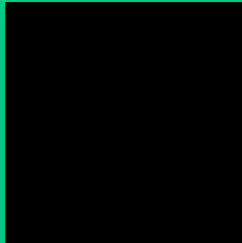
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**Yxy 44.9633, 0.2563, 0.4426**

## **Background**



This preview shows how black text looks on a background with the Yxy color 44.9633, 0.2563, 0.4426.

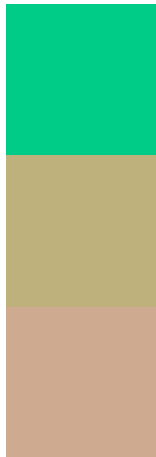


This preview shows how white text looks on a background with the Yxy color 44.9633, 0.2563, 0.4426.

# 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

44.9633, 0.2563, 0.4426

### Protanopia

43.9759, 0.3706, 0.3990

### Deuteranopia

43.8849, 0.3700, 0.3620



## Tritanopia

45.0730, 0.2297, 0.3056

# Trichromacy



## Original Color

44.9633, 0.2563, 0.4426



## Protanomaly

41.2367, 0.3038, 0.4219



## Deuteranomaly

40.2043, 0.3016, 0.3925



## Tritanomaly

44.4067, 0.2363, 0.3506

# Monochromacy



## Original Color

44.9633, 0.2563, 0.4426



## Achromatopsia

24.2281, 0.3127, 0.3290



## Achromatomaly

28.8693, 0.2697, 0.3747

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 44.9633, 0.2563, 0.4426 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, 204, 136)` looks like.

```
.text, #text, p{  
    color:rgb(0, 204, 136)  
}
```

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, 204, 136) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(0, 204, 136) }
```

## Border

The CSS property to change the border of an element to Yxy 44.9633, 0.2563, 0.4426 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, 204, 136) }
```

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

```
.border{ border-color:rgb(0, 204, 136) }
```

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

Here you see how a box with a 4 pixel rgb(0, 204, 136) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(0, 204, 136); -webkit-box-  
shadow:4px 4px 4px 4px rgb(0, 204, 136);  
box-shadow:4px 4px 4px 4px rgb(0, 204,  
136) }
```



# Background

The CSS property to change the background color of an element to Yxy 44.9633, 0.2563, 0.4426 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(0, 204, 136) }
```

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

```
.background{ background-color: rgb(0, 204,  
136) }
```

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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