

# Converting Colors

$Y_{xy}(48.5663, 0.2296, 0.2894)$

Have a look what the booklet for  
Yxy(48.5663, 0.2296, 0.2894)  
contains.

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# Color

**Yxy(48.5721, 0.2296, 0.2894)**

# Conversions

## Conversions Part 1

Format	Color
Hex	59C7E4
RGB	89, 199, 228
RGB Percent	35%, 78%, 89%
CMY	0.6515, 0.2195, 0.1059
CMYK	0.61, 0.13, 0.00, 0.11
HSL	192°, 72%, 62%
HSV	192°, 61%, 89%
XYZ	38.5354, 48.5721, 80.7297
YIQ	169.4160, -74.8690, -14.3010

# Conversions

## Conversions Part 2

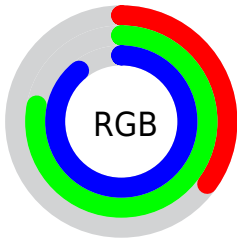
<b>Format</b>	<b>Color</b>
R <sub>YB</sub>	89, 150, 228
Decimal	5883876
CIE Lab	75.18, -22.97, -23.80
CIE LCh	75, 33.080, 226.019
Yxy	48.5721, 0.2296, 0.2894
Android (android.graphics.Color)	4284073956 (0xFF59C7E4)
YUV	169.4160, 28.8819, -70.5248
Hunter-Lab	69.6937, -23.2667, -19.8930

# Details

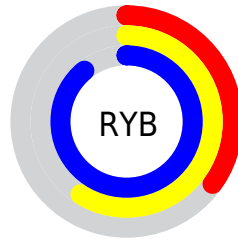
The Yxy color **48.5721, 0.2296, 0.2894** is a light color, and the websafe version is hex **33CCFF**. The color can be described as light muted cyan. A complement of this color would be **30.1295, 0.4820, 0.3609**, and the grayscale version is **39.7600, 0.3127, 0.3290**.

A 20% lighter version of the original color is **85.3193, 0.2566, 0.3288**, and **23.2679, 0.2103, 0.2769** is the 20% darker color. If you saturate the color by 10%, you get **45.4664, 0.2207, 0.2818**, and if you desaturate by 10%, it is **52.0985, 0.2403, 0.2969**.

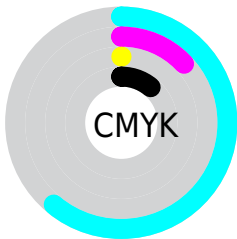
# Distribution



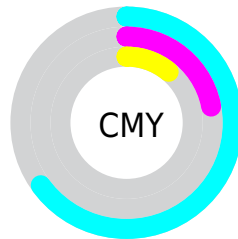
- Red (35%)
- Green (78%)
- Blue (89%)



- Red (35%)
- Yellow (59%)
- Blue (89%)



- Cyan (61%)
- Magenta (13%)
- Yellow (0%)
- Black (11%)



- Cyan (65%)
- Magenta (22%)
- Yellow (11%)

# Brightness & Saturation Gradients

These gradients show how the Yxy color 48.5721, 0.2296, 0.2894 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 48.5721, 0.2296, 0.2894 by changing the saturation by 10% instead.



