

# Converting Colors

$Y_{xy}(38.9092, 0.1958, 0.2247)$

Have a look what the booklet for  
Yxy(38.9092, 0.1958, 0.2247)  
contains.

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# Color

**Yxy(39.0672, 0.1960, 0.2253)**

# Conversions

## Conversions Part 1

Format	Color
Hex	02B2FF
RGB	2, 178, 255
RGB Percent	1%, 70%, 100%
CMY	0.9936, 0.3020, 0.0000
CMYK	0.99, 0.30, 0.00, 0.00
HSL	198°, 100%, 50%
HSV	198°, 99%, 100%
XYZ	33.9866, 39.0672, 100.3470
YIQ	134.1540, -129.6130, -13.3650

# Conversions

## Conversions Part 2

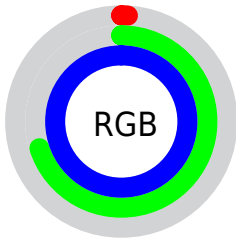
<b>Format</b>	<b>Color</b>
R <sub>Y</sub> B	2, 106, 255
Decimal	176895
CIE Lab	68.80, -10.63, -48.42
CIE LCh	69, 49.577, 257.622
Yxy	39.0672, 0.1960, 0.2253
Android (android.graphics.Color)	4278366975 (0xFF02B2FF)
YUV	134.1540, 59.5771, -115.8991
Hunter-Lab	62.5038, -12.3218, -51.4349

# Details

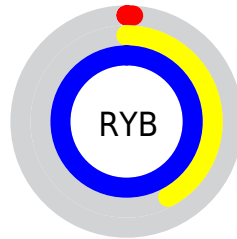
The Yxy color **39.0672, 0.1960, 0.2253** is a dark color, and the websafe version is hex **3399CC**. The color can be described as middle saturated azure. A complement of this color would be **26.8005, 0.5971, 0.3636**, and the grayscale version is **23.6688, 0.3127, 0.3290**.

A 20% lighter version of the original color is **69.5763, 0.2370, 0.3038**, and **18.9989, 0.1902, 0.2047** is the 20% darker color. If you saturate the color by 10%, you get **38.8602, 0.1957, 0.2246**, and if you desaturate by 10%, it is **42.4641, 0.2008, 0.2367**.

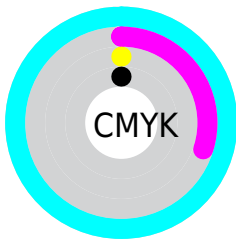
# Distribution



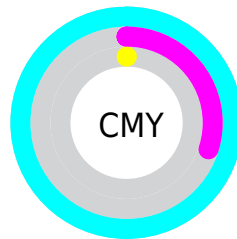
- Red (1%)
- Green (70%)
- Blue (100%)



- Red (1%)
- Yellow (42%)
- Blue (100%)



- Cyan (99%)
- Magenta (30%)
- Yellow (0%)
- Black (0%)



- Cyan (99%)
- Magenta (30%)
- Yellow (0%)

# Brightness & Saturation Gradients

These gradients show how the Yxy color 39.0672, 0.1960, 0.2253 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 39.0672, 0.1960, 0.2253 by changing the saturation by 10% instead.





