

# Converting Colors

$Yxy(37.9532, 0.2108, 0.2576)$

Have a look what the booklet for  
Yxy(37.9532, 0.2108, 0.2576)  
contains.

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# Color

**Yxy(38.0906, 0.2110, 0.2580)**

# Conversions

## Conversions Part 1

Format	Color
Hex	33B2E3
RGB	51, 178, 227
RGB Percent	20%, 70%, 89%
CMY	0.8000, 0.3020, 0.1097
CMYK	0.78, 0.22, 0.00, 0.11
HSL	197°, 76%, 55%
HSV	197°, 78%, 89%
XYZ	31.1516, 38.0906, 78.3958
YIQ	145.6130, -91.4210, -11.6850

# Conversions

## Conversions Part 2

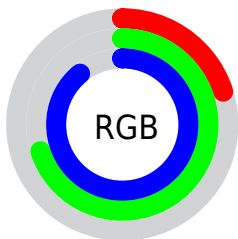
<b>Format</b>	<b>Color</b>
R <sub>YB</sub>	51, 125, 227
Decimal	3388131
CIE Lab	68.09, -17.71, -34.28
CIE LCh	68, 38.583, 242.675
Yxy	38.0906, 0.2110, 0.2580
Android (android.graphics.Color)	4281578211 (0xFF33B2E3)
YUV	145.6130, 40.1238, -82.9756
Hunter-Lab	61.7176, -17.9089, -32.1099

# Details

The Yxy color **38.0906, 0.2110, 0.2580** is a light color, and the websafe version is hex **0099CC**. The color can be described as light washed azure. A complement of this color would be **25.6878, 0.5364, 0.3741**, and the grayscale version is **28.4386, 0.3127, 0.3290**.

A 20% lighter version of the original color is **70.2766, 0.2407, 0.3040**, and **17.6075, 0.1999, 0.2397** is the 20% darker color. If you saturate the color by 10%, you get **35.1814, 0.2043, 0.2475**, and if you desaturate by 10%, it is **41.4059, 0.2197, 0.2686**.

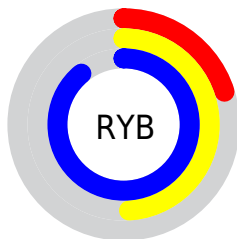
# Distribution



Red (20%)

Green (70%)

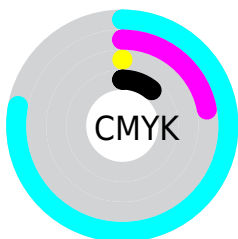
Blue (89%)



Red (20%)

Yellow (49%)

Blue (89%)

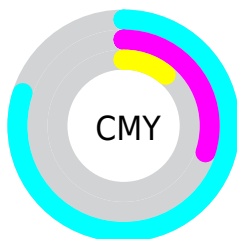


Cyan (78%)

Magenta (22%)

Yellow (0%)

Black (11%)



Cyan (80%)

Magenta (30%)

Yellow (11%)

# Brightness & Saturation Gradients

These gradients show how the Yxy color 38.0906, 0.2110, 0.2580 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 38.0906, 0.2110, 0.2580 by changing the saturation by 10% instead.




