

# Converting Colors

$Y_{xy}(42.1436, 0.1729, 0.1659)$

Have a look what the booklet for  
Yxy(42.1436, 0.1729, 0.1659)  
contains.

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# Color

**Yxy(38.2707, 0.1951, 0.2224)**

# Conversions

## Conversions Part 1

Format	Color
Hex	00B0FF
RGB	0, 176, 255
RGB Percent	0%, 69%, 100%
CMY	1.0000, 0.3098, 0.0000
CMYK	1.00, 0.31, 0.00, 0.00
HSL	199°, 100%, 50%
HSV	199°, 100%, 100%
XYZ	33.5729, 38.2707, 100.2369
YIQ	132.3820, -130.2550, -12.7430

# Conversions

## Conversions Part 2

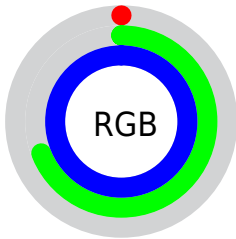
<b>Format</b>	<b>Color</b>
<b>RYB</b>	0, 104, 255
Decimal	45311
CIELab	68.22, -9.57, -49.35
CIELCh	68, 50.273, 259.024
Yxy	38.2707, 0.1951, 0.2224
Android (android.graphics.Color)	4278235391 (0xFF00B0FF)
YUV	132.3820, 60.4507, -116.0990
Hunter-Lab	61.8633, -11.3898, -52.7630

# Details

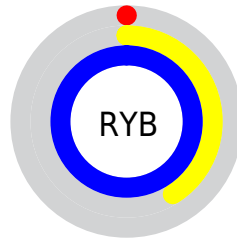
The Yxy color **38.2707, 0.1951, 0.2224** is a dark color, and the websafe version is hex **3399CC**. The color can be described as middle saturated azure. A complement of this color would be **26.8509, 0.5971, 0.3641**, and the grayscale version is **23.0339, 0.3127, 0.3290**.

A 20% lighter version of the original color is **67.8825, 0.2362, 0.3001**, and **18.4925, 0.1892, 0.2011** is the 20% darker color. If you saturate the color by 10%, you get **38.2734, 0.1951, 0.2224**, and if you desaturate by 10%, it is **41.6752, 0.1999, 0.2341**.

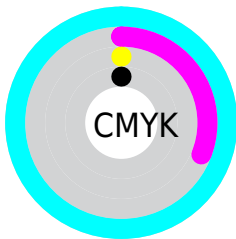
# Distribution



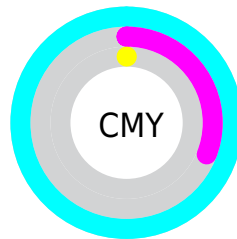
- Red (0%)
- Green (69%)
- Blue (100%)



- Red (0%)
- Yellow (41%)
- Blue (100%)



- Cyan (100%)
- Magenta (31%)
- Yellow (0%)
- Black (0%)




- Cyan (100%)
- Magenta (31%)
- Yellow (0%)

# Brightness & Saturation Gradients

These gradients show how the Yxy color 38.2707, 0.1951, 0.2224 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 38.2707, 0.1951, 0.2224 by changing the saturation by 10% instead.





