

# Converting Colors

$Y_{xy}(59.7500, 0.3058, 0.5954)$

Have a look what the booklet for  
Yxy(59.7500, 0.3058, 0.5954)  
contains.

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# Color

**Yxy(59.9745, 0.3057, 0.5955)**

# Conversions

## Conversions Part 1

Format	Color
Hex	2DEB00
RGB	45, 235, 0
RGB Percent	18%, 92%, 0%
CMY	0.8238, 0.0784, 1.0000
CMYK	0.81, 0.00, 1.00, 0.08
HSL	109°, 100%, 46%
HSV	109°, 100%, 92%
XYZ	30.7879, 59.9745, 9.9504
YIQ	151.4000, -37.8050, -113.3650

# Conversions

## Conversions Part 2

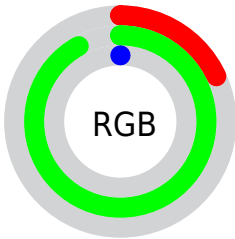
<b>Format</b>	<b>Color</b>
<b>RYB</b>	0, 235, 190
Decimal	3009280
CIELab	81.82, -78.27, 78.58
CIELCh	82, 110.907, 134.888
Yxy	59.9745, 0.3057, 0.5955
Android (android.graphics.Color)	4281199360 (0xFF2DEB00)
YUV	151.4000, -74.6402, -93.3128
Hunter-Lab	77.4432, -64.5621, 46.5923

# Details

The Yxy color **59.9745, 0.3057, 0.5955** is a dark color, and the websafe version is hex **33FF33**. The color can be described as dark washed green. A complement of this color would be **16.9550, 0.2722, 0.1273**, and the grayscale version is **31.4601, 0.3127, 0.3290**.

A 20% lighter version of the original color is **76.7366, 0.3200, 0.5306**, and **31.4443, 0.3000, 0.6000** is the 20% darker color. If you saturate the color by 10%, you get **59.9772, 0.3057, 0.5955**, and if you desaturate by 10%, it is **60.5727, 0.3093, 0.5858**.

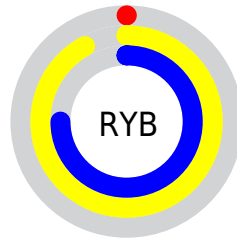
# Distribution



Red (18%)

Green (92%)

Blue (0%)



Red (0%)

Yellow (92%)

Blue (75%)

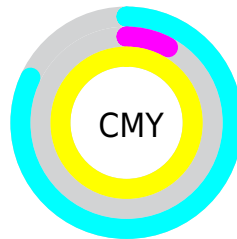


Cyan (81%)

Magenta (0%)

Yellow (100%)

Black (8%)



Cyan (82%)

Magenta (8%)


Yellow (100%)

# Brightness & Saturation Gradients

These gradients show how the Yxy color 59.9745, 0.3057, 0.5955 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 59.9745, 0.3057, 0.5955 by changing the saturation by 10% instead.





