

# Converting Colors

$Y_{xy}(41.5183, 0.1820, 0.1907)$

Have a look what the booklet for  
Yxy(41.5183, 0.1820, 0.1907)  
contains.

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# Color

**Yxy(39.4602, 0.1963, 0.2267)**

# Conversions

## Conversions Part 1

Format	Color
Hex	00B3FF
RGB	0, 179, 255
RGB Percent	0%, 70%, 100%
CMY	1.0000, 0.2980, 0.0000
CMYK	1.00, 0.30, 0.00, 0.00
HSL	198°, 100%, 50%
HSV	198°, 100%, 100%
XYZ	34.1687, 39.4602, 100.4347
YIQ	134.1430, -131.0800, -14.3120

# Conversions

## Conversions Part 2

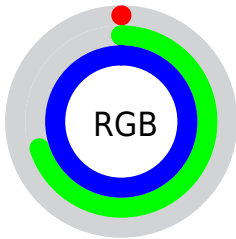
<b>Format</b>	<b>Color</b>
<b>RYB</b>	0, 105, 255
Decimal	46079
CIELab	69.08, -11.22, -47.99
CIELCh	69, 49.285, 256.845
Yxy	39.4602, 0.1963, 0.2267
Android (android.graphics.Color)	4278236159 (0xFF00B3FF)
YUV	134.1430, 59.5825, -117.6434
Hunter-Lab	62.8174, -12.8377, -50.8228

# Details

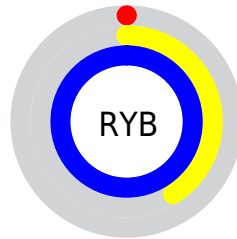
The Yxy color **39.4602, 0.1963, 0.2267** is a dark color, and the websafe version is hex **3399CC**. The color can be described as middle saturated azure. A complement of this color would be **26.4282, 0.6000, 0.3618**, and the grayscale version is **23.7097, 0.3127, 0.3290**.

A 20% lighter version of the original color is **70.1474, 0.2373, 0.3050**, and **19.2560, 0.1907, 0.2065** is the 20% darker color. If you saturate the color by 10%, you get **39.4623, 0.1963, 0.2267**, and if you desaturate by 10%, it is **42.8062, 0.2009, 0.2379**.

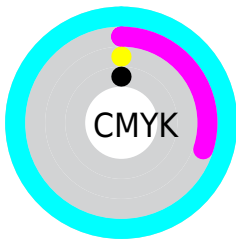
# Distribution



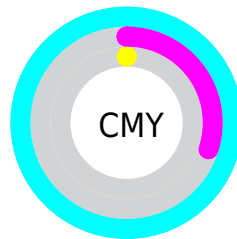
- Red (0%)
- Green (70%)
- Blue (100%)



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



- Cyan (100%)
- Magenta (30%)
- Yellow (0%)
- Black (0%)




- Cyan (100%)
- Magenta (30%)
- Yellow (0%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 39.4602, 0.1963, 0.2267 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 39.4602, 0.1963, 0.2267 by changing the saturation by 10% instead.




