

# Converting Colors

$Y_{xy}(56.7550, 0.3176, 0.5704)$

Have a look what the booklet for  
Yxy(56.7550, 0.3176, 0.5704)  
contains.

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**Color**

**Yxy(56.5589, 0.3175, 0.5706)**

# Conversions

## Conversions Part 1

Format	Color
Hex	57E226
RGB	87, 226, 38
RGB Percent	34%, 89%, 15%
CMY	0.6591, 0.1137, 0.8510
CMYK	0.62, 0.00, 0.83, 0.11
HSL	104°, 76%, 52%
HSV	104°, 83%, 89%
XYZ	31.4712, 56.5589, 11.0917
YIQ	163.0070, -22.4960, -87.9360

# Conversions

## Conversions Part 2

<b>Format</b>	<b>Color</b>
<b>RYB</b>	38, 226, 177
Decimal	5759526
CIELab	79.93, -67.59, 71.99
CIELCh	80, 98.746, 133.192
Yxy	56.5589, 0.3175, 0.5706
Android (android.graphics.Color)	4283949606 (0xFF57E226)
YUV	163.0070, -61.6285, -66.6581
Hunter-Lab	75.2057, -56.9133, 43.8996

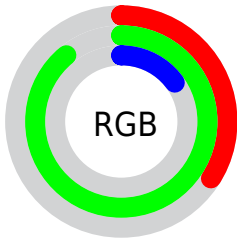
# Details

The Yxy color **56.5589, 0.3175, 0.5706** is a dark color, and the websafe version is hex **33CC00**.

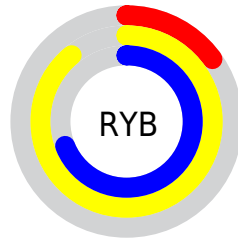
The color can be described as dark washed green. A complement of this color would be **16.2369, 0.2666, 0.1329**, and the grayscale version is **36.9257, 0.3127, 0.3290**.

A 20% lighter version of the original color is **79.1350, 0.3292, 0.5103**, and **28.3759, 0.3000, 0.6000** is the 20% darker color. If you saturate the color by 10%, you get **55.7441, 0.3132, 0.5854**, and if you desaturate by 10%, it is **57.6533, 0.3207, 0.5487**.

# Distribution



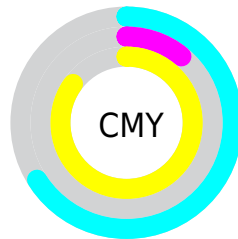
- Red (34%)
- Green (89%)
- Blue (15%)



- Red (15%)
- Yellow (89%)
- Blue (69%)



- Cyan (62%)
- Magenta (0%)
- Yellow (83%)
- Black (11%)




- Cyan (66%)
- Magenta (11%)
- Yellow (85%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 56.5589, 0.3175, 0.5706 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 56.5589, 0.3175, 0.5706 by changing the saturation by 10% instead.




