

# Converting Colors

$Yxy(48.9071, 0.2430, 0.3406)$

Have a look what the booklet for  
Yxy(48.9071, 0.2430, 0.3406)  
contains.

<b>Yxy(48.8767, 0.2429, 0.3405)</b> .....	3
<b>Conversions</b> .....	4
<b>Details</b> .....	6
<b>Harmonies</b> .....	12
<b>Previews</b> .....	24
<b>Color Blindness Simulation</b> .....	27
<b>CSS Examples</b> .....	30

# Color

**Yxy(48.8767, 0.2429, 0.3405)**

# Conversions

## Conversions Part 1

Format	Color
Hex	50CCC4
RGB	80, 204, 196
RGB Percent	31%, 80%, 77%
CMY	0.6859, 0.2000, 0.2315
CMYK	0.61, 0.00, 0.04, 0.20
HSL	176°, 55%, 56%
HSV	176°, 61%, 80%
XYZ	34.8668, 48.8767, 59.8004
YIQ	166.0120, -71.3360, -28.7760

# Conversions

## Conversions Part 2

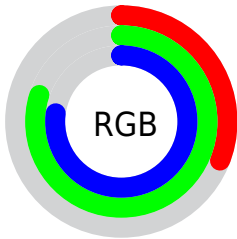
Format	Color
<a href="#">RYB</a>	80, 144, 204
Decimal	5295300
CIELab	75.37, -35.93, -6.24
CIELCh	75, 36.467, 189.859
Yxy	48.8767, 0.2429, 0.3405
Android (android.graphics.Color)	4283485380 (0xFF50CCC4)
YUV	166.0120, 14.7841, -75.4325
Hunter-Lab	69.9119, -33.3233, -1.7765

# Details

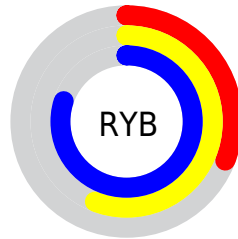
The Yxy color **48.8767, 0.2429, 0.3405** is a light color, and the websafe version is hex **33CCCC**. The color can be described as light muted cyan. A complement of this color would be **19.2938, 0.4902, 0.3202**, and the grayscale version is **38.1030, 0.3127, 0.3290**.

A 20% lighter version of the original color is **84.3626, 0.2537, 0.3311**, and **23.4479, 0.2286, 0.3430** is the 20% darker color. If you saturate the color by 10%, you get **48.0603, 0.2371, 0.3427**, and if you desaturate by 10%, it is **49.9670, 0.2506, 0.3384**.

# Distribution



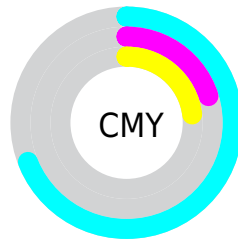
- Red (31%)
- Green (80%)
- Blue (77%)



- Red (31%)
- Yellow (56%)
- Blue (80%)



- Cyan (61%)
- Magenta (0%)
- Yellow (4%)
- Black (20%)




- Cyan (69%)
- Magenta (20%)
- Yellow (23%)

# Brightness & Saturation Gradients

These gradients show how the Yxy color 48.8767, 0.2429, 0.3405 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 48.8767, 0.2429, 0.3405 by changing the saturation by 10% instead.




