

# Converting Colors

$Y_{xy}(73.4200, 0.1857, 0.2148)$

Have a look what the booklet for  
Yxy(73.4200, 0.1857, 0.2148)  
contains.

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# Color

**Yxy(67.7884, 0.2184, 0.3064)**

# Conversions

## Conversions Part 1

Format	Color
Hex	00EDFF
RGB	0, 237, 255
RGB Percent	0%, 93%, 100%
CMY	1.0000, 0.0705, 0.0000
CMYK	1.00, 0.07, 0.00, 0.00
HSL	184°, 100%, 50%
HSV	184°, 100%, 100%
XYZ	48.3191, 67.7884, 105.1340
YIQ	168.1890, -147.0300, -44.6460

# Conversions

## Conversions Part 2

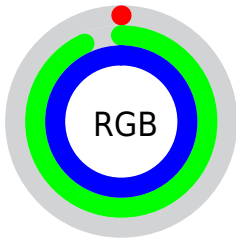
<b>Format</b>	<b>Color</b>
<b>RYB</b>	0, 123, 255
Decimal	60927
CIELab	85.90, -40.17, -21.99
CIELCh	86, 45.797, 208.692
Yxy	67.7884, 0.2184, 0.3064
Android (android.graphics.Color)	4278251007 (0xFF00EDFF)
YUV	168.1890, 42.7978, -147.5018
Hunter-Lab	82.3337, -39.3278, -18.0753

# Details

The Yxy color **67.7884, 0.2184, 0.3064** is a light color, and the websafe version is hex **33FFFF**. The color can be described as light saturated cyan. A complement of this color would be **21.6892, 0.6363, 0.3330**, and the grayscale version is **39.1009, 0.3127, 0.3290**.

A 20% lighter version of the original color is **82.6619, 0.2443, 0.3288**, and **36.7197, 0.2167, 0.3001** is the 20% darker color. If you saturate the color by 10%, you get **67.7996, 0.2185, 0.3064**, and if you desaturate by 10%, it is **69.0585, 0.2203, 0.3088**.

# Distribution



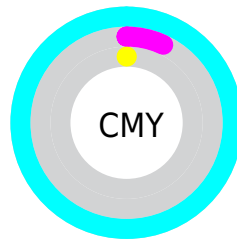
- Red (0%)
- Green (93%)
- Blue (100%)



- Red (0%)
- Yellow (48%)
- Blue (100%)



- Cyan (100%)
- Magenta (7%)
- Yellow (0%)
- Black (0%)




- Cyan (100%)
- Magenta (7%)
- Yellow (0%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 67.7884, 0.2184, 0.3064 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 67.7884, 0.2184, 0.3064 by changing the saturation by 10% instead.




