

# Converting Colors

$Y_{xy}(42.1875, 0.1871, 0.3190)$

Have a look what the booklet for  
Yxy(42.1875, 0.1871, 0.3190)  
contains.

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# Color

**Yxy(45.7648, 0.2222, 0.3198)**

# Conversions

## Conversions Part 1

Format	Color
Hex	00C8CE
RGB	0, 200, 206
RGB Percent	0%, 78%, 81%
CMY	0.9980, 0.2157, 0.1922
CMYK	1.00, 0.03, 0.00, 0.19
HSL	182°, 100%, 40%
HSV	182°, 100%, 81%
XYZ	31.7978, 45.7648, 65.5418
YIQ	140.8840, -121.1260, -40.5340

# Conversions

## Conversions Part 2

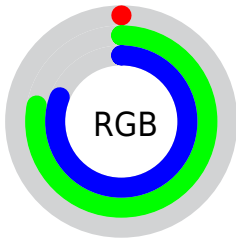
<b>Format</b>	<b>Color</b>
<b>RYB</b>	0, 101, 206
Decimal	51406
CIELab	73.39, -38.21, -14.74
CIELCh	73, 40.958, 201.098
Yxy	45.7648, 0.2222, 0.3198
Android (android.graphics.Color)	4278241486 (0xFF00C8CE)
YUV	140.8840, 32.1022, -123.5553
Hunter-Lab	67.6497, -34.4855, -10.0878

# Details

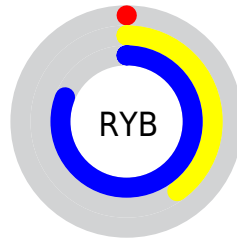
The Yxy color **45.7648, 0.2222, 0.3198** is a dark color, and the websafe version is hex **00CCCC**. The color can be described as middle washed cyan. A complement of this color would be **13.2621, 0.6379, 0.3314**, and the grayscale version is **26.5562, 0.3127, 0.3290**.

A 20% lighter version of the original color is **81.8042, 0.2402, 0.3288**, and **22.5178, 0.2208, 0.3148** is the 20% darker color. If you saturate the color by 10%, you get **45.7565, 0.2222, 0.3198**, and if you desaturate by 10%, it is **46.2025, 0.2238, 0.3207**.

# Distribution



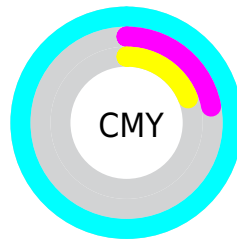
- Red (0%)
- Green (78%)
- Blue (81%)



- Red (0%)
- Yellow (40%)
- Blue (81%)



- Cyan (100%)
- Magenta (3%)
- Yellow (0%)
- Black (19%)



- Cyan (100%)
- Magenta (22%)
- Yellow (19%)

# Brightness & Saturation Gradients

These gradients show how the Yxy color 45.7648, 0.2222, 0.3198 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 45.7648, 0.2222, 0.3198 by changing the saturation by 10% instead.




