

# Converting Colors

$Y_{xy}(48.9168, 0.2178, 0.2974)$

Have a look what the booklet for  
Yxy(48.9168, 0.2178, 0.2974)  
contains.

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# Color

**Yxy(48.9236, 0.2180, 0.2979)**

# Conversions

## Conversions Part 1

Format	Color
Hex	1CCCE2
RGB	28, 204, 226
RGB Percent	11%, 80%, 89%
CMY	0.8895, 0.2000, 0.1137
CMYK	0.88, 0.10, 0.00, 0.11
HSL	187°, 78%, 50%
HSV	187°, 88%, 89%
XYZ	35.8018, 48.9236, 79.5029
YIQ	153.8840, -111.9580, -30.4700

# Conversions

## Conversions Part 2

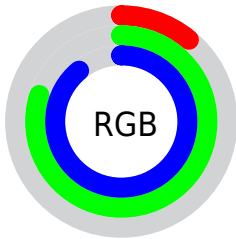
<b>Format</b>	<b>Color</b>
R <sub>Y</sub> B	28, 121, 226
Decimal	1887458
CIE Lab	75.40, -32.88, -22.50
CIE LCh	75, 39.846, 214.385
Yxy	48.9236, 0.2180, 0.2979
Android (android.graphics.Color)	4280077538 (0xFF1CCCE2)
YUV	153.8840, 35.5532, -110.4003
Hunter-Lab	69.9454, -31.0387, -18.4297

# Details

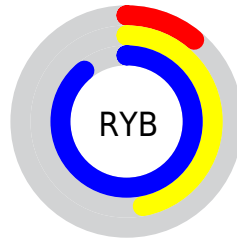
The Yxy color **48.9236, 0.2180, 0.2979** is a light color, and the websafe version is hex **33CCCC**. The color can be described as light washed cyan. A complement of this color would be **18.5495, 0.6033, 0.3420**, and the grayscale version is **32.1645, 0.3127, 0.3290**.

A 20% lighter version of the original color is **82.3848, 0.2430, 0.3288**, and **24.4352, 0.2134, 0.2881** is the 20% darker color. If you saturate the color by 10%, you get **47.5269, 0.2153, 0.2941**, and if you desaturate by 10%, it is **50.5784, 0.2224, 0.3018**.

# Distribution



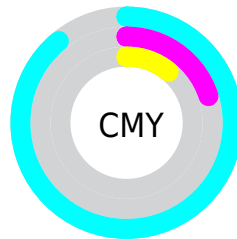
- Red (11%)
- Green (80%)
- Blue (89%)



- Red (11%)
- Yellow (47%)
- Blue (89%)



- Cyan (88%)
- Magenta (10%)
- Yellow (0%)
- Black (11%)




- Cyan (89%)
- Magenta (20%)
- Yellow (11%)

# Brightness & Saturation Gradients

These gradients show how the Yxy color 48.9236, 0.2180, 0.2979 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 48.9236, 0.2180, 0.2979 by changing the saturation by 10% instead.





