

# Converting Colors

$Y_{xy}(48.2869, 0.2281, 0.3214)$

Have a look what the booklet for  
Yxy(48.2869, 0.2281, 0.3214)  
contains.

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# Color

**Yxy(48.4421, 0.2281, 0.3215)**

# Conversions

## Conversions Part 1

Format	Color
Hex	31CCD1
RGB	49, 204, 209
RGB Percent	19%, 80%, 82%
CMY	0.8078, 0.2000, 0.1804
CMYK	0.77, 0.02, 0.00, 0.18
HSL	182°, 63%, 51%
HSV	182°, 77%, 82%
XYZ	34.3690, 48.4421, 67.8641
YIQ	158.2250, -93.9850, -31.3050

# Conversions

## Conversions Part 2

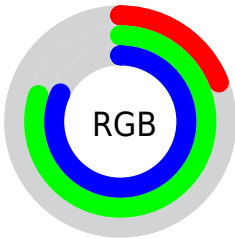
Format	Color
<a href="#">RYB</a>	49, 128, 209
Decimal	3263697
CIELab	75.10, -36.47, -13.77
CIELCh	75, 38.981, 200.680
Yxy	48.4421, 0.2281, 0.3215
Android (android.graphics.Color)	4281453777 (0xFF31CCD1)
YUV	158.2250, 25.0321, -95.7903
Hunter-Lab	69.6004, -33.6564, -9.0907

# Details

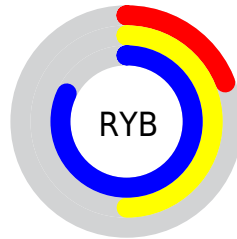
The Yxy color **48.4421, 0.2281, 0.3215** is a light color, and the websafe version is hex **33CCCC**. The color can be described as light muted cyan. A complement of this color would be **16.4193, 0.5728, 0.3338**, and the grayscale version is **34.2194, 0.3127, 0.3290**.

A 20% lighter version of the original color is **82.8776, 0.2453, 0.3288**, and **23.8615, 0.2214, 0.3170** is the 20% darker color. If you saturate the color by 10%, you get **47.7288, 0.2245, 0.3205**, and if you desaturate by 10%, it is **49.4011, 0.2336, 0.3226**.

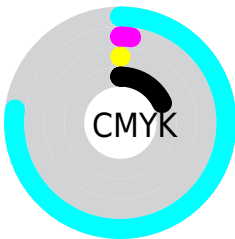
# Distribution



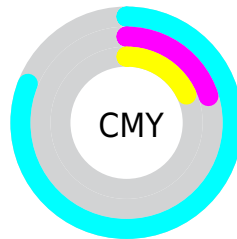
- Red (19%)
- Green (80%)
- Blue (82%)



- Red (19%)
- Yellow (50%)
- Blue (82%)



- Cyan (77%)
- Magenta (2%)
- Yellow (0%)
- Black (18%)



- Cyan (81%)
- Magenta (20%)
- Yellow (18%)

# Brightness & Saturation Gradients

These gradients show how the Yxy color 48.4421, 0.2281, 0.3215 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 48.4421, 0.2281, 0.3215 by changing the saturation by 10% instead.




