

# Converting Colors

$Y_{xy}(28.9649, 0.1127, 0.2173)$

Have a look what the booklet for  
Yxy(28.9649, 0.1127, 0.2173)  
contains.

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# Color

**Yxy(37.5217, 0.1987, 0.2351)**

# Conversions

## Conversions Part 1

Format	Color
Hex	01B0F3
RGB	1, 176, 243
RGB Percent	0%, 69%, 95%
CMY	0.9958, 0.3099, 0.0471
CMYK	1.00, 0.28, 0.00, 0.05
HSL	197°, 99%, 48%
HSV	197°, 100%, 95%
XYZ	31.7123, 37.5217, 90.3649
YIQ	131.3130, -125.8070, -16.2630

# Conversions

## Conversions Part 2

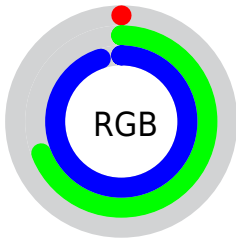
Format	Color
R <sub>Y</sub> B	1, 103, 243
Decimal	110835
CIE Lab	67.67, -13.84, -43.70
CIE LCh	68, 45.838, 252.423
Yxy	37.5217, 0.1987, 0.2351
Android (android.graphics.Color)	4278300915 (0xFF01B0F3)
YUV	131.3130, 55.0617, -114.2845
Hunter-Lab	61.2550, -14.7850, -44.5877

# Details

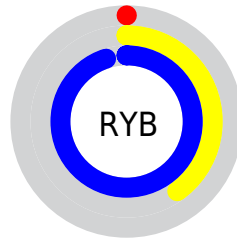
The Yxy color **37.5217, 0.1987, 0.2351** is a dark color, and the websafe version is hex **0099CC**. The color can be described as middle saturated azure. A complement of this color would be **23.2022, 0.6035, 0.3586**, and the grayscale version is **22.6529, 0.3127, 0.3290**.

A 20% lighter version of the original color is **68.2482, 0.2354, 0.3012**, and **17.9605, 0.1934, 0.2161** is the 20% darker color. If you saturate the color by 10%, you get **37.3995, 0.1985, 0.2346**, and if you desaturate by 10%, it is **40.4327, 0.2031, 0.2454**.

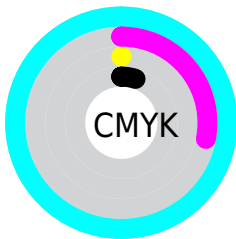
# Distribution



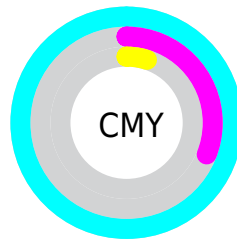
- Red (0%)
- Green (69%)
- Blue (95%)



- Red (0%)
- Yellow (40%)
- Blue (95%)



- Cyan (100%)
- Magenta (28%)
- Yellow (0%)
- Black (5%)




- Cyan (100%)
- Magenta (31%)
- Yellow (5%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 37.5217, 0.1987, 0.2351 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 37.5217, 0.1987, 0.2351 by changing the saturation by 10% instead.