 39.4602, 0.1963,  
0.2267


 39.4602, 0.1963,  
0.2267


343.8431, 0.2522,  
0.2775

 27.1179, 0.1835,  
0.2146


 74.3408, 0.2158,  
0.2448


 17.6618, 0.1679,  
0.1996


 97.6480, 0.2234,  
0.2517

 10.7075, 0.1485,  
0.1806


 125.3788, 0.2299,  
0.2576

 5.8705, 0.1242,  
0.1562

 157.9178, 0.2355,  
0.2627

 2.7665, 0.0939,  
0.1245

 195.6494, 0.2405,  
0.2671

 1.0111, 0.0567,  
0.0840

238.9578, 0.2448,

 0.0000, 0.0000,

0.2710

0.0000

288.2276, 0.2487,  
0.2744

■ 39.4602, 0.1963,  
0.2267

■ 39.4602, 0.1963,  
0.2267

■ 39.4623, 0.1963,  
0.2267

■ 42.8062, 0.2009,  
0.2379

■ 46.5983, 0.2073,  
0.2493

■ 50.9260, 0.2158,  
0.2608

■ 55.8438, 0.2262,  
0.2721

■ 61.3975, 0.2384,  
0.2832

■ 67.6278, 0.2519,  
0.2937

■ 74.5710, 0.2665,  
0.3037

■ 82.2605, 0.2817,  
0.3129

■ 90.7271, 0.2972,  
0.3214

# Harmonies

## Analogous

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



39.4602, 0.1866, 0.2622



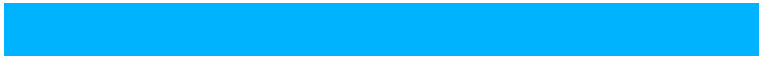
39.4602, 0.1963, 0.2267



39.4602, 0.2328, 0.2184

# Triad

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



39.4602, 0.1963, 0.2267



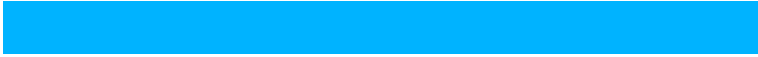
39.4602, 0.4314, 0.3157



39.4602, 0.3177, 0.4556

# Complementary

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



39.4602, 0.1963, 0.2267



26.4282, 0.6000, 0.3618

# 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.



39.4602, 0.3864, 0.4579



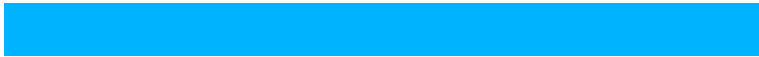
39.4602, 0.1963, 0.2267



39.4602, 0.4573, 0.3696

# Square

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



39.4602, 0.1963, 0.2267



39.4602, 0.3682, 0.2679



39.4602, 0.4386, 0.4216

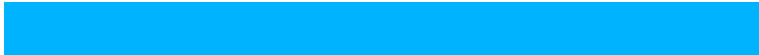


39.4602, 0.2515, 0.4029



# Rectangle

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



39.4602, 0.1963, 0.2267



39.4602, 0.2711, 0.2261



39.4602, 0.4386, 0.4216



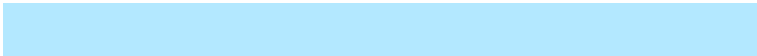
39.4602, 0.3413, 0.4621

# Sweetspot

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



39.4623, 0.1963, 0.2267



74.5710, 0.2665, 0.3037



71.9911, 0.2907, 0.5666



15.3156, 0.2603, 0.2996



0.0000, 0.0000, 0.0000

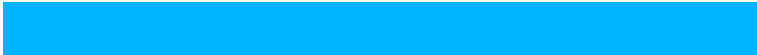


21.4041, 0.3127, 0.3290



# Same Dimension

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



39.4623, 0.1963, 0.2267



9.9762, 0.1555, 0.0799



19.5136, 0.2980, 0.3217



20.8931, 0.1968, 0.2286



2.2252, 0.2004, 0.2414

# Inverse Universe

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



24.5149, 0.4161, 0.2066



62.4528, 0.4646, 0.4693



18.2027, 0.3184, 0.3125



12.8371, 0.4141, 0.2055



1.2692, 0.4009, 0.1982

# Previews

## White Background



This preview shows how the Yxy color 39.4602, 0.1963, 0.2267 looks on a white background.

## Color Contrast Check

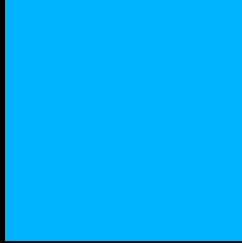
Large Text (above 18pt) WCAG AA × Fail

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 39.4602, 0.1963, 0.2267 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

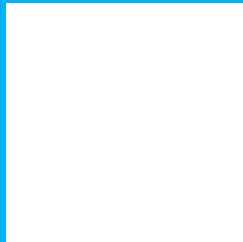
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**Yxy 39.4602, 0.1963, 0.2267**

## **Background**



This preview shows how black text looks on a background with the Yxy color 39.4602, 0.1963, 0.2267.



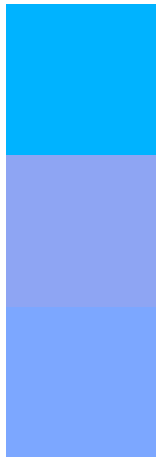
This preview shows how white text looks on a background with the Yxy color 39.4602, 0.1963, 0.2267.



# 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

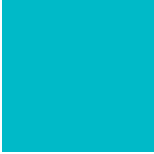
39.4602, 0.1963, 0.2267

### Protanopia

39.1321, 0.2398, 0.2300

### Deuteranopia

39.1425, 0.2240, 0.2182



## Tritanopia

39.2879, 0.2186, 0.3069

# Trichromacy



**Original Color**

39.4602, 0.1963, 0.2267

**Protanomaly**

37.6385, 0.2126, 0.2262

**Deuteranomaly**

38.0081, 0.2061, 0.2186

**Tritanomaly**

39.0343, 0.2094, 0.2738

# Monochromacy



**Original Color**

39.4602, 0.1963, 0.2267

**Achromatopsia**

23.8398, 0.3127, 0.3290

**Achromatomaly**

26.9583, 0.2369, 0.2815

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 39.4602, 0.1963, 0.2267 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, 179, 255)` looks like.

```
.text, #text, p{  
    color:rgb(0, 179, 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, 179, 255) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(0, 179, 255) }
```

## Border

The CSS property to change the border of an element to Yxy 39.4602, 0.1963, 0.2267 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, 179, 255) }
```

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

```
.border{ border-color:rgb(0, 179, 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, 179, 255)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(0, 179, 255); -webkit-box-  
shadow:4px 4px 4px 4px rgb(0, 179, 255);  
box-shadow:4px 4px 4px 4px rgb(0, 179,  
255) }
```

# Background

The CSS property to change the background color of an element to Yxy 39.4602, 0.1963, 0.2267 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(0, 179, 255) }
```

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

```
.background{ background-color: rgb(0, 179,  
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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