

# Converting Colors

$Yxy(51.0718, 0.2314, 0.3068)$

Have a look what the booklet for  
Yxy(51.0718, 0.2314, 0.3068)  
contains.

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# Color

**Yxy(51.1220, 0.2314, 0.3068)**

# Conversions

## Conversions Part 1

Format	Color
Hex	50CEDE
RGB	80, 206, 222
RGB Percent	31%, 81%, 87%
CMY	0.6867, 0.1921, 0.1294
CMYK	0.64, 0.07, 0.00, 0.13
HSL	187°, 68%, 59%
HSV	187°, 64%, 87%
XYZ	38.5581, 51.1220, 76.9496
YIQ	170.1500, -80.2320, -21.7360

# Conversions

## Conversions Part 2

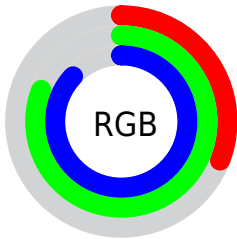
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	80, 147, 222
Decimal	5295838
CIE Lab	76.75, -29.66, -18.23
CIE LCh	77, 34.813, 211.574
Yxy	51.1220, 0.2314, 0.3068
Android (android.graphics.Color)	4283485918 (0xFF50CEDE)
YUV	170.1500, 25.5621, -79.0615
Hunter-Lab	71.4997, -28.8634, -13.7595

# Details

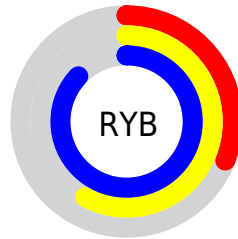
The Yxy color **51.1220, 0.2314, 0.3068** is a light color, and the websafe version is hex **66CCCC**. The color can be described as light muted cyan. A complement of this color would be **24.4546, 0.5063, 0.3464**, and the grayscale version is **40.1642, 0.3127, 0.3290**.

A 20% lighter version of the original color is **84.6693, 0.2536, 0.3288**, and **24.9232, 0.2164, 0.2989** is the 20% darker color. If you saturate the color by 10%, you get **49.1195, 0.2244, 0.3029**, and if you desaturate by 10%, it is **53.4664, 0.2403, 0.3107**.

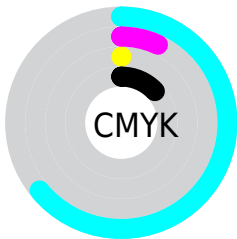
# Distribution



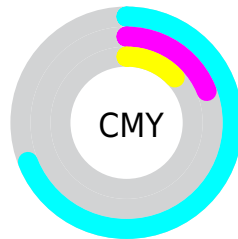
- Red (31%)
- Green (81%)
- Blue (87%)



- Red (31%)
- Yellow (58%)
- Blue (87%)



- Cyan (64%)
- Magenta (7%)
- Yellow (0%)
- Black (13%)




- Cyan (69%)
- Magenta (19%)
- Yellow (13%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 51.1220, 0.2314, 0.3068 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 51.1220, 0.2314, 0.3068 by changing the saturation by 10% instead.





