

# Converting Colors

$Y_{xy}(67.3621, 0.2253, 0.3029)$

Have a look what the booklet for  
Yxy(67.3621, 0.2253, 0.3029)  
contains.

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# Color

**Yxy(67.4434, 0.2253, 0.3030)**

# Conversions

## Conversions Part 1

Format	Color
Hex	48EAFF
RGB	72, 234, 255
RGB Percent	28%, 92%, 100%
CMY	0.7175, 0.0824, 0.0000
CMYK	0.72, 0.08, 0.00, 0.00
HSL	187°, 100%, 64%
HSV	187°, 72%, 100%
XYZ	50.1485, 67.4434, 104.9936
YIQ	187.9560, -103.2930, -27.8130

# Conversions

## Conversions Part 2

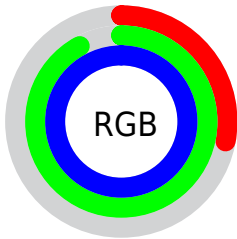
<b>Format</b>	<b>Color</b>
<b>RYB</b>	72, 158, 255
Decimal	4778751
CIELab	85.73, -34.45, -22.20
CIELCh	86, 40.985, 212.793
Yxy	67.4434, 0.2253, 0.3030
Android (android.graphics.Color)	4282968831 (0xFF48EAF7)
YUV	187.9560, 33.0527, -101.6934
Hunter-Lab	82.1239, -34.7169, -18.3142

# Details

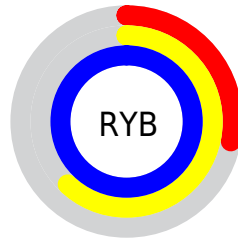
The Yxy color **67.4434, 0.2253, 0.3030** is a light color, and the websafe version is hex **66FFFF**. The color can be described as light washed cyan. A complement of this color would be **29.5640, 0.5432, 0.3466**, and the grayscale version is **50.1227, 0.3127, 0.3290**.

A 20% lighter version of the original color is **84.6693, 0.2536, 0.3288**, and **35.9180, 0.2158, 0.2968** is the 20% darker color. If you saturate the color by 10%, you get **65.0063, 0.2198, 0.2990**, and if you desaturate by 10%, it is **70.3172, 0.2328, 0.3071**.

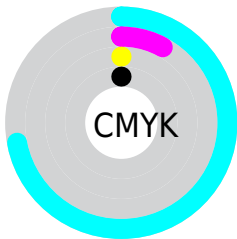
# Distribution



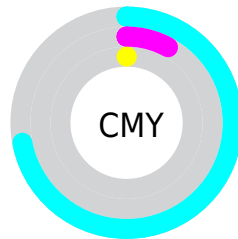
- Red (28%)
- Green (92%)
- Blue (100%)



- Red (28%)
- Yellow (62%)
- Blue (100%)



- Cyan (72%)
- Magenta (8%)
- Yellow (0%)
- Black (0%)




- Cyan (72%)
- Magenta (8%)
- Yellow (0%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 67.4434, 0.2253, 0.3030 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 67.4434, 0.2253, 0.3030 by changing the saturation by 10% instead.




 67.4434, 0.2253,  
0.3030

 67.4434, 0.2253,  
0.3030

451.5214, 0.2647,  
0.3165

 49.4451, 0.2166,  
0.2996


 115.5555, 0.2387,  
0.3079

 34.9727, 0.2061,  
0.2953


 146.4381, 0.2440,  
0.3098

 23.6418, 0.1931,  
0.2896


 182.3842, 0.2486,  
0.3113

 15.0681, 0.1767,  
0.2818

 223.7782, 0.2526,  
0.3127

 8.8672, 0.1554,  
0.2706

271.0046, 0.2562,  
0.3138

 4.6547, 0.1274,  
0.2537

324.4476, 0.2594,

 2.0461, 0.0899,

0.3148

0.2261

384.4918, 0.2622,  
0.3157

0.6341, 0.0000,  
0.1799

0.0000, 0.0000,  
0.0000

67.4434, 0.2253,  
0.3030

67.4434, 0.2253,  
0.3030

65.0063, 0.2198,  
0.2990

70.3172, 0.2328,  
0.3071

62.9473, 0.2162,  
0.2949

73.6680, 0.2421,  
0.3111

61.4668, 0.2144,  
0.2917

77.5363, 0.2533,  
0.3150

81.9569, 0.2659,  
0.3187

86.9616, 0.2798,  
0.3222

92.5794, 0.2946,  
0.3255

98.8376, 0.3100,  
0.3285

100.0000, 0.3127,  
0.3290

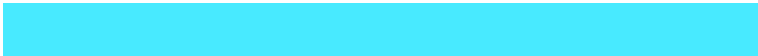
# Harmonies

## Analogous

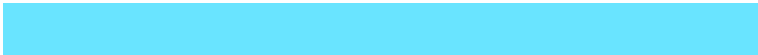
The Analogous color harmony consists of three colors that are next to each other on the color wheel.