■ 48.5721, 0.2296,  
0.2894

■ 48.5721, 0.2296,  
0.2894

■ 381.0553, 0.2694,  
0.3100

■ 34.2802, 0.2203,  
0.2841

■ 88.0556, 0.2436,  
0.2970

■ 23.1089, 0.2087,  
0.2773

■ 114.0159, 0.2490,  
0.2998

■ 14.6739, 0.1940,  
0.2683

■ 144.6346, 0.2536,  
0.3022

■ 8.5909, 0.1747,  
0.2556

■ 180.2958, 0.2576,  
0.3042

■ 4.4753, 0.1487,  
0.2370

■ 221.3841, 0.2611,  
0.3059

■ 1.9428, 0.1126,  
0.2078

■ 268.2839, 0.2642,

■ 0.5739, 0.0000,

0.3075

0.1611

321.3795, 0.2669,  
0.3088

■ 0.0000, 0.0000,  
0.0000

■ 48.5721, 0.2296,  
0.2894

■ 48.5721, 0.2296,  
0.2894

■ 45.4664, 0.2207,  
0.2818

■ 52.0985, 0.2403,  
0.2969

■ 42.7418, 0.2137,  
0.2741

■ 56.0700, 0.2526,  
0.3040


■ 40.3597, 0.2086,  
0.2664

■ 60.5152, 0.2662,  
0.3109


■ 38.4510, 0.2055,  
0.2597


■ 65.4584, 0.2807,  
0.3172

■ 70.9221, 0.2958,  
0.3231

 76.9276, 0.3111,  
0.3285

 83.4944, 0.3266,  
0.3333

 87.4255, 0.3306,  
0.3379

 90.2107, 0.3300,  
0.3426

# Harmonies

## Analogous

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



48.5721, 0.2437, 0.3303



48.5721, 0.2296, 0.2894



48.5721, 0.2355, 0.2635

# Triad

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



48.5721, 0.2296, 0.2894



48.5721, 0.3470, 0.2885



48.5721, 0.3632, 0.4101

# Complementary

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



48.5721, 0.2296, 0.2894



30.1295, 0.4820, 0.3609

# 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.



48.5721, 0.3946, 0.3909



48.5721, 0.2296, 0.2894



48.5721, 0.3859, 0.3215

# Square

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



48.5721, 0.2296, 0.2894



48.5721, 0.3005, 0.2650



48.5721, 0.4036, 0.3581



48.5721, 0.3196, 0.4055



# Rectangle

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



48.5721, 0.2296, 0.2894



48.5721, 0.2501, 0.2563



48.5721, 0.4036, 0.3581



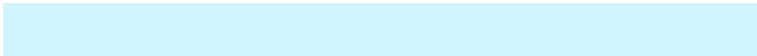
48.5721, 0.3756, 0.4059

# Sweetspot

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



48.5739, 0.2296, 0.2894



86.3631, 0.2850, 0.3190



58.8723, 0.2916, 0.4899



18.0591, 0.2806, 0.3172



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.



48.5739, 0.2296, 0.2894



57.7153, 0.2188, 0.2799



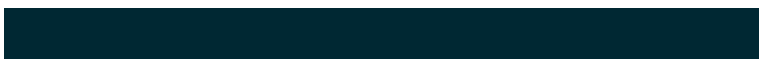
23.8457, 0.2067, 0.1883



15.8000, 0.2981, 0.3240



22.3830, 0.2058, 0.2608



1.7824, 0.2089, 0.2719



# Inverse Universe

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



27.7397, 0.3512, 0.2124



30.4682, 0.3615, 0.1974



52.4339, 0.4260, 0.4345



14.5611, 0.3170, 0.3106



11.4573, 0.3816, 0.1876



0.8596, 0.3710, 0.1818



# Previews

## White Background



This preview shows how the Yxy color 48.5721, 0.2296, 0.2894 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

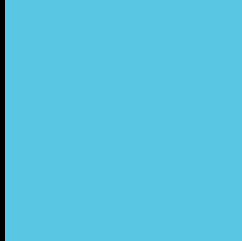
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 48.5721, 0.2296, 0.2894 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 48.5721, 0.2296, 0.2894**

## **Background**



This preview shows how black text looks on a background with the Yxy color 48.5721, 0.2296, 0.2894.



This preview shows how white text looks on a background with the Yxy color 48.5721, 0.2296, 0.2894.

# 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

48.5721, 0.2296, 0.2894

### Protanopia

47.8128, 0.2828, 0.2853

### Deuteranopia

47.8158, 0.2726, 0.2659



## Tritanopia

48.6679, 0.2334, 0.3064

# Trichromacy



**Original Color**

48.5721, 0.2296, 0.2894

**Protanomaly**

47.2066, 0.2586, 0.2858

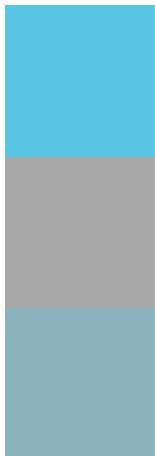
**Deuteranomaly**

47.3299, 0.2527, 0.2726

**Tritanomaly**

48.5074, 0.2320, 0.2997

# Monochromacy



**Original Color**

48.5721, 0.2296, 0.2894

**Achromatopsia**

39.6755, 0.3127, 0.3290

**Achromatomaly**

41.9357, 0.2734, 0.3147

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 48.5721, 0.2296, 0.2894 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(89, 199, 228)` looks like.

```
.text, #text, p{  
    color:rgb(89, 199, 228)  
}
```

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(89, 199, 228) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(89, 199, 228) }
```

## Border

The CSS property to change the border of an element to Yxy 48.5721, 0.2296, 0.2894 is called "border". The border property can be set on classes, ids or directly on the HTML element.

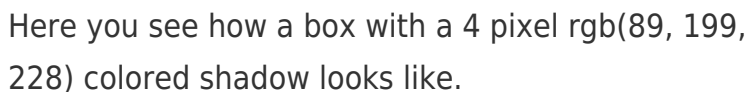
This example shows the color as border, it can be applied via the CSS property "border" or "border-color".

```
.border, #border, table{ border:4px solid rgb(89, 199, 228) }
```

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

```
.border{ border-color:rgb(89, 199, 228) }
```

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



Here you see how a box with a 4 pixel `rgb(89, 199, 228)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px 4px rgb(89, 199, 228); -webkit-box-shadow:4px 4px 4px 4px rgb(89, 199, 228); box-shadow:4px 4px 4px 4px rgb(89, 199, 228) }
```



# Background

The CSS property to change the background color of an element to Yxy 48.5721, 0.2296, 0.2894 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(89, 199, 228) }
```

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

```
.background{ background-color: rgb(89, 199,  
228) }
```

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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