

# Converting Colors

$Y_{xy}(72.7835, 0.3085, 0.5870)$

Have a look what the booklet for  
Yxy(72.7835, 0.3085, 0.5870)  
contains.

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# Color

**Yxy(72.7835, 0.3085, 0.5870)**

# Conversions

## Conversions Part 1

Format	Color
Hex	43FF19
RGB	67, 255, 25
RGB Percent	26%, 100%, 10%
CMY	0.7372, 0.0000, 0.9015
CMYK	0.74, 0.00, 0.90, 0.00
HSL	109°, 100%, 55%
HSV	109°, 90%, 100%
XYZ	38.2516, 72.7835, 12.9572
YIQ	172.5680, -38.2180, -111.3860

# Conversions

## Conversions Part 2

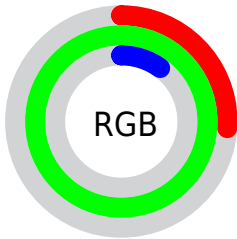
Format	Color
R <sub>Y</sub> B	25, 255, 213
Decimal	4456217
CIE Lab	88.34, -80.61, 81.53
CIE LCh	88, 114.650, 134.674
Yxy	72.7835, 0.3085, 0.5870
Android (android.graphics.Color)	4282646297 (0xFF43FF19)
YUV	172.5680, -72.7510, -92.5831
Hunter-Lab	85.3132, -69.2647, 50.7144

# Details

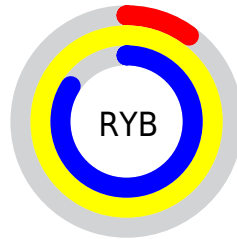
The Yxy color **72.7835, 0.3085, 0.5870** is a dark color, and the websafe version is hex **33FF00**. The color can be described as dark washed green. A complement of this color would be **22.0801, 0.2790, 0.1343**, and the grayscale version is **41.9580, 0.3127, 0.3290**.

A 20% lighter version of the original color is **78.2605, 0.3248, 0.5152**, and **39.9325, 0.3000, 0.6000** is the 20% darker color. If you saturate the color by 10%, you get **72.1121, 0.3050, 0.5960**, and if you desaturate by 10%, it is **73.8237, 0.3119, 0.5705**.

# Distribution



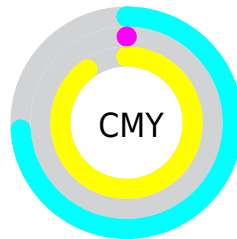
- Red (26%)
- Green (100%)
- Blue (10%)



- Red (10%)
- Yellow (100%)
- Blue (84%)



- Cyan (74%)
- Magenta (0%)
- Yellow (90%)
- Black (0%)




- Cyan (74%)
- Magenta (0%)
- Yellow (90%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 72.7835, 0.3085, 0.5870 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 72.7835, 0.3085, 0.5870 by changing the saturation by 10% instead.