 39.0672, 0.1960,  
0.2253


 39.0672, 0.1960,  
0.2253

342.1761, 0.2521,  
0.2768


 26.8120, 0.1832,  
0.2131


 73.7410, 0.2156,  
0.2436


 17.4321, 0.1674,  
0.1979


 96.9283, 0.2232,  
0.2506


 10.5430, 0.1480,  
0.1787


 124.5285, 0.2297,  
0.2566

 5.7605, 0.1236,  
0.1541

 156.9260, 0.2354,  
0.2618

 2.7000, 0.0931,  
0.1221

 194.5051, 0.2403,  
0.2662

 0.9772, 0.0557,  
0.0817

237.6502, 0.2447,

 0.0000, 0.0000,

0.2702

0.0000

286.7457, 0.2486,  
0.2737

■ 39.0672, 0.1960,  
0.2253

■ 39.0672, 0.1960,  
0.2253

■ 38.8602, 0.1957,  
0.2246

■ 42.4641, 0.2008,  
0.2367

■ 46.3246, 0.2074,  
0.2484

■ 50.7309, 0.2161,  
0.2601

■ 55.7371, 0.2267,  
0.2717

■ 61.3888, 0.2391,  
0.2829

■ 67.7263, 0.2527,  
0.2937

■ 74.7860, 0.2674,  
0.3038

■ 82.6012, 0.2827,  
0.3132

■ 91.2029, 0.2982,  
0.3217

# Harmonies

## Analogous

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



39.0672, 0.1856, 0.2603



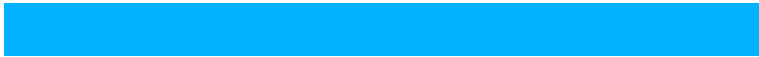
39.0672, 0.1960, 0.2253



39.0672, 0.2334, 0.2176

# Triad

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



39.0672, 0.1960, 0.2253



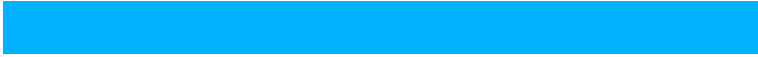
39.0672, 0.4338, 0.3169



39.0672, 0.3158, 0.4561

# Complementary

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



39.0672, 0.1960, 0.2253



26.8005, 0.5971, 0.3636

# 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.



39.0672, 0.3852, 0.4596



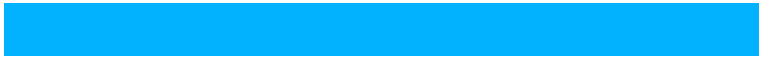
39.0672, 0.1960, 0.2253



39.0672, 0.4587, 0.3712

# Square

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



39.0672, 0.1960, 0.2253



39.0672, 0.3707, 0.2685



39.0672, 0.4386, 0.4235

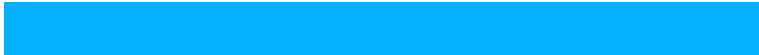


39.0672, 0.2493, 0.4018



# Rectangle

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



39.0672, 0.1960, 0.2253



39.0672, 0.2724, 0.2258



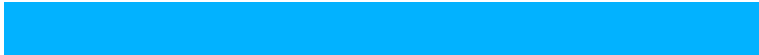
39.0672, 0.4386, 0.4235



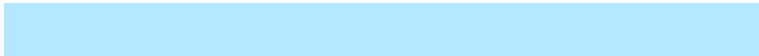
39.0672, 0.3396, 0.4631

# Sweetspot

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



39.0685, 0.1960, 0.2253



74.3176, 0.2664, 0.3032



72.0685, 0.2895, 0.5617



15.2549, 0.2602, 0.2990



0.0000, 0.0000, 0.0000



21.4041, 0.3127, 0.3290

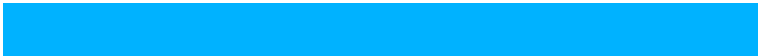


# Same Dimension

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



39.0685, 0.1960, 0.2253



38.8640, 0.1957, 0.2246



9.7134, 0.1551, 0.0780



19.4948, 0.2980, 0.3216



20.5829, 0.1963, 0.2265



2.1968, 0.1999, 0.2396



# Inverse Universe

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



24.5076, 0.4175, 0.2076



24.4545, 0.4184, 0.2078



64.5989, 0.4602, 0.4725



18.2008, 0.3185, 0.3126



12.8058, 0.4163, 0.2067

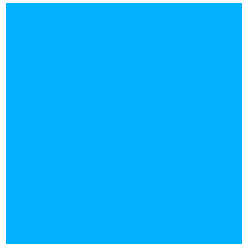


1.2663, 0.4028, 0.1992



# Previews

## White Background



This preview shows how the Yxy color 39.0672, 0.1960, 0.2253 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

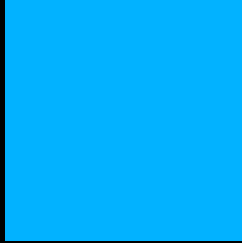
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 39.0672, 0.1960, 0.2253 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

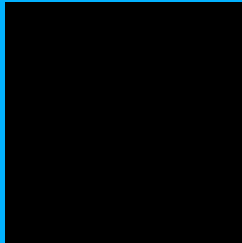
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

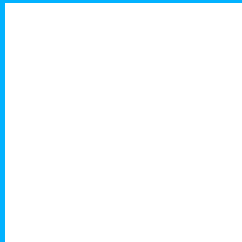
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**Yxy 39.0672, 0.1960, 0.2253**

## **Background**



This preview shows how black text looks on a background with the Yxy color 39.0672, 0.1960, 0.2253.



This preview shows how white text looks on a background with the Yxy color 39.0672, 0.1960, 0.2253.

# 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

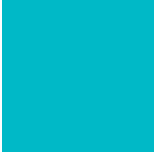
39.0737, 0.1960, 0.2253

### Protanopia

38.6847, 0.2389, 0.2286

### Deuteranopia

38.6300, 0.2227, 0.2166



## **Tritanopia**

38.8214, 0.2186, 0.3068

# Trichromacy



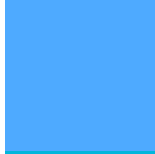
## Original Color

39.0737, 0.1960, 0.2253



## Protanomaly

37.2650, 0.2123, 0.2248



## Deuteranomaly

37.5892, 0.2054, 0.2171



## Tritanomaly

38.5768, 0.2094, 0.2736

# Monochromacy



## Original Color

39.0737, 0.1960, 0.2253



## Achromatopsia

23.8398, 0.3127, 0.3290



## Achromatomaly

27.0055, 0.2375, 0.2816

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 39.0672, 0.1960, 0.2253 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(2, 178, 255)` looks like.

```
.text, #text, p{  
    color:rgb(2, 178, 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(2, 178, 255) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(2, 178, 255) }
```

## Border

The CSS property to change the border of an element to Yxy 39.0672, 0.1960, 0.2253 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(2, 178, 255) }
```

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

```
.border{ border-color:rgb(2, 178, 255) }
```

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

Here you see how a box with a 4 pixel rgb(2, 178, 255) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(2, 178, 255); -webkit-box-  
shadow:4px 4px 4px 4px rgb(2, 178, 255);  
box-shadow:4px 4px 4px 4px rgb(2, 178,  
255) }
```



# Background

The CSS property to change the background color of an element to Yxy 39.0672, 0.1960, 0.2253 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(2, 178, 255) }
```

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

```
.background{ background-color: rgb(2, 178,  
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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