

# Converting Colors

$Y_{xy}(63.5260, 0.2167, 0.3001)$

Have a look what the booklet for  
Yxy(63.5260, 0.2167, 0.3001)  
contains.

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# Color

**Yxy(63.6219, 0.2169, 0.3009)**

# Conversions

## Conversions Part 1

Format	Color
Hex	00E6FC
RGB	0, 230, 252
RGB Percent	0%, 90%, 99%
CMY	1.0000, 0.0980, 0.0118
CMYK	1.00, 0.09, 0.00, 0.01
HSL	185°, 100%, 49%
HSV	185°, 100%, 99%
XYZ	45.8611, 63.6219, 101.9557
YIQ	163.7380, -144.1420, -41.9180

# Conversions

## Conversions Part 2

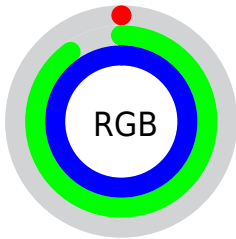
<b>Format</b>	<b>Color</b>
<b>RYB</b>	0, 120, 252
Decimal	59132
CIELab	83.77, -37.87, -23.65
CIELCh	84, 44.648, 211.986
Yxy	63.6219, 0.2169, 0.3009
Android (android.graphics.Color)	4278249212 (0xFF00E6FC)
YUV	163.7380, 43.5132, -143.5982
Hunter-Lab	79.7633, -36.9548, -19.9518

# Details

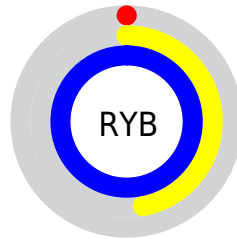
The Yxy color **63.6219, 0.2169, 0.3009** is a light color, and the websafe version is hex **66FFFF**. The color can be described as light saturated cyan. A complement of this color would be **21.2684, 0.6350, 0.3340**, and the grayscale version is **36.8373, 0.3127, 0.3290**.

A 20% lighter version of the original color is **82.5219, 0.2436, 0.3288**, and **34.2122, 0.2152, 0.2946** is the 20% darker color. If you saturate the color by 10%, you get **63.6279, 0.2169, 0.3009**, and if you desaturate by 10%, it is **65.0687, 0.2190, 0.3039**.

# Distribution



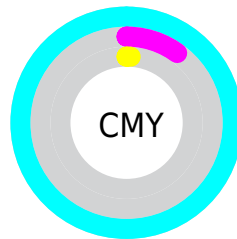
- Red (0%)
- Green (90%)
- Blue (99%)



- Red (0%)
- Yellow (47%)
- Blue (99%)



- Cyan (100%)
- Magenta (9%)
- Yellow (0%)
- Black (1%)




- Cyan (100%)
- Magenta (10%)
- Yellow (1%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 63.6219, 0.2169, 0.3009 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 63.6219, 0.2169, 0.3009 by changing the saturation by 10% instead.