 72.7835, 0.3085,  
0.5870

 72.7835, 0.3085,  
0.5870


470.2641, 0.3228,  
0.4601


 53.7990, 0.3015,  
0.6154


 123.1698, 0.3164,  
0.5429

 38.4410, 0.2909,  
0.6492


 155.3404, 0.3187,  
0.5256


 26.3251, 0.2746,  
0.6892


 192.6750, 0.3202,  
0.5108

 17.0670, 0.2519,  
0.7425

 235.5582, 0.3212,  
0.4979

 10.2823, 0.2115,  
0.7885

 284.3744, 0.3219,  
0.4866

 5.5865, 0.1553,  
0.8447

 339.5078, 0.3224,

 2.5953, 0.0000,

0.4767

1.0000

401.3429, 0.3227,  
0.4679

■ 0.9243, 0.0000,  
1.0000

■ 0.0000, 0.0000,  
0.0000

■ 72.7835, 0.3085,  
0.5870

■ 72.7835, 0.3085,  
0.5870

■ 72.1121, 0.3050,  
0.5960


■ 73.8237, 0.3119,  
0.5705

■ 75.2765, 0.3147,  
0.5466


■ 77.1833, 0.3166,  
0.5168

■ 79.5790, 0.3175,  
0.4836

 82.4954, 0.3176,  
0.4492

 85.9613, 0.3170,  
0.4156

 90.0032, 0.3159,  
0.3840

 94.6463, 0.3144,  
0.3551

99.9139, 0.3127,  
0.3294

# Harmonies

## Analogous

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



72.7835, 0.4230, 0.5437



72.7835, 0.3085, 0.5870



72.7835, 0.2005, 0.4917

# Triad

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



72.7835, 0.3085, 0.5870



72.7835, 0.1213, 0.1574



72.7835, 0.5286, 0.2871

# Complementary

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



72.7835, 0.3085, 0.5870



22.0801, 0.2790, 0.1343

# 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.



72.7835, 0.4017, 0.2186



72.7835, 0.3085, 0.5870



72.7835, 0.1700, 0.1482

# Square

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



72.7835, 0.3085, 0.5870



72.7835, 0.1080, 0.2071



72.7835, 0.2642, 0.1695



72.7835, 0.5698, 0.3637



# Rectangle

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



72.7835, 0.3085, 0.5870



72.7835, 0.1482, 0.3757



72.7835, 0.2642, 0.1695



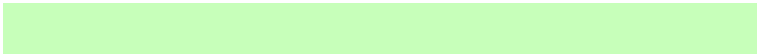
72.7835, 0.4930, 0.2630

# Sweetspot

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



72.7844, 0.3085, 0.5870



87.1727, 0.3167, 0.4053



68.8452, 0.4501, 0.4755



18.3784, 0.3170, 0.4164



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.



72.7844, 0.3085, 0.5870



72.1121, 0.3050, 0.5960



72.6081, 0.2852, 0.5399



20.3273, 0.3143, 0.3534



37.7257, 0.3058, 0.5954



3.7141, 0.3124, 0.5902



# Inverse Universe

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



22.0801, 0.2790, 0.1343



20.7051, 0.2743, 0.1285



25.3456, 0.4102, 0.2077



18.1231, 0.3109, 0.3054



10.8793, 0.2751, 0.1289

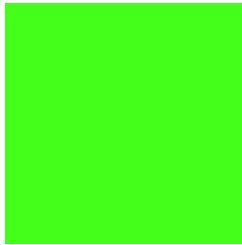


1.1008, 0.2806, 0.1319



# Previews

## White Background



This preview shows how the Yxy color 72.7835, 0.3085, 0.5870 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 72.7835, 0.3085, 0.5870 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 72.7835, 0.3085, 0.5870**

## Background



This preview shows how black text looks on a background with the Yxy color 72.7835, 0.3085, 0.5870.



This preview shows how white text looks on a background with the Yxy color 72.7835, 0.3085, 0.5870.

# 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

72.7835, 0.3085, 0.5870

### Protanopia

71.1429, 0.4411, 0.4880

### Deuteranopia

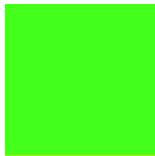
71.0505, 0.3909, 0.3938



## Tritanopia

71.8001, 0.2431, 0.3066

# Trichromacy



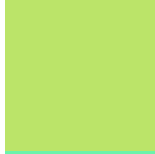
## Original Color

72.7835, 0.3085, 0.5870



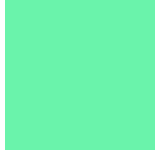
## Protanomaly

68.2426, 0.3799, 0.5348



## Deuteranomaly

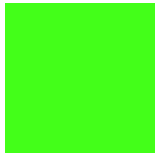
67.0715, 0.3589, 0.4740



## Tritanomaly

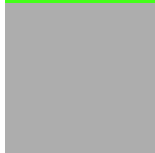
70.1056, 0.2746, 0.4246

# Monochromacy



## Original Color

72.7835, 0.3085, 0.5870



## Achromatopsia

41.7885, 0.3127, 0.3290



## Achromatomaly

49.1121, 0.3174, 0.4516

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 72.7835, 0.3085, 0.5870 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(67, 255, 25)` looks like.

```
.text, #text, p{  
    color:rgb(67, 255, 25)  
}
```

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(67, 255, 25) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(67, 255, 25) }
```

## Border

The CSS property to change the border of an element to Yxy 72.7835, 0.3085, 0.5870 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(67, 255, 25) }
```

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

```
.border{ border-color:rgb(67, 255, 25) }
```

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

Here you see how a box with a 4 pixel rgb(67, 255, 25) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(67, 255, 25); -webkit-box-  
shadow:4px 4px 4px 4px rgb(67, 255, 25);  
box-shadow:4px 4px 4px 4px rgb(67, 255,  
25) }
```



# Background

The CSS property to change the background color of an element to Yxy 72.7835, 0.3085, 0.5870 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(67, 255, 25) }
```

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

```
.background{ background-color: rgb(67, 255,  
25) }
```

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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