 38.2707, 0.1951,  
0.2224


 38.2707, 0.1951,  
0.2224


338.7798, 0.2517,  
0.2752


 26.1929, 0.1821,  
0.2099


 72.5229, 0.2149,  
0.2412


 16.9680, 0.1662,  
0.1943

 95.4660, 0.2226,  
0.2484


 10.2117, 0.1465,  
0.1748


 122.7996, 0.2292,  
0.2545

 5.5395, 0.1219,  
0.1497

 154.9082, 0.2349,  
0.2598

 2.5672, 0.0912,  
0.1174

 192.1761, 0.2399,  
0.2644

 0.9102, 0.0533,  
0.0769

234.9877, 0.2443,

 0.0000, 0.0000,

0.2685

0.0000

283.7275, 0.2482,  
0.2721

■ 38.2707, 0.1951,  
0.2224

■ 38.2707, 0.1951,  
0.2224

■ 38.2734, 0.1951,  
0.2224

■ 41.6752, 0.1999,  
0.2341

■ 45.5378, 0.2064,  
0.2460

■ 49.9491, 0.2151,  
0.2579

■ 54.9638, 0.2257,  
0.2698

■ 60.6282, 0.2380,  
0.2813

■ 66.9832, 0.2517,  
0.2923

■ 74.0653, 0.2664,  
0.3027

■ 81.9084, 0.2816,  
0.3123

■ 90.5435, 0.2972,  
0.3210

# Harmonies

## Analogous

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



38.2707, 0.1832, 0.2564



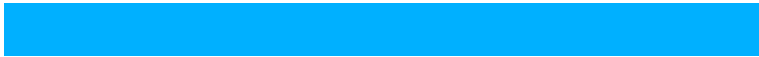
38.2707, 0.1951, 0.2224



38.2707, 0.2343, 0.2159

# Triad

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



38.2707, 0.1951, 0.2224



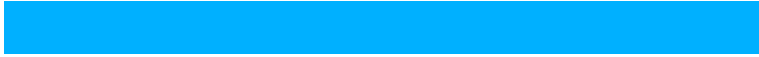
38.2707, 0.4385, 0.3190



38.2707, 0.3123, 0.4576

# Complementary

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



38.2707, 0.1951, 0.2224



26.8509, 0.5971, 0.3641

# 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.



38.2707, 0.3833, 0.4632



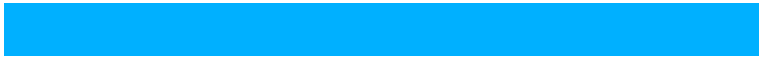
38.2707, 0.1951, 0.2224



38.2707, 0.4616, 0.3742

# Square

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



38.2707, 0.1951, 0.2224



38.2707, 0.3753, 0.2694



38.2707, 0.4390, 0.4272



38.2707, 0.2452, 0.3999



# Rectangle

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



38.2707, 0.1951, 0.2224



38.2707, 0.2747, 0.2249



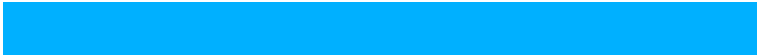
38.2707, 0.4390, 0.4272



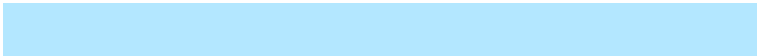
38.2707, 0.3365, 0.4655

# Sweetspot

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



38.2734, 0.1951, 0.2224



74.0653, 0.2664, 0.3027



72.0488, 0.2897, 0.5628



15.1944, 0.2601, 0.2984



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.



38.2734, 0.1951, 0.2224



9.5877, 0.1548, 0.0772



19.4761, 0.2980, 0.3215



20.2766, 0.1957, 0.2244



2.1688, 0.1994, 0.2377

# Inverse Universe

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



24.3949, 0.4206, 0.2091



64.4457, 0.4606, 0.4725



18.1989, 0.3186, 0.3127



12.7749, 0.4186, 0.2080



1.2635, 0.4046, 0.2003

# Previews

## White Background



This preview shows how the Yxy color 38.2707, 0.1951, 0.2224 looks on a white background.

## Color Contrast Check

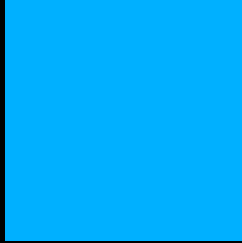
Large Text (above 18pt) WCAG AA × Fail

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 38.2707, 0.1951, 0.2224 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

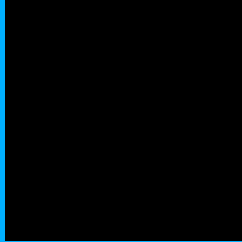
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

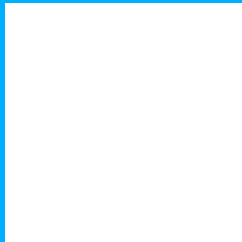
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**Yxy 38.2707, 0.1951, 0.2224**

## **Background**



This preview shows how black text looks on a background with the Yxy color 38.2707, 0.1951, 0.2224.



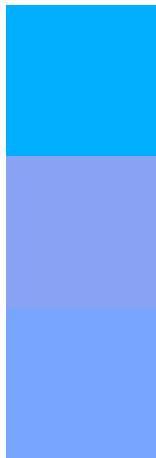
This preview shows how white text looks on a background with the Yxy color 38.2707, 0.1951, 0.2224.



# 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

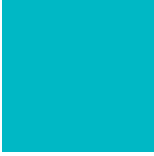
38.2707, 0.1951, 0.2224

### Protanopia

37.7756, 0.2361, 0.2245

### Deuteranopia

38.0522, 0.2209, 0.2149



## **Tritanopia**

38.3122, 0.2189, 0.3082

# Trichromacy



## Original Color

38.2707, 0.1951, 0.2224



## Protanomaly

36.4895, 0.2105, 0.2208



## Deuteranomaly

37.1324, 0.2044, 0.2155



## Tritanomaly

38.1097, 0.2093, 0.2733

# Monochromacy



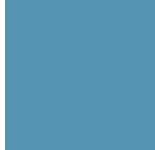
## Original Color

38.2707, 0.1951, 0.2224



## Achromatopsia

23.0740, 0.3127, 0.3290



## Achromatomaly

26.2390, 0.2362, 0.2794

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 38.2707, 0.1951, 0.2224 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(0, 176, 255)` looks like.

```
.text, #text, p{  
    color:rgb(0, 176, 255)  
}
```

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(0, 176, 255) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(0, 176, 255) }
```

## Border

The CSS property to change the border of an element to Yxy 38.2707, 0.1951, 0.2224 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(0, 176, 255) }
```

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

```
.border{ border-color:rgb(0, 176, 255) }
```

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

Here you see how a box with a 4 pixel `rgb(0, 176, 255)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(0, 176, 255); -webkit-box-  
shadow:4px 4px 4px 4px rgb(0, 176, 255);  
box-shadow:4px 4px 4px 4px rgb(0, 176,  
255) }
```

# Background

The CSS property to change the background color of an element to Yxy 38.2707, 0.1951, 0.2224 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(0, 176, 255) }
```

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

```
.background{ background-color: rgb(0, 176,  
255) }
```

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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