

# Converting Colors

$Y_{xy}(44.6814, 0.2274, 0.3278)$

Have a look what the booklet for  
Yxy(44.6814, 0.2274, 0.3278)  
contains.

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# Color

**Yxy(44.7887, 0.2276, 0.3287)**

# Conversions

## Conversions Part 1

Format	Color
Hex	21C6C6
RGB	33, 198, 198
RGB Percent	13%, 78%, 78%
CMY	0.8713, 0.2235, 0.2234
CMYK	0.83, 0.00, 0.00, 0.22
HSL	180°, 72%, 45%
HSV	180°, 83%, 78%
XYZ	31.0128, 44.7887, 60.4586
YIQ	148.6650, -98.3400, -34.9800

# Conversions

## Conversions Part 2

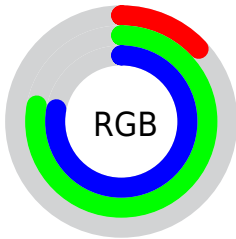
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	33, 116, 198
Decimal	2213574
CIE <sub>Lab</sub>	72.75, -38.33, -11.36
CIE <sub>LCh</sub>	73, 39.982, 196.512
Yxy	44.7887, 0.2276, 0.3287
Android (android.graphics.Color)	4280403654 (0xFF21C6C6)
YUV	148.6650, 24.3222, -101.4382
Hunter-Lab	66.9244, -34.4006, -6.7148

# Details

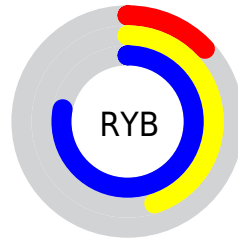
The Yxy color **44.7887, 0.2276, 0.3287** is a dark color, and the websafe version is hex **33CCCC**. The color can be described as middle muted cyan. A complement of this color would be **13.1986, 0.6026, 0.3299**, and the grayscale version is **29.8122, 0.3127, 0.3290**.

A 20% lighter version of the original color is **82.2507, 0.2423, 0.3288**, and **21.6585, 0.2241, 0.3267** is the 20% darker color. If you saturate the color by 10%, you get **44.5541, 0.2254, 0.3287**, and if you desaturate by 10%, it is **45.2183, 0.2315, 0.3287**.

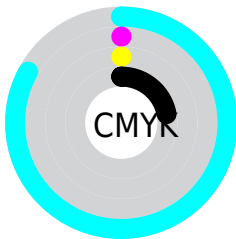
# Distribution



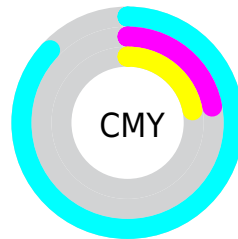
- Red (13%)
- Green (78%)
- Blue (78%)



- Red (13%)
- Yellow (45%)
- Blue (78%)



- Cyan (83%)
- Magenta (0%)
- Yellow (0%)
- Black (22%)



- Cyan (87%)
- Magenta (22%)
- Yellow (22%)

# Brightness & Saturation Gradients

These gradients show how the Yxy color 44.7887, 0.2276, 0.3287 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 44.7887, 0.2276, 0.3287 by changing the saturation by 10% instead.





