

# Converting Colors

$Y_{xy}(67.5343, 0.2250, 0.3016)$

Have a look what the booklet for  
Yxy(67.5343, 0.2250, 0.3016)  
contains.

<b>Yxy(67.4821, 0.2255, 0.3030)</b> .....	3
<b><i>Conversions</i></b> .....	4
<b><i>Details</i></b> .....	6
<b><i>Harmonies</i></b> .....	12
<b><i>Previews</i></b> .....	24
<b><i>Color Blindness Simulation</i></b> .....	27
<b><i>CSS Examples</i></b> .....	30

# Color

**Yxy(67.4821, 0.2255, 0.3030)**

# Conversions

## Conversions Part 1

Format	Color
Hex	49EAFF
RGB	73, 234, 255
RGB Percent	29%, 92%, 100%
CMY	0.7138, 0.0823, 0.0000
CMYK	0.71, 0.08, 0.00, 0.00
HSL	187°, 100%, 64%
HSV	187°, 71%, 100%
XYZ	50.2218, 67.4821, 105.0093
YIQ	188.2550, -102.6970, -27.6010

# Conversions

## Conversions Part 2

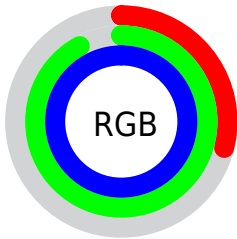
<b>Format</b>	<b>Color</b>
<a href="#">RYB</a>	<a href="#">73, 158, 255</a>
Decimal	<a href="#">4844287</a>
CIELab	<a href="#">85.75, -34.34, -22.17</a>
CIELCh	<a href="#">86, 40.877, 212.851</a>
Yxy	<a href="#">67.4821, 0.2255, 0.3030</a>
Android (android.graphics.Color)	<a href="#">4283034367 (0xFF49EAFF)</a>
YUV	<a href="#">188.2550, 32.9053, -101.0786</a>
Hunter-Lab	<a href="#">82.1475, -34.6300, -18.2873</a>

# Details

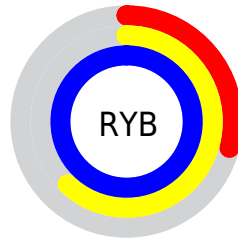
The Yxy color **67.4821, 0.2255, 0.3030** is a light color, and the websafe version is hex **66FFFF**. The color can be described as light washed cyan. A complement of this color would be **29.7409, 0.5414, 0.3467**, and the grayscale version is **50.2909, 0.3127, 0.3290**.

A 20% lighter version of the original color is **84.7597, 0.2541, 0.3288**, and **35.9180, 0.2158, 0.2968** is the 20% darker color. If you saturate the color by 10%, you get **65.0219, 0.2199, 0.2990**, and if you desaturate by 10%, it is **70.3793, 0.2330, 0.3071**.

# Distribution



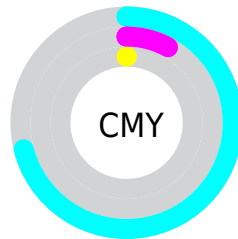
- Red (29%)
- Green (92%)
- Blue (100%)



- Red (29%)
- Yellow (62%)
- Blue (100%)



- Cyan (71%)
- Magenta (8%)
- Yellow (0%)
- Black (0%)




- Cyan (71%)
- Magenta (8%)
- Yellow (0%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 67.4821, 0.2255, 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 67.4821, 0.2255, 0.3030 by changing the saturation by 10% instead.




 67.4821, 0.2255,  
0.3030


 67.4821, 0.2255,  
0.3030


451.6589, 0.2648,  
0.3165

 49.4765, 0.2168,  
0.2996


 115.6109, 0.2389,  
0.3079


 34.9976, 0.2063,  
0.2953


 146.5030, 0.2442,  
0.3098

 23.6611, 0.1934,  
0.2896


 182.4593, 0.2488,  
0.3113

 15.0824, 0.1770,  
0.2818

 223.8643, 0.2528,  
0.3127

 8.8772, 0.1558,  
0.2707

271.1024, 0.2563,  
0.3138

 4.6612, 0.1278,  
0.2538

324.5579, 0.2595,

 2.0499, 0.0904,

0.3148

0.2262

384.6153, 0.2623,  
0.3157

0.6362, 0.0000,  
0.1804

0.0000, 0.0000,  
0.0000

67.4821, 0.2255,  
0.3030

67.4821, 0.2255,  
0.3030

65.0219, 0.2199,  
0.2990

70.3793, 0.2330,  
0.3071

62.9431, 0.2163,  
0.2949

73.7561, 0.2425,  
0.3111

61.3874, 0.2143,  
0.2915

77.6521, 0.2537,  
0.3150

82.1019, 0.2664,  
0.3188

87.1371, 0.2803,  
0.3223

92.7868, 0.2951,  
0.3256

99.0780, 0.3106,  
0.3286

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.