67.4434, 0.2499, 0.3528



67.4434, 0.2253, 0.3030



67.4434, 0.2222, 0.2665

# Triad

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



67.4434, 0.2253, 0.3030



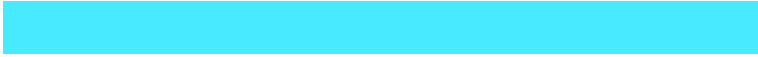
67.4434, 0.3278, 0.2714



67.4434, 0.3861, 0.4118

# Complementary

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



67.4434, 0.2253, 0.3030



29.5640, 0.5432, 0.3466

# 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.



67.4434, 0.4115, 0.3818



67.4434, 0.2253, 0.3030



67.4434, 0.3771, 0.3035

# Square

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



67.4434, 0.2253, 0.3030



67.4434, 0.2779, 0.2521



67.4434, 0.4087, 0.3427

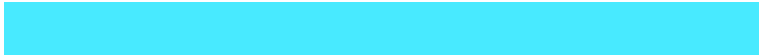


67.4434, 0.3420, 0.4205

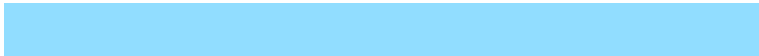


# Rectangle

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



67.4434, 0.2253, 0.3030



67.4434, 0.2321, 0.2530



67.4434, 0.4087, 0.3427



67.4434, 0.3972, 0.4036

# Sweetspot

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



67.4449, 0.2253, 0.3030



86.8287, 0.2794, 0.3221



73.6431, 0.2968, 0.5424



18.2826, 0.2756, 0.3212



0.0000, 0.0000, 0.0000



21.4041, 0.3127, 0.3290

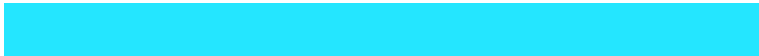


# Same Dimension

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



67.4449, 0.2253, 0.3030



64.0883, 0.2181, 0.2972



28.9185, 0.1950, 0.1826



20.1044, 0.2980, 0.3262



32.2598, 0.2145, 0.2923



3.2378, 0.2158, 0.2969



# Inverse Universe

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



31.8404, 0.3413, 0.1860



28.2072, 0.3474, 0.1746



55.1089, 0.4622, 0.4310



18.2623, 0.3156, 0.3082



13.9846, 0.3522, 0.1714

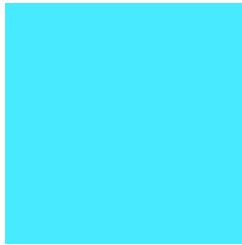


1.3714, 0.3482, 0.1692



# Previews

## White Background



This preview shows how the Yxy color 67.4434, 0.2253, 0.3030 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

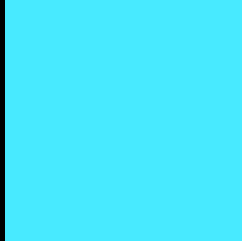
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 67.4434, 0.2253, 0.3030 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

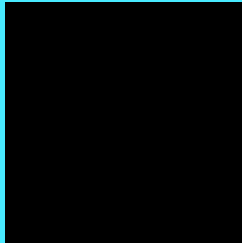
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**Yxy 67.4434, 0.2253, 0.3030**

## **Background**



This preview shows how black text looks on a background with the Yxy color 67.4434, 0.2253, 0.3030.

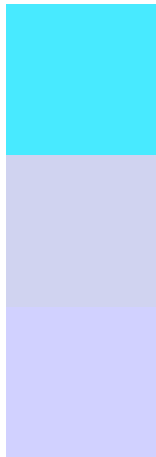


This preview shows how white text looks on a background with the Yxy color 67.4434, 0.2253, 0.3030.

# 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

67.4434, 0.2253, 0.3030

### Protanopia

66.2897, 0.2915, 0.2971

### Deuteranopia

66.3762, 0.2828, 0.2796



## Tritanopia

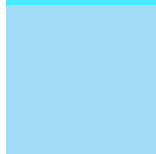
67.2771, 0.2258, 0.3054

# Trichromacy



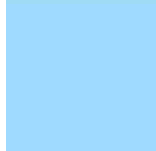
## Original Color

67.4434, 0.2253, 0.3030



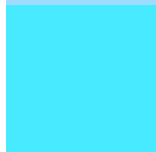
## Protanomaly

64.6265, 0.2590, 0.2983



## Deuteranomaly

64.7337, 0.2538, 0.2861



## Tritanomaly

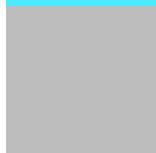
67.3410, 0.2254, 0.3042

# Monochromacy



## Original Color

67.4434, 0.2253, 0.3030



## Achromatopsia

50.2886, 0.3127, 0.3290



## Achromatomaly

54.5271, 0.2673, 0.3198

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 67.4434, 0.2253, 0.3030 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(72, 234, 255)` looks like.

```
.text, #text, p{  
    color:rgb(72, 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(72, 234, 255) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(72, 234, 255) }
```

## Border

The CSS property to change the border of an element to Yxy 67.4434, 0.2253, 0.3030 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(72, 234, 255) }
```

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

```
.border{ border-color:rgb(72, 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(72, 234, 255)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(72, 234, 255); -webkit-box-  
shadow:4px 4px 4px 4px rgb(72, 234, 255);  
box-shadow:4px 4px 4px 4px rgb(72, 234,  
255) }
```



# Background

The CSS property to change the background color of an element to Yxy 67.4434, 0.2253, 0.3030 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(72, 234, 255) }
```

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

```
.background{ background-color: rgb(72, 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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