 63.6219, 0.2169,  
0.3009


 63.6219, 0.2169,  
0.3009


437.8230, 0.2603,  
0.3158


 46.3445, 0.2073,  
0.2971

 110.0662, 0.2317,  
0.3064

 32.5178, 0.1957,  
0.2922


 140.0020, 0.2376,  
0.3084


 21.7573, 0.1813,  
0.2857


 174.9259, 0.2426,  
0.3102

 13.6787, 0.1632,  
0.2767

 215.2225, 0.2471,  
0.3116

 7.8975, 0.1400,  
0.2638

 261.2761, 0.2510,  
0.3129

 4.0294, 0.1097,  
0.2440

313.4711, 0.2544,

 1.6900, 0.0659,

0.3140

0.2126

372.1919, 0.2575,  
0.3149

■ 0.4172, 0.0000,  
0.1374

■ 0.0000, 0.0000,  
0.0000

■ 63.6219, 0.2169,  
0.3009

■ 63.6219, 0.2169,  
0.3009

■ 63.6279, 0.2169,  
0.3009

■ 65.0687, 0.2190,  
0.3039

■ 66.7949, 0.2226,  
0.3069

■ 68.8894, 0.2280,  
0.3099

■ 71.4026, 0.2355,  
0.3129

■ 74.3770, 0.2448,  
0.3159

■ 77.8494, 0.2559,  
0.3188

■ 81.8531, 0.2685,  
0.3216

■ 86.4182, 0.2824,  
0.3243

■ 91.5728, 0.2973,  
0.3267

# Harmonies

## Analogous

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



63.6219, 0.2441, 0.3568



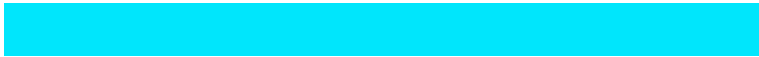
63.6219, 0.2169, 0.3009



63.6219, 0.2130, 0.2604

# Triad

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



63.6219, 0.2169, 0.3009



63.6219, 0.3276, 0.2650



63.6219, 0.3946, 0.4197

# Complementary

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



63.6219, 0.2169, 0.3009



21.2684, 0.6350, 0.3340

# 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.



63.6219, 0.4225, 0.3853



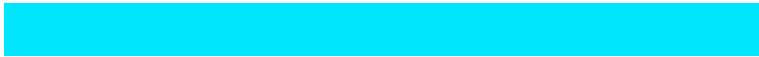
63.6219, 0.2169, 0.3009



63.6219, 0.3829, 0.2996

# Square

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



63.6219, 0.2169, 0.3009



63.6219, 0.2726, 0.2443



63.6219, 0.4189, 0.3421



63.6219, 0.3460, 0.4313



# Rectangle

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



63.6219, 0.2169, 0.3009



63.6219, 0.2234, 0.2456



63.6219, 0.4189, 0.3421



63.6219, 0.4069, 0.4100

# Sweetspot

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



63.6279, 0.2169, 0.3009



84.0792, 0.2685, 0.3216



69.6737, 0.2988, 0.5958



17.6104, 0.2630, 0.3205



0.0000, 0.0000, 0.0000



21.4041, 0.3127, 0.3290

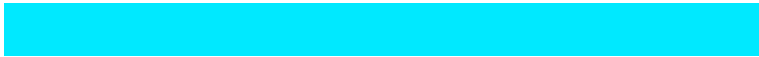


# Same Dimension

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



63.6279, 0.2169, 0.3009



65.3570, 0.2169, 0.3009



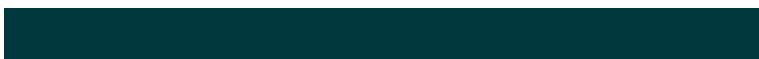
17.1311, 0.1689, 0.1279



19.3342, 0.2980, 0.3269



33.2560, 0.2171, 0.3014



3.1539, 0.2181, 0.3050



# Inverse Universe

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



26.4089, 0.3446, 0.1672



27.1290, 0.3446, 0.1672



41.5622, 0.5188, 0.4263



17.4969, 0.3151, 0.3076



13.7681, 0.3442, 0.1670

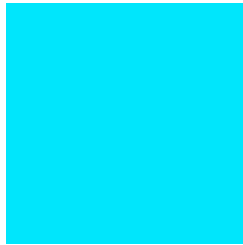


1.2826, 0.3411, 0.1653



# Previews

## White Background



This preview shows how the Yxy color 63.6219, 0.2169, 0.3009 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

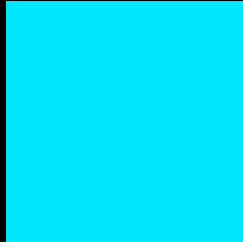
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 63.6219, 0.2169, 0.3009 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

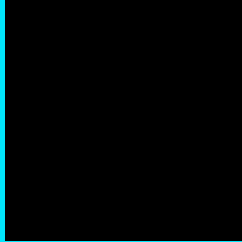
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**Yxy 63.6219, 0.2169, 0.3009**

## **Background**



This preview shows how black text looks on a background with the Yxy color 63.6219, 0.2169, 0.3009.

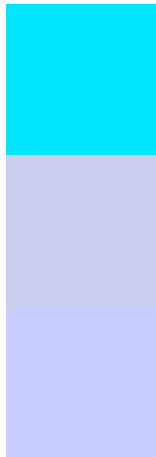


This preview shows how white text looks on a background with the Yxy color 63.6219, 0.2169, 0.3009.

# 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

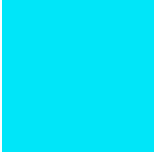
63.6219, 0.2169, 0.3009

### Protanopia

62.2753, 0.2896, 0.2941

### Deuteranopia

62.4884, 0.2778, 0.2722



## Tritanopia

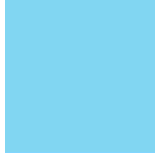
63.4332, 0.2179, 0.3045

# Trichromacy



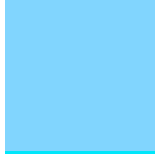
## Original Color

63.6219, 0.2169, 0.3009



## Protanomaly

59.1711, 0.2442, 0.2942



## Deuteranomaly

59.4114, 0.2385, 0.2793



## Tritanomaly

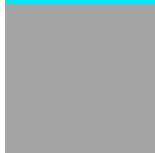
63.4958, 0.2176, 0.3033

# Monochromacy



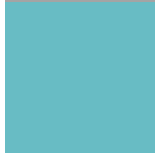
## Original Color

63.6219, 0.2169, 0.3009



## Achromatopsia

37.1238, 0.3127, 0.3290



## Achromatomaly

42.8950, 0.2488, 0.3171

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 63.6219, 0.2169, 0.3009 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, 230, 252)` looks like.

```
.text, #text, p{  
    color:rgb(0, 230, 252)  
}
```

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, 230, 252) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(0, 230, 252) }
```

## Border

The CSS property to change the border of an element to Yxy 63.6219, 0.2169, 0.3009 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, 230, 252) }
```

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

```
.border{ border-color:rgb(0, 230, 252) }
```

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

Here you see how a box with a 4 pixel `rgb(0, 230, 252)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(0, 230, 252); -webkit-box-  
shadow:4px 4px 4px 4px rgb(0, 230, 252);  
box-shadow:4px 4px 4px 4px rgb(0, 230,  
252) }
```



# Background

The CSS property to change the background color of an element to Yxy 63.6219, 0.2169, 0.3009 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(0, 230, 252) }
```

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

```
.background{ background-color: rgb(0, 230,  
252) }
```

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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