

# Converting Colors

$Y_{xy}(68.9291, 0.3050, 0.5961)$

Have a look what the booklet for  
Yxy(68.9291, 0.3050, 0.5961)  
contains.

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**Color**

**Yxy(68.9291, 0.3050, 0.5961)**

# Conversions

## Conversions Part 1

Format	Color
Hex	2DFA00
RGB	45, 250, 0
RGB Percent	18%, 98%, 0%
CMY	0.8233, 0.0196, 1.0000
CMYK	0.82, 0.00, 1.00, 0.02
HSL	109°, 100%, 49%
HSV	109°, 100%, 98%
XYZ	35.2682, 68.9291, 11.4361
YIQ	160.2050, -41.9300, -121.2100

# Conversions

## Conversions Part 2

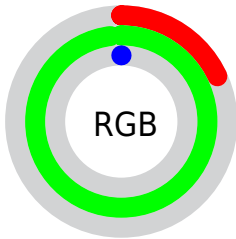
Format	Color
<b>RYB</b>	0, 250, 205
Decimal	3013120
CIELab	86.47, -82.38, 82.31
CIELCh	86, 116.452, 135.026
Yxy	68.9291, 0.3050, 0.5961
Android (android.graphics.Color)	4281203200 (0xFF2DFA00)
YUV	160.2050, -78.9811, -101.0348
Hunter-Lab	83.0236, -69.4648, 49.9495

# Details

The Yxy color **68.9291, 0.3050, 0.5961** 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 **19.8738, 0.2748, 0.1288**, and the grayscale version is **35.6495, 0.3127, 0.3290**.

A 20% lighter version of the original color is **77.0212, 0.3205, 0.5269**, and **37.6993, 0.3000, 0.6000** is the 20% darker color. If you saturate the color by 10%, you get **68.9326, 0.3050, 0.5960**, and if you desaturate by 10%, it is **69.5864, 0.3085, 0.5868**.

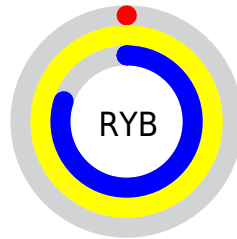
# Distribution



Red (18%)

Green (98%)

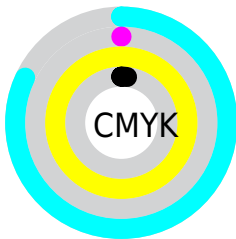
Blue (0%)



Red (0%)

Yellow (98%)

Blue (80%)

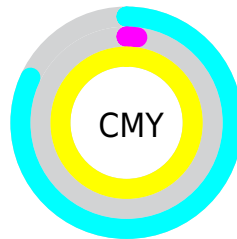


Cyan (82%)

Magenta (0%)

Yellow (100%)

Black (2%)



Cyan (82%)

Magenta (2%)


Yellow (100%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 68.9291, 0.3050, 0.5961 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 68.9291, 0.3050, 0.5961 by changing the saturation by 10% instead.




