

# Converting Colors

$Y_{xy}(48.6961, 0.2394, 0.3817)$

Have a look what the booklet for  
Yxy(48.6961, 0.2394, 0.3817)  
contains.

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# Color

**Yxy(48.7025, 0.2394, 0.3817)**

# Conversions

## Conversions Part 1

Format	Color
Hex	01D1AF
RGB	1, 209, 175
RGB Percent	0%, 82%, 69%
CMY	0.9978, 0.1804, 0.3137
CMYK	1.00, 0.00, 0.16, 0.18
HSL	170°, 99%, 41%
HSV	170°, 100%, 82%
XYZ	30.5459, 48.7025, 48.3452
YIQ	142.9320, -113.0540, -54.6700

# Conversions

## Conversions Part 2

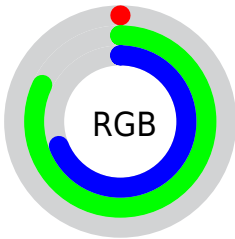
<b>Format</b>	<b>Color</b>
<b>RYB</b>	1, 114, 209
Decimal	119215
CIELab	75.27, -50.90, 4.78
CIELCh	75, 51.126, 174.640
Yxy	48.7025, 0.2394, 0.3817
Android (android.graphics.Color)	4278309295 (0xFF01D1AF)
YUV	142.9320, 15.8095, -124.4744
Hunter-Lab	69.7872, -43.9979, 7.7777

# Details

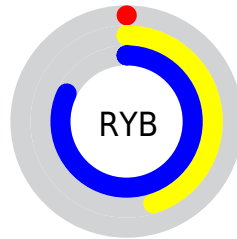
The Yxy color **48.7025, 0.2394, 0.3817** is a dark color, and the websafe version is hex **33CC99**. The color can be described as dark washed spring green. A complement of this color would be **13.6875, 0.6174, 0.3177**, and the grayscale version is **27.3547, 0.3127, 0.3290**.

A 20% lighter version of the original color is **80.2364, 0.2500, 0.3590**, and **24.2125, 0.2422, 0.3918** is the 20% darker color. If you saturate the color by 10%, you get **48.6973, 0.2394, 0.3819**, and if you desaturate by 10%, it is **49.0009, 0.2394, 0.3759**.

# Distribution



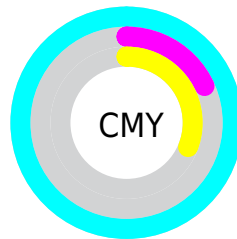
- Red (0%)
- Green (82%)
- Blue (69%)



- Red (0%)
- Yellow (45%)
- Blue (82%)



- Cyan (100%)
- Magenta (0%)
- Yellow (16%)
- Black (18%)




- Cyan (100%)
- Magenta (18%)
- Yellow (31%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 48.7025, 0.2394, 0.3817 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 48.7025, 0.2394, 0.3817 by changing the saturation by 10% instead.





