

# Converting Colors

$Yxy(38.0514, 0.1997, 0.2204)$

Have a look what the booklet for  
Yxy(38.0514, 0.1997, 0.2204)  
contains.

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# Color

**Yxy(38.1959, 0.1998, 0.2209)**

# Conversions

## Conversions Part 1

Format	Color
Hex	33AEFF
RGB	51, 174, 255
RGB Percent	20%, 68%, 100%
CMY	0.8004, 0.3176, 0.0000
CMYK	0.80, 0.32, 0.00, 0.00
HSL	204°, 100%, 60%
HSV	204°, 80%, 100%
XYZ	34.5475, 38.1959, 100.1670
YIQ	146.4570, -99.3090, -0.8850

# Conversions

## Conversions Part 2

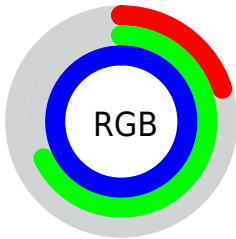
<b>Format</b>	<b>Color</b>
R <sub>Y</sub> B	51, 128, 255
Decimal	3387135
CIE Lab	68.16, -5.95, -49.40
CIE LCh	68, 49.759, 263.135
Yxy	38.1959, 0.1998, 0.2209
Android (android.graphics.Color)	4281577215 (0xFF33AEFF)
YUV	146.4570, 53.5117, -83.7158
Hunter-Lab	61.8028, -8.3743, -52.8323

# Details

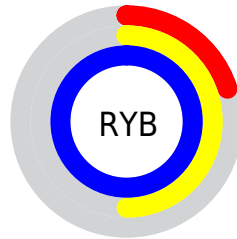
The Yxy color **38.1959, 0.1998, 0.2209** is a light color, and the websafe version is hex **0099FF**. The color can be described as light washed azure. A complement of this color would be **37.9672, 0.5224, 0.3961**, and the grayscale version is **28.7360, 0.3127, 0.3290**.

A 20% lighter version of the original color is **67.8478, 0.2415, 0.2981**, and **17.9963, 0.1882, 0.1974** is the 20% darker color. If you saturate the color by 10%, you get **33.9435, 0.1920, 0.2055**, and if you desaturate by 10%, it is **43.1063, 0.2098, 0.2365**.

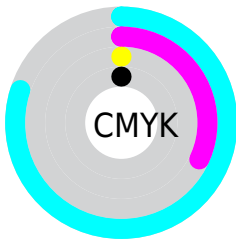
# Distribution



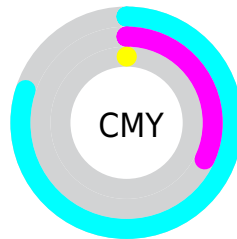
- Red (20%)
- Green (68%)
- Blue (100%)



- Red (20%)
- Yellow (50%)
- Blue (100%)



- Cyan (80%)
- Magenta (32%)
- Yellow (0%)
- Black (0%)




- Cyan (80%)
- Magenta (32%)
- Yellow (0%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 38.1959, 0.1998, 0.2209 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 38.1959, 0.1998, 0.2209 by changing the saturation by 10% instead.





