

# Converting Colors

$Y_{xy}(75.7600, 0.3068, 0.5220)$

Have a look what the booklet for  
Yxy(75.7600, 0.3068, 0.5220)  
contains.

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**Color**

**Yxy(75.7943, 0.3070, 0.5219)**

# Conversions

## Conversions Part 1

Format	Color
Hex	6EFF66
RGB	110, 255, 102
RGB Percent	43%, 100%, 40%
CMY	0.5688, 0.0000, 0.6000
CMYK	0.57, 0.00, 0.60, 0.00
HSL	117°, 100%, 70%
HSV	117°, 60%, 100%
XYZ	44.5849, 75.7943, 24.8484
YIQ	194.2030, -37.3070, -78.3230

# Conversions

## Conversions Part 2

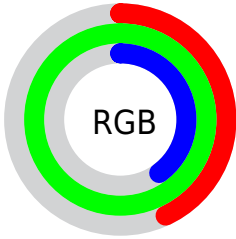
<b>Format</b>	<b>Color</b>
<a href="#">RYB</a>	<a href="#">102, 255, 247</a>
Decimal	<a href="#">7274342</a>
CIELab	<a href="#">89.76, -67.38, 60.13</a>
CIELCh	<a href="#">90, 90.311, 138.255</a>
Yxy	<a href="#">75.7943, 0.3070, 0.5219</a>
Android (android.graphics.Color)	<a href="#">4285464422 (0xFF6EFF66)</a>
YUV	<a href="#">194.2030, -45.4561, -73.8460</a>
Hunter-Lab	<a href="#">87.0599, -60.9419, 44.0195</a>

# Details

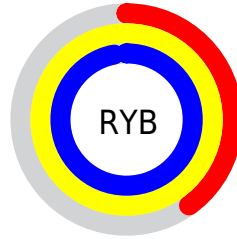
The Yxy color **75.7943, 0.3070, 0.5219** is a light color, and the websafe version is hex **66FF66**. A complement of this color would be **36.5028, 0.3119, 0.1861**, and the grayscale version is **54.3587, 0.3127, 0.3290**.

A 20% lighter version of the original color is **82.8386, 0.3165, 0.4437**, and **40.4133, 0.2975, 0.5725** is the 20% darker color. If you saturate the color by 10%, you get **74.0172, 0.3053, 0.5525**, and if you desaturate by 10%, it is **78.1447, 0.3086, 0.4874**.

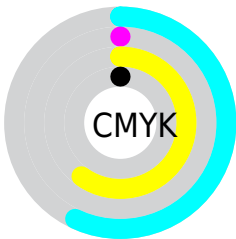
# Distribution



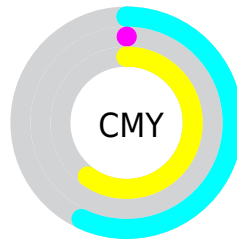
- Red (43%)
- Green (100%)
- Blue (40%)



- Red (40%)
- Yellow (100%)
- Blue (97%)



- Cyan (57%)
- Magenta (0%)
- Yellow (60%)
- Black (0%)



- Cyan (57%)
- Magenta (0%)
- Yellow (60%)

# Brightness & Saturation Gradients

These gradients show how the Yxy color 75.7943, 0.3070, 0.5219 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 75.7943, 0.3070, 0.5219 by changing the saturation by 10% instead.




 75.7943, 0.3070,  
0.5219


 75.7943, 0.3070,  
0.5219


480.6433, 0.3158,  
0.4265


 56.2639, 0.3032,  
0.5445


 127.4361, 0.3115,  
0.4880


 40.4145, 0.2975,  
0.5724


 160.3162, 0.3128,  
0.4750

 27.8619, 0.2886,  
0.6074


 198.4151, 0.3137,  
0.4639

 18.2216, 0.2745,  
0.6520

 242.1170, 0.3144,  
0.4543

 11.1092, 0.2517,  
0.7106

291.8063, 0.3149,  
0.4460

 6.1403, 0.2134,  
0.7866


347.8676, 0.3153,


 2.9306, 0.1292,

0.4387

0.8708

410.6851, 0.3156,  
0.4322

 1.0956, 0.0000,  
1.0000

 0.0000, 0.0000,  
0.0000


 75.7943, 0.3070,  
0.5219


 75.7943, 0.3070,  
0.5219


 74.0172, 0.3053,  
0.5525

 78.1447, 0.3086,  
0.4874


 72.7708, 0.3035,  
0.5764


 81.1202, 0.3099,  
0.4515

 71.9940, 0.3019,  
0.5919

 84.7580, 0.3109,  
0.4167

 71.6077, 0.3008,  
0.5994

 89.0949, 0.3117,  
0.3842

 94.1648, 0.3123,  
0.3549

99.9994, 0.3127,  
0.3290

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.



