

# Converting Colors

$Y_{xy}(73.7159, 0.3176, 0.5849)$

Have a look what the booklet for  
Yxy(73.7159, 0.3176, 0.5849)  
contains.

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**Color**

**Yxy(73.7068, 0.3175, 0.5849)**

# Conversions

## Conversions Part 1

Format	Color
Hex	5AFF06
RGB	90, 255, 6
RGB Percent	35%, 100%, 2%
CMY	0.6471, 0.0000, 0.9751
CMYK	0.65, 0.00, 0.98, 0.00
HSL	100°, 100%, 51%
HSV	100°, 98%, 100%
XYZ	40.0101, 73.7068, 12.2992
YIQ	177.2790, -18.4110, -112.4190

# Conversions

## Conversions Part 2

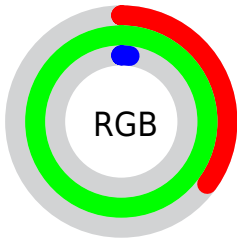
<b>Format</b>	<b>Color</b>
<b>RYB</b>	6, 255, 171
Decimal	5963526
CIELab	88.78, -76.93, 83.98
CIELCh	89, 113.890, 132.490
Yxy	73.7068, 0.3175, 0.5849
Android (android.graphics.Color)	4284153606 (0xFF5AFF06)
YUV	177.2790, -84.4405, -76.5437
Hunter-Lab	85.8527, -67.0554, 51.6030

# Details

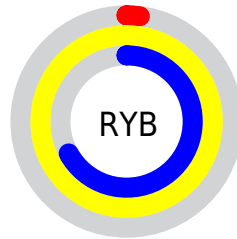
The Yxy color **73.7068, 0.3175, 0.5849** is a dark color, and the websafe version is hex **66FF00**. The color can be described as dark saturated green. A complement of this color would be **16.0554, 0.2382, 0.1093**, and the grayscale version is **44.6012, 0.3127, 0.3290**.

A 20% lighter version of the original color is **79.6991, 0.3360, 0.5142**, and **39.9325, 0.3000, 0.6000** is the 20% darker color. If you saturate the color by 10%, you get **73.4881, 0.3162, 0.5871**, and if you desaturate by 10%, it is **74.7439, 0.3227, 0.5733**.

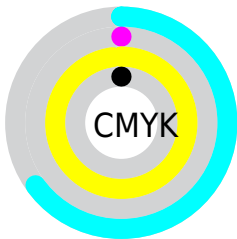
# Distribution



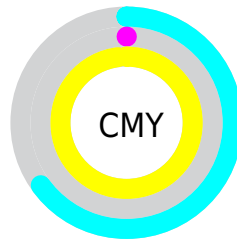
- Red (35%)
- Green (100%)
- Blue (2%)



- Red (2%)
- Yellow (100%)
- Blue (67%)



- Cyan (65%)
- Magenta (0%)
- Yellow (98%)
- Black (0%)




- Cyan (65%)
- Magenta (0%)
- Yellow (98%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 73.7068, 0.3175, 0.5849 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 73.7068, 0.3175, 0.5849 by changing the saturation by 10% instead.





