

# Converting Colors

$Y_{xy}(72.4450, 0.3078, 0.5938)$

Have a look what the booklet for  
Yxy(72.4450, 0.3078, 0.5938)  
contains.

<b>Yxy(72.4498, 0.3079, 0.5938)</b> .....	3
<b><i>Conversions</i></b> .....	4
<b><i>Details</i></b> .....	6
<b><i>Harmonies</i></b> .....	12
<b><i>Previews</i></b> .....	22
<b><i>Color Blindness Simulation</i></b> .....	25
<b><i>CSS Examples</i></b> .....	28

# Color

**Yxy(72.4498, 0.3079, 0.5938)**

# Conversions

## Conversions Part 1

Format	Color
Hex	3BFF00
RGB	59, 255, 0
RGB Percent	23%, 100%, 0%
CMY	0.7682, 0.0000, 1.0000
CMYK	0.77, 0.00, 1.00, 0.00
HSL	106°, 100%, 50%
HSV	106°, 100%, 100%
XYZ	37.5670, 72.4498, 11.9936
YIQ	167.3260, -34.9610, -120.8570

# Conversions

## Conversions Part 2

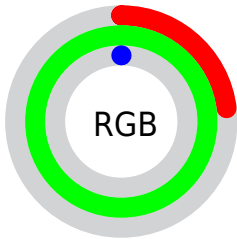
<b>Format</b>	<b>Color</b>
<b>RYB</b>	0, 255, 196
Decimal	3931904
CIELab	88.18, -82.13, 83.76
CIELCh	88, 117.308, 134.440
Yxy	72.4498, 0.3079, 0.5938
Android (android.graphics.Color)	4282121984 (0xFF3BFF00)
YUV	167.3260, -82.4917, -95.0019
Hunter-Lab	85.1174, -70.1737, 51.2279

# Details

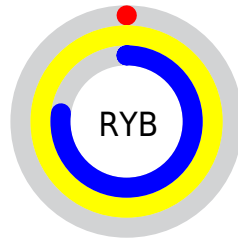
The Yxy color **72.4498, 0.3079, 0.5938** is a dark color, and the websafe version is hex **33FF00**. The color can be described as dark saturated green. A complement of this color would be **18.9406, 0.2617, 0.1215**, and the grayscale version is **39.2523, 0.3127, 0.3290**.

A 20% lighter version of the original color is **77.6960, 0.3245, 0.5234**, and **39.9325, 0.3000, 0.6000** is the 20% darker color. If you saturate the color by 10%, you get **72.4533, 0.3079, 0.5937**, and if you desaturate by 10%, it is **73.2419, 0.3121, 0.5840**.

# Distribution



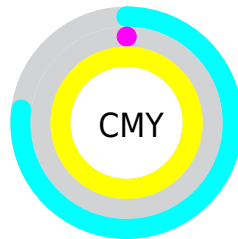
- Red (23%)
- Green (100%)
- Blue (0%)



- Red (0%)
- Yellow (100%)
- Blue (77%)



- Cyan (77%)
- Magenta (0%)
- Yellow (100%)
- Black (0%)




- Cyan (77%)
- Magenta (0%)
- Yellow (100%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 72.4498, 0.3079, 0.5938 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 72.4498, 0.3079, 0.5938 by changing the saturation by 10% instead.