 48.9236, 0.2180,  
0.2979


 48.9236, 0.2180,  
0.2979


382.4415, 0.2630,  
0.3148


 34.5589, 0.2076,  
0.2934


 88.5780, 0.2338,  
0.3043


 23.3233, 0.1947,  
0.2874

 114.6364, 0.2399,  
0.3066

 14.8324, 0.1783,  
0.2794


 145.3615, 0.2451,  
0.3086

 8.7018, 0.1572,  
0.2678

 181.1378, 0.2496,  
0.3102

 4.5472, 0.1292,  
0.2504

 222.3495, 0.2536,  
0.3116

 1.9841, 0.0916,  
0.2222

269.3811, 0.2571,

 0.5982, 0.0000,

0.3128

0.1733

322.6169, 0.2602,  
0.3139

■ 0.0000, 0.0000,  
0.0000

■ 48.9236, 0.2180,  
0.2979

■ 48.9236, 0.2180,  
0.2979

■ 47.5269, 0.2153,  
0.2941

■ 50.5784, 0.2224,  
0.3018

■ 47.2008, 0.2148,  
0.2931

■ 52.5354, 0.2287,  
0.3057

■ 54.8329, 0.2370,  
0.3096

■ 57.5022, 0.2471,  
0.3134

■ 60.5708, 0.2588,  
0.3170

■ 64.0634, 0.2719,  
0.3205

■ 68.0028, 0.2861,  
0.3238

■ 72.4101, 0.3011,  
0.3269

■ 77.3050, 0.3166,  
0.3297

# Harmonies

## Analogous

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



48.9236, 0.2429, 0.3516



48.9236, 0.2180, 0.2979



48.9236, 0.2160, 0.2599

# Triad

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



48.9236, 0.2180, 0.2979



48.9236, 0.3319, 0.2687



48.9236, 0.3895, 0.4194

# Complementary

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



48.9236, 0.2180, 0.2979



18.5495, 0.6033, 0.3420

# 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.



48.9236, 0.4186, 0.3873



48.9236, 0.2180, 0.2979



48.9236, 0.3848, 0.3035

# Square

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



48.9236, 0.2180, 0.2979



48.9236, 0.2776, 0.2472



48.9236, 0.4176, 0.3455



48.9236, 0.3410, 0.4280

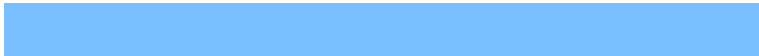


# Rectangle

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



48.9236, 0.2180, 0.2979



48.9236, 0.2274, 0.2465



48.9236, 0.4176, 0.3455



48.9236, 0.4020, 0.4106

# Sweetspot

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



48.9254, 0.2180, 0.2979



84.9065, 0.2738, 0.3210



54.8524, 0.2971, 0.5777



17.8108, 0.2690, 0.3198



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.



48.9254, 0.2180, 0.2979



61.9639, 0.2147, 0.2929



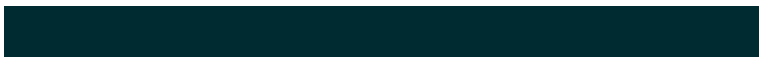
16.3204, 0.1775, 0.1485



15.2983, 0.2982, 0.3263



27.0389, 0.2149, 0.2937



1.9494, 0.2166, 0.2997



# Inverse Universe

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



21.3669, 0.3469, 0.1736



26.7864, 0.3517, 0.1711



37.0802, 0.4933, 0.4356



13.9080, 0.3155, 0.3084



11.6376, 0.3510, 0.1707

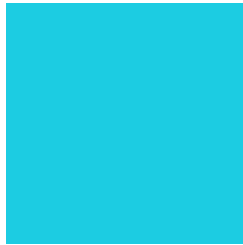


0.8143, 0.3457, 0.1678



# Previews

## White Background



This preview shows how the Yxy color 48.9236, 0.2180, 0.2979 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

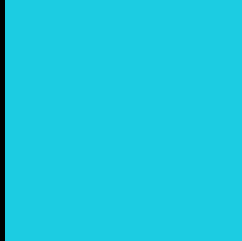
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 48.9236, 0.2180, 0.2979 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

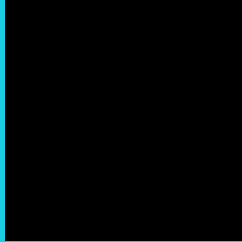
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**Yxy 48.9236, 0.2180, 0.2979**

## **Background**



This preview shows how black text looks on a background with the Yxy color 48.9236, 0.2180, 0.2979.



This preview shows how white text looks on a background with the Yxy color 48.9236, 0.2180, 0.2979.

# 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

48.9236, 0.2180, 0.2979

### Protanopia

48.2041, 0.2878, 0.2927

### Deuteranopia

48.2822, 0.2741, 0.2684



## Tritanopia

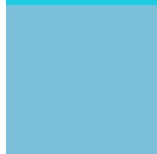
49.0117, 0.2194, 0.3060

# Trichromacy



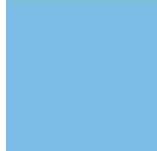
## Original Color

48.9236, 0.2180, 0.2979



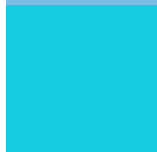
## Protanomaly

46.5564, 0.2489, 0.2936



## Deuteranomaly

46.3374, 0.2421, 0.2759



## Tritanomaly

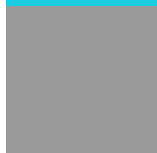
49.1609, 0.2189, 0.3033

# Monochromacy



## Original Color

48.9236, 0.2180, 0.2979



## Achromatopsia

32.3143, 0.3127, 0.3290



## Achromatomaly

35.9885, 0.2565, 0.3164

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 48.9236, 0.2180, 0.2979 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(28, 204, 226)` looks like.

```
.text, #text, p{  
    color:rgb(28, 204, 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(28, 204, 226) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(28, 204, 226) }
```

## Border

The CSS property to change the border of an element to Yxy 48.9236, 0.2180, 0.2979 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(28, 204, 226) }
```

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

```
.border{ border-color:rgb(28, 204, 226) }
```

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

Here you see how a box with a 4 pixel rgb(28, 204, 226) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(28, 204, 226); -webkit-box-  
shadow:4px 4px 4px 4px rgb(28, 204, 226);  
box-shadow:4px 4px 4px 4px rgb(28, 204,  
226) }
```



# Background

The CSS property to change the background color of an element to Yxy 48.9236, 0.2180, 0.2979 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(28, 204, 226) }
```

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

```
.background{ background-color: rgb(28, 204,  
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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