

# Converting Colors

$Y_{xy}(48.3460, 0.2642, 0.3297)$

Have a look what the booklet for  
Yxy(48.3460, 0.2642, 0.3297)  
contains.

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# Color

**Yxy(48.5072, 0.2644, 0.3303)**

# Conversions

## Conversions Part 1

Format	Color
Hex	80C5C4
RGB	128, 197, 196
RGB Percent	50%, 77%, 77%
CMY	0.4980, 0.2274, 0.2315
CMYK	0.35, 0.00, 0.01, 0.23
HSL	179°, 37%, 64%
HSV	179°, 35%, 77%
XYZ	38.8293, 48.5072, 59.5216
YIQ	176.2550, -40.8030, -14.9390

# Conversions

## Conversions Part 2

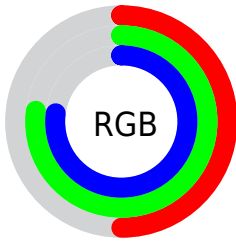
<b>Format</b>	<b>Color</b>
<b>RYB</b>	128, 163, 197
Decimal	8439236
CIELab	75.14, -21.86, -6.39
CIELCh	75, 22.772, 196.289
Yxy	48.5072, 0.2644, 0.3303
Android (android.graphics.Color)	4286629316 (0xFF80C5C4)
YUV	176.2550, 9.7343, -42.3196
Hunter-Lab	69.6471, -22.3661, -1.9172

# Details

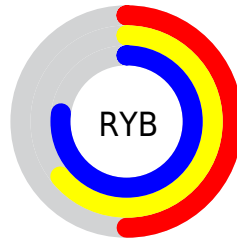
The Yxy color **48.5072, 0.2644, 0.3303** is a light color, and the websafe version is hex **99CCCC**. A complement of this color would be **28.8966, 0.3938, 0.3278**, and the grayscale version is **43.5205, 0.3127, 0.3290**.

A 20% lighter version of the original color is **88.0428, 0.2725, 0.3300**, and **23.0538, 0.2515, 0.3308** is the 20% darker color. If you saturate the color by 10%, you get **47.1134, 0.2535, 0.3307**, and if you desaturate by 10%, it is **50.2015, 0.2768, 0.3299**.

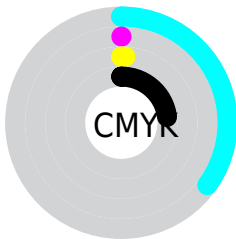
# Distribution



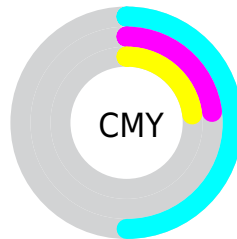
- Red (50%)
- Green (77%)
- Blue (77%)



- Red (50%)
- Yellow (64%)
- Blue (77%)



- Cyan (35%)
- Magenta (0%)
- Yellow (1%)
- Black (23%)



- Cyan (50%)
- Magenta (23%)
- Yellow (23%)

# Brightness & Saturation Gradients

These gradients show how the Yxy color 48.5072, 0.2644, 0.3303 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 48.5072, 0.2644, 0.3303 by changing the saturation by 10% instead.





 48.5072, 0.2644,  
0.3303


 48.5072, 0.2644,  
0.3303

380.7990, 0.2881,  
0.3300


 34.2287, 0.2586,  
0.3302


 87.9591, 0.2729,  
0.3303

 23.0694, 0.2513,  
0.3301


 113.9013, 0.2761,  
0.3303

 14.6447, 0.2418,  
0.3298


 144.5002, 0.2789,  
0.3302

 8.5704, 0.2287,  
0.3292

180.1402, 0.2812,  
0.3302

 4.4621, 0.2100,  
0.3278

221.2057, 0.2833,  
0.3302

 1.9353, 0.1809,  
0.3243

268.0811, 0.2851,

 0.5694, 0.0046,

0.3301

321.1507, 0.2867,  
0.3301

0.3457

0.0000, 0.0000,  
0.0000

48.5072, 0.2644,  
0.3303

48.5072, 0.2644,  
0.3303

47.1134, 0.2535,  
0.3307

50.2015, 0.2768,  
0.3299

45.9969, 0.2444,  
0.3312

52.2064, 0.2905,  
0.3295

45.1409, 0.2371,  
0.3317


54.5384, 0.3051,  
0.3292


44.5239, 0.2318,  
0.3321

57.2113, 0.3204,  
0.3289

44.1211, 0.2283,  
0.3326

60.2383, 0.3361,  
0.3286


 43.9024, 0.2265,  
0.3331

 63.6315, 0.3520,  
0.3283

 43.8326, 0.2259,  
0.3333

 65.2747, 0.3589,  
0.3281

 65.2884, 0.3586,  
0.3278

 65.3021, 0.3584,  
0.3275

# Harmonies

## Analogous

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



48.5072, 0.2874, 0.3598



48.5072, 0.2644, 0.3303



48.5072, 0.2541, 0.3022

# Triad

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



48.5072, 0.2644, 0.3303



48.5072, 0.3050, 0.2837



48.5072, 0.3694, 0.3730

# Complementary

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



48.5072, 0.2644, 0.3303



28.8966, 0.3938, 0.3278

# 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.



48.5072, 0.3751, 0.3508



48.5072, 0.2644, 0.3303



48.5072, 0.3369, 0.3007

# Square

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



48.5072, 0.2644, 0.3303



48.5072, 0.2766, 0.2772



48.5072, 0.3631, 0.3247



48.5072, 0.3481, 0.3847



# Rectangle

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



48.5072, 0.2644, 0.3303



48.5072, 0.2554, 0.2884



48.5072, 0.3631, 0.3247



48.5072, 0.3732, 0.3664

# Sweetspot

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



48.5091, 0.2644, 0.3303



95.0356, 0.2960, 0.3294



46.1733, 0.3087, 0.4327



20.2217, 0.2940, 0.3294



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.



