

# Converting Colors

$Y_{xy}(41.3889, 0.2284, 0.3969)$

Have a look what the booklet for  
Yxy(41.3889, 0.2284, 0.3969)  
contains.

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# Color

**Yxy(42.8568, 0.2431, 0.3952)**

# Conversions

## Conversions Part 1

Format	Color
Hex	00C69E
RGB	0, 198, 158
RGB Percent	0%, 78%, 62%
CMY	1.0000, 0.2235, 0.3804
CMYK	1.00, 0.00, 0.20, 0.22
HSL	168°, 100%, 39%
HSV	168°, 100%, 78%
XYZ	26.3626, 42.8568, 39.2239
YIQ	134.2380, -105.1680, -54.4160

# Conversions

## Conversions Part 2

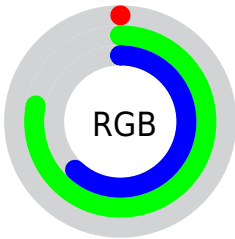
<b>Format</b>	<b>Color</b>
<b>RYB</b>	0, 110, 198
Decimal	50846
CIELab	71.46, -50.90, 8.48
CIELCh	71, 51.598, 170.539
Yxy	42.8568, 0.2431, 0.3952
Android (android.graphics.Color)	4278240926 (0xFF00C69E)
YUV	134.2380, 11.7147, -117.7267
Hunter-Lab	65.4651, -42.6826, 10.3015

# Details

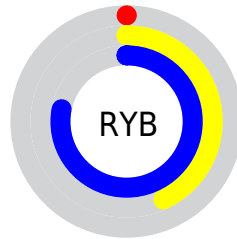
The Yxy color **42.8568, 0.2431, 0.3952** is a dark color, and the websafe version is hex **33CC99**. The color can be described as dark washed spring green. A complement of this color would be **12.1601, 0.6079, 0.3123**, and the grayscale version is **23.9183, 0.3127, 0.3290**.

A 20% lighter version of the original color is **79.0908, 0.2559, 0.3809**, and **20.7065, 0.2474, 0.4106** is the 20% darker color. If you saturate the color by 10%, you get **42.8597, 0.2431, 0.3952**, and if you desaturate by 10%, it is **43.1464, 0.2427, 0.3879**.

# Distribution



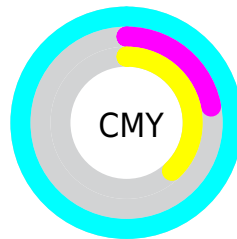
- Red (0%)
- Green (78%)
- Blue (62%)



- Red (0%)
- Yellow (43%)
- Blue (78%)



- Cyan (100%)
- Magenta (0%)
- Yellow (20%)
- Black (22%)



- Cyan (100%)
- Magenta (22%)
- Yellow (38%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 42.8568, 0.2431, 0.3952 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 42.8568, 0.2431, 0.3952 by changing the saturation by 10% instead.




 42.8568, 0.2431,  
0.3952

 42.8568, 0.2431,  
0.3952


358.0225, 0.2787,  
0.3605


 29.7728, 0.2340,  
0.4044


 79.4947, 0.2562,  
0.3822


 19.6662, 0.2222,  
0.4165


 103.8174, 0.2611,  
0.3775


 12.1526, 0.2064,  
0.4331


 132.6551, 0.2652,  
0.3735

 6.8477, 0.1842,  
0.4572

 166.3922, 0.2687,  
0.3701

 3.3670, 0.1512,  
0.4953

 205.4131, 0.2717,  
0.3672

 1.3262, 0.0000,  
0.6273

250.1022, 0.2743,

 0.1614, 0.0000,

0.3647

1.0000

300.8439, 0.2767,  
0.3625

■ 0.0000, 0.0000,  
0.0000

■ 42.8568, 0.2431,  
0.3952

■ 42.8568, 0.2431,  
0.3952

■ 42.8597, 0.2431,  
0.3952

■ 43.1464, 0.2427,  
0.3879

■ 43.5876, 0.2439,  
0.3806

■ 44.2357, 0.2470,  
0.3732

■ 45.1183, 0.2520,  
0.3659

■ 46.2587, 0.2589,  
0.3588

■ 47.6770, 0.2674,  
0.3520

■ 49.3918, 0.2773,  
0.3456

■ 51.4197, 0.2884,  
0.3396

■ 53.7763, 0.3003,  
0.3340

# Harmonies

## Analogous

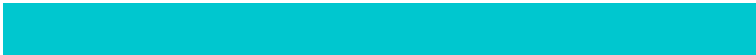
The Analogous color harmony consists of three colors that are next to each other on the color wheel.



