

# Converting Colors

$Y_{xy}(50.8161, 0.2327, 0.2983)$

Have a look what the booklet for  
Yxy(50.8161, 0.2327, 0.2983)  
contains.

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# Color

**Yxy(50.9009, 0.2328, 0.2990)**

# Conversions

## Conversions Part 1

Format	Color
Hex	5BCCE2
RGB	91, 204, 226
RGB Percent	36%, 80%, 89%
CMY	0.6434, 0.2000, 0.1136
CMYK	0.60, 0.10, 0.00, 0.11
HSL	190°, 70%, 62%
HSV	190°, 60%, 89%
XYZ	39.6312, 50.9009, 79.7050
YIQ	172.7210, -74.4100, -17.1140

# Conversions

## Conversions Part 2

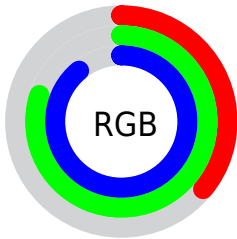
Format	Color
RYP	91, 153, 226
Decimal	6016226
CIELab	76.62, -25.68, -20.56
CIELCh	77, 32.897, 218.682
Yxy	50.9009, 0.2328, 0.2990
Android (android.graphics.Color)	4284206306 (0xFF5BCCE2)
YUV	172.7210, 26.2665, -71.6693
Hunter-Lab	71.3449, -25.6989, -16.2962

# Details

The Yxy color **50.9009, 0.2328, 0.2990** 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 **28.7234, 0.4820, 0.3536**, and the grayscale version is **41.5236, 0.3127, 0.3290**.

A 20% lighter version of the original color is **85.4154, 0.2570, 0.3288**, and **24.7530, 0.2139, 0.2900** is the 20% darker color. If you saturate the color by 10%, you get **48.1927, 0.2243, 0.2932**, and if you desaturate by 10%, it is **54.0001, 0.2432, 0.3047**.

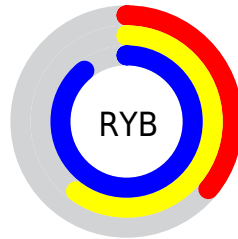
# Distribution



Red (36%)

Green (80%)

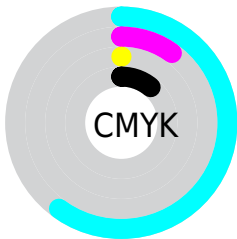
Blue (89%)



Red (36%)

Yellow (60%)

Blue (89%)

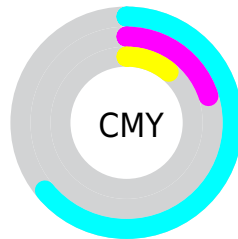


Cyan (60%)

Magenta (10%)

Yellow (0%)

Black (11%)



Cyan (64%)

Magenta (20%)

Yellow (11%)

# Brightness & Saturation Gradients

These gradients show how the Yxy color 50.9009, 0.2328, 0.2990 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 50.9009, 0.2328, 0.2990 by changing the saturation by 10% instead.