 48.4421, 0.2281,  
0.3215

 48.4421, 0.2281,  
0.3215


380.5418, 0.2688,  
0.3265


 34.1771, 0.2185,  
0.3199


 87.8623, 0.2425,  
0.3236

 23.0297, 0.2064,  
0.3176

 113.7863, 0.2480,  
0.3243


 14.6154, 0.1910,  
0.3143


 144.3654, 0.2528,  
0.3249

 8.5499, 0.1707,  
0.3091

 179.9841, 0.2569,  
0.3253

 4.4488, 0.1429,  
0.3002

 221.0266, 0.2604,  
0.3257

 1.9277, 0.1029,  
0.2838

267.8775, 0.2636,

 0.5649, 0.0000,

0.3260

0.2476

320.9211, 0.2664,  
0.3263

0.0000, 0.0000,  
0.0000

48.4421, 0.2281,  
0.3215

48.4421, 0.2281,  
0.3215

47.7288, 0.2245,  
0.3205

49.4011, 0.2336,  
0.3226

47.2178, 0.2225,  
0.3195

50.6299, 0.2410,  
0.3236

47.0648, 0.2220,  
0.3191

52.1556, 0.2504,  
0.3247

54.0004, 0.2614,  
0.3257

56.1847, 0.2740,  
0.3267

■ 58.7269, 0.2878,  
0.3276

■ 61.6443, 0.3026,  
0.3285

■ 64.9529, 0.3181,  
0.3293

■ 68.6680, 0.3340,  
0.3300

# Harmonies

## Analogous

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



48.4421, 0.2622, 0.3759



48.4421, 0.2281, 0.3215



48.4421, 0.2157, 0.2758

# Triad

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



48.4421, 0.2281, 0.3215



48.4421, 0.3063, 0.2581



48.4421, 0.4043, 0.4055

# Complementary

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



48.4421, 0.2281, 0.3215



16.4193, 0.5728, 0.3338

# 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.



48.4421, 0.4203, 0.3682



48.4421, 0.2281, 0.3215



48.4421, 0.3611, 0.2871

# Square

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



48.4421, 0.2281, 0.3215



48.4421, 0.2576, 0.2444



48.4421, 0.4044, 0.3260



48.4421, 0.3639, 0.4261



# Rectangle

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



48.4421, 0.2281, 0.3215



48.4421, 0.2201, 0.2560



48.4421, 0.4044, 0.3260



48.4421, 0.4129, 0.3943

# Sweetspot

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



48.4439, 0.2281, 0.3215



89.3576, 0.2784, 0.3270



46.5031, 0.3007, 0.5666



18.8303, 0.2735, 0.3266



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.



48.4439, 0.2281, 0.3215



74.2990, 0.2230, 0.3198



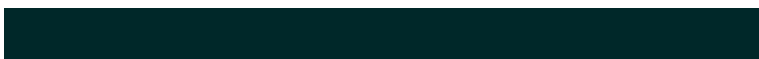
20.2684, 0.1956, 0.1954



13.3410, 0.2983, 0.3282



29.0450, 0.2220, 0.3193



1.6444, 0.2225, 0.3211



# Inverse Universe

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



20.1146, 0.3262, 0.1713



28.5308, 0.3282, 0.1604



30.1945, 0.4860, 0.4185



12.0024, 0.3143, 0.3068



11.0034, 0.3288, 0.1585

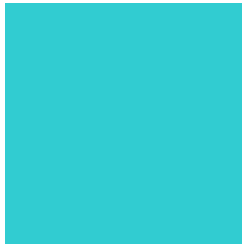


0.6173, 0.3273, 0.1576



# Previews

## White Background



This preview shows how the Yxy color 48.4421, 0.2281, 0.3215 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

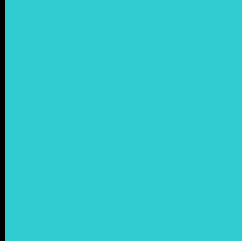
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 48.4421, 0.2281, 0.3215 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

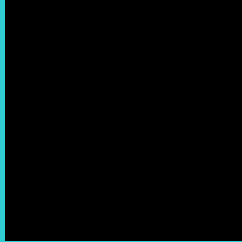
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

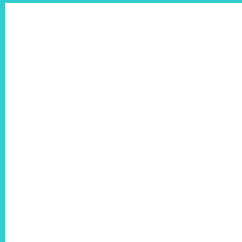
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**Yxy 48.4421, 0.2281, 0.3215**

## **Background**



This preview shows how black text looks on a background with the Yxy color 48.4421, 0.2281, 0.3215.

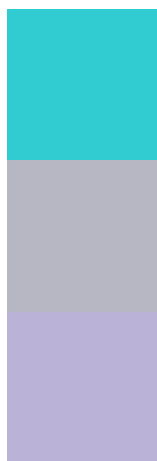


This preview shows how white text looks on a background with the Yxy color 48.4421, 0.2281, 0.3215.

# 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

48.4421, 0.2281, 0.3215

### Protanopia

47.4633, 0.3035, 0.3124

### Deuteranopia

47.5856, 0.2910, 0.2847



## Tritanopia

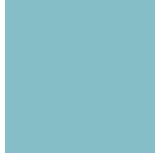
48.2254, 0.2249, 0.3047

# Trichromacy



## Original Color

48.4421, 0.2281, 0.3215



## Protanomaly

46.0654, 0.2644, 0.3150



## Deuteranomaly

46.0048, 0.2576, 0.2952



## Tritanomaly

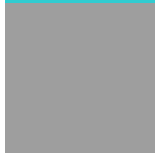
48.4024, 0.2263, 0.3116

# Monochromacy



## Original Color

48.4421, 0.2281, 0.3215



## Achromatopsia

34.1914, 0.3127, 0.3290



## Achromatomaly

37.6858, 0.2657, 0.3258

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 48.4421, 0.2281, 0.3215 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(49, 204, 209)` looks like.

```
.text, #text, p{  
    color:rgb(49, 204, 209)  
}
```

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(49, 204, 209) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(49, 204, 209) }
```

## Border

The CSS property to change the border of an element to Yxy 48.4421, 0.2281, 0.3215 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(49, 204, 209) }
```

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

```
.border{ border-color:rgb(49, 204, 209) }
```

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

Here you see how a box with a 4 pixel `rgb(49, 204, 209)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(49, 204, 209); -webkit-box-  
shadow:4px 4px 4px 4px rgb(49, 204, 209);  
box-shadow:4px 4px 4px 4px rgb(49, 204,  
209) }
```



# Background

The CSS property to change the background color of an element to Yxy 48.4421, 0.2281, 0.3215 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(49, 204, 209) }
```

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

```
.background{ background-color: rgb(49, 204,  
209) }
```

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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