 56.5589, 0.3175,  
0.5706


 56.5589, 0.3175,  
0.5706

 411.7944, 0.3261,  
0.4470


 40.6512, 0.3115,  
0.5998


 99.8213, 0.3235,  
0.5264


 28.0466, 0.3017,  
0.6353


 127.9448, 0.3249,  
0.5094

 18.3608, 0.2854,  
0.6782


 160.9089, 0.3257,  
0.4950

 11.2093, 0.2616,  
0.7384


 199.0982, 0.3262,  
0.4826

 6.2078, 0.2136,  
0.7864

 242.8970, 0.3264,  
0.4719

 2.9719, 0.1308,  
0.8692

 292.6897, 0.3264,


 1.1171, 0.0000,


0.4625

1.0000


348.8607, 0.3263,  
0.4543


 0.0000, 0.0000,  
0.0000

 56.5589, 0.3175,  
0.5706


 56.5589, 0.3175,  
0.5706


 55.7441, 0.3132,  
0.5854


 57.6533, 0.3207,  
0.5487

 55.3226, 0.3102,  
0.5919

 59.0457, 0.3227,  
0.5211

 60.7610, 0.3234,  
0.4897

 62.8191, 0.3228,  
0.4566

 65.2384, 0.3213,  
0.4237

■ 68.0357, 0.3191,  
0.3922

■ 71.2270, 0.3165,  
0.3631

■ 74.8269, 0.3137,  
0.3368

■ 78.8498, 0.3107,  
0.3133

# Harmonies

## Analogous

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



56.5589, 0.4266, 0.5310



56.5589, 0.3175, 0.5706



56.5589, 0.2125, 0.4871

# Triad

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



56.5589, 0.3175, 0.5706



56.5589, 0.1280, 0.1669



56.5589, 0.5112, 0.2873

# Complementary

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



56.5589, 0.3175, 0.5706



16.2369, 0.2666, 0.1329

# 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.



56.5589, 0.3901, 0.2213



56.5589, 0.3175, 0.5706



56.5589, 0.1736, 0.1558

# Square

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



56.5589, 0.3175, 0.5706



56.5589, 0.1169, 0.2184



56.5589, 0.2619, 0.1749



56.5589, 0.5567, 0.3619



# Rectangle

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



56.5589, 0.3175, 0.5706



56.5589, 0.1602, 0.3815



56.5589, 0.2619, 0.1749



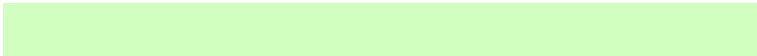
56.5589, 0.4765, 0.2639

# Sweetspot

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



56.5613, 0.3175, 0.5706



88.6787, 0.3196, 0.3983



47.3130, 0.4584, 0.4593



18.6977, 0.3204, 0.4093



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.



56.5613, 0.3175, 0.5706



72.6902, 0.3098, 0.5922



55.4184, 0.2893, 0.5431



15.5087, 0.3155, 0.3530



31.6067, 0.3111, 0.5912



2.2335, 0.3222, 0.5824



# Inverse Universe

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



16.2369, 0.2666, 0.1329



17.9949, 0.2546, 0.1176



20.9406, 0.3762, 0.1944



13.7468, 0.3096, 0.3056



7.8921, 0.2561, 0.1184

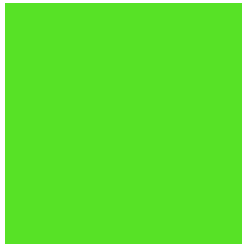


0.5894, 0.2665, 0.1242



# Previews

## White Background



This preview shows how the Yxy color 56.5589, 0.3175, 0.5706 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 56.5589, 0.3175, 0.5706 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

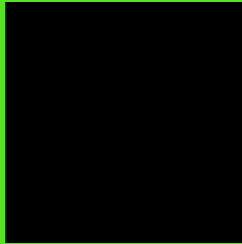
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

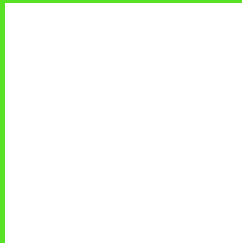
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**Yxy 56.5589, 0.3175, 0.5706**

## **Background**



This preview shows how black text looks on a background with the Yxy color 56.5589, 0.3175, 0.5706.



This preview shows how white text looks on a background with the Yxy color 56.5589, 0.3175, 0.5706.

# 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

56.5589, 0.3175, 0.5706

### Protanopia

55.3984, 0.4361, 0.4830

### Deuteranopia

55.4492, 0.4566, 0.4476



## Tritanopia

55.9243, 0.2482, 0.3069

# Trichromacy



## Original Color

56.5589, 0.3175, 0.5706



## Protanomaly

53.9922, 0.3846, 0.5212



## Deuteranomaly

52.7037, 0.3983, 0.4972



## Tritanomaly

54.9599, 0.2798, 0.4125

# Monochromacy



## Original Color

56.5589, 0.3175, 0.5706



## Achromatopsia

36.6253, 0.3127, 0.3290



## Achromatomaly

41.5767, 0.3213, 0.4334

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 56.5589, 0.3175, 0.5706 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(87, 226, 38)` looks like.

```
.text, #text, p{  
    color:rgb(87, 226, 38)  
}
```

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(87, 226, 38) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(87, 226, 38) }
```

## Border

The CSS property to change the border of an element to Yxy 56.5589, 0.3175, 0.5706 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(87, 226, 38) }
```

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

```
.border{ border-color:rgb(87, 226, 38) }
```

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

Here you see how a box with a 4 pixel rgb(87, 226, 38) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(87, 226, 38); -webkit-box-  
shadow:4px 4px 4px 4px rgb(87, 226, 38);  
box-shadow:4px 4px 4px 4px rgb(87, 226,  
38) }
```



# Background

The CSS property to change the background color of an element to Yxy 56.5589, 0.3175, 0.5706 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(87, 226, 38) }
```

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

```
.background{ background-color: rgb(87, 226,  
38) }
```

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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