50.9009, 0.2328,  
0.2990

50.9009, 0.2328,  
0.2990

390.1786, 0.2709,  
0.3148

36.1297, 0.2239,  
0.2949

91.5083, 0.2462,  
0.3049

24.5344, 0.2129,  
0.2896

118.1133, 0.2513,  
0.3070

15.7305, 0.1989,  
0.2824

149.4317, 0.2557,  
0.3089

9.3337, 0.1805,  
0.2723

185.8479, 0.2596,  
0.3104

4.9595, 0.1556,  
0.2572

227.7463, 0.2629,  
0.3117

2.2235, 0.1209,  
0.2330

275.5113, 0.2659,

0.7328, 0.0189,

0.3129

0.1992

329.5273, 0.2685,  
0.3139

0.0000, 0.0000,  
0.0000

50.9009, 0.2328,  
0.2990

50.9009, 0.2328,  
0.2990

48.1927, 0.2243,  
0.2932

54.0001, 0.2432,  
0.3047

45.8372, 0.2177,  
0.2873

57.5129, 0.2551,  
0.3102

43.7980, 0.2130,  
0.2814

61.4668, 0.2684,  
0.3155

42.0099, 0.2099,  
0.2757

65.8852, 0.2827,  
0.3204

41.9706, 0.2099,  
0.2755

70.7896, 0.2977,  
0.3249

■ 76.2002, 0.3131,  
0.3291

■ 82.1360, 0.3286,  
0.3328

■ 85.2998, 0.3323,  
0.3364

■ 87.4128, 0.3318,  
0.3400

# Harmonies

## Analogous

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



50.9009, 0.2514, 0.3413



50.9009, 0.2328, 0.2990



50.9009, 0.2338, 0.2694

# Triad

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



50.9009, 0.2328, 0.2990



50.9009, 0.3353, 0.2826



50.9009, 0.3713, 0.4056

# Complementary

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



50.9009, 0.2328, 0.2990



28.7234, 0.4820, 0.3536

# 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.



50.9009, 0.3974, 0.3827



50.9009, 0.2328, 0.2990



50.9009, 0.3766, 0.3132

# Square

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



50.9009, 0.2328, 0.2990



50.9009, 0.2902, 0.2626



50.9009, 0.3998, 0.3489



50.9009, 0.3304, 0.4074



# Rectangle

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



50.9009, 0.2328, 0.2990



50.9009, 0.2452, 0.2594



50.9009, 0.3998, 0.3489



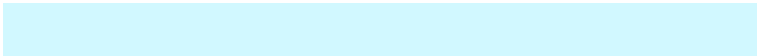
50.9009, 0.3822, 0.3998

# Sweetspot

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



50.9028, 0.2328, 0.2990



87.6301, 0.2851, 0.3212



57.7786, 0.2949, 0.4955



18.3718, 0.2808, 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.



50.9028, 0.2328, 0.2990



62.4690, 0.2223, 0.2916



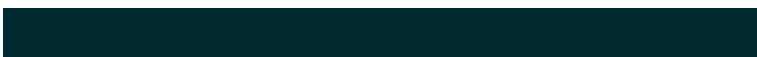
25.9494, 0.2111, 0.2017



15.1721, 0.2982, 0.3251



24.0865, 0.2101, 0.2765



1.7724, 0.2126, 0.2854



# Inverse Universe

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



28.0019, 0.3430, 0.2088



31.2582, 0.3511, 0.1921



49.0627, 0.4284, 0.4261



13.8953, 0.3163, 0.3096



11.3396, 0.3668, 0.1794

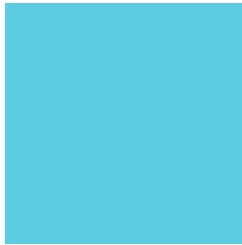


0.7964, 0.3585, 0.1749



# Previews

## White Background



This preview shows how the Yxy color 50.9009, 0.2328, 0.2990 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

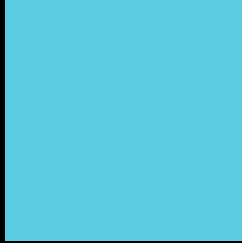
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 50.9009, 0.2328, 0.2990 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 50.9009, 0.2328, 0.2990**

## **Background**



This preview shows how black text looks on a background with the Yxy color 50.9009, 0.2328, 0.2990.



This preview shows how white text looks on a background with the Yxy color 50.9009, 0.2328, 0.2990.

# 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

50.9009, 0.2328, 0.2990

### Protanopia

50.0401, 0.2896, 0.2944

### Deuteranopia

50.3084, 0.2801, 0.2740



## Tritanopia

51.0069, 0.2347, 0.3069

# Trichromacy



## Original Color

50.9009, 0.2328, 0.2990



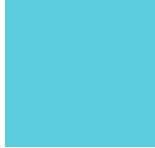
## Protanomaly

49.6859, 0.2644, 0.2965



## Deuteranomaly

49.4981, 0.2583, 0.2807



## Tritanomaly

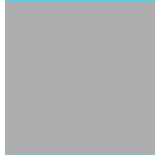
51.1640, 0.2341, 0.3043

# Monochromacy



## Original Color

50.9009, 0.2328, 0.2990



## Achromatopsia

41.7885, 0.3127, 0.3290



## Achromatomaly

43.9264, 0.2747, 0.3177

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 50.9009, 0.2328, 0.2990 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(91, 204, 226)` looks like.

```
.text, #text, p{  
    color:rgb(91, 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(91, 204, 226) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(91, 204, 226) }
```

## Border

The CSS property to change the border of an element to Yxy 50.9009, 0.2328, 0.2990 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(91, 204, 226) }
```

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

```
.border{ border-color:rgb(91, 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(91, 204, 226)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(91, 204, 226); -webkit-box-  
shadow:4px 4px 4px 4px rgb(91, 204, 226);  
box-shadow:4px 4px 4px 4px rgb(91, 204,  
226) }
```



# Background

The CSS property to change the background color of an element to Yxy 50.9009, 0.2328, 0.2990 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(91, 204, 226) }
```

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

```
.background{ background-color: rgb(91, 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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