

# Converting Colors

$Yxy(66.8367, 0.2215, 0.3029)$

Have a look what the booklet for  
Yxy(66.8367, 0.2215, 0.3029)  
contains.

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# Color

**Yxy(66.7694, 0.2215, 0.3028)**

# Conversions

## Conversions Part 1

Format	Color
Hex	33EAFB
RGB	51, 234, 255
RGB Percent	20%, 92%, 100%
CMY	0.7991, 0.0824, 0.0001
CMYK	0.80, 0.08, 0.00, 0.00
HSL	186°, 100%, 60%
HSV	186°, 80%, 100%
XYZ	48.8422, 66.7694, 104.8950
YIQ	181.6770, -115.8090, -32.2650

# Conversions

## Conversions Part 2

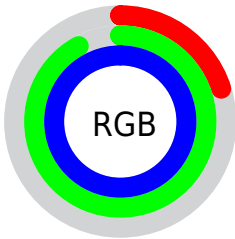
<b>Format</b>	<b>Color</b>
<b>RYB</b>	51, 147, 255
Decimal	3402495
CIELab	85.39, -36.53, -22.72
CIELCh	85, 43.018, 211.884
Yxy	66.7694, 0.2215, 0.3028
Android (android.graphics.Color)	4281592575 (0xFF33EAFF)
YUV	181.6770, 36.1482, -114.6037
Hunter-Lab	81.7125, -36.3018, -18.9122

# Details

The Yxy color **66.7694, 0.2215, 0.3028** is a light color, and the websafe version is hex **66FFFF**. The color can be described as light washed cyan. A complement of this color would be **26.1575, 0.5796, 0.3433**, and the grayscale version is **46.4788, 0.3127, 0.3290**.

A 20% lighter version of the original color is **83.6455, 0.2489, 0.3288**, and **35.9180, 0.2158, 0.2968** is the 20% darker color. If you saturate the color by 10%, you get **64.7945, 0.2177, 0.2992**, and if you desaturate by 10%, it is **69.1343, 0.2272, 0.3064**.

# Distribution



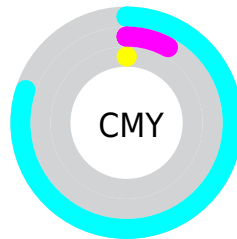
- Red (20%)
- Green (92%)
- Blue (100%)



- Red (20%)
- Yellow (58%)
- Blue (100%)



- Cyan (80%)
- Magenta (8%)
- Yellow (0%)
- Black (0%)




- Cyan (80%)
- Magenta (8%)
- Yellow (0%)

# Brightness & Saturation Gradients

These gradients show how the Yxy color 66.7694, 0.2215, 0.3028 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 66.7694, 0.2215, 0.3028 by changing the saturation by 10% instead.





