

# Converting Colors

$Y_{xy}(48.5124, 0.2165, 0.2971)$

Have a look what the booklet for  
Yxy(48.5124, 0.2165, 0.2971)  
contains.

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# Color

**Yxy(48.2884, 0.2163, 0.2963)**

# Conversions

## Conversions Part 1

Format	Color
Hex	0DCBE2
RGB	13, 203, 226
RGB Percent	5%, 80%, 89%
CMY	0.9493, 0.2039, 0.1136
CMYK	0.94, 0.10, 0.00, 0.11
HSL	186°, 89%, 47%
HSV	186°, 94%, 89%
XYZ	35.2507, 48.2884, 79.4322
YIQ	148.8120, -120.6230, -33.1270

# Conversions

## Conversions Part 2

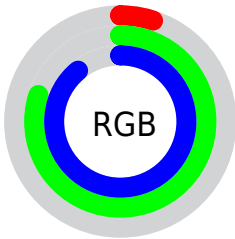
<b>Format</b>	<b>Color</b>
<b>RYB</b>	13, 113, 226
Decimal	904162
CIELab	75.01, -33.03, -23.14
CIELCh	75, 40.329, 215.006
Yxy	48.2884, 0.2163, 0.2963
Android (android.graphics.Color)	4279094242 (0xFF0DCBE2)
YUV	148.8120, 38.0537, -119.1071
Hunter-Lab	69.4899, -31.0581, -19.1301

# Details

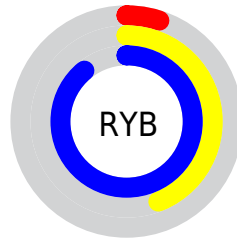
The Yxy color **48.2884, 0.2163, 0.2963** is a dark color, and the websafe version is hex **33CCCC**. The color can be described as middle washed cyan. A complement of this color would be **17.4602, 0.6217, 0.3384**, and the grayscale version is **29.8379, 0.3127, 0.3290**.

A 20% lighter version of the original color is **82.1847, 0.2420, 0.3288**, and **24.1201, 0.2128, 0.2861** is the 20% darker color. If you saturate the color by 10%, you get **47.5489, 0.2151, 0.2942**, and if you desaturate by 10%, it is **49.7343, 0.2195, 0.3000**.

# Distribution



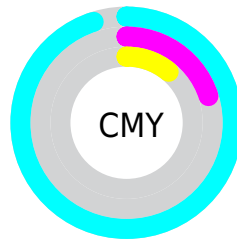
- Red (5%)
- Green (80%)
- Blue (89%)



- Red (5%)
- Yellow (44%)
- Blue (89%)



- Cyan (94%)
- Magenta (10%)
- Yellow (0%)
- Black (11%)




- Cyan (95%)
- Magenta (20%)
- Yellow (11%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 48.2884, 0.2163, 0.2963 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 48.2884, 0.2163, 0.2963 by changing the saturation by 10% instead.





