

# Converting Colors

$Y_{xy}(67.5806, 0.2202, 0.3128)$

Have a look what the booklet for  
Yxy(67.5806, 0.2202, 0.3128)  
contains.

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# Color

**Yxy(67.4705, 0.2201, 0.3124)**

# Conversions

## Conversions Part 1

Format	Color
Hex	00EDFA
RGB	0, 237, 250
RGB Percent	0%, 93%, 98%
CMY	1.0000, 0.0706, 0.0196
CMYK	1.00, 0.05, 0.00, 0.02
HSL	183°, 100%, 49%
HSV	183°, 100%, 98%
XYZ	47.5360, 67.4705, 100.9682
YIQ	167.6190, -145.4250, -46.2010

# Conversions

## Conversions Part 2

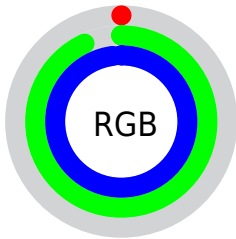
<b>Format</b>	<b>Color</b>
<b>RYB</b>	0, 122, 250
Decimal	60922
CIELab	85.74, -41.65, -19.62
CIELCh	86, 46.041, 205.217
Yxy	67.4705, 0.2201, 0.3124
Android (android.graphics.Color)	4278251002 (0xFF00EDFA)
YUV	167.6190, 40.6138, -147.0019
Hunter-Lab	82.1404, -40.4448, -15.3818

# Details

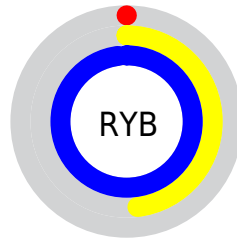
The Yxy color **67.4705, 0.2201, 0.3124** is a light color, and the websafe version is hex **33FFFF**. The color can be described as light saturated cyan. A complement of this color would be **20.6140, 0.6374, 0.3321**, and the grayscale version is **38.8152, 0.3127, 0.3290**.

A 20% lighter version of the original color is **82.5916, 0.2440, 0.3288**, and **36.5376, 0.2184, 0.3062** is the 20% darker color. If you saturate the color by 10%, you get **67.4758, 0.2201, 0.3124**, and if you desaturate by 10%, it is **68.4382, 0.2218, 0.3141**.

# Distribution



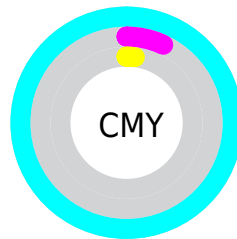
- Red (0%)
- Green (93%)
- Blue (98%)



- Red (0%)
- Yellow (48%)
- Blue (98%)



- Cyan (100%)
- Magenta (5%)
- Yellow (0%)
- Black (2%)




- Cyan (100%)
- Magenta (7%)
- Yellow (2%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 67.4705, 0.2201, 0.3124 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 67.4705, 0.2201, 0.3124 by changing the saturation by 10% instead.