 44.7887, 0.2276,  
0.3287


 44.7887, 0.2276,  
0.3287


365.9171, 0.2692,  
0.3301

 31.2910, 0.2176,  
0.3280


 82.4032, 0.2425,  
0.3295


 20.8206, 0.2050,  
0.3268


 107.2889, 0.2481,  
0.3297

 12.9929, 0.1887,  
0.3248

 136.7393, 0.2529,  
0.3299

 7.4237, 0.1669,  
0.3213

 171.1390, 0.2571,  
0.3300

 3.7284, 0.1368,  
0.3146

 210.8722, 0.2607,  
0.3300

 1.5228, 0.0811,  
0.3040

256.3233, 0.2639,

 0.3047, 0.0000,

0.3301

0.2116

307.8768, 0.2667,  
0.3301

■ 0.0000, 0.0000,  
0.0000

■ 44.7887, 0.2276,  
0.3287

■ 44.7887, 0.2276,  
0.3287

■ 44.5541, 0.2254,  
0.3287

■ 45.2183, 0.2315,  
0.3287

■ 44.4673, 0.2246,  
0.3287

■ 45.8674, 0.2372,  
0.3287

■ 46.7620, 0.2449,  
0.3288

■ 47.9234, 0.2544,  
0.3288

■ 49.3705, 0.2657,  
0.3288

■ 51.1205, 0.2784,  
0.3289

■ 53.1892, 0.2924,  
0.3289

■ 55.5915, 0.3074,  
0.3290

■ 58.3410, 0.3230,  
0.3290

# Harmonies

## Analogous

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



44.7887, 0.2660, 0.3860



44.7887, 0.2276, 0.3287



44.7887, 0.2115, 0.2783

# Triad

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



44.7887, 0.2276, 0.3287



44.7887, 0.2980, 0.2518



44.7887, 0.4130, 0.4043

# Complementary

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



44.7887, 0.2276, 0.3287



13.1986, 0.6026, 0.3299

# 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.



44.7887, 0.4257, 0.3636



44.7887, 0.2276, 0.3287



44.7887, 0.3558, 0.2800

# Square

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



44.7887, 0.2276, 0.3287



44.7887, 0.2490, 0.2400



44.7887, 0.4045, 0.3195



44.7887, 0.3732, 0.4298



# Rectangle

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



44.7887, 0.2276, 0.3287



44.7887, 0.2139, 0.2557



44.7887, 0.4045, 0.3195



44.7887, 0.4208, 0.3917

# Sweetspot

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



44.7904, 0.2276, 0.3287



89.8411, 0.2759, 0.3289



40.8344, 0.3008, 0.5823



18.9880, 0.2712, 0.3289



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.



44.7904, 0.2276, 0.3287



78.7094, 0.2246, 0.3287



16.7577, 0.1898, 0.1871



12.0672, 0.2984, 0.3290



28.9061, 0.2246, 0.3287



1.3688, 0.2246, 0.3287



# Inverse Universe

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



17.1657, 0.3206, 0.1617



28.4769, 0.3210, 0.1542



24.4781, 0.5059, 0.4162



10.8166, 0.3138, 0.3062



10.4581, 0.3210, 0.1542

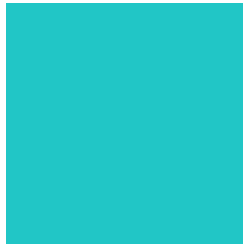


0.4952, 0.3210, 0.1542



# Previews

## White Background



This preview shows how the Yxy color 44.7887, 0.2276, 0.3287 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 44.7887, 0.2276, 0.3287 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

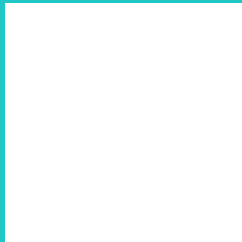
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**Yxy 44.7887, 0.2276, 0.3287**

## Background



This preview shows how black text looks on a background with the Yxy color 44.7887, 0.2276, 0.3287.

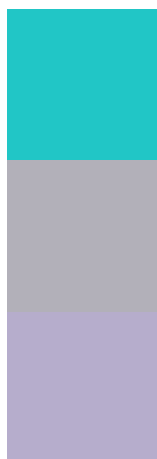


This preview shows how white text looks on a background with the Yxy color 44.7887, 0.2276, 0.3287.

# 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

44.7887, 0.2276, 0.3287

### Protanopia

44.0184, 0.3072, 0.3171

### Deuteranopia

44.1919, 0.2958, 0.2896



## Tritanopia

44.8377, 0.2233, 0.3053

# Trichromacy



## Original Color

44.7887, 0.2276, 0.3287



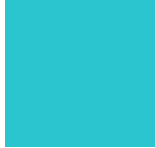
## Protanomaly

42.3587, 0.2637, 0.3202



## Deuteranomaly

42.3094, 0.2579, 0.3006



## Tritanomaly

44.9297, 0.2249, 0.3139

# Monochromacy



## Original Color

44.7887, 0.2276, 0.3287



## Achromatopsia

30.0544, 0.3127, 0.3290



## Achromatomaly

33.5533, 0.2632, 0.3289

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 44.7887, 0.2276, 0.3287 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(33, 198, 198)` looks like.

```
.text, #text, p{  
    color:rgb(33, 198, 198)  
}
```

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(33, 198, 198) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(33, 198, 198) }
```

## Border

The CSS property to change the border of an element to Yxy 44.7887, 0.2276, 0.3287 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(33, 198, 198) }
```

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

```
.border{ border-color:rgb(33, 198, 198) }
```

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

Here you see how a box with a 4 pixel rgb(33, 198, 198) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(33, 198, 198); -webkit-box-  
shadow:4px 4px 4px 4px rgb(33, 198, 198);  
box-shadow:4px 4px 4px 4px rgb(33, 198,  
198) }
```



# Background

The CSS property to change the background color of an element to Yxy 44.7887, 0.2276, 0.3287 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(33, 198, 198) }
```

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

```
.background{ background-color: rgb(33, 198,  
198) }
```

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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