

# Converting Colors

$Y_{xy}(48.7832, 0.2453, 0.3462)$

Have a look what the booklet for  
Yxy(48.7832, 0.2453, 0.3462)  
contains.

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# Color

**Yxy(48.7408, 0.2452, 0.3464)**

# Conversions

## Conversions Part 1

Format	Color
Hex	51CCC0
RGB	81, 204, 192
RGB Percent	32%, 80%, 75%
CMY	0.6823, 0.2000, 0.2470
CMYK	0.60, 0.00, 0.06, 0.20
HSL	174°, 55%, 56%
HSV	174°, 60%, 80%
XYZ	34.5013, 48.7408, 57.4646
YIQ	165.8550, -69.4560, -29.8080

# Conversions

## Conversions Part 2

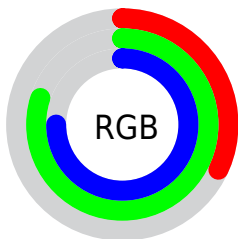
Format	Color
<a href="#">RYB</a>	<a href="#">81, 146, 204</a>
Decimal	<a href="#">5360832</a>
CIELab	<a href="#">75.29, -36.82, -4.23</a>
CIELCh	<a href="#">75, 37.061, 186.553</a>
Yxy	<a href="#">48.7408, 0.2452, 0.3464</a>
Android (android.graphics.Color)	<a href="#">4283550912</a> ( <a href="#">0xFF51CCC0</a> )
YUV	<a href="#">165.8550, 12.8895, -74.4178</a>
Hunter-Lab	<a href="#">69.8146, -33.9637, 0.0685</a>

# Details

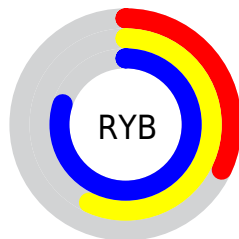
The Yxy color **48.7408, 0.2452, 0.3464** is a light color, and the websafe version is hex **33CCCC**. The color can be described as light muted cyan. A complement of this color would be **19.5130, 0.4819, 0.3153**, and the grayscale version is **38.0226, 0.3127, 0.3290**.

A 20% lighter version of the original color is **84.0481, 0.2559, 0.3368**, and **23.3590, 0.2303, 0.3492** is the 20% darker color. If you saturate the color by 10%, you get **47.8852, 0.2395, 0.3497**, and if you desaturate by 10%, it is **49.8720, 0.2528, 0.3431**.

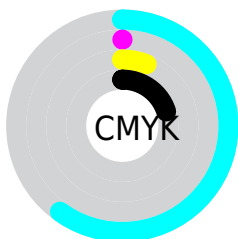
# Distribution



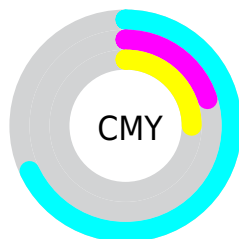
- Red (32%)
- Green (80%)
- Blue (75%)



- Red (32%)
- Yellow (57%)
- Blue (80%)



- Cyan (60%)
- Magenta (0%)
- Yellow (6%)
- Black (20%)



- Cyan (68%)
- Magenta (20%)
- Yellow (25%)

# Brightness & Saturation Gradients

These gradients show how the Yxy color 48.7408, 0.2452, 0.3464 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 48.7408, 0.2452, 0.3464 by changing the saturation by 10% instead.