 66.7694, 0.2215,  
0.3028

 66.7694, 0.2215,  
0.3028


449.1235, 0.2626,  
0.3165

 48.8972, 0.2125,  
0.2993


 114.5899, 0.2355,  
0.3078

 34.5380, 0.2015,  
0.2949


 145.3071, 0.2410,  
0.3097

 23.3072, 0.1880,  
0.2890


 181.0747, 0.2458,  
0.3113

 14.8205, 0.1710,  
0.2809

 222.2772, 0.2500,  
0.3127

 8.6935, 0.1491,  
0.2693

269.2989, 0.2537,  
0.3138

 4.5418, 0.1203,  
0.2517

322.5243, 0.2570,

 1.9810, 0.0819,

0.3148

0.2230

382.3377, 0.2600,  
0.3157

■ 0.5964, 0.0000,  
0.1715

■ 0.0000, 0.0000,  
0.0000

■ 66.7694, 0.2215,  
0.3028

■ 66.7694, 0.2215,  
0.3028

■ 64.7945, 0.2177,  
0.2992

■ 69.1343, 0.2272,  
0.3064

■ 63.1184, 0.2155,  
0.2957

■ 71.9338, 0.2349,  
0.3100

■ 63.1030, 0.2155,  
0.2957

■ 75.2139, 0.2444,  
0.3136

■ 79.0126, 0.2557,  
0.3170

■ 83.3642, 0.2685,  
0.3204

■ 88.2997, 0.2825,  
0.3235

■ 93.8479, 0.2974,  
0.3264

99.9951, 0.3127,  
0.3290

99.9981, 0.3127,  
0.3290

# Harmonies

## Analogous

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



66.7694, 0.2477, 0.3556



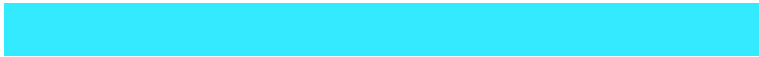
66.7694, 0.2215, 0.3028



66.7694, 0.2176, 0.2641

# Triad

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



66.7694, 0.2215, 0.3028



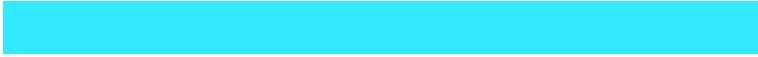
66.7694, 0.3268, 0.2679



66.7694, 0.3909, 0.4153

# Complementary

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



66.7694, 0.2215, 0.3028



26.1575, 0.5796, 0.3433

# 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.



66.7694, 0.4170, 0.3829



66.7694, 0.2215, 0.3028



66.7694, 0.3791, 0.3010

# Square

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



66.7694, 0.2215, 0.3028



66.7694, 0.2745, 0.2481



66.7694, 0.4132, 0.3417



66.7694, 0.3448, 0.4258

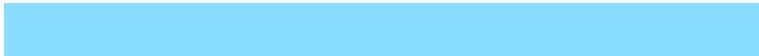


# Rectangle

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



66.7694, 0.2215, 0.3028



66.7694, 0.2275, 0.2496



66.7694, 0.4132, 0.3417



66.7694, 0.4024, 0.4062

# Sweetspot

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



66.7718, 0.2215, 0.3028



86.2287, 0.2766, 0.3222



72.6739, 0.2967, 0.5632



18.0841, 0.2717, 0.3211



0.0000, 0.0000, 0.0000



21.4041, 0.3127, 0.3290

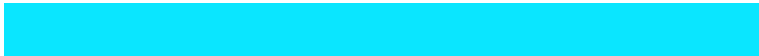


# Same Dimension

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



66.7718, 0.2215, 0.3028



63.7675, 0.2162, 0.2971



24.6294, 0.1848, 0.1639



20.1430, 0.2980, 0.3265



33.1110, 0.2156, 0.2962



3.3121, 0.2168, 0.3003



# Inverse Universe

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



29.5831, 0.3422, 0.1767



27.1833, 0.3479, 0.1701



51.5659, 0.4797, 0.4350



18.2662, 0.3154, 0.3080



14.0705, 0.3487, 0.1695

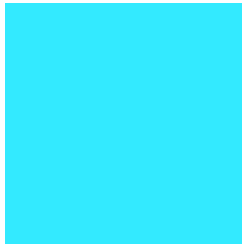


1.3789, 0.3452, 0.1675



# Previews

## White Background



This preview shows how the Yxy color 66.7694, 0.2215, 0.3028 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

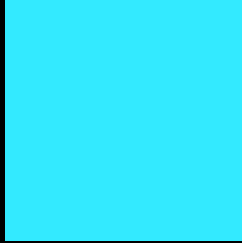
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 66.7694, 0.2215, 0.3028 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

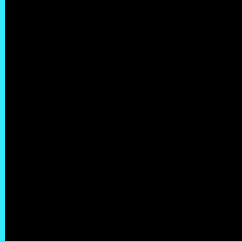
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**Yxy 66.7694, 0.2215, 0.3028**

## **Background**



This preview shows how black text looks on a background with the Yxy color 66.7694, 0.2215, 0.3028.

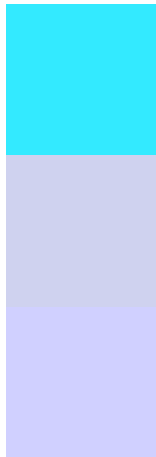


This preview shows how white text looks on a background with the Yxy color 66.7694, 0.2215, 0.3028.

# 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

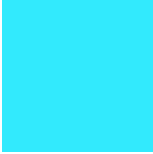
66.7694, 0.2215, 0.3028

### Protanopia

65.5906, 0.2914, 0.2970

### Deuteranopia

65.7416, 0.2821, 0.2784



## Tritanopia

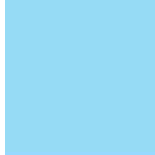
66.6156, 0.2220, 0.3051

# Trichromacy



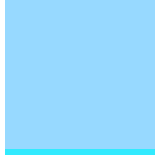
## Original Color

66.7694, 0.2215, 0.3028



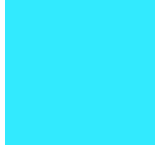
## Protanomaly

63.7396, 0.2542, 0.2979



## Deuteranomaly

63.4250, 0.2495, 0.2845



## Tritanomaly

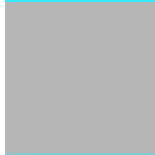
66.6795, 0.2217, 0.3039

# Monochromacy



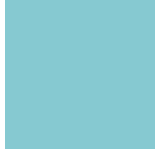
## Original Color

66.7694, 0.2215, 0.3028



## Achromatopsia

46.7784, 0.3127, 0.3290



## Achromatomaly

51.4451, 0.2611, 0.3182

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 66.7694, 0.2215, 0.3028 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(51, 234, 255)` looks like.

```
.text, #text, p{  
    color:rgb(51, 234, 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(51, 234, 255) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(51, 234, 255) }
```

## Border

The CSS property to change the border of an element to Yxy 66.7694, 0.2215, 0.3028 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(51, 234, 255) }
```

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

```
.border{ border-color:rgb(51, 234, 255) }
```

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

Here you see how a box with a 4 pixel `rgb(51, 234, 255)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(51, 234, 255); -webkit-box-  
shadow:4px 4px 4px 4px rgb(51, 234, 255);  
box-shadow:4px 4px 4px 4px rgb(51, 234,  
255) }
```



# Background

The CSS property to change the background color of an element to Yxy 66.7694, 0.2215, 0.3028 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(51, 234, 255) }
```

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

```
.background{ background-color: rgb(51, 234,  
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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