

# Converting Colors

$Y_{xy}(73.8716, 0.3122, 0.5700)$

Have a look what the booklet for  
Yxy(73.8716, 0.3122, 0.5700)  
contains.

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# Color

**Yxy(73.8829, 0.3123, 0.5700)**

# Conversions

## Conversions Part 1

Format	Color
Hex	59FF33
RGB	89, 255, 51
RGB Percent	35%, 100%, 20%
CMY	0.6508, 0.0000, 0.8001
CMYK	0.65, 0.00, 0.80, 0.00
HSL	109°, 100%, 60%
HSV	109°, 80%, 100%
XYZ	40.4801, 73.8829, 15.2562
YIQ	182.1100, -33.4520, -98.6360

# Conversions

## Conversions Part 2

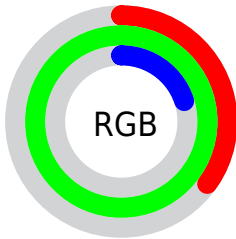
<b>Format</b>	<b>Color</b>
<b>RYB</b>	51, 255, 217
Decimal	5898035
CIELab	88.87, -75.83, 76.93
CIELCh	89, 108.015, 134.587
Yxy	73.8829, 0.3123, 0.5700
Android (android.graphics.Color)	4284088115 (0xFF59FF33)
YUV	182.1100, -64.6372, -81.6575
Hunter-Lab	85.9552, -66.3581, 49.6452

# Details

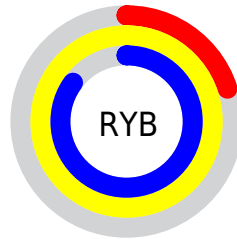
The Yxy color **73.8829, 0.3123, 0.5700** is a dark color, and the websafe version is hex **66FF33**. The color can be described as dark washed green. A complement of this color would be **24.3285, 0.2831, 0.1440**, and the grayscale version is **47.2214, 0.3127, 0.3290**.

A 20% lighter version of the original color is **79.9030, 0.3270, 0.4958**, and **39.9325, 0.3000, 0.6000** is the 20% darker color. If you saturate the color by 10%, you get **72.8321, 0.3088, 0.5866**, and if you desaturate by 10%, it is **75.3499, 0.3151, 0.5460**.

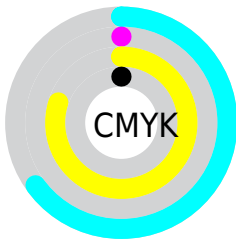
# Distribution



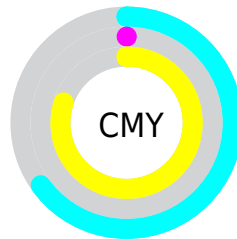
- Red (35%)
- Green (100%)
- Blue (20%)



- Red (20%)
- Yellow (100%)
- Blue (85%)



- Cyan (65%)
- Magenta (0%)
- Yellow (80%)
- Black (0%)




- Cyan (65%)
- Magenta (0%)
- Yellow (80%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 73.8829, 0.3123, 0.5700 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 73.8829, 0.3123, 0.5700 by changing the saturation by 10% instead.





 73.8829, 0.3123,  
0.5700

 73.8829, 0.3123,  
0.5700


474.0691, 0.3231,  
0.4515


 54.6982, 0.3066,  
0.5968


 124.7298, 0.3186,  
0.5286

 39.1601, 0.2978,  
0.6291


 157.1608, 0.3203,  
0.5125


 26.8843, 0.2842,  
0.6678


 194.7760, 0.3214,  
0.4987

 17.4864, 0.2633,  
0.7157

 237.9598, 0.3222,  
0.4867

 10.5819, 0.2296,  
0.7704

 287.0966, 0.3226,  
0.4762

 5.7864, 0.1760,  
0.8240

342.5709, 0.3229,

 2.7157, 0.0471,

0.4670

0.9529

404.7669, 0.3231,  
0.4588

■ 0.9851, 0.0000,  
1.0000

■ 0.0000, 0.0000,  
0.0000

■ 73.8829, 0.3123,  
0.5700

■ 73.8829, 0.3123,  
0.5700

■ 72.8321, 0.3088,  
0.5866


■ 75.3499, 0.3151,  
0.5460


■ 72.1380, 0.3053,  
0.5958

■ 77.2668, 0.3170,  
0.5162

■ 79.6703, 0.3179,  
0.4830

■ 82.5917, 0.3179,  
0.4486

 86.0595, 0.3172,  
0.4150

 90.0999, 0.3160,  
0.3835

 94.7378, 0.3145,  
0.3547

99.9963, 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.