75.7943, 0.4030, 0.5139



75.7943, 0.3070, 0.5219



75.7943, 0.2174, 0.4368

# Triad

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



75.7943, 0.3070, 0.5219



75.7943, 0.1554, 0.1850



75.7943, 0.4904, 0.3076

# Complementary

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



75.7943, 0.3070, 0.5219



36.5028, 0.3119, 0.1861

# 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.



75.7943, 0.3975, 0.2457



75.7943, 0.3070, 0.5219



75.7943, 0.2033, 0.1786

# Square

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



75.7943, 0.3070, 0.5219



75.7943, 0.1407, 0.2263



75.7943, 0.2876, 0.2001



75.7943, 0.5199, 0.3772



# Rectangle

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



75.7943, 0.3070, 0.5219



75.7943, 0.1744, 0.3531



75.7943, 0.2876, 0.2001



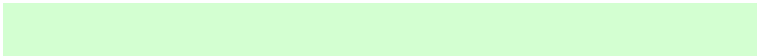
75.7943, 0.4648, 0.2858

# Sweetspot

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



75.7919, 0.3070, 0.5219



90.0497, 0.3119, 0.3781



87.4030, 0.4032, 0.4623



18.9792, 0.3117, 0.3870



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.



75.7919, 0.3070, 0.5219



73.7276, 0.3049, 0.5579



77.1829, 0.2761, 0.4409



20.2132, 0.3123, 0.3535



37.4350, 0.3011, 0.5992



3.6601, 0.3036, 0.5971



# Inverse Universe

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



36.5028, 0.3119, 0.1861



31.2696, 0.3109, 0.1672



34.4233, 0.3903, 0.2437



18.2494, 0.3130, 0.3055



13.6319, 0.3079, 0.1470

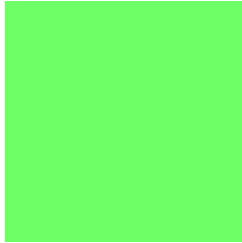


1.3415, 0.3095, 0.1478



# Previews

## White Background



This preview shows how the Yxy color 75.7943, 0.3070, 0.5219 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

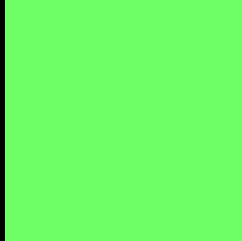
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 75.7943, 0.3070, 0.5219 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

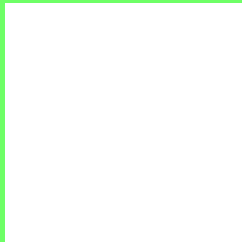
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**Yxy 75.7943, 0.3070, 0.5219**

## **Background**



This preview shows how black text looks on a background with the Yxy color 75.7943, 0.3070, 0.5219.



This preview shows how white text looks on a background with the Yxy color 75.7943, 0.3070, 0.5219.

# 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

75.7943, 0.3070, 0.5219

### Protanopia

74.2414, 0.4152, 0.4553

### Deuteranopia

74.3431, 0.3739, 0.3774



## Tritanopia

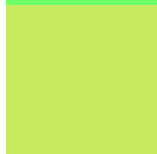
75.4370, 0.2558, 0.3096

# Trichromacy



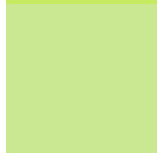
## Original Color

75.7943, 0.3070, 0.5219



## Protanomaly

72.2670, 0.3687, 0.4834



## Deuteranomaly

71.7837, 0.3462, 0.4276



## Tritanomaly

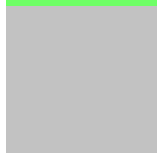
74.3139, 0.2759, 0.3847

# Monochromacy



## Original Color

75.7943, 0.3070, 0.5219



## Achromatopsia

53.9479, 0.3127, 0.3290



## Achromatomaly

59.4715, 0.3107, 0.4009

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 75.7943, 0.3070, 0.5219 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(110, 255, 102)` looks like.

```
.text, #text, p{  
    color:rgb(110, 255, 102)  
}
```

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(110, 255, 102) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(110, 255, 102) }
```

## Border

The CSS property to change the border of an element to Yxy 75.7943, 0.3070, 0.5219 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(110, 255, 102) }
```

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

```
.border{ border-color:rgb(110, 255, 102) }
```

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

Here you see how a box with a 4 pixel `rgb(110, 255, 102)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(110, 255, 102); -webkit-box-  
shadow:4px 4px 4px 4px rgb(110, 255, 102);  
box-shadow:4px 4px 4px 4px rgb(110, 255,  
102) }
```



# Background

The CSS property to change the background color of an element to Yxy 75.7943, 0.3070, 0.5219 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(110, 255, 102) }
```

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

```
.background{ background-color: rgb(110,  
255, 102) }
```

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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