 48.8767, 0.2429,  
0.3405


 48.8767, 0.2429,  
0.3405


382.2567, 0.2769,  
0.3355


 34.5217, 0.2347,  
0.3415


 88.5083, 0.2550,  
0.3388


 23.2947, 0.2244,  
0.3427


 114.5537, 0.2596,  
0.3382

 14.8112, 0.2110,  
0.3440


 145.2646, 0.2636,  
0.3376

 8.6870, 0.1931,  
0.3455

 181.0255, 0.2670,  
0.3371

 4.5376, 0.1678,  
0.3467

222.2208, 0.2699,  
0.3366

 1.9786, 0.1297,  
0.3466

269.2348, 0.2725,

 0.5950, 0.0000,

0.3362

0.3532

322.4520, 0.2748,  
0.3358

0.0000, 0.0000,  
0.0000

48.8767, 0.2429,  
0.3405

48.8767, 0.2429,  
0.3405

48.0603, 0.2371,  
0.3427

49.9670, 0.2506,  
0.3384

47.4869, 0.2331,  
0.3448

51.3476, 0.2602,  
0.3363

47.1284, 0.2310,  
0.3470

53.0402, 0.2713,  
0.3343

46.9370, 0.2303,  
0.3490

55.0630, 0.2838,  
0.3324

57.4326, 0.2973,  
0.3307

■ 60.1646, 0.3116,  
0.3291

■ 63.2737, 0.3264,  
0.3277

■ 66.7737, 0.3415,  
0.3264

■ 68.9929, 0.3497,  
0.3251

# Harmonies

## Analogous

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



48.8767, 0.2813, 0.3888



48.8767, 0.2429, 0.3405



48.8767, 0.2234, 0.2932

# Triad

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



48.8767, 0.2429, 0.3405



48.8767, 0.2891, 0.2559



48.8767, 0.4069, 0.3897

# Complementary

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



48.8767, 0.2429, 0.3405



19.2938, 0.4902, 0.3202

# 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.



48.8767, 0.4112, 0.3521



48.8767, 0.2429, 0.3405



48.8767, 0.3399, 0.2785

# Square

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



48.8767, 0.2429, 0.3405



48.8767, 0.2483, 0.2492



48.8767, 0.3860, 0.3126



48.8767, 0.3764, 0.4155



# Rectangle

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



48.8767, 0.2429, 0.3405



48.8767, 0.2223, 0.2698



48.8767, 0.3860, 0.3126



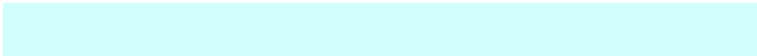
48.8767, 0.4116, 0.3779

# Sweetspot

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



48.8786, 0.2429, 0.3405



92.1197, 0.2871, 0.3320



45.8575, 0.3080, 0.5212



19.4844, 0.2832, 0.3325



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.



48.8786, 0.2429, 0.3405



79.2468, 0.2356, 0.3434



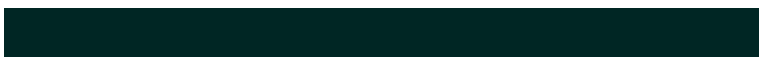
27.9785, 0.2201, 0.2447



12.7140, 0.2992, 0.3305



29.5484, 0.2302, 0.3487



1.5282, 0.2290, 0.3445



# Inverse Universe

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



19.2938, 0.4902, 0.3202



26.0906, 0.5511, 0.3206



30.4077, 0.4532, 0.3954



11.2253, 0.3280, 0.3275



8.1036, 0.6323, 0.3257

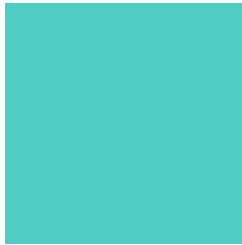


0.4223, 0.6073, 0.3119



# Previews

## White Background



This preview shows how the Yxy color 48.8767, 0.2429, 0.3405 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 48.8767, 0.2429, 0.3405 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

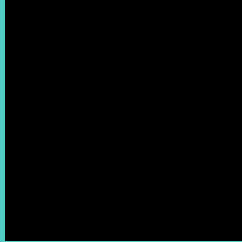
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

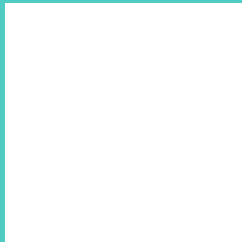
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**Yxy 48.8767, 0.2429, 0.3405**

## **Background**



This preview shows how black text looks on a background with the Yxy color 48.8767, 0.2429, 0.3405.

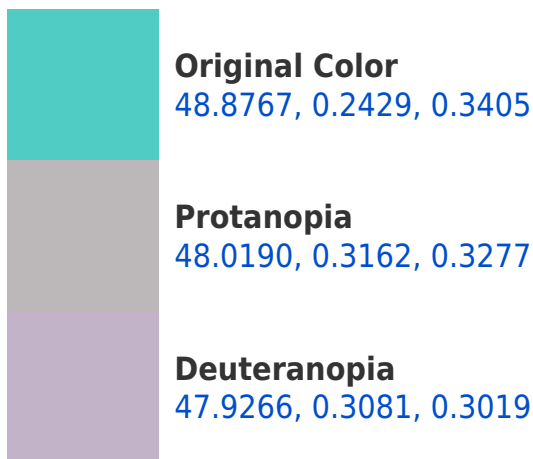


This preview shows how white text looks on a background with the Yxy color 48.8767, 0.2429, 0.3405.

# 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

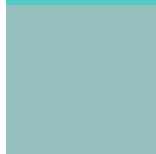
48.9069, 0.2352, 0.3065

# Trichromacy



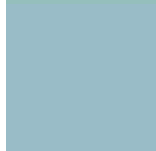
## Original Color

48.8767, 0.2429, 0.3405



## Protanomaly

47.2820, 0.2825, 0.3330



## Deuteranomaly

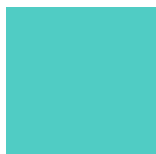
46.8623, 0.2777, 0.3141



## Tritanomaly

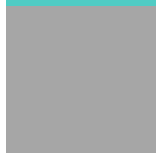
48.8229, 0.2382, 0.3189

# Monochromacy



## Original Color

48.8767, 0.2429, 0.3405



## Achromatopsia

38.1326, 0.3127, 0.3290



## Achromatomaly

40.9677, 0.2786, 0.3333

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 48.8767, 0.2429, 0.3405 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(80, 204, 196)` looks like.

```
.text, #text, p{  
    color:rgb(80, 204, 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(80, 204, 196) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(80, 204, 196) }
```

## Border

The CSS property to change the border of an element to Yxy 48.8767, 0.2429, 0.3405 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(80, 204, 196) }
```

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

```
.border{ border-color:rgb(80, 204, 196) }
```

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

Here you see how a box with a 4 pixel `rgb(80, 204, 196)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(80, 204, 196); -webkit-box-  
shadow:4px 4px 4px 4px rgb(80, 204, 196);  
box-shadow:4px 4px 4px 4px rgb(80, 204,  
196) }
```



# Background

The CSS property to change the background color of an element to Yxy 48.8767, 0.2429, 0.3405 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(80, 204, 196) }
```

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

```
.background{ background-color: rgb(80, 204,  
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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