 48.2884, 0.2163,  
0.2963

 48.2884, 0.2163,  
0.2963

379.9341, 0.2622,  
0.3141


 34.0553, 0.2057,  
0.2916


 87.6336, 0.2324,  
0.3030


 22.9361, 0.1925,  
0.2853


 113.5146, 0.2386,  
0.3055


 14.5463, 0.1759,  
0.2768


 144.0470, 0.2439,  
0.3075

 8.5016, 0.1544,  
0.2647

 179.6152, 0.2485,  
0.3092

 4.4176, 0.1260,  
0.2465

 220.6036, 0.2526,  
0.3107

 1.9098, 0.0878,  
0.2171

267.3967, 0.2562,

 0.5542, 0.0000,

0.3120

0.1630

320.3787, 0.2593,  
0.3131

■ 0.0000, 0.0000,  
0.0000

■ 48.2884, 0.2163,  
0.2963

■ 48.2884, 0.2163,  
0.2963

■ 47.5489, 0.2151,  
0.2942

■ 49.7343, 0.2195,  
0.3000

■ 51.4518, 0.2244,  
0.3038

■ 53.4850, 0.2313,  
0.3076

■ 55.8684, 0.2402,  
0.3113

■ 58.6318, 0.2508,  
0.3150

■ 61.8018, 0.2630,  
0.3185

■ 65.4026, 0.2764,  
0.3218

■ 69.4562, 0.2909,  
0.3250

■ 73.9832, 0.3061,  
0.3278

# Harmonies

## Analogous

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



48.2884, 0.2411, 0.3507



48.2884, 0.2163, 0.2963



48.2884, 0.2148, 0.2582

# Triad

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



48.2884, 0.2163, 0.2963



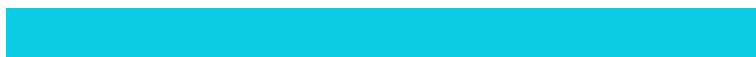
48.2884, 0.3333, 0.2684



48.2884, 0.3898, 0.4213

# Complementary

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



48.2884, 0.2163, 0.2963



17.4602, 0.6217, 0.3384

# 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.



48.2884, 0.4200, 0.3889



48.2884, 0.2163, 0.2963



48.2884, 0.3870, 0.3039

# Square

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



48.2884, 0.2163, 0.2963



48.2884, 0.2780, 0.2463



48.2884, 0.4197, 0.3465



48.2884, 0.3402, 0.4296

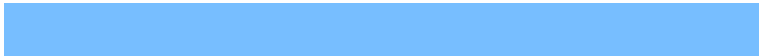


# Rectangle

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



48.2884, 0.2163, 0.2963



48.2884, 0.2266, 0.2449



48.2884, 0.4197, 0.3465



48.2884, 0.4026, 0.4124

# Sweetspot

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



48.2901, 0.2163, 0.2963



84.0575, 0.2710, 0.3206



54.6088, 0.2978, 0.5879



17.5575, 0.2652, 0.3191



0.0000, 0.0000, 0.0000



21.4041, 0.3127, 0.3290

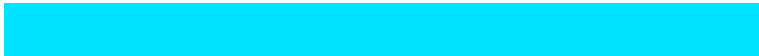


# Same Dimension

The Same Dimension uses a secret algorithm to generate beautiful new colors.



48.2901, 0.2163, 0.2963



62.4044, 0.2150, 0.2940



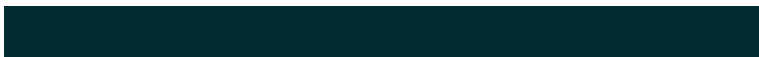
14.3430, 0.1718, 0.1348



15.3061, 0.2982, 0.3264



27.2263, 0.2152, 0.2948



1.9606, 0.2168, 0.3005



# Inverse Universe

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



20.7707, 0.3485, 0.1712



26.8309, 0.3508, 0.1706



35.1878, 0.5045, 0.4337



13.9088, 0.3154, 0.3084



11.6566, 0.3500, 0.1702

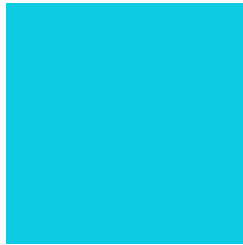


0.8154, 0.3450, 0.1674



# Previews

## White Background



This preview shows how the Yxy color 48.2884, 0.2163, 0.2963 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

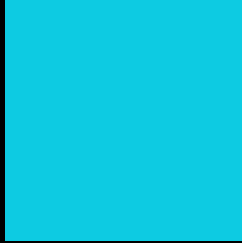
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 48.2884, 0.2163, 0.2963 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

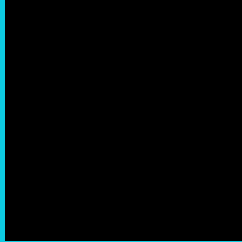
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**Yxy 48.2884, 0.2163, 0.2963**

## **Background**



This preview shows how black text looks on a background with the Yxy color 48.2884, 0.2163, 0.2963.



This preview shows how white text looks on a background with the Yxy color 48.2884, 0.2163, 0.2963.

# 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

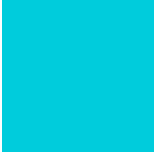
48.2884, 0.2163, 0.2963

### Protanopia

47.6743, 0.2870, 0.2913

### Deuteranopia

47.6421, 0.2725, 0.2669



## Tritanopia

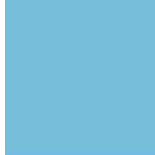
48.3530, 0.2183, 0.3059

# Trichromacy



## Original Color

48.2884, 0.2163, 0.2963



## Protanomaly

45.6882, 0.2454, 0.2919



## Deuteranomaly

45.4055, 0.2382, 0.2741



## Tritanomaly

48.4919, 0.2178, 0.3031

# Monochromacy



## Original Color

48.2884, 0.2163, 0.2963



## Achromatopsia

30.0544, 0.3127, 0.3290



## Achromatomaly

34.2596, 0.2526, 0.3160

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 48.2884, 0.2163, 0.2963 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(13, 203, 226)` looks like.

```
.text, #text, p{  
    color:rgb(13, 203, 226)  
}
```

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(13, 203, 226) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(13, 203, 226) }
```

## Border

The CSS property to change the border of an element to Yxy 48.2884, 0.2163, 0.2963 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(13, 203, 226) }
```

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

```
.border{ border-color:rgb(13, 203, 226) }
```

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

Here you see how a box with a 4 pixel `rgb(13, 203, 226)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(13, 203, 226); -webkit-box-  
shadow:4px 4px 4px 4px rgb(13, 203, 226);  
box-shadow:4px 4px 4px 4px rgb(13, 203,  
226) }
```



# Background

The CSS property to change the background color of an element to Yxy 48.2884, 0.2163, 0.2963 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(13, 203, 226) }
```

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

```
.background{ background-color: rgb(13, 203,  
226) }
```

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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