 48.7408, 0.2452,  
0.3464


 48.7408, 0.2452,  
0.3464


381.7210, 0.2782,  
0.3383


 34.4139, 0.2372,  
0.3482


 88.3064, 0.2570,  
0.3436


 23.2118, 0.2271,  
0.3505


 114.3138, 0.2615,  
0.3425

 14.7499, 0.2140,  
0.3533


 144.9836, 0.2653,  
0.3416

 8.6441, 0.1963,  
0.3568

 180.7001, 0.2686,  
0.3407

 4.5098, 0.1713,  
0.3612

221.8477, 0.2715,  
0.3400

 1.9626, 0.1327,  
0.3667

268.8108, 0.2740,

 0.5856, 0.0000,

0.3394

0.3855

321.9737, 0.2762,  
0.3388

0.0000, 0.0000,  
0.0000

48.7408, 0.2452,  
0.3464

48.7408, 0.2452,  
0.3464

47.8852, 0.2395,  
0.3497

49.8720, 0.2528,  
0.3431

47.2745, 0.2357,  
0.3531

51.2952, 0.2621,  
0.3400

46.8807, 0.2337,  
0.3564

53.0319, 0.2730,  
0.3369

46.6525, 0.2332,  
0.3596

55.1002, 0.2852,  
0.3341

57.5168, 0.2984,  
0.3315

■ 60.2972, 0.3123,  
0.3291

■ 63.4559, 0.3266,  
0.3269

■ 67.0068, 0.3412,  
0.3250

■ 69.0957, 0.3481,  
0.3231

# Harmonies

## Analogous

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



48.7408, 0.2859, 0.3944



48.7408, 0.2452, 0.3464



48.7408, 0.2231, 0.2972

# Triad

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



48.7408, 0.2452, 0.3464



48.7408, 0.2834, 0.2531



48.7408, 0.4104, 0.3867

# Complementary

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



48.7408, 0.2452, 0.3464



19.5130, 0.4819, 0.3153

# 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.



48.7408, 0.4115, 0.3478



48.7408, 0.2452, 0.3464



48.7408, 0.3345, 0.2745

# Square

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



48.7408, 0.2452, 0.3464



48.7408, 0.2437, 0.2483



48.7408, 0.3829, 0.3080



48.7408, 0.3819, 0.4150



# Rectangle

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



48.7408, 0.2452, 0.3464



48.7408, 0.2204, 0.2721



48.7408, 0.3829, 0.3080



48.7408, 0.4142, 0.3744

# Sweetspot

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



48.7427, 0.2452, 0.3464



92.0250, 0.2879, 0.3335



46.1240, 0.3104, 0.5184



19.4610, 0.2841, 0.3344



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.



48.7427, 0.2452, 0.3464



78.9951, 0.2383, 0.3506



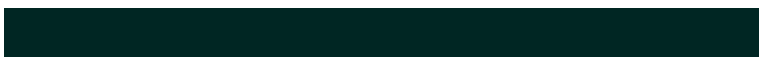
29.4861, 0.2222, 0.2522



12.7075, 0.2996, 0.3313



29.3705, 0.2331, 0.3591



1.5208, 0.2313, 0.3527



# Inverse Universe

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



19.5130, 0.4819, 0.3153



26.5438, 0.5389, 0.3155



29.4509, 0.4556, 0.3901



11.2311, 0.3275, 0.3268



8.1179, 0.6278, 0.3232

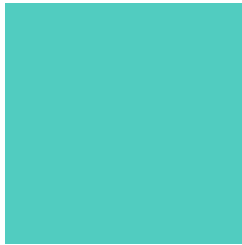


0.4250, 0.5924, 0.3037



# Previews

## White Background



This preview shows how the Yxy color 48.7408, 0.2452, 0.3464 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

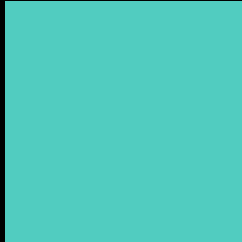
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 48.7408, 0.2452, 0.3464 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

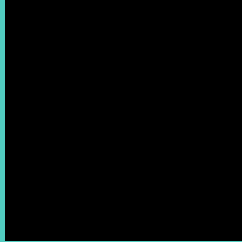
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

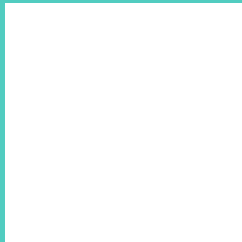
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**Yxy 48.7408, 0.2452, 0.3464**

## **Background**



This preview shows how black text looks on a background with the Yxy color 48.7408, 0.2452, 0.3464.

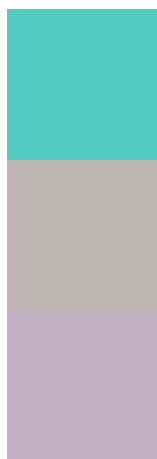


This preview shows how white text looks on a background with the Yxy color 48.7408, 0.2452, 0.3464.

# 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

48.7408, 0.2452, 0.3464

### Protanopia

47.8536, 0.3194, 0.3329

### Deuteranopia

48.0072, 0.3129, 0.3068



## Tritanopia

48.5425, 0.2357, 0.3052

# Trichromacy



**Original Color**

48.7408, 0.2452, 0.3464

**Protanomaly**

47.1119, 0.2852, 0.3386

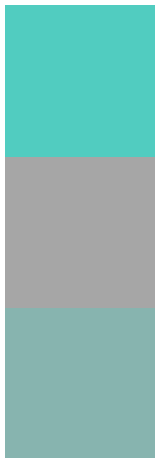
**Deuteranomaly**

46.7766, 0.2811, 0.3195

**Tritanomaly**

48.3536, 0.2387, 0.3188

# Monochromacy



**Original Color**

48.7408, 0.2452, 0.3464

**Achromatopsia**

38.1326, 0.3127, 0.3290

**Achromatomaly**

40.8886, 0.2800, 0.3363

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 48.7408, 0.2452, 0.3464 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(81, 204, 192)` looks like.

```
.text, #text, p{  
    color:rgb(81, 204, 192)  
}
```

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(81, 204, 192) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(81, 204, 192) }
```

## Border

The CSS property to change the border of an element to Yxy 48.7408, 0.2452, 0.3464 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(81, 204, 192) }
```

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

```
.border{ border-color:rgb(81, 204, 192) }
```

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

Here you see how a box with a 4 pixel rgb(81, 204, 192) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(81, 204, 192); -webkit-box-  
shadow:4px 4px 4px 4px rgb(81, 204, 192);  
box-shadow:4px 4px 4px 4px rgb(81, 204,  
192) }
```



# Background

The CSS property to change the background color of an element to Yxy 48.7408, 0.2452, 0.3464 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(81, 204, 192) }
```

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

```
.background{ background-color: rgb(81, 204,  
192) }
```

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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