

# Converting Colors

$Y_{xy}(38.2989, 0.2327, 0.2983)$

Have a look what the booklet for  
Yxy(38.2989, 0.2327, 0.2983)  
contains.

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# Color

**Yxy(38.5181, 0.2329, 0.2984)**

# Conversions

## Conversions Part 1

Format	Color
Hex	50B4C8
RGB	80, 180, 200
RGB Percent	31%, 71%, 78%
CMY	0.6858, 0.2942, 0.2156
CMYK	0.60, 0.10, 0.00, 0.22
HSL	190°, 52%, 55%
HSV	190°, 60%, 78%
XYZ	30.0632, 38.5181, 60.5008
YIQ	152.3800, -66.0200, -14.9800

# Conversions

## Conversions Part 2

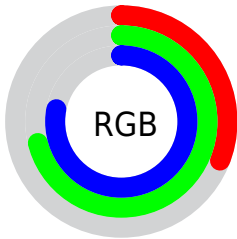
Format	Color
R <sub>Y</sub> B	80, 135, 200
Decimal	5289160
CIE Lab	68.40, -23.12, -18.90
CIE LCh	68, 29.869, 219.266
Yxy	38.5181, 0.2329, 0.2984
Android (android.graphics.Color)	4283479240 (0xFF50B4C8)
YUV	152.3800, 23.4767, -63.4773
Hunter-Lab	62.0630, -22.1450, -14.3536

# Details

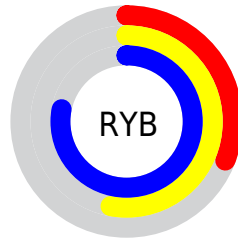
The Yxy color **38.5181, 0.2329, 0.2984** is a light color, and the websafe version is hex **66CCCC**. The color can be described as light muted azure. A complement of this color would be **22.0046, 0.4803, 0.3541**, and the grayscale version is **31.5041, 0.3127, 0.3290**.

A 20% lighter version of the original color is **72.7864, 0.2481, 0.3069**, and **17.2541, 0.2134, 0.2881** is the 20% darker color. If you saturate the color by 10%, you get **36.4407, 0.2243, 0.2925**, and if you desaturate by 10%, it is **40.8901, 0.2433, 0.3042**.

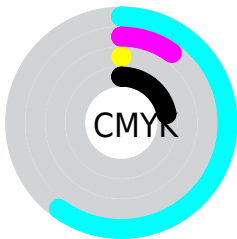
# Distribution



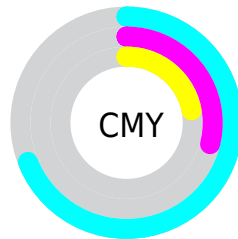
- Red (31%)
- Green (71%)
- Blue (78%)



- Red (31%)
- Yellow (53%)
- Blue (78%)



- Cyan (60%)
- Magenta (10%)
- Yellow (0%)
- Black (22%)




- Cyan (69%)
- Magenta (29%)
- Yellow (22%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 38.5181, 0.2329, 0.2984 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 38.5181, 0.2329, 0.2984 by changing the saturation by 10% instead.