 59.9745, 0.3057,  
0.5955


 59.9745, 0.3057,  
0.5955


424.5038, 0.3223,  
0.4601

 43.3981, 0.2973,  
0.6267

 104.7927, 0.3150,  
0.5475


 30.1976, 0.2844,  
0.6641


 133.8032, 0.3175,  
0.5290

 19.9886, 0.2645,  
0.7088


 167.7273, 0.3193,  
0.5132

 12.3868, 0.2348,  
0.7652

 206.9492, 0.3204,  
0.4995

 7.0077, 0.1849,  
0.8151

 251.8534, 0.3212,  
0.4877

 3.4669, 0.1001,  
0.8999

 302.8243, 0.3218,

 1.3801, 0.0000,

0.4773

1.0000

360.2463, 0.3221,  
0.4682

■ 0.2020, 0.0000,  
1.0000

■ 0.0000, 0.0000,  
0.0000

■ 59.9745, 0.3057,  
0.5955

■ 59.9745, 0.3057,  
0.5955

■ 59.9772, 0.3057,  
0.5955

■ 60.5727, 0.3093,  
0.5858

■ 61.4627, 0.3128,  
0.5690

■ 62.6916, 0.3155,  
0.5448

■ 64.2913, 0.3174,  
0.5151

■ 66.2899, 0.3182,  
0.4820

■ 68.7127, 0.3182,  
0.4479

■ 71.5826, 0.3174,  
0.4145

■ 74.9212, 0.3161,  
0.3832

■ 78.7483, 0.3145,  
0.3546

# Harmonies

## Analogous

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



59.9745, 0.4226, 0.5485



59.9745, 0.3057, 0.5955



59.9745, 0.1960, 0.4965

# Triad

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



59.9745, 0.3057, 0.5955



59.9745, 0.1177, 0.1532



59.9745, 0.5357, 0.2857

# Complementary

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



59.9745, 0.3057, 0.5955



16.9550, 0.2722, 0.1273

# 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.



59.9745, 0.4052, 0.2163



59.9745, 0.3057, 0.5955



59.9745, 0.1671, 0.1445

# Square

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



59.9745, 0.3057, 0.5955



59.9745, 0.1039, 0.2029



59.9745, 0.2634, 0.1663



59.9745, 0.5761, 0.3630



# Rectangle

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



59.9745, 0.3057, 0.5955



59.9745, 0.1434, 0.3753



59.9745, 0.2634, 0.1663



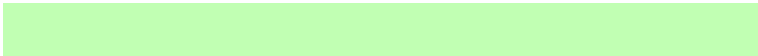
59.9745, 0.4993, 0.2613

# Sweetspot

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



59.9772, 0.3057, 0.5955



86.1087, 0.3174, 0.4150



53.6323, 0.4604, 0.4726



18.1039, 0.3178, 0.4289



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.



59.9772, 0.3057, 0.5955



72.1670, 0.3055, 0.5956



59.8693, 0.2895, 0.5621



17.0007, 0.3144, 0.3531



33.4188, 0.3064, 0.5949



2.6627, 0.3150, 0.5881



# Inverse Universe

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



16.9550, 0.2722, 0.1273



20.3764, 0.2720, 0.1272



20.3620, 0.4163, 0.2067



15.1598, 0.3107, 0.3056



9.4889, 0.2730, 0.1278

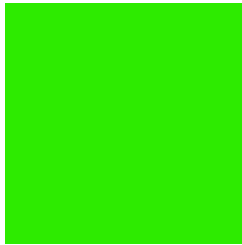


0.7825, 0.2800, 0.1316



# Previews

## White Background



This preview shows how the Yxy color 59.9745, 0.3057, 0.5955 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

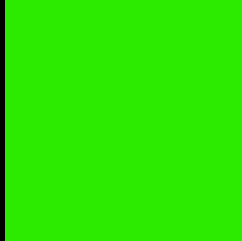
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 59.9745, 0.3057, 0.5955 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 59.9745, 0.3057, 0.5955**

## **Background**



This preview shows how black text looks on a background with the Yxy color 59.9745, 0.3057, 0.5955.



This preview shows how white text looks on a background with the Yxy color 59.9745, 0.3057, 0.5955.

# 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

59.9745, 0.3057, 0.5955

### Protanopia

58.5720, 0.4404, 0.4885

### Deuteranopia

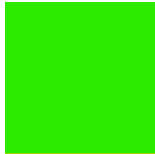
58.3833, 0.4617, 0.4513



## Tritanopia

59.2631, 0.2382, 0.3058

# Trichromacy



## Original Color

59.9745, 0.3057, 0.5955



## Protanomaly

55.6702, 0.3757, 0.5399



## Deuteranomaly

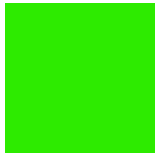
54.0770, 0.3897, 0.5178



## Tritanomaly

57.3981, 0.2729, 0.4373

# Monochromacy



## Original Color

59.9745, 0.3057, 0.5955



## Achromatopsia

30.9469, 0.3127, 0.3290



## Achromatomaly

37.7452, 0.3179, 0.4702

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 59.9745, 0.3057, 0.5955 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, 235, 0)` looks like.

```
.text, #text, p{  
    color:rgb(45, 235, 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, 235, 0) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(45, 235, 0) }
```

## Border

The CSS property to change the border of an element to Yxy 59.9745, 0.3057, 0.5955 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, 235, 0) }
```

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

```
.border{ border-color:rgb(45, 235, 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, 235, 0)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(45, 235, 0); -webkit-box-  
shadow:4px 4px 4px 4px rgb(45, 235, 0);  
box-shadow:4px 4px 4px 4px rgb(45, 235, 0)  
}
```



# Background

The CSS property to change the background color of an element to Yxy 59.9745, 0.3057, 0.5955 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(45, 235, 0) }
```

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

```
.background{ background-color: rgb(45, 235,  
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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