 38.1959, 0.1998,  
0.2209


 38.1959, 0.1998,  
0.2209


338.4596, 0.2544,  
0.2742


 26.1348, 0.1872,  
0.2084


 72.4083, 0.2190,  
0.2398


 16.9245, 0.1717,  
0.1928


 95.3284, 0.2264,  
0.2470

 10.1807, 0.1524,  
0.1733


 122.6369, 0.2327,  
0.2532

 5.5189, 0.1281,  
0.1483

 154.7182, 0.2383,  
0.2586

 2.5548, 0.0976,  
0.1162

191.9567, 0.2431,  
0.2632

 0.9040, 0.0600,  
0.0760

234.7369, 0.2473,

 0.0000, 0.0000,

0.2673

0.0000

283.4430, 0.2511,  
0.2709

■ 38.1959, 0.1998,  
0.2209

■ 38.1959, 0.1998,  
0.2209

■ 33.9435, 0.1920,  
0.2055

■ 43.1063, 0.2098,  
0.2365

■ 30.2711, 0.1863,  
0.1907

■ 48.7311, 0.2217,  
0.2520

■ 55.1206, 0.2352,  
0.2671

■ 62.3188, 0.2500,  
0.2815

■ 70.3653, 0.2654,  
0.2950

■ 79.2969, 0.2813,  
0.3074

■ 89.1477, 0.2971,  
0.3188

99.9497, 0.3126,  
0.3290

100.0000, 0.3127,  
0.3290

# Harmonies

## Analogous

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



38.1959, 0.1842, 0.2508



38.1959, 0.1998, 0.2209



38.1959, 0.2424, 0.2178

# Triad

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



38.1959, 0.1998, 0.2209



38.1959, 0.4432, 0.3265



38.1959, 0.3026, 0.4512

# Complementary

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



38.1959, 0.1998, 0.2209



37.9672, 0.5224, 0.3961

# 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.



38.1959, 0.3736, 0.4642



38.1959, 0.1998, 0.2209



38.1959, 0.4597, 0.3815

# Square

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



38.1959, 0.1998, 0.2209



38.1959, 0.3848, 0.2761



38.1959, 0.4320, 0.4328



38.1959, 0.2381, 0.3887



# Rectangle

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



38.1959, 0.1998, 0.2209



38.1959, 0.2845, 0.2288



38.1959, 0.4320, 0.4328



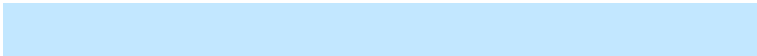
38.1959, 0.3265, 0.4616

# Sweetspot

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



38.1965, 0.1998, 0.2209



75.6560, 0.2750, 0.3026



73.8093, 0.2780, 0.4994



15.5175, 0.2693, 0.2982



0.0000, 0.0000, 0.0000



21.4041, 0.3127, 0.3290

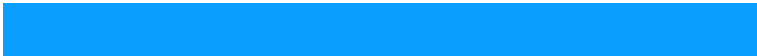


# Same Dimension

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



38.1965, 0.1998, 0.2209



31.6936, 0.1885, 0.1966



12.9124, 0.1675, 0.0987



19.2009, 0.2979, 0.3193



16.1171, 0.1870, 0.1931



1.7828, 0.1917, 0.2102



# Inverse Universe

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



26.6741, 0.4196, 0.2236



23.9454, 0.4488, 0.2262



78.7544, 0.4301, 0.4807



18.1711, 0.3199, 0.3148



12.3550, 0.4531, 0.2270

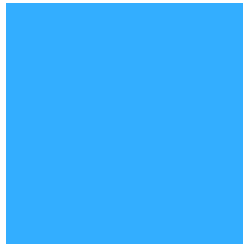


1.2245, 0.4339, 0.2164



# Previews

## White Background



This preview shows how the Yxy color 38.1959, 0.1998, 0.2209 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

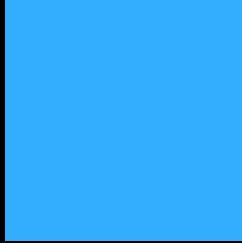
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 38.1959, 0.1998, 0.2209 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

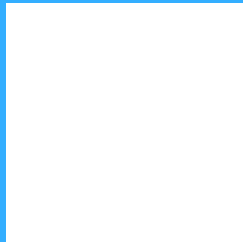
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**Yxy 38.1959, 0.1998, 0.2209**

## **Background**



This preview shows how black text looks on a background with the Yxy color 38.1959, 0.1998, 0.2209.



This preview shows how white text looks on a background with the Yxy color 38.1959, 0.1998, 0.2209.

# 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

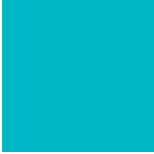
38.1959, 0.1998, 0.2209

### Protanopia

37.7516, 0.2350, 0.2233

### Deuteranopia

37.9818, 0.2204, 0.2148



## **Tritanopia**

37.8982, 0.2185, 0.3066

# Trichromacy



**Original Color**

38.1959, 0.1998, 0.2209

**Protanomaly**

37.1762, 0.2174, 0.2203

**Deuteranomaly**

37.6049, 0.2105, 0.2159

**Tritanomaly**

37.8429, 0.2101, 0.2719

# Monochromacy



**Original Color**

38.1959, 0.1998, 0.2209

**Achromatopsia**

28.7441, 0.3127, 0.3290

**Achromatomaly**

30.7016, 0.2506, 0.2818

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 38.1959, 0.1998, 0.2209 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, 174, 255)` looks like.

```
.text, #text, p{  
    color:rgb(51, 174, 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(51, 174, 255) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(51, 174, 255) }
```

## Border

The CSS property to change the border of an element to Yxy 38.1959, 0.1998, 0.2209 is called "border". The border property can be set on classes, ids or directly on the HTML element.

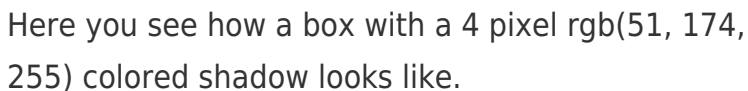
This example shows the color as border, it can be applied via the CSS property "border" or "border-color".

```
.border, #border, table{ border:4px solid rgb(51, 174, 255) }
```

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

```
.border{ border-color:rgb(51, 174, 255) }
```

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



Here you see how a box with a 4 pixel `rgb(51, 174, 255)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(51, 174, 255); -webkit-box-  
shadow:4px 4px 4px 4px rgb(51, 174, 255);  
box-shadow:4px 4px 4px 4px rgb(51, 174,  
255) }
```



# Background

The CSS property to change the background color of an element to Yxy 38.1959, 0.1998, 0.2209 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(51, 174, 255) }
```

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

```
.background{ background-color: rgb(51, 174,  
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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