 67.7884, 0.2184,  
0.3064


 67.7884, 0.2184,  
0.3064


452.7459, 0.2608,  
0.3185


 49.7256, 0.2091,  
0.3033


 116.0494, 0.2328,  
0.3109

 35.1954, 0.1979,  
0.2992

 147.0164, 0.2385,  
0.3126


 23.8135, 0.1841,  
0.2938


 183.0535, 0.2434,  
0.3140

 15.1953, 0.1668,  
0.2863

 224.5453, 0.2477,  
0.3152

 8.9566, 0.1446,  
0.2755

 271.8760, 0.2516,  
0.3162

 4.7129, 0.1157,  
0.2589

325.4301, 0.2550,

 2.0798, 0.0771,

0.3171

0.2315

385.5919, 0.2580,  
0.3179

■ 0.6532, 0.0000,  
0.1837

■ 0.0000, 0.0000,  
0.0000

■ 67.7884, 0.2184,  
0.3064

■ 67.7884, 0.2184,  
0.3064

■ 67.7996, 0.2185,  
0.3064

■ 69.0585, 0.2203,  
0.3088

■ 70.6054, 0.2237,  
0.3112

■ 72.5253, 0.2289,  
0.3136

■ 74.8701, 0.2361,  
0.3160

■ 77.6834, 0.2453,  
0.3184

■ 81.0033, 0.2562,  
0.3208

■ 84.8639, 0.2687,  
0.3230

■ 89.2963, 0.2825,  
0.3252

■ 94.3291, 0.2972,  
0.3272

# Harmonies

## Analogous

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



67.7884, 0.2482, 0.3633



67.7884, 0.2184, 0.3064



67.7884, 0.2119, 0.2635

# Triad

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



67.7884, 0.2184, 0.3064



67.7884, 0.3213, 0.2617



67.7884, 0.3993, 0.4171

# Complementary

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



67.7884, 0.2184, 0.3064



21.6892, 0.6363, 0.3330

# 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.



67.7884, 0.4242, 0.3810



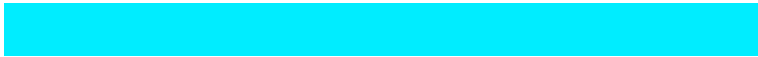
67.7884, 0.2184, 0.3064



67.7884, 0.3777, 0.2951

# Square

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



67.7884, 0.2184, 0.3064



67.7884, 0.2671, 0.2427



67.7884, 0.4168, 0.3373



67.7884, 0.3520, 0.4321



# Rectangle

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



67.7884, 0.2184, 0.3064



67.7884, 0.2207, 0.2470



67.7884, 0.4168, 0.3373



67.7884, 0.4107, 0.4067

# Sweetspot

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



67.7996, 0.2185, 0.3064



84.8731, 0.2687, 0.3230



71.5527, 0.2992, 0.5970



17.8033, 0.2632, 0.3221



0.0000, 0.0000, 0.0000



21.4041, 0.3127, 0.3290

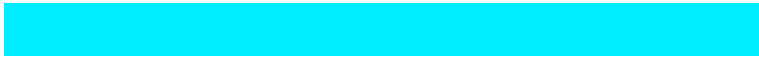


# Same Dimension

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



67.7996, 0.2185, 0.3064



67.8069, 0.2185, 0.3064



18.4781, 0.1703, 0.1329



20.2493, 0.2980, 0.3273



35.5235, 0.2186, 0.3068



3.5218, 0.2193, 0.3095



# Inverse Universe

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



27.3733, 0.3398, 0.1646



27.3763, 0.3398, 0.1646



41.3539, 0.5237, 0.4223



18.2770, 0.3149, 0.3072



14.3141, 0.3395, 0.1644

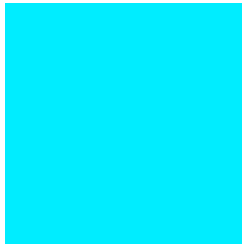


1.4001, 0.3371, 0.1631



# Previews

## White Background



This preview shows how the Yxy color 67.7884, 0.2184, 0.3064 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

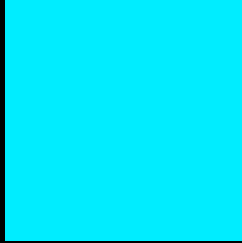
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 67.7884, 0.2184, 0.3064 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

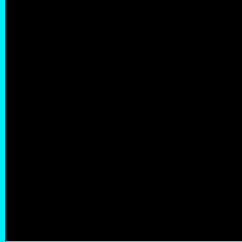
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**Yxy 67.7884, 0.2184, 0.3064**

## **Background**



This preview shows how black text looks on a background with the Yxy color 67.7884, 0.2184, 0.3064.

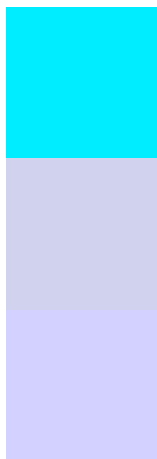


This preview shows how white text looks on a background with the Yxy color 67.7884, 0.2184, 0.3064.

# 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

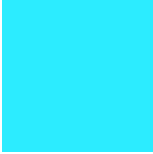
67.7884, 0.2184, 0.3064

### Protanopia

66.3169, 0.2934, 0.2993

### Deuteranopia

66.5226, 0.2835, 0.2797



## Tritanopia

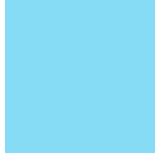
67.7464, 0.2212, 0.3053

# Trichromacy



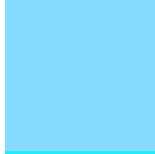
## Original Color

67.7884, 0.2184, 0.3064



## Protanomaly

62.7046, 0.2465, 0.2996



## Deuteranomaly

62.9514, 0.2417, 0.2860



## Tritanomaly

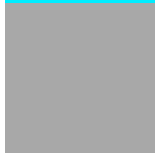
67.4578, 0.2195, 0.3052

# Monochromacy



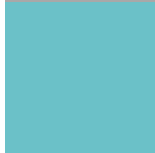
## Original Color

67.7884, 0.2184, 0.3064



## Achromatopsia

39.1572, 0.3127, 0.3290



## Achromatomaly

45.4359, 0.2495, 0.3188

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 67.7884, 0.2184, 0.3064 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, 237, 255)` looks like.

```
.text, #text, p{  
    color:rgb(0, 237, 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, 237, 255) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(0, 237, 255) }
```

## Border

The CSS property to change the border of an element to Yxy 67.7884, 0.2184, 0.3064 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, 237, 255) }
```

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

```
.border{ border-color:rgb(0, 237, 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, 237, 255) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(0, 237, 255); -webkit-box-  
shadow:4px 4px 4px 4px rgb(0, 237, 255);  
box-shadow:4px 4px 4px 4px rgb(0, 237,  
255) }
```



# Background

The CSS property to change the background color of an element to Yxy 67.7884, 0.2184, 0.3064 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(0, 237, 255) }
```

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

```
.background{ background-color: rgb(0, 237,  
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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