 72.4498, 0.3079,  
0.5938


 72.4498, 0.3079,  
0.5938


469.1057, 0.3233,  
0.4638

 53.5262, 0.3004,  
0.6226


 122.6958, 0.3164,  
0.5487


 38.2230, 0.2891,  
0.6568


 154.7870, 0.3188,  
0.5311

 26.1558, 0.2719,  
0.6969


 192.0362, 0.3204,  
0.5158

 16.9402, 0.2483,  
0.7517

 234.8277, 0.3216,  
0.5026

 10.1919, 0.2057,  
0.7943

 283.5461, 0.3223,  
0.4910

 5.5264, 0.1488,  
0.8512

 338.5756, 0.3228,

 2.5593, 0.0000,

0.4808

1.0000

400.3007, 0.3232,  
0.4718

■ 0.9062, 0.0000,  
1.0000

■ 0.0000, 0.0000,  
0.0000

■ 72.4498, 0.3079,  
0.5938

■ 72.4498, 0.3079,  
0.5938


■ 72.4533, 0.3079,  
0.5937

■ 73.2419, 0.3121,  
0.5840


■ 74.3719, 0.3160,  
0.5673


■ 75.8919, 0.3189,  
0.5434

■ 77.8373, 0.3206,  
0.5140

 80.2392, 0.3212,  
0.4814

 83.1254, 0.3207,  
0.4476

 86.5216, 0.3194,  
0.4144

 90.4516, 0.3175,  
0.3832

 94.9374, 0.3152,  
0.3547

# Harmonies

## Analogous

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



72.4498, 0.4242, 0.5463



72.4498, 0.3079, 0.5938



72.4498, 0.1982, 0.4977

# Triad

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



72.4498, 0.3079, 0.5938



72.4498, 0.1181, 0.1545



72.4498, 0.5329, 0.2850

# Complementary

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



72.4498, 0.3079, 0.5938



18.9406, 0.2617, 0.1215

# 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.



72.4498, 0.4025, 0.2159



72.4498, 0.3079, 0.5938



72.4498, 0.1668, 0.1452

# Square

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



72.4498, 0.3079, 0.5938



72.4498, 0.1048, 0.2049



72.4498, 0.2620, 0.1665



72.4498, 0.5749, 0.3621



# Rectangle

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



72.4498, 0.3079, 0.5938



72.4498, 0.1453, 0.3778



72.4498, 0.2620, 0.1665



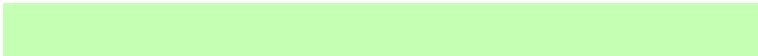
72.4498, 0.4963, 0.2607

# Sweetspot

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



72.4533, 0.3079, 0.5937



86.5216, 0.3194, 0.4144



60.5147, 0.4687, 0.4660



18.1991, 0.3200, 0.4282



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.



72.4533, 0.3079, 0.5937



71.9374, 0.2917, 0.5702



20.3713, 0.3151, 0.3533



37.9137, 0.3088, 0.5931



3.7384, 0.3161, 0.5872

# Inverse Universe

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



18.9406, 0.2617, 0.1215



24.8479, 0.4042, 0.2000



18.0757, 0.3101, 0.3053



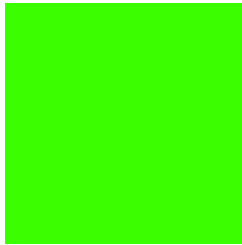
9.9678, 0.2627, 0.1221



1.0196, 0.2696, 0.1259

# Previews

## White Background



This preview shows how the Yxy color 72.4498, 0.3079, 0.5938 looks on a white background.

## Color Contrast Check

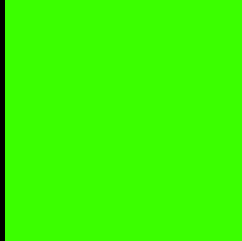
Large Text (above 18pt) WCAG AA × Fail

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 72.4498, 0.3079, 0.5938 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

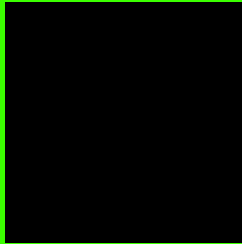
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**Yxy 72.4498, 0.3079, 0.5938**

## Background



This preview shows how black text looks on a background with the Yxy color 72.4498, 0.3079, 0.5938.



This preview shows how white text looks on a background with the Yxy color 72.4498, 0.3079, 0.5938.



# 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

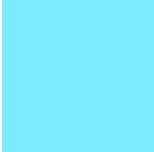
72.4498, 0.3079, 0.5938

### Protanopia

70.9606, 0.4403, 0.4886

### Deuteranopia

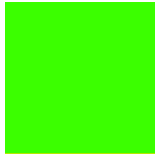
70.4851, 0.3928, 0.3948



## **Tritanopia**

71.5709, 0.2420, 0.3065

# Trichromacy



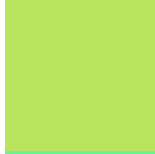
## Original Color

72.4498, 0.3079, 0.5938



## Protanomaly

67.8615, 0.3783, 0.5378



## Deuteranomaly

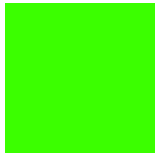
66.4853, 0.3620, 0.4859



## Tritanomaly

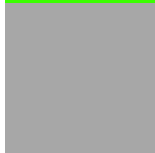
69.4765, 0.2769, 0.4378

# Monochromacy



## Original Color

72.4498, 0.3079, 0.5938



## Achromatopsia

38.6429, 0.3127, 0.3290



## Achromatomaly

46.4766, 0.3214, 0.4679

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 72.4498, 0.3079, 0.5938 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(59, 255, 0)` looks like.

```
.text, #text, p{  
    color:rgb(59, 255, 0)  
}
```

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(59, 255, 0) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(59, 255, 0) }
```

## Border

The CSS property to change the border of an element to Yxy 72.4498, 0.3079, 0.5938 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(59, 255, 0) }
```

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

```
.border{ border-color:rgb(59, 255, 0) }
```

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

Here you see how a box with a 4 pixel `rgb(59, 255, 0)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(59, 255, 0); -webkit-box-  
shadow:4px 4px 4px 4px rgb(59, 255, 0);  
box-shadow:4px 4px 4px 4px rgb(59, 255, 0)  
}
```

# Background

The CSS property to change the background color of an element to Yxy 72.4498, 0.3079, 0.5938 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(59, 255, 0) }
```

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

```
.background{ background-color: rgb(59, 255,  
0) }
```

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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