

# Converting Colors

$Yxy(66.4658, 0.2180, 0.3033)$

Have a look what the booklet for  
Yxy(66.4658, 0.2180, 0.3033)  
contains.

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# Color

**Yxy(66.7078, 0.2181, 0.3038)**

# Conversions

## Conversions Part 1

Format	Color
Hex	0AEBFF
RGB	10, 235, 255
RGB Percent	4%, 92%, 100%
CMY	0.9605, 0.0784, 0.0000
CMYK	0.96, 0.08, 0.00, 0.00
HSL	185°, 100%, 52%
HSV	185°, 96%, 100%
XYZ	47.8900, 66.7078, 104.9802
YIQ	170.0050, -140.5200, -41.4800

# Conversions

## Conversions Part 2

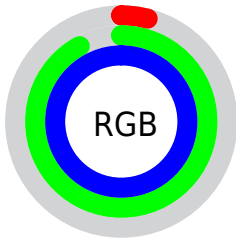
<b>Format</b>	<b>Color</b>
<b>RYB</b>	10, 127, 255
Decimal	715775
CIELab	85.36, -39.01, -22.83
CIELCh	85, 45.201, 210.335
Yxy	66.7078, 0.2181, 0.3038
Android (android.graphics.Color)	4278905855 (0xFF0AEBFF)
YUV	170.0050, 41.9025, -140.3244
Hunter-Lab	81.6748, -38.2677, -19.0356

# Details

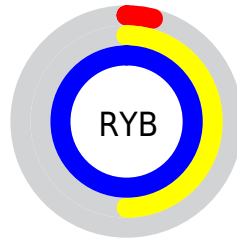
The Yxy color **66.7078, 0.2181, 0.3038** is a light color, and the websafe version is hex **66FFFF**. The color can be described as light saturated cyan. A complement of this color would be **22.2139, 0.6294, 0.3348**, and the grayscale version is **40.0563, 0.3127, 0.3290**.

A 20% lighter version of the original color is **82.7331, 0.2446, 0.3288**, and **36.3174, 0.2162, 0.2985** is the 20% darker color. If you saturate the color by 10%, you get **66.1737, 0.2174, 0.3027**, and if you desaturate by 10%, it is **68.2097, 0.2206, 0.3066**.

# Distribution



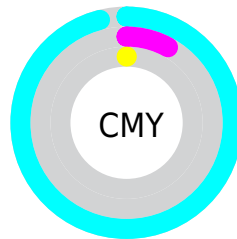
- Red (4%)
- Green (92%)
- Blue (100%)



- Red (4%)
- Yellow (50%)
- Blue (100%)



- Cyan (96%)
- Magenta (8%)
- Yellow (0%)
- Black (0%)




- Cyan (96%)
- Magenta (8%)
- Yellow (0%)

# Brightness & Saturation Gradients

These gradients show how the Yxy color 66.7078, 0.2181, 0.3038 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 66.7078, 0.2181, 0.3038 by changing the saturation by 10% instead.