 45.7648, 0.2222,  
0.3198

 45.7648, 0.2222,  
0.3198


369.8623, 0.2661,  
0.3259


 32.0603, 0.2118,  
0.3178


 83.8669, 0.2378,  
0.3223


 21.4075, 0.1987,  
0.3151


 109.0332, 0.2437,  
0.3232

 13.4222, 0.1820,  
0.3110


 138.7890, 0.2488,  
0.3239

 7.7199, 0.1599,  
0.3046

 173.5185, 0.2532,  
0.3244

 3.9163, 0.1299,  
0.2937

 213.6062, 0.2570,  
0.3249

 1.6268, 0.0806,  
0.2751

259.4364, 0.2604,

 0.3756, 0.0000,

0.3253

0.1979

311.3937, 0.2634,  
0.3256

■ 0.0000, 0.0000,  
0.0000

■ 45.7648, 0.2222,  
0.3198

■ 45.7648, 0.2222,  
0.3198

■ 45.7565, 0.2222,  
0.3198

■ 46.2025, 0.2238,  
0.3207

■ 46.8076, 0.2269,  
0.3217

■ 47.6364, 0.2318,  
0.3227

■ 48.7189, 0.2386,  
0.3237

■ 50.0806, 0.2473,  
0.3246

■ 51.7439, 0.2578,  
0.3256

■ 53.7290, 0.2698,  
0.3265

■ 56.0541, 0.2833,  
0.3274

■ 58.7363, 0.2978,  
0.3282

# Harmonies

## Analogous

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



45.7648, 0.2580, 0.3786



45.7648, 0.2222, 0.3198



45.7648, 0.2096, 0.2713

# Triad

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



45.7648, 0.2222, 0.3198



45.7648, 0.3065, 0.2540



45.7648, 0.4099, 0.4107

# Complementary

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



45.7648, 0.2222, 0.3198



13.2621, 0.6379, 0.3314

# 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.



45.7648, 0.4278, 0.3708



45.7648, 0.2222, 0.3198



45.7648, 0.3652, 0.2848

# Square

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



45.7648, 0.2222, 0.3198



45.7648, 0.2545, 0.2392



45.7648, 0.4115, 0.3260



45.7648, 0.3662, 0.4332



# Rectangle

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



45.7648, 0.2222, 0.3198



45.7648, 0.2145, 0.2507



45.7648, 0.4115, 0.3260



45.7648, 0.4193, 0.3986

# Sweetspot

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



45.7665, 0.2222, 0.3198



86.8496, 0.2691, 0.3265



44.1488, 0.2998, 0.5989



18.2845, 0.2638, 0.3261



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.



45.7665, 0.2222, 0.3198



74.0884, 0.2221, 0.3197



13.5386, 0.1755, 0.1514



12.6687, 0.2984, 0.3283



28.2051, 0.2222, 0.3199



1.4731, 0.2227, 0.3218



# Inverse Universe

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



17.3010, 0.3284, 0.1583



28.0104, 0.3285, 0.1583



23.5677, 0.5364, 0.4121



11.3979, 0.3142, 0.3068



10.6503, 0.3283, 0.1582

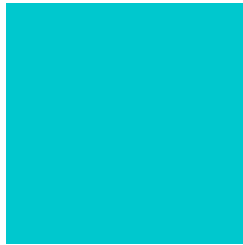


0.5513, 0.3267, 0.1574



# Previews

## White Background



This preview shows how the Yxy color 45.7648, 0.2222, 0.3198 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 45.7648, 0.2222, 0.3198 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

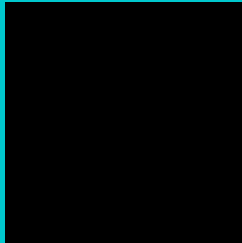
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

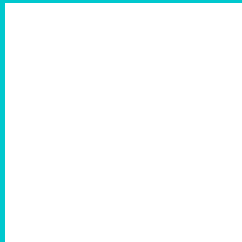
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**Yxy 45.7648, 0.2222, 0.3198**

## **Background**



This preview shows how black text looks on a background with the Yxy color 45.7648, 0.2222, 0.3198.

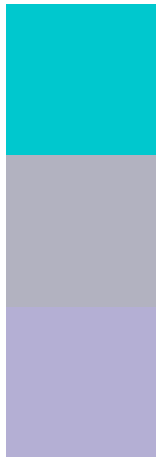


This preview shows how white text looks on a background with the Yxy color 45.7648, 0.2222, 0.3198.

# 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

45.7648, 0.2222, 0.3198

### Protanopia

45.1115, 0.3017, 0.3107

### Deuteranopia

45.1167, 0.2882, 0.2825



## Tritanopia

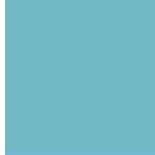
46.0292, 0.2205, 0.3055

# Trichromacy



## Original Color

45.7648, 0.2222, 0.3198



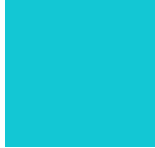
## Protanomaly

42.6597, 0.2526, 0.3129



## Deuteranomaly

42.5790, 0.2460, 0.2922



## Tritanomaly

45.7388, 0.2205, 0.3096

# Monochromacy



## Original Color

45.7648, 0.2222, 0.3198



## Achromatopsia

26.6356, 0.3127, 0.3290



## Achromatomaly

30.7309, 0.2521, 0.3237

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 45.7648, 0.2222, 0.3198 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, 200, 206)` looks like.

```
.text, #text, p{  
    color:rgb(0, 200, 206)  
}
```

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, 200, 206) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(0, 200, 206) }
```

## Border

The CSS property to change the border of an element to Yxy 45.7648, 0.2222, 0.3198 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, 200, 206) }
```

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

```
.border{ border-color:rgb(0, 200, 206) }
```

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

Here you see how a box with a 4 pixel `rgb(0, 200, 206)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(0, 200, 206); -webkit-box-  
shadow:4px 4px 4px 4px rgb(0, 200, 206);  
box-shadow:4px 4px 4px 4px rgb(0, 200,  
206) }
```



# Background

The CSS property to change the background color of an element to Yxy 45.7648, 0.2222, 0.3198 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(0, 200, 206) }
```

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

```
.background{ background-color: rgb(0, 200,  
206) }
```

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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