 48.7025, 0.2394,  
0.3817


 48.7025, 0.2394,  
0.3817

381.5700, 0.2757,  
0.3551


 34.3835, 0.2305,  
0.3884


 88.2494, 0.2525,  
0.3720

 23.1884, 0.2191,  
0.3970

 114.2462, 0.2575,  
0.3683

 14.7327, 0.2043,  
0.4085


 144.9044, 0.2617,  
0.3653

 8.6320, 0.1840,  
0.4246

 180.6083, 0.2653,  
0.3626

 4.5019, 0.1551,  
0.4485

 221.7425, 0.2684,  
0.3604

 1.9581, 0.0924,  
0.4975

268.6912, 0.2712,

 0.5830, 0.0000,

0.3584

0.6596

321.8389, 0.2736,  
0.3566

■ 0.0000, 0.0000,  
0.0000

■ 48.7025, 0.2394,  
0.3817

■ 48.7025, 0.2394,  
0.3817

■ 48.6973, 0.2394,  
0.3819

■ 49.0009, 0.2394,  
0.3759

■ 49.4754, 0.2408,  
0.3701

■ 50.1833, 0.2442,  
0.3643

■ 51.1562, 0.2496,  
0.3585

■ 52.4203, 0.2568,  
0.3528

■ 53.9990, 0.2657,  
0.3474

■ 55.9131, 0.2761,  
0.3422

■ 58.1816, 0.2876,  
0.3374

■ 60.8222, 0.3000,  
0.3330

# Harmonies

## Analogous

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



48.7025, 0.3002, 0.4421



48.7025, 0.2394, 0.3817



48.7025, 0.2008, 0.3081

# Triad

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



48.7025, 0.2394, 0.3817



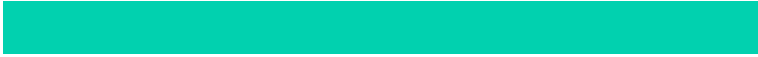
48.7025, 0.2486, 0.2232



48.7025, 0.4520, 0.3826

# Complementary

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



48.7025, 0.2394, 0.3817



13.6875, 0.6174, 0.3177

# 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.



48.7025, 0.4382, 0.3298



48.7025, 0.2394, 0.3817



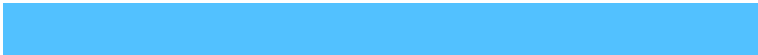
48.7025, 0.3127, 0.2432

# Square

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



48.7025, 0.2394, 0.3817



48.7025, 0.2063, 0.2252



48.7025, 0.3846, 0.2809



48.7025, 0.4243, 0.4305



# Rectangle

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



48.7025, 0.2394, 0.3817



48.7025, 0.1906, 0.2682



48.7025, 0.3846, 0.2809



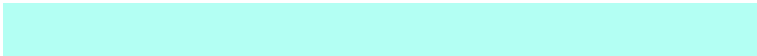
48.7025, 0.4523, 0.3650

# Sweetspot

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



48.7044, 0.2394, 0.3817



87.4862, 0.2754, 0.3425



45.9695, 0.3048, 0.5960



18.4405, 0.2708, 0.3447



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.



48.7044, 0.2394, 0.3817



76.3441, 0.2396, 0.3825



23.2247, 0.1933, 0.2155



13.3726, 0.3004, 0.3328



30.0345, 0.2392, 0.3810



1.6884, 0.2362, 0.3704



# Inverse Universe

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



13.6875, 0.6174, 0.3177



21.4244, 0.6201, 0.3190



17.9429, 0.5885, 0.3706



11.8393, 0.3265, 0.3252



8.4391, 0.6152, 0.3163

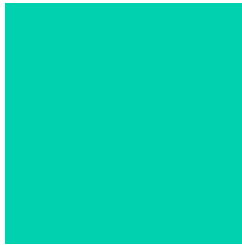


0.4819, 0.5683, 0.2904



# Previews

## White Background



This preview shows how the Yxy color 48.7025, 0.2394, 0.3817 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 48.7025, 0.2394, 0.3817 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

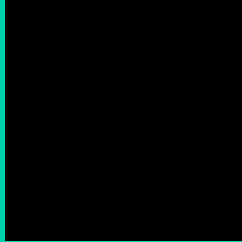
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

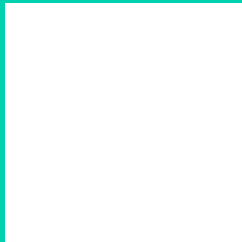
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**Yxy 48.7025, 0.2394, 0.3817**

## **Background**



This preview shows how black text looks on a background with the Yxy color 48.7025, 0.2394, 0.3817.

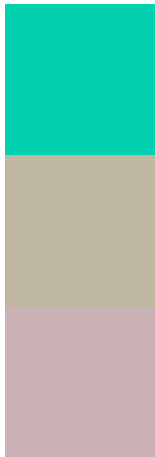


This preview shows how white text looks on a background with the Yxy color 48.7025, 0.2394, 0.3817.

# 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

48.7025, 0.2394, 0.3817

### Protanopia

47.6466, 0.3384, 0.3575

### Deuteranopia

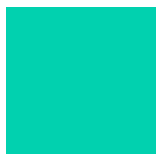
47.7747, 0.3305, 0.3241



## Tritanopia

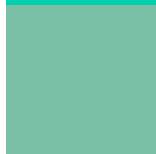
48.7870, 0.2260, 0.3062

# Trichromacy



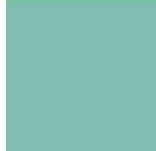
## Original Color

48.7025, 0.2394, 0.3817



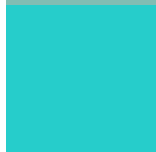
## Protanomaly

44.5900, 0.2784, 0.3677



## Deuteranomaly

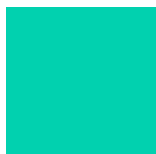
44.3170, 0.2742, 0.3434



## Tritanomaly

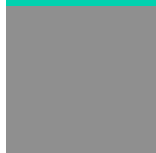
48.3865, 0.2290, 0.3317

# Monochromacy



## Original Color

48.7025, 0.2394, 0.3817



## Achromatopsia

27.4677, 0.3127, 0.3290



## Achromatomaly

32.2281, 0.2607, 0.3494

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 48.7025, 0.2394, 0.3817 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, 209, 175)` looks like.

```
.text, #text, p{  
    color:rgb(1, 209, 175)  
}
```

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, 209, 175) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(1, 209, 175) }
```

## Border

The CSS property to change the border of an element to Yxy 48.7025, 0.2394, 0.3817 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, 209, 175) }
```

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

```
.border{ border-color:rgb(1, 209, 175) }
```

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

Here you see how a box with a 4 pixel rgb(1, 209, 175) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(1, 209, 175); -webkit-box-  
shadow:4px 4px 4px 4px rgb(1, 209, 175);  
box-shadow:4px 4px 4px 4px rgb(1, 209,  
175) }
```



# Background

The CSS property to change the background color of an element to Yxy 48.7025, 0.2394, 0.3817 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(1, 209, 175) }
```

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

```
.background{ background-color: rgb(1, 209,  
175) }
```

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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