 73.7068, 0.3175,  
0.5849


 73.7068, 0.3175,  
0.5849


473.4608, 0.3281,  
0.4605


 54.5541, 0.3112,  
0.6122


 124.4801, 0.3242,  
0.5420

 39.0448, 0.3014,  
0.6445


 156.8695, 0.3259,  
0.5251


 26.7946, 0.2862,  
0.6823


 194.4399, 0.3270,  
0.5106

 17.4190, 0.2654,  
0.7342

 237.5757, 0.3277,  
0.4979

 10.5337, 0.2256,  
0.7744

 286.6613, 0.3280,  
0.4867

 5.7542, 0.1714,  
0.8286


 342.0811, 0.3282,

 2.6962, 0.0353,


0.4769


0.9647


404.2194, 0.3282,  
0.4682


 0.9753, 0.0000,  
1.0000


 0.0000, 0.0000,  
0.0000


 73.7068, 0.3175,  
0.5849

 73.7068, 0.3175,  
0.5849


 73.4881, 0.3162,  
0.5871

 74.7439, 0.3227,  
0.5733


 76.0917, 0.3267,  
0.5549


 77.7836, 0.3290,  
0.5303

 79.8467, 0.3297,  
0.5012

 82.3048, 0.3288,  
0.4695

 85.1795, 0.3267,  
0.4371

 88.4908, 0.3236,  
0.4054

 92.2570, 0.3199,  
0.3755

 96.4955, 0.3158,  
0.3479

# Harmonies

## Analogous

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



73.7068, 0.4307, 0.5361



73.7068, 0.3175, 0.5849



73.7068, 0.2087, 0.5011

# Triad

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



73.7068, 0.3175, 0.5849



73.7068, 0.1206, 0.1608



73.7068, 0.5195, 0.2824

# Complementary

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



73.7068, 0.3175, 0.5849



16.0554, 0.2382, 0.1093

# 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.



73.7068, 0.3904, 0.2152



73.7068, 0.3175, 0.5849



73.7068, 0.1662, 0.1491

# Square

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



73.7068, 0.3175, 0.5849



73.7068, 0.1098, 0.2142



73.7068, 0.2562, 0.1682



73.7068, 0.5679, 0.3582



# Rectangle

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



73.7068, 0.3175, 0.5849



73.7068, 0.1543, 0.3878



73.7068, 0.2562, 0.1682



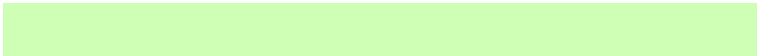
73.7068, 0.4823, 0.2586

# Sweetspot

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



73.7072, 0.3175, 0.5849



87.9696, 0.3241, 0.4100



49.2684, 0.4965, 0.4426



18.5212, 0.3255, 0.4234



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.



73.7072, 0.3175, 0.5849



73.4881, 0.3162, 0.5871



71.7401, 0.2967, 0.5865



20.4650, 0.3167, 0.3532



38.4720, 0.3173, 0.5863



3.8030, 0.3258, 0.5795



# Inverse Universe

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



16.0554, 0.2382, 0.1093



15.6792, 0.2361, 0.1074



26.4441, 0.3625, 0.1778



17.9764, 0.3084, 0.3052



8.2780, 0.2375, 0.1082

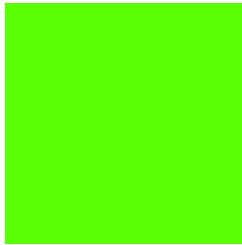


0.8660, 0.2471, 0.1135



# Previews

## White Background



This preview shows how the Yxy color 73.7068, 0.3175, 0.5849 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

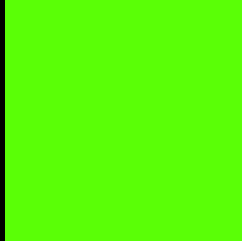
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 73.7068, 0.3175, 0.5849 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

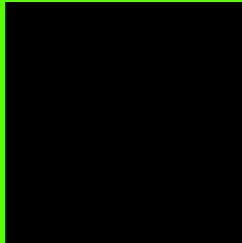
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

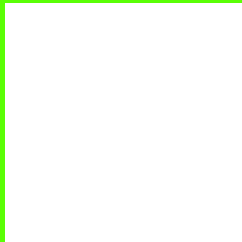
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**Yxy 73.7068, 0.3175, 0.5849**

## **Background**



This preview shows how black text looks on a background with the Yxy color 73.7068, 0.3175, 0.5849.



This preview shows how white text looks on a background with the Yxy color 73.7068, 0.3175, 0.5849.

# 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

73.7068, 0.3175, 0.5849

### Protanopia

71.8526, 0.4410, 0.4881

### Deuteranopia

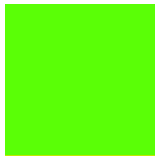
72.2274, 0.3865, 0.3907



## Tritanopia

72.7864, 0.2481, 0.3069

# Trichromacy



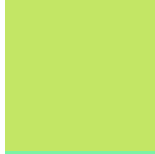
## Original Color

73.7068, 0.3175, 0.5849



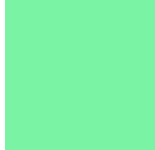
## Protanomaly

69.3586, 0.3872, 0.5304



## Deuteranomaly

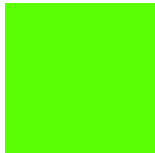
69.1353, 0.3662, 0.4763



## Tritanomaly

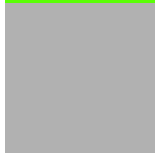
70.9554, 0.2847, 0.4310

# Monochromacy



## Original Color

73.7068, 0.3175, 0.5849



## Achromatopsia

43.9657, 0.3127, 0.3290



## Achromatomaly

50.9202, 0.3279, 0.4561

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 73.7068, 0.3175, 0.5849 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(90, 255, 6)` looks like.

```
.text, #text, p{  
    color:rgb(90, 255, 6)  
}
```

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(90, 255, 6) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(90, 255, 6) }
```

## Border

The CSS property to change the border of an element to Yxy 73.7068, 0.3175, 0.5849 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(90, 255, 6) }
```

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

```
.border{ border-color:rgb(90, 255, 6) }
```

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

Here you see how a box with a 4 pixel `rgb(90, 255, 6)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(90, 255, 6); -webkit-box-  
shadow:4px 4px 4px 4px rgb(90, 255, 6);  
box-shadow:4px 4px 4px 4px rgb(90, 255, 6)  
}
```



# Background

The CSS property to change the background color of an element to Yxy 73.7068, 0.3175, 0.5849 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(90, 255, 6) }
```

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

```
.background{ background-color: rgb(90, 255,  
6) }
```

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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