 68.9291, 0.3050,  
0.5961

 68.9291, 0.3050,  
0.5961

456.7809, 0.3219,  
0.4635


 50.6540, 0.2970,  
0.6259

 117.6803, 0.3141,  
0.5498

 35.9333, 0.2850,  
0.6612


 148.9252, 0.3167,  
0.5318


 24.3827, 0.2667,  
0.7029


 185.2621, 0.3185,  
0.5162

 15.6177, 0.2411,  
0.7589

 227.0754, 0.3198,  
0.5028

 9.2541, 0.1963,  
0.8037

 274.7495, 0.3206,  
0.4911

 4.9073, 0.1362,  
0.8638


 328.6689, 0.3212,


 2.1930, 0.0000,


0.4808


1.0000


389.2179, 0.3216,  
0.4716


 0.7162, 0.0000,  
1.0000


 0.0000, 0.0000,  
0.0000


 68.9291, 0.3050,  
0.5961


 68.9291, 0.3050,  
0.5961

 68.9326, 0.3050,  
0.5960

 69.5864, 0.3085,  
0.5868

 70.5844, 0.3118,  
0.5702

 71.9789, 0.3146,  
0.5461

 73.8084, 0.3165,  
0.5162

■ 76.1064, 0.3174,  
0.4830

■ 78.9031, 0.3175,  
0.4486

■ 82.2262, 0.3169,  
0.4150

■ 86.1011, 0.3158,  
0.3835

■ 90.5517, 0.3144,  
0.3547

# Harmonies

## Analogous

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



68.9291, 0.4221, 0.5492



68.9291, 0.3050, 0.5961



68.9291, 0.1952, 0.4962

# Triad

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



68.9291, 0.3050, 0.5961



68.9291, 0.1175, 0.1528



68.9291, 0.5367, 0.2859

# Complementary

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



68.9291, 0.3050, 0.5961



19.8738, 0.2748, 0.1288

# 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.



68.9291, 0.4061, 0.2163



68.9291, 0.3050, 0.5961



68.9291, 0.1672, 0.1443

# Square

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



68.9291, 0.3050, 0.5961



68.9291, 0.1035, 0.2022



68.9291, 0.2638, 0.1662



68.9291, 0.5766, 0.3633



# Rectangle

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



68.9291, 0.3050, 0.5961



68.9291, 0.1427, 0.3746



68.9291, 0.2638, 0.1662



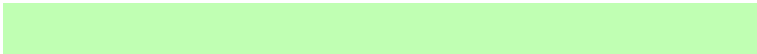
68.9291, 0.5003, 0.2615

# Sweetspot

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



68.9326, 0.3050, 0.5960



85.9985, 0.3169, 0.4151



63.5910, 0.4567, 0.4756



18.0786, 0.3172, 0.4291



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.



68.9326, 0.3050, 0.5960



72.0999, 0.3049, 0.5961



68.9404, 0.2885, 0.5587



19.4596, 0.3143, 0.3533



36.6065, 0.3057, 0.5955



3.4302, 0.3126, 0.5900



# Inverse Universe

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



19.8738, 0.2748, 0.1288



20.7814, 0.2748, 0.1287



23.2587, 0.4232, 0.2105



17.3571, 0.3109, 0.3054



10.5991, 0.2756, 0.1292

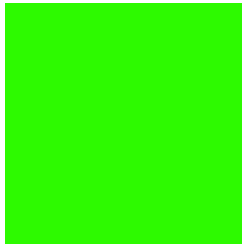


1.0215, 0.2813, 0.1323



# Previews

## White Background



This preview shows how the Yxy color 68.9291, 0.3050, 0.5961 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

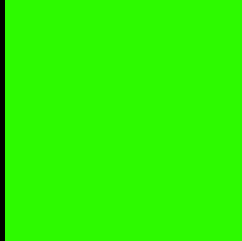
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 68.9291, 0.3050, 0.5961 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 68.9291, 0.3050, 0.5961**

## **Background**



This preview shows how black text looks on a background with the Yxy color 68.9291, 0.3050, 0.5961.



This preview shows how white text looks on a background with the Yxy color 68.9291, 0.3050, 0.5961.

# 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

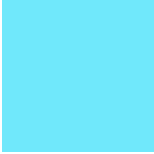
68.9291, 0.3050, 0.5961

### Protanopia

67.4781, 0.4408, 0.4882

### Deuteranopia

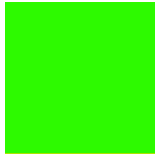
66.9611, 0.4099, 0.4084



## **Tritanopia**

68.1230, 0.2378, 0.3059

# Trichromacy



## Original Color

68.9291, 0.3050, 0.5961



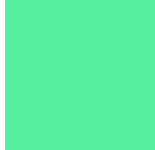
## Protanomaly

64.0329, 0.3744, 0.5409



## Deuteranomaly

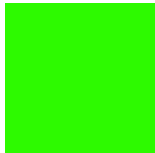
62.4203, 0.3666, 0.4953



## Tritanomaly

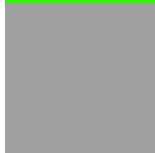
66.3458, 0.2722, 0.4380

# Monochromacy



## Original Color

68.9291, 0.3050, 0.5961



## Achromatopsia

35.1533, 0.3127, 0.3290



## Achromatomaly

42.9508, 0.3172, 0.4708

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 68.9291, 0.3050, 0.5961 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(45, 250, 0)` looks like.

```
.text, #text, p{  
    color:rgb(45, 250, 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(45, 250, 0) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(45, 250, 0) }
```

## Border

The CSS property to change the border of an element to Yxy 68.9291, 0.3050, 0.5961 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(45, 250, 0) }
```

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

```
.border{ border-color:rgb(45, 250, 0) }
```

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

Here you see how a box with a 4 pixel rgb(45, 250, 0) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(45, 250, 0); -webkit-box-  
shadow:4px 4px 4px 4px rgb(45, 250, 0);  
box-shadow:4px 4px 4px 4px rgb(45, 250, 0)  
}
```



# Background

The CSS property to change the background color of an element to Yxy 68.9291, 0.3050, 0.5961 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(45, 250, 0) }
```

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

```
.background{ background-color: rgb(45, 250,  
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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