 37.5217, 0.1987,  
0.2351


 37.5217, 0.1987,  
0.2351


335.5637, 0.2541,  
0.2827


 25.6117, 0.1858,  
0.2235


 71.3744, 0.2182,  
0.2523

 16.5334, 0.1699,  
0.2088


 94.0859, 0.2257,  
0.2588

 9.9024, 0.1500,  
0.1900


 121.1667, 0.2322,  
0.2643

 5.3343, 0.1248,  
0.1652

 153.0012, 0.2377,  
0.2691

 2.4447, 0.0930,  
0.1321

 189.9737, 0.2426,  
0.2732

 0.8487, 0.0492,  
0.0891

232.4687, 0.2469,

 0.0000, 0.0000,

0.2767

0.0000

280.8706, 0.2507,  
0.2799

■ 37.5217, 0.1987,  
0.2351

■ 37.5217, 0.1987,  
0.2351

■ 37.3995, 0.1985,  
0.2346

■ 40.4327, 0.2031,  
0.2454

■ 43.7291, 0.2094,  
0.2560

■ 47.4867, 0.2176,  
0.2665

■ 51.7526, 0.2279,  
0.2769

■ 56.5672, 0.2398,  
0.2871

■ 61.9656, 0.2531,  
0.2968

■ 67.9798, 0.2675,  
0.3060

■ 74.6387, 0.2825,  
0.3144

■ 81.9695, 0.2979,  
0.3222

# Harmonies

## Analogous

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



37.5217, 0.1934, 0.2734



37.5217, 0.1987, 0.2351



37.5217, 0.2300, 0.2232

# Triad

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



37.5217, 0.1987, 0.2351



37.5217, 0.4179, 0.3095



37.5217, 0.3280, 0.4515

# Complementary

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



37.5217, 0.1987, 0.2351



23.2022, 0.6035, 0.3586

# 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.



37.5217, 0.3919, 0.4481



37.5217, 0.1987, 0.2351



37.5217, 0.4488, 0.3608

# Square

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



37.5217, 0.1987, 0.2351



37.5217, 0.3550, 0.2651



37.5217, 0.4374, 0.4110



37.5217, 0.2634, 0.4082



# Rectangle

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



37.5217, 0.1987, 0.2351



37.5217, 0.2645, 0.2283



37.5217, 0.4374, 0.4110



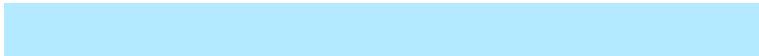
37.5217, 0.3503, 0.4554

# Sweetspot

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



37.5229, 0.1987, 0.2351



75.4811, 0.2667, 0.3055



64.4971, 0.2915, 0.5691



15.5339, 0.2605, 0.3017



0.0000, 0.0000, 0.0000



21.4041, 0.3127, 0.3290

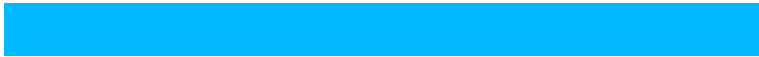


# Same Dimension

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



37.5229, 0.1987, 0.2351



41.6521, 0.1985, 0.2344



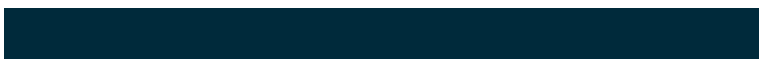
9.4563, 0.1567, 0.0838



17.9362, 0.2980, 0.3223



20.7640, 0.1990, 0.2363



1.9968, 0.2026, 0.2493



# Inverse Universe

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



22.2121, 0.4073, 0.2019



24.7359, 0.4081, 0.2022



54.4077, 0.4682, 0.4662



16.6854, 0.3180, 0.3120



12.1955, 0.4061, 0.2011

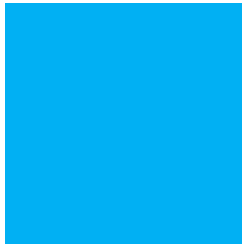


1.0892, 0.3929, 0.1938



# Previews

## White Background



This preview shows how the Yxy color 37.5217, 0.1987, 0.2351 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

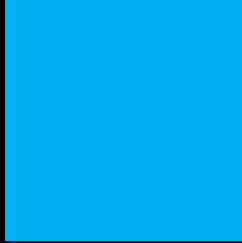
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 37.5217, 0.1987, 0.2351 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

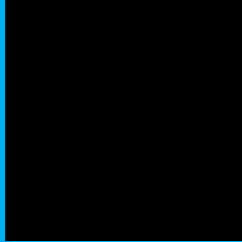
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

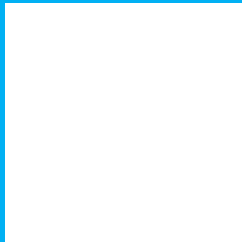
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**Yxy 37.5217, 0.1987, 0.2351**

## **Background**



This preview shows how black text looks on a background with the Yxy color 37.5217, 0.1987, 0.2351.



This preview shows how white text looks on a background with the Yxy color 37.5217, 0.1987, 0.2351.

# 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

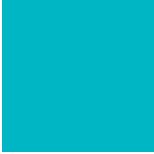
37.5282, 0.1987, 0.2351

### Protanopia

37.0100, 0.2456, 0.2372

### Deuteranopia

37.2838, 0.2282, 0.2219



## Tritanopia

37.4414, 0.2185, 0.3065

# Trichromacy



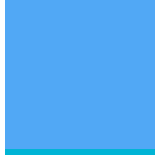
## Original Color

37.5282, 0.1987, 0.2351



## Protanomaly

35.4947, 0.2165, 0.2333



## Deuteranomaly

36.3472, 0.2093, 0.2246



## Tritanomaly

37.4466, 0.2107, 0.2785

# Monochromacy



## Original Color

37.5282, 0.1987, 0.2351



## Achromatopsia

22.6966, 0.3127, 0.3290



## Achromatomaly

25.7308, 0.2390, 0.2855

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 37.5217, 0.1987, 0.2351 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(1, 176, 243)` looks like.

```
.text, #text, p{  
    color:rgb(1, 176, 243)  
}
```

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(1, 176, 243) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(1, 176, 243) }
```

## Border

The CSS property to change the border of an element to Yxy 37.5217, 0.1987, 0.2351 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(1, 176, 243) }
```

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

```
.border{ border-color:rgb(1, 176, 243) }
```

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

Here you see how a box with a 4 pixel `rgb(1, 176, 243)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(1, 176, 243); -webkit-box-  
shadow:4px 4px 4px 4px rgb(1, 176, 243);  
box-shadow:4px 4px 4px 4px rgb(1, 176,  
243) }
```



# Background

The CSS property to change the background color of an element to Yxy 37.5217, 0.1987, 0.2351 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(1, 176, 243) }
```

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

```
.background{ background-color: rgb(1, 176,  
243) }
```

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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