42.8568, 0.3088, 0.4542



42.8568, 0.2431, 0.3952



42.8568, 0.1993, 0.3165

# Triad

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



42.8568, 0.2431, 0.3952



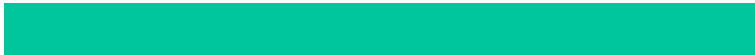
42.8568, 0.2378, 0.2174



42.8568, 0.4599, 0.3767

# Complementary

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



42.8568, 0.2431, 0.3952



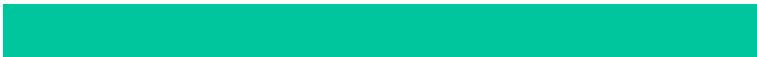
12.1601, 0.6079, 0.3123

# 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.



42.8568, 0.4393, 0.3219



42.8568, 0.2431, 0.3952



42.8568, 0.3023, 0.2353

# Square

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



42.8568, 0.2431, 0.3952



42.8568, 0.1976, 0.2226



42.8568, 0.3784, 0.2723



42.8568, 0.4356, 0.4287



# Rectangle

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



42.8568, 0.2431, 0.3952



42.8568, 0.1862, 0.2723



42.8568, 0.3784, 0.2723



42.8568, 0.4583, 0.3583

# Sweetspot

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



42.8597, 0.2431, 0.3952



87.3081, 0.2769, 0.3458



40.9030, 0.3077, 0.5939



18.3975, 0.2725, 0.3486



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.



42.8597, 0.2431, 0.3952



75.8538, 0.2434, 0.3963



23.3954, 0.1982, 0.2336



12.0294, 0.3010, 0.3337



27.8829, 0.2428, 0.3942



1.3298, 0.2386, 0.3790



# Inverse Universe

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



12.1601, 0.6079, 0.3123



21.5038, 0.6110, 0.3140



14.8450, 0.6010, 0.3610



10.6714, 0.3258, 0.3244



7.9174, 0.6049, 0.3106

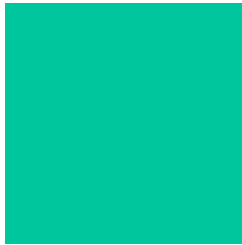


0.3855, 0.5468, 0.2786



# Previews

## White Background



This preview shows how the Yxy color 42.8568, 0.2431, 0.3952 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 42.8568, 0.2431, 0.3952 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

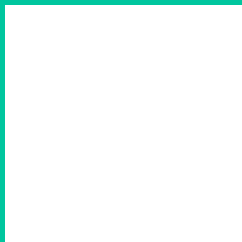
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**Yxy 42.8568, 0.2431, 0.3952**

## **Background**



This preview shows how black text looks on a background with the Yxy color 42.8568, 0.2431, 0.3952.

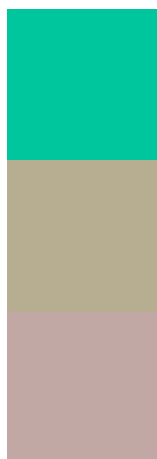


This preview shows how white text looks on a background with the Yxy color 42.8568, 0.2431, 0.3952.

# 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

42.8568, 0.2431, 0.3952

### Protanopia

41.9988, 0.3460, 0.3672

### Deuteranopia

42.1912, 0.3397, 0.3330



## Tritanopia

42.7273, 0.2267, 0.3050

# Trichromacy



## Original Color

42.8568, 0.2431, 0.3952



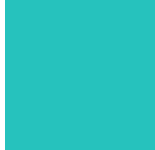
## Protanomaly

39.3709, 0.2838, 0.3796



## Deuteranomaly

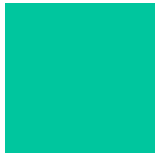
39.0598, 0.2802, 0.3552



## Tritanomaly

42.6698, 0.2309, 0.3366

# Monochromacy



## Original Color

42.8568, 0.2431, 0.3952



## Achromatopsia

23.8398, 0.3127, 0.3290



## Achromatomaly

28.0284, 0.2625, 0.3544

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 42.8568, 0.2431, 0.3952 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, 198, 158)` looks like.

```
.text, #text, p{  
    color:rgb(0, 198, 158)  
}
```

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, 198, 158) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(0, 198, 158) }
```

## Border

The CSS property to change the border of an element to Yxy 42.8568, 0.2431, 0.3952 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, 198, 158) }
```

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

```
.border{ border-color:rgb(0, 198, 158) }
```

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

Here you see how a box with a 4 pixel `rgb(0, 198, 158)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(0, 198, 158); -webkit-box-  
shadow:4px 4px 4px 4px rgb(0, 198, 158);  
box-shadow:4px 4px 4px 4px rgb(0, 198,  
158) }
```



# Background

The CSS property to change the background color of an element to Yxy 42.8568, 0.2431, 0.3952 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(0, 198, 158) }
```

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

```
.background{ background-color: rgb(0, 198,  
158) }
```

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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