 66.7078, 0.2181,  
0.3038

 66.7078, 0.2181,  
0.3038

448.9040, 0.2607,  
0.3172


 48.8472, 0.2088,  
0.3004


 114.5016, 0.2326,  
0.3088


 34.4983, 0.1975,  
0.2960


 145.2036, 0.2383,  
0.3106

 23.2767, 0.1836,  
0.2901


 180.9549, 0.2433,  
0.3121

 14.7979, 0.1661,  
0.2820


 222.1398, 0.2476,  
0.3135

 8.6777, 0.1437,  
0.2704

269.1428, 0.2515,  
0.3146

 4.5316, 0.1145,  
0.2526

322.3482, 0.2549,

 1.9751, 0.0752,

0.3156

0.2238

382.1405, 0.2579,  
0.3164

■ 0.5930, 0.0000,  
0.1703

■ 0.0000, 0.0000,  
0.0000

■ 66.7078, 0.2181,  
0.3038

■ 66.7078, 0.2181,  
0.3038

■ 66.1737, 0.2174,  
0.3027

■ 68.2097, 0.2206,  
0.3066

■ 70.0495, 0.2248,  
0.3094


■ 72.2876, 0.2310,  
0.3123

■ 74.9723, 0.2391,  
0.3151

 78.1447, 0.2491,  
0.3179

 81.8412, 0.2608,  
0.3205

 86.0947, 0.2739,  
0.3231

 90.9352, 0.2882,  
0.3255

 96.3907, 0.3033,  
0.3277

# Harmonies

## Analogous

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



66.7078, 0.2465, 0.3599



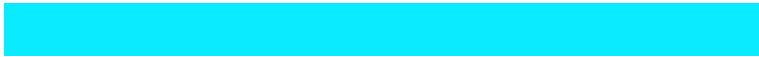
66.7078, 0.2181, 0.3038



66.7078, 0.2130, 0.2623

# Triad

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



66.7078, 0.2181, 0.3038



66.7078, 0.3244, 0.2636



66.7078, 0.3966, 0.4180

# Complementary

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



66.7078, 0.2181, 0.3038



22.2139, 0.6294, 0.3348

# 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.



66.7078, 0.4228, 0.3829



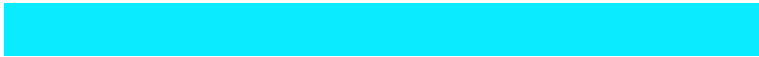
66.7078, 0.2181, 0.3038



66.7078, 0.3800, 0.2975

# Square

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



66.7078, 0.2181, 0.3038



66.7078, 0.2701, 0.2439



66.7078, 0.4173, 0.3397



66.7078, 0.3488, 0.4311

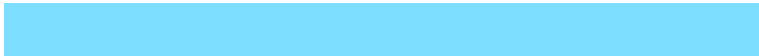


# Rectangle

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



66.7078, 0.2181, 0.3038



66.7078, 0.2224, 0.2467



66.7078, 0.4173, 0.3397



66.7078, 0.4083, 0.4080

# Sweetspot

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



66.7085, 0.2181, 0.3038



84.7795, 0.2699, 0.3224



71.6614, 0.2990, 0.5939



17.7585, 0.2643, 0.3213



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.



66.7085, 0.2181, 0.3038



66.1737, 0.2174, 0.3027



19.8242, 0.1729, 0.1402



20.2128, 0.2980, 0.3270



34.6832, 0.2176, 0.3032



3.4489, 0.2184, 0.3064



# Inverse Universe

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



27.4776, 0.3420, 0.1668



27.2114, 0.3430, 0.1663



42.7347, 0.5174, 0.4250



18.2733, 0.3151, 0.3075



14.2293, 0.3426, 0.1661

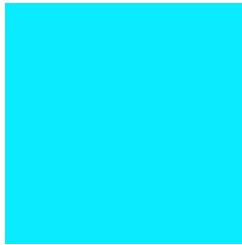


1.3927, 0.3398, 0.1646



# Previews

## White Background



This preview shows how the Yxy color 66.7078, 0.2181, 0.3038 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

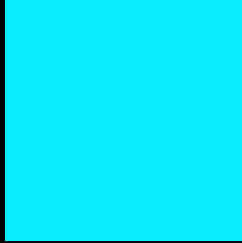
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 66.7078, 0.2181, 0.3038 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

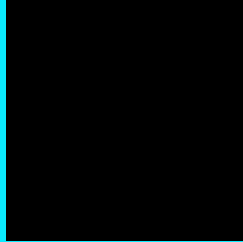
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**Yxy 66.7078, 0.2181, 0.3038**

## **Background**



This preview shows how black text looks on a background with the Yxy color 66.7078, 0.2181, 0.3038.

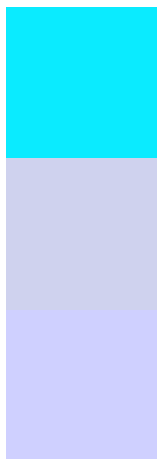


This preview shows how white text looks on a background with the Yxy color 66.7078, 0.2181, 0.3038.

# 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

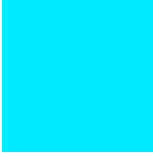
66.7012, 0.2181, 0.3038

### Protanopia

65.5316, 0.2920, 0.2980

### Deuteranopia

65.5971, 0.2814, 0.2783



## Tritanopia

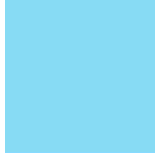
66.5724, 0.2181, 0.3050

# Trichromacy



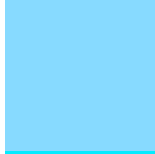
## Original Color

66.7012, 0.2181, 0.3038



## Protanomaly

62.3456, 0.2473, 0.2985



## Deuteranomaly

62.5137, 0.2420, 0.2848



## Tritanomaly

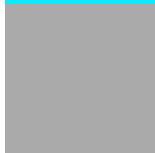
66.5982, 0.2182, 0.3050

# Monochromacy



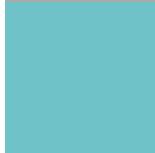
## Original Color

66.7012, 0.2181, 0.3038



## Achromatopsia

40.1978, 0.3127, 0.3290



## Achromatomaly

46.2454, 0.2518, 0.3189

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 66.7078, 0.2181, 0.3038 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(10, 235, 255)` looks like.

```
.text, #text, p{  
    color:rgb(10, 235, 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(10, 235, 255) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(10, 235, 255) }
```

## Border

The CSS property to change the border of an element to Yxy 66.7078, 0.2181, 0.3038 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(10, 235, 255) }
```

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

```
.border{ border-color:rgb(10, 235, 255) }
```

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

Here you see how a box with a 4 pixel `rgb(10, 235, 255)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(10, 235, 255); -webkit-box-  
shadow:4px 4px 4px 4px rgb(10, 235, 255);  
box-shadow:4px 4px 4px 4px rgb(10, 235,  
255) }
```



# Background

The CSS property to change the background color of an element to Yxy 66.7078, 0.2181, 0.3038 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(10, 235, 255) }
```

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

```
.background{ background-color: rgb(10, 235,  
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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