 51.1220, 0.2314,  
0.3068

 51.1220, 0.2314,  
0.3068


391.0376, 0.2701,  
0.3189


 36.3057, 0.2224,  
0.3036


 91.8351, 0.2450,  
0.3114


 24.6704, 0.2111,  
0.2993


 118.5007, 0.2502,  
0.3130

 15.8317, 0.1968,  
0.2934


 149.8848, 0.2547,  
0.3144

 9.4051, 0.1781,  
0.2850

 186.3719, 0.2586,  
0.3156

 5.0064, 0.1528,  
0.2722

228.3463, 0.2620,  
0.3166

 2.2510, 0.1174,  
0.2507

276.1925, 0.2651,

 0.7476, 0.0000,

0.3175

0.2245

330.2948, 0.2677,  
0.3182

0.0000, 0.0000,  
0.0000

51.1220, 0.2314,  
0.3068

51.1220, 0.2314,  
0.3068

49.1195, 0.2244,  
0.3029

53.4664, 0.2403,  
0.3107

47.4203, 0.2193,  
0.2989

56.1755, 0.2510,  
0.3145

45.9862, 0.2160,  
0.2950

59.2765, 0.2633,  
0.3182

45.2157, 0.2147,  
0.2927

62.7925, 0.2768,  
0.3216

66.7445, 0.2913,  
0.3249

71.1524, 0.3065,  
0.3279

76.0344, 0.3221,  
0.3306

80.9307, 0.3359,  
0.3331

82.3000, 0.3356,  
0.3355

# Harmonies

## Analogous

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



51.1220, 0.2554, 0.3531



51.1220, 0.2314, 0.3068



51.1220, 0.2276, 0.2718

# Triad

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



51.1220, 0.2314, 0.3068



51.1220, 0.3250, 0.2740



51.1220, 0.3828, 0.4057

# Complementary

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



51.1220, 0.2314, 0.3068



24.4546, 0.5063, 0.3464

# 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.



51.1220, 0.4053, 0.3775



51.1220, 0.2314, 0.3068



51.1220, 0.3711, 0.3039

# Square

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



51.1220, 0.2314, 0.3068



51.1220, 0.2786, 0.2564



51.1220, 0.4013, 0.3407



51.1220, 0.3422, 0.4141



# Rectangle

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



51.1220, 0.2314, 0.3068



51.1220, 0.2364, 0.2585



51.1220, 0.4013, 0.3407



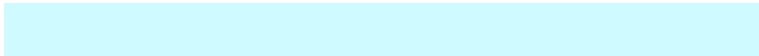
51.1220, 0.3928, 0.3979

# Sweetspot

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



51.1239, 0.2314, 0.3068



88.5100, 0.2838, 0.3233



54.7593, 0.2974, 0.5179



18.6170, 0.2796, 0.3223



0.0000, 0.0000, 0.0000



21.4041, 0.3127, 0.3290

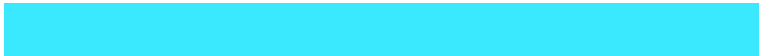


# Same Dimension

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



51.1239, 0.2314, 0.3068



66.3583, 0.2223, 0.3014



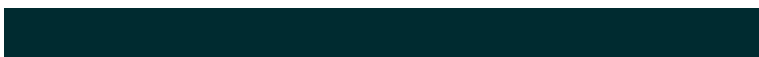
24.7925, 0.2069, 0.2020



15.2950, 0.2982, 0.3263



26.9575, 0.2148, 0.2933



1.9446, 0.2165, 0.2993



# Inverse Universe

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



25.7096, 0.3372, 0.1964



30.2293, 0.3431, 0.1804



43.0781, 0.4433, 0.4238



13.9077, 0.3155, 0.3085



11.6294, 0.3514, 0.1709

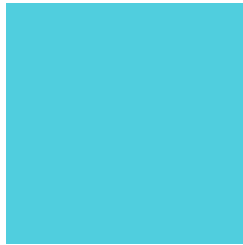


0.8138, 0.3461, 0.1680



# Previews

## White Background



This preview shows how the Yxy color 51.1220, 0.2314, 0.3068 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

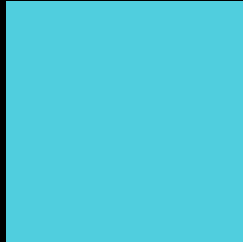
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 51.1220, 0.2314, 0.3068 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

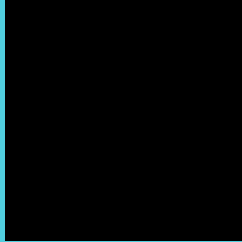
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**Yxy 51.1220, 0.2314, 0.3068**

## **Background**



This preview shows how black text looks on a background with the Yxy color 51.1220, 0.2314, 0.3068.



This preview shows how white text looks on a background with the Yxy color 51.1220, 0.2314, 0.3068.

# 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

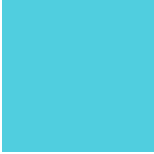
51.1220, 0.2314, 0.3068

### Protanopia

50.4584, 0.2948, 0.3018

### Deuteranopia

50.3918, 0.2836, 0.2775



## **Tritanopia**

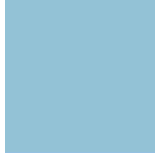
51.1758, 0.2310, 0.3055

# Trichromacy



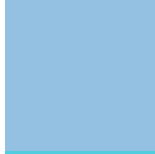
## Original Color

51.1220, 0.2314, 0.3068



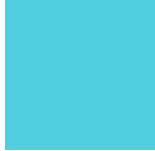
## Protanomaly

49.6417, 0.2650, 0.3027



## Deuteranomaly

49.4314, 0.2588, 0.2865



## Tritanomaly

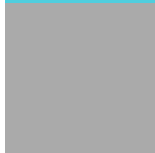
51.1758, 0.2310, 0.3055

# Monochromacy



## Original Color

51.1220, 0.2314, 0.3068



## Achromatopsia

40.1978, 0.3127, 0.3290



## Achromatomaly

42.8595, 0.2723, 0.3203

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 51.1220, 0.2314, 0.3068 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, 206, 222)` looks like.

```
.text, #text, p{  
    color:rgb(80, 206, 222)  
}
```

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, 206, 222) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(80, 206, 222) }
```

## Border

The CSS property to change the border of an element to Yxy 51.1220, 0.2314, 0.3068 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, 206, 222) }
```

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

```
.border{ border-color:rgb(80, 206, 222) }
```

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

Here you see how a box with a 4 pixel rgb(80, 206, 222) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(80, 206, 222); -webkit-box-  
shadow:4px 4px 4px 4px rgb(80, 206, 222);  
box-shadow:4px 4px 4px 4px rgb(80, 206,  
222) }
```



# Background

The CSS property to change the background color of an element to Yxy 51.1220, 0.2314, 0.3068 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(80, 206, 222) }
```

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

```
.background{ background-color: rgb(80, 206,  
222) }
```

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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