 38.5181, 0.2329,  
0.2984

 38.5181, 0.2329,  
0.2984


339.8373, 0.2728,  
0.3152

 26.3850, 0.2231,  
0.2938


 72.9016, 0.2473,  
0.3048


 17.1119, 0.2106,  
0.2876


 95.9208, 0.2528,  
0.3071

 10.3143, 0.1942,  
0.2789


 123.3374, 0.2574,  
0.3091

 5.6079, 0.1719,  
0.2662

 155.5360, 0.2613,  
0.3107

 2.6081, 0.1405,  
0.2458

192.9009, 0.2648,  
0.3121

 0.9308, 0.0737,  
0.2147

235.8165, 0.2678,

 0.0000, 0.0000,

0.3132

0.0000

284.6672, 0.2704,  
0.3143

■ 38.5181, 0.2329,  
0.2984

■ 38.5181, 0.2329,  
0.2984

■ 36.4407, 0.2243,  
0.2925

■ 40.8901, 0.2433,  
0.3042

■ 34.6295, 0.2176,  
0.2865

■ 43.5735, 0.2552,  
0.3098

■ 33.0578, 0.2129,  
0.2805

■ 46.5886, 0.2684,  
0.3152

■ 31.6723, 0.2096,  
0.2746

■ 49.9528, 0.2826,  
0.3202

■ 31.6643, 0.2096,  
0.2746

■ 53.6821, 0.2975,  
0.3248

■ 57.7915, 0.3128,  
0.3290

■ 62.2951, 0.3282,  
0.3328

■ 67.2061, 0.3435,  
0.3363

■ 71.5505, 0.3545,  
0.3394

# Harmonies

## Analogous

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



38.5181, 0.2511, 0.3404



38.5181, 0.2329, 0.2984



38.5181, 0.2342, 0.2693

# Triad

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



38.5181, 0.2329, 0.2984



38.5181, 0.3361, 0.2832



38.5181, 0.3704, 0.4056

# Complementary

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



38.5181, 0.2329, 0.2984



22.0046, 0.4803, 0.3541

# 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.



38.5181, 0.3968, 0.3831



38.5181, 0.2329, 0.2984



38.5181, 0.3770, 0.3140

# Square

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



38.5181, 0.2329, 0.2984



38.5181, 0.2911, 0.2631



38.5181, 0.3997, 0.3496



38.5181, 0.3295, 0.4069



# Rectangle

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



38.5181, 0.2329, 0.2984



38.5181, 0.2459, 0.2595



38.5181, 0.3997, 0.3496



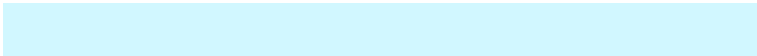
38.5181, 0.3814, 0.4000

# Sweetspot

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



38.5195, 0.2329, 0.2984



87.5158, 0.2851, 0.3210



43.9473, 0.2939, 0.4915



18.3435, 0.2808, 0.3196



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.



38.5195, 0.2329, 0.2984



62.0666, 0.2220, 0.2906



19.3352, 0.2108, 0.1991



11.7543, 0.2984, 0.3250



20.2437, 0.2098, 0.2754



1.0409, 0.2133, 0.2877



# Inverse Universe

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



21.3312, 0.3435, 0.2097



31.2176, 0.3519, 0.1927



38.0208, 0.4261, 0.4280



10.7850, 0.3163, 0.3100



9.5836, 0.3677, 0.1799



0.4621, 0.3564, 0.1737



# Previews

## White Background



This preview shows how the Yxy color 38.5181, 0.2329, 0.2984 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 38.5181, 0.2329, 0.2984 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

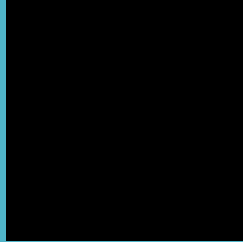
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**Yxy 38.5181, 0.2329, 0.2984**

## **Background**



This preview shows how black text looks on a background with the Yxy color 38.5181, 0.2329, 0.2984.



This preview shows how white text looks on a background with the Yxy color 38.5181, 0.2329, 0.2984.

# 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

38.5181, 0.2329, 0.2984

### Protanopia

37.8457, 0.2885, 0.2930

### Deuteranopia

37.9868, 0.2794, 0.2727



## Tritanopia

38.6076, 0.2349, 0.3073

# Trichromacy



**Original Color**

38.5181, 0.2329, 0.2984

**Protanomaly**

37.5500, 0.2634, 0.2941

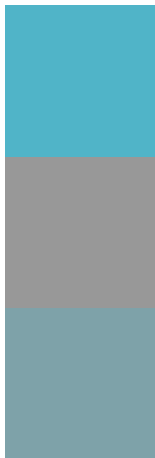
**Deuteranomaly**

37.6743, 0.2580, 0.2806

**Tritanomaly**

38.7412, 0.2343, 0.3043

# Monochromacy



**Original Color**

38.5181, 0.2329, 0.2984

**Achromatopsia**

31.3989, 0.3127, 0.3290

**Achromatomaly**

33.1409, 0.2752, 0.3179

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 38.5181, 0.2329, 0.2984 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, 180, 200)` looks like.

```
.text, #text, p{  
    color:rgb(80, 180, 200)  
}
```

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, 180, 200) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(80, 180, 200) }
```

## Border

The CSS property to change the border of an element to Yxy 38.5181, 0.2329, 0.2984 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, 180, 200) }
```

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

```
.border{ border-color:rgb(80, 180, 200) }
```

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

Here you see how a box with a 4 pixel `rgb(80, 180, 200)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(80, 180, 200); -webkit-box-  
shadow:4px 4px 4px 4px rgb(80, 180, 200);  
box-shadow:4px 4px 4px 4px rgb(80, 180,  
200) }
```



# Background

The CSS property to change the background color of an element to Yxy 38.5181, 0.2329, 0.2984 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(80, 180, 200) }
```

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

```
.background{ background-color: rgb(80, 180,  
200) }
```

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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