73.8829, 0.4218, 0.5346



73.8829, 0.3123, 0.5700



73.8829, 0.2082, 0.4804

# Triad

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



73.8829, 0.3123, 0.5700



73.8829, 0.1292, 0.1655



73.8829, 0.5155, 0.2906

# Complementary

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



73.8829, 0.3123, 0.5700



24.3285, 0.2831, 0.1440

# 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.



73.8829, 0.3965, 0.2240



73.8829, 0.3123, 0.5700



73.8829, 0.1766, 0.1560

# Square

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



73.8829, 0.3123, 0.5700



73.8829, 0.1166, 0.2147



73.8829, 0.2671, 0.1765



73.8829, 0.5566, 0.3655



# Rectangle

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



73.8829, 0.3123, 0.5700



73.8829, 0.1572, 0.3742



73.8829, 0.2671, 0.1765



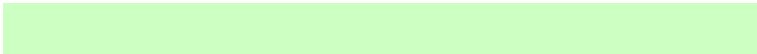
73.8829, 0.4819, 0.2671

# Sweetspot

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



73.8849, 0.3123, 0.5700



88.4161, 0.3165, 0.3958



69.6916, 0.4433, 0.4686



18.6201, 0.3170, 0.4071



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.



73.8849, 0.3123, 0.5700



72.3794, 0.3066, 0.5927



73.3974, 0.2843, 0.5209



20.3311, 0.3144, 0.3534



37.7401, 0.3060, 0.5952



3.7161, 0.3127, 0.5899



# Inverse Universe

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



24.3285, 0.2831, 0.1440



21.0450, 0.2751, 0.1300



27.5120, 0.3916, 0.2067



18.1190, 0.3108, 0.3054



10.7978, 0.2740, 0.1283

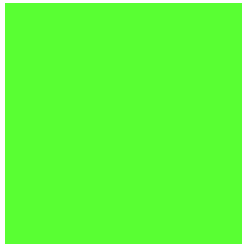


1.0936, 0.2796, 0.1314



# Previews

## White Background



This preview shows how the Yxy color 73.8829, 0.3123, 0.5700 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

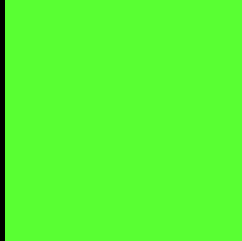
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 73.8829, 0.3123, 0.5700 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 73.8829, 0.3123, 0.5700**

## **Background**



This preview shows how black text looks on a background with the Yxy color 73.8829, 0.3123, 0.5700.



This preview shows how white text looks on a background with the Yxy color 73.8829, 0.3123, 0.5700.

# 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

73.8829, 0.3123, 0.5700

### Protanopia

72.5495, 0.4348, 0.4808

### Deuteranopia

72.2952, 0.3851, 0.3887



## Tritanopia

73.3638, 0.2484, 0.3080

# Trichromacy



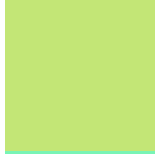
## Original Color

73.8829, 0.3123, 0.5700



## Protanomaly

70.1115, 0.3812, 0.5201



## Deuteranomaly

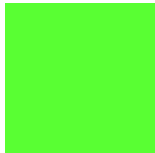
69.5037, 0.3574, 0.4594



## Tritanomaly

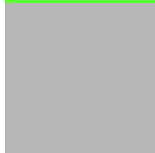
72.1025, 0.2764, 0.4103

# Monochromacy



## Original Color

73.8829, 0.3123, 0.5700



## Achromatopsia

46.7784, 0.3127, 0.3290



## Achromatomaly

53.6181, 0.3177, 0.4332

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 73.8829, 0.3123, 0.5700 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(89, 255, 51)` looks like.

```
.text, #text, p{  
    color:rgb(89, 255, 51)  
}
```

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(89, 255, 51) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(89, 255, 51) }
```

## Border

The CSS property to change the border of an element to Yxy 73.8829, 0.3123, 0.5700 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(89, 255, 51) }
```

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

```
.border{ border-color:rgb(89, 255, 51) }
```

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

Here you see how a box with a 4 pixel `rgb(89, 255, 51)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(89, 255, 51); -webkit-box-  
shadow:4px 4px 4px 4px rgb(89, 255, 51);  
box-shadow:4px 4px 4px 4px rgb(89, 255,  
51) }
```



# Background

The CSS property to change the background color of an element to Yxy 73.8829, 0.3123, 0.5700 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(89, 255, 51) }
```

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

```
.background{ background-color: rgb(89, 255,  
51) }
```

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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