67.4821, 0.2500, 0.3526



67.4821, 0.2255, 0.3030



67.4821, 0.2224, 0.2666

# Triad

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



67.4821, 0.2255, 0.3030



67.4821, 0.3279, 0.2716



67.4821, 0.3859, 0.4117

# Complementary

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



67.4821, 0.2255, 0.3030



29.7409, 0.5414, 0.3467

# 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.



67.4821, 0.4112, 0.3818



67.4821, 0.2255, 0.3030



67.4821, 0.3770, 0.3037

# Square

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



67.4821, 0.2255, 0.3030



67.4821, 0.2780, 0.2523



67.4821, 0.4084, 0.3427



67.4821, 0.3418, 0.4202

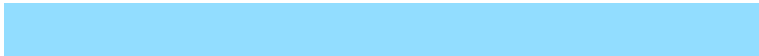


# Rectangle

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



67.4821, 0.2255, 0.3030



67.4821, 0.2324, 0.2532



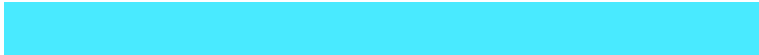
67.4821, 0.4084, 0.3427



67.4821, 0.3970, 0.4034

# Sweetspot

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



67.4827, 0.2255, 0.3030



87.3419, 0.2809, 0.3224



73.6938, 0.2968, 0.5414



18.3829, 0.2769, 0.3215



0.0000, 0.0000, 0.0000



21.4041, 0.3127, 0.3290

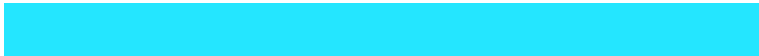


# Same Dimension

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



67.4827, 0.2255, 0.3030



64.0183, 0.2180, 0.2971



29.1267, 0.1955, 0.1835



20.1025, 0.2980, 0.3262



32.2189, 0.2145, 0.2922



3.2342, 0.2158, 0.2967



# Inverse Universe

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



31.9623, 0.3412, 0.1865



28.2002, 0.3475, 0.1747



55.2742, 0.4614, 0.4307



18.2622, 0.3156, 0.3082



13.9805, 0.3524, 0.1715

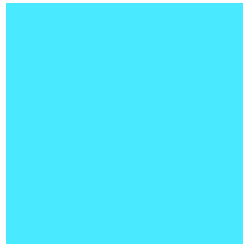


1.3710, 0.3483, 0.1692



# Previews

## White Background



This preview shows how the Yxy color 67.4821, 0.2255, 0.3030 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

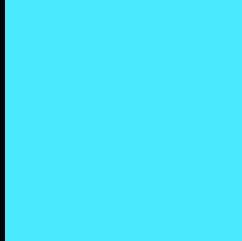
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 67.4821, 0.2255, 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 67.4821, 0.2255, 0.3030**

## **Background**



This preview shows how black text looks on a background with the Yxy color 67.4821, 0.2255, 0.3030.

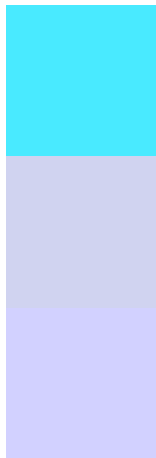


This preview shows how white text looks on a background with the Yxy color 67.4821, 0.2255, 0.3030.

# 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

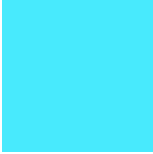
67.4821, 0.2255, 0.3030

### Protanopia

66.2897, 0.2915, 0.2971

### Deuteranopia

66.5226, 0.2835, 0.2797



## **Tritanopia**

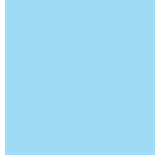
67.3152, 0.2260, 0.3054

# Trichromacy



## Original Color

67.4821, 0.2255, 0.3030



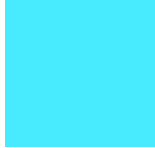
## Protanomaly

64.6265, 0.2590, 0.2983



## Deuteranomaly

64.8364, 0.2543, 0.2862



## Tritanomaly

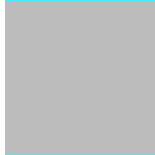
67.3791, 0.2257, 0.3042

# Monochromacy



## Original Color

67.4821, 0.2255, 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 67.4821, 0.2255, 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(73, 234, 255)` looks like.

```
.text, #text, p{  
  color:rgb(73, 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(73, 234, 255) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(73, 234, 255) }
```

## Border

The CSS property to change the border of an element to Yxy 67.4821, 0.2255, 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(73, 234, 255) }
```

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

```
.border{ border-color:rgb(73, 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(73, 234, 255)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(73, 234, 255); -webkit-box-  
shadow:4px 4px 4px 4px rgb(73, 234, 255);  
box-shadow:4px 4px 4px 4px rgb(73, 234,  
255) }
```



# Background

The CSS property to change the background color of an element to Yxy 67.4821, 0.2255, 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(73, 234, 255) }
```

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

```
.background{ background-color: rgb(73, 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](#).

Hey! You found this booklet interesting? Support Converting Colors with the new Membership Option!

The pro membership hides all ads, plus gives you double the colors in the color bucket, and more awesome pro features!

**[Learn more, Memberships starting at \\$2.50/m!](#)**

**Follow me  
on Twitter!**

@ConvertingColor