 67.4705, 0.2201,  
0.3124

 67.4705, 0.2201,  
0.3124


451.6177, 0.2618,  
0.3217

 49.4671, 0.2109,  
0.3099


 115.5943, 0.2343,  
0.3159


 34.9901, 0.1998,  
0.3066


 146.4835, 0.2399,  
0.3172

 23.6553, 0.1861,  
0.3022


 182.4368, 0.2448,  
0.3183

 15.0781, 0.1688,  
0.2960

 223.8385, 0.2490,  
0.3192

 8.8742, 0.1466,  
0.2867

 271.0730, 0.2528,  
0.3200

 4.6592, 0.1174,  
0.2721

324.5248, 0.2562,

 2.0487, 0.0772,

0.3206

0.2474

384.5782, 0.2591,  
0.3212

■ 0.6356, 0.0000,  
0.2005

■ 0.0000, 0.0000,  
0.0000

■ 67.4705, 0.2201,  
0.3124

■ 67.4705, 0.2201,  
0.3124

■ 67.4758, 0.2201,  
0.3124

■ 68.4382, 0.2218,  
0.3141

■ 69.6709, 0.2249,  
0.3159

■ 71.2555, 0.2300,  
0.3176

■ 73.2413, 0.2369,  
0.3194

■ 75.6698, 0.2458,  
0.3212

■ 78.5774, 0.2566,  
0.3229

■ 81.9963, 0.2689,  
0.3246

■ 85.9564, 0.2826,  
0.3262

■ 90.4848, 0.2973,  
0.3276

# Harmonies

## Analogous

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



67.4705, 0.2526, 0.3702



67.4705, 0.2201, 0.3124



67.4705, 0.2108, 0.2670

# Triad

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



67.4705, 0.2201, 0.3124



67.4705, 0.3145, 0.2582



67.4705, 0.4041, 0.4142

# Complementary

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



67.4705, 0.2201, 0.3124



20.6140, 0.6374, 0.3321

# 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.



67.4705, 0.4259, 0.3763



67.4705, 0.2201, 0.3124



67.4705, 0.3721, 0.2904

# Square

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



67.4705, 0.2201, 0.3124



67.4705, 0.2613, 0.2411



67.4705, 0.4145, 0.3321



67.4705, 0.3585, 0.4327



# Rectangle

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



67.4705, 0.2201, 0.3124



67.4705, 0.2178, 0.2486



67.4705, 0.4145, 0.3321



67.4705, 0.4147, 0.4030

# Sweetspot

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



67.4758, 0.2201, 0.3124



85.7518, 0.2688, 0.3246



68.4060, 0.2994, 0.5978



18.0171, 0.2635, 0.3239



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.



67.4758, 0.2201, 0.3124



70.5679, 0.2201, 0.3124



18.6030, 0.1718, 0.1383



19.4447, 0.2980, 0.3277



35.8554, 0.2202, 0.3127



3.3669, 0.2208, 0.3147



# Inverse Universe

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



26.4410, 0.3346, 0.1617



27.6550, 0.3347, 0.1617



38.3617, 0.5285, 0.4185



17.5081, 0.3146, 0.3068



14.0305, 0.3344, 0.1616

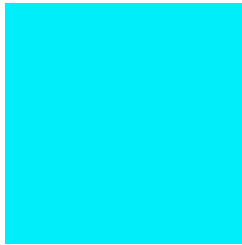


1.3041, 0.3326, 0.1606



# Previews

## White Background



This preview shows how the Yxy color 67.4705, 0.2201, 0.3124 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

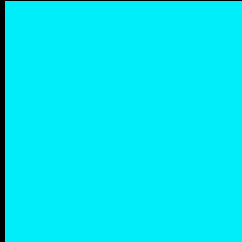
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 67.4705, 0.2201, 0.3124 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

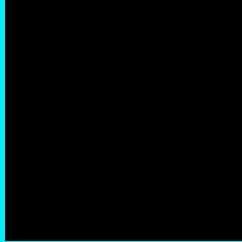
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**Yxy 67.4705, 0.2201, 0.3124**

## **Background**



This preview shows how black text looks on a background with the Yxy color 67.4705, 0.2201, 0.3124.

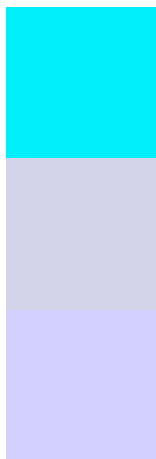


This preview shows how white text looks on a background with the Yxy color 67.4705, 0.2201, 0.3124.

# 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

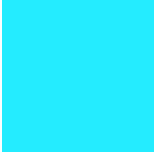
67.4705, 0.2201, 0.3124

### Protanopia

66.1734, 0.2973, 0.3046

### Deuteranopia

66.1806, 0.2841, 0.2787



## **Tritanopia**

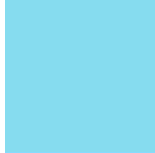
67.5860, 0.2203, 0.3052

# Trichromacy



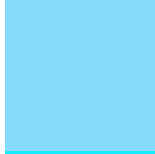
## Original Color

67.4705, 0.2201, 0.3124



## Protanomaly

62.4867, 0.2494, 0.3055



## Deuteranomaly

62.8232, 0.2426, 0.2882



## Tritanomaly

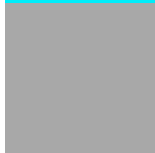
67.2649, 0.2198, 0.3075

# Monochromacy



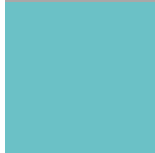
## Original Color

67.4705, 0.2201, 0.3124



## Achromatopsia

39.1572, 0.3127, 0.3290



## Achromatomaly

45.3429, 0.2506, 0.3216

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 67.4705, 0.2201, 0.3124 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, 250)` looks like.

```
.text, #text, p{  
    color:rgb(0, 237, 250)  
}
```

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, 250) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(0, 237, 250) }
```

## Border

The CSS property to change the border of an element to Yxy 67.4705, 0.2201, 0.3124 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, 250) }
```

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

```
.border{ border-color:rgb(0, 237, 250) }
```

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, 250)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(0, 237, 250); -webkit-box-  
shadow:4px 4px 4px 4px rgb(0, 237, 250);  
box-shadow:4px 4px 4px 4px rgb(0, 237,  
250) }
```



# Background

The CSS property to change the background color of an element to Yxy 67.4705, 0.2201, 0.3124 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, 250) }
```

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

```
.background{ background-color: rgb(0, 237,  
250) }
```

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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