48.5091, 0.2644, 0.3303



84.9233, 0.2560, 0.3306



35.0487, 0.2573, 0.2801



12.0647, 0.2986, 0.3293



28.8297, 0.2259, 0.3333



1.3660, 0.2256, 0.3323



# Inverse Universe

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



28.8966, 0.3938, 0.3278



44.5947, 0.4208, 0.3276



39.0439, 0.3797, 0.3731



10.6395, 0.3287, 0.3287



7.8130, 0.6382, 0.3290

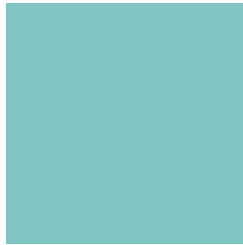


0.3709, 0.6316, 0.3253



# Previews

## White Background



This preview shows how the Yxy color 48.5072, 0.2644, 0.3303 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

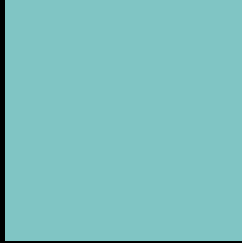
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 48.5072, 0.2644, 0.3303 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

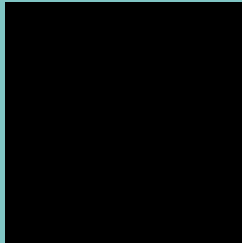
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

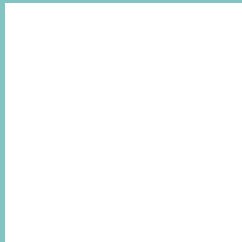
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**Yxy 48.5072, 0.2644, 0.3303**

## Background



This preview shows how black text looks on a background with the Yxy color 48.5072, 0.2644, 0.3303.

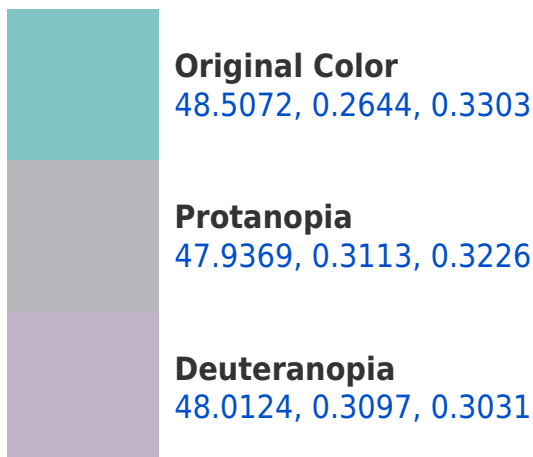


This preview shows how white text looks on a background with the Yxy color 48.5072, 0.2644, 0.3303.

# 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





## Tritanopia

48.5889, 0.2582, 0.3086

# Trichromacy



**Original Color**

48.5072, 0.2644, 0.3303

**Protanomaly**

47.7274, 0.2921, 0.3250

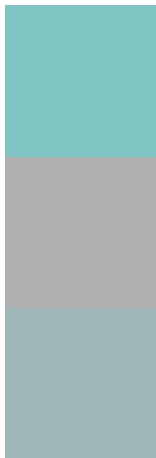
**Deuteranomaly**

47.8993, 0.2910, 0.3121

**Tritanomaly**

48.7129, 0.2607, 0.3166

# Monochromacy



**Original Color**

48.5072, 0.2644, 0.3303

**Achromatopsia**

43.4154, 0.3127, 0.3290

**Achromatomaly**

45.0708, 0.2930, 0.3303

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 48.5072, 0.2644, 0.3303 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(128, 197, 196)` looks like.

```
.text, #text, p{  
    color:rgb(128, 197, 196)  
}
```

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(128, 197, 196) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(128, 197, 196) }
```

## Border

The CSS property to change the border of an element to Yxy 48.5072, 0.2644, 0.3303 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(128, 197, 196) }
```

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

```
.border{ border-color:rgb(128, 197, 196) }
```

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

Here you see how a box with a 4 pixel `rgb(128, 197, 196)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(128, 197, 196); -webkit-box-  
shadow:4px 4px 4px 4px rgb(128, 197, 196);  
box-shadow:4px 4px 4px 4px rgb(128, 197,  
196) }
```



# Background

The CSS property to change the background color of an element to Yxy 48.5072, 0.2644, 0.3303 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(128, 197, 196) }
```

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

```
.background{ background-color: rgb(128,  
197, 196) }
```

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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