 38.0906, 0.2110,  
0.2580


 38.0906, 0.2110,  
0.2580


338.0085, 0.2609,  
0.2949

 26.0530, 0.1991,  
0.2486


 72.2470, 0.2288,  
0.2716


 16.8633, 0.1843,  
0.2365

 95.1346, 0.2356,  
0.2767

 10.1371, 0.1654,  
0.2205


 122.4076, 0.2414,  
0.2809

 5.4899, 0.1408,  
0.1986

 154.4505, 0.2464,  
0.2846

 2.5375, 0.1083,  
0.1676

 191.6476, 0.2507,  
0.2877

 0.8953, 0.0578,  
0.1236

234.3834, 0.2545,

 0.0000, 0.0000,

0.2904

0.0000

283.0422, 0.2579,  
0.2928

■ 38.0906, 0.2110,  
0.2580

■ 38.0906, 0.2110,  
0.2580

■ 35.1814, 0.2043,  
0.2475

■ 41.4059, 0.2197,  
0.2686

■ 32.6229, 0.1995,  
0.2371

■ 45.1618, 0.2303,  
0.2790

■ 32.0278, 0.1985,  
0.2345

■ 49.3925, 0.2426,  
0.2891

■ 54.1273, 0.2561,  
0.2987

■ 59.3927, 0.2706,  
0.3077

■ 65.2128, 0.2857,  
0.3161

■ 71.6103, 0.3011,  
0.3237

■ 78.6063, 0.3165,  
0.3306

■ 86.1632, 0.3315,  
0.3368

# Harmonies

## Analogous

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



38.0906, 0.2143, 0.2989



38.0906, 0.2110, 0.2580



38.0906, 0.2312, 0.2396

# Triad

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



38.0906, 0.2110, 0.2580



38.0906, 0.3858, 0.2998



38.0906, 0.3453, 0.4339

# Complementary

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



38.0906, 0.2110, 0.2580



25.6878, 0.5364, 0.3741

# 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.



38.0906, 0.3956, 0.4224



38.0906, 0.2110, 0.2580



38.0906, 0.4221, 0.3433

# Square

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



38.0906, 0.2110, 0.2580



38.0906, 0.3293, 0.2642



38.0906, 0.4248, 0.3874



38.0906, 0.2889, 0.4095



# Rectangle

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



38.0906, 0.2110, 0.2580



38.0906, 0.2568, 0.2394



38.0906, 0.4248, 0.3874



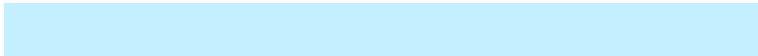
38.0906, 0.3635, 0.4337

# Sweetspot

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



38.0919, 0.2110, 0.2580



80.5419, 0.2772, 0.3115



56.5321, 0.2864, 0.5216



16.6637, 0.2717, 0.3084



0.0000, 0.0000, 0.0000



21.4041, 0.3127, 0.3290

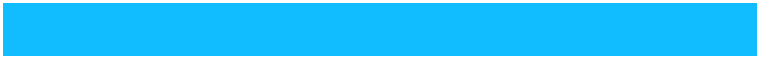


# Same Dimension

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



38.0919, 0.2110, 0.2580



43.7271, 0.2012, 0.2411



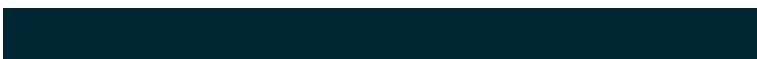
13.9154, 0.1776, 0.1296



15.6222, 0.2981, 0.3223



18.8813, 0.1989, 0.2361



1.5497, 0.2031, 0.2513



# Inverse Universe

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



21.9148, 0.3822, 0.2048



25.3603, 0.4008, 0.2007



51.6671, 0.4450, 0.4614



14.5432, 0.3180, 0.3122



11.1038, 0.4063, 0.2012

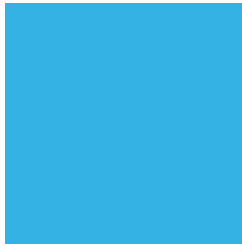


0.8361, 0.3910, 0.1927



# Previews

## White Background



This preview shows how the Yxy color 38.0906, 0.2110, 0.2580 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

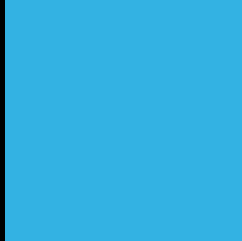
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 38.0906, 0.2110, 0.2580 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

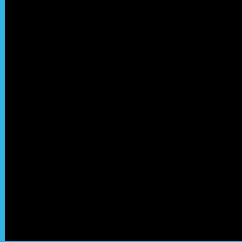
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

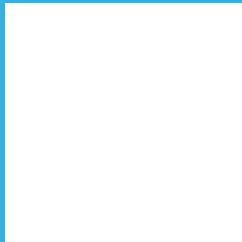
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**Yxy 38.0906, 0.2110, 0.2580**

## **Background**



This preview shows how black text looks on a background with the Yxy color 38.0906, 0.2110, 0.2580.

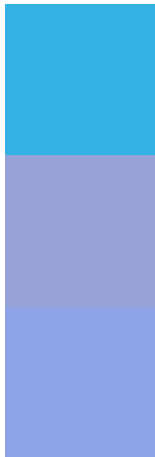


This preview shows how white text looks on a background with the Yxy color 38.0906, 0.2110, 0.2580.

# 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

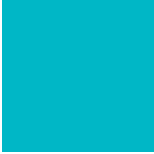
38.0906, 0.2110, 0.2580

### Protanopia

37.7316, 0.2616, 0.2580

### Deuteranopia

37.6583, 0.2466, 0.2409



## **Tritanopia**

37.9442, 0.2181, 0.3050

# Trichromacy



**Original Color**

38.0906, 0.2110, 0.2580

**Protanomaly**

36.8174, 0.2363, 0.2560

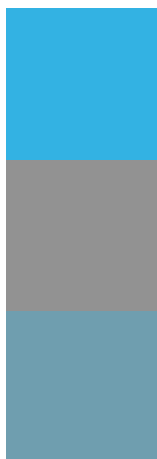
**Deuteranomaly**

36.9136, 0.2285, 0.2448

**Tritanomaly**

37.7896, 0.2141, 0.2858

# Monochromacy



**Original Color**

38.0906, 0.2110, 0.2580

**Achromatopsia**

28.7441, 0.3127, 0.3290

**Achromatomaly**

30.9284, 0.2585, 0.3015

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 38.0906, 0.2110, 0.2580 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(51, 178, 227)` looks like.

```
.text, #text, p{  
    color:rgb(51, 178, 227)  
}
```

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(51, 178, 227) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(51, 178, 227) }
```

## Border

The CSS property to change the border of an element to Yxy 38.0906, 0.2110, 0.2580 is called "border". The border property can be set on classes, ids or directly on the HTML element.

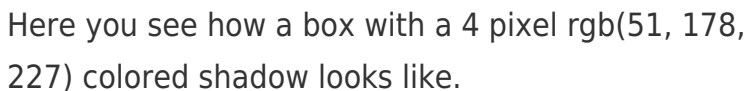
This example shows the color as border, it can be applied via the CSS property "border" or "border-color".

```
.border, #border, table{ border:4px solid rgb(51, 178, 227) }
```

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

```
.border{ border-color:rgb(51, 178, 227) }
```

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

A rectangular box with a 4px colored shadow. The shadow is a dark gray color, matching the RGB(51, 178, 227) color mentioned in the text. The box itself is white with a thin gray border.

Here you see how a box with a 4 pixel `rgb(51, 178, 227)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(51, 178, 227); -webkit-box-  
shadow:4px 4px 4px 4px rgb(51, 178, 227);  
box-shadow:4px 4px 4px 4px rgb(51, 178,  
227) }
```



# Background

The CSS property to change the background color of an element to Yxy 38.0906, 0.2110, 0.2580 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(51, 178, 227) }
```

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

```
.background{ background-color: rgb(51, 178,  
227) }
```

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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