

# Converting Colors

$Y_{xy}(64.8759, 0.2964, 0.5871)$

Have a look what the booklet for  
Yxy(64.8759, 0.2964, 0.5871)  
contains.

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# Color

**Yxy(64.8615, 0.2964, 0.5870)**

# Conversions

## Conversions Part 1

Format	Color
Hex	00F429
RGB	0, 244, 41
RGB Percent	0%, 96%, 16%
CMY	0.9994, 0.0431, 0.8395
CMYK	1.00, 0.00, 0.83, 0.04
HSL	130°, 100%, 48%
HSV	130°, 100%, 96%
XYZ	32.7512, 64.8615, 12.8839
YIQ	147.9020, -80.2610, -114.8610

# Conversions

## Conversions Part 2

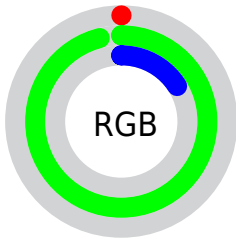
<b>Format</b>	<b>Color</b>
<b>RYB</b>	0, 209, 244
Decimal	62505
CIELab	84.41, -82.28, 74.94
CIELCh	84, 111.287, 137.673
Yxy	64.8615, 0.2964, 0.5870
Android (android.graphics.Color)	4278252585 (0xFF00F429)
YUV	147.9020, -52.7027, -129.7101
Hunter-Lab	80.5366, -68.3499, 46.8907

# Details

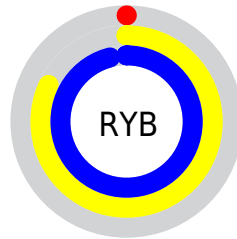
The Yxy color **64.8615, 0.2964, 0.5870** is a dark color, and the websafe version is hex **33FF33**. The color can be described as dark saturated green. A complement of this color would be **23.5593, 0.3692, 0.1808**, and the grayscale version is **29.8376, 0.3127, 0.3290**.

A 20% lighter version of the original color is **76.2736, 0.3083, 0.5161**, and **35.1178, 0.3000, 0.6000** is the 20% darker color. If you saturate the color by 10%, you get **64.8624, 0.2964, 0.5871**, and if you desaturate by 10%, it is **65.2442, 0.2944, 0.5718**.

# Distribution



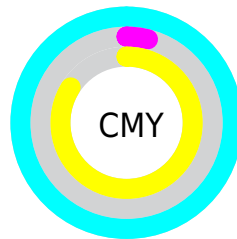
- Red (0%)
- Green (96%)
- Blue (16%)



- Red (0%)
- Yellow (82%)
- Blue (96%)



- Cyan (100%)
- Magenta (0%)
- Yellow (83%)
- Black (4%)




- Cyan (100%)
- Magenta (4%)
- Yellow (84%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 64.8615, 0.2964, 0.5870 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 64.8615, 0.2964, 0.5870 by changing the saturation by 10% instead.




 64.8615, 0.2964,  
0.5870


 64.8615, 0.2964,  
0.5870


442.2941, 0.3157,  
0.4560

 47.3488, 0.2882,  
0.6176


 111.8507, 0.3060,  
0.5404


 33.3115, 0.2760,  
0.6548


 142.0960, 0.3089,  
0.5225


 22.3652, 0.2576,  
0.6997


 177.3543, 0.3110,  
0.5072

 14.1255, 0.2318,  
0.7620

 218.0099, 0.3125,  
0.4941

 8.2080, 0.1857,  
0.8143

 264.4473, 0.3137,  
0.4827

 4.2283, 0.1170,  
0.8830

317.0509, 0.3146,

 1.8021, 0.0000,

0.4727

1.0000

376.2050, 0.3152,  
0.4639

■ 0.4885, 0.0000,  
1.0000

■ 0.0000, 0.0000,  
0.0000

■ 64.8615, 0.2964,  
0.5870

■ 64.8615, 0.2964,  
0.5870

■ 64.8624, 0.2964,  
0.5871

■ 65.2442, 0.2944,  
0.5718

■ 65.9580, 0.2930,  
0.5503

■ 67.0909, 0.2928,  
0.5236

■ 68.6967, 0.2938,  
0.4936

■ 70.8211, 0.2958,  
0.4622

■ 73.5041, 0.2986,  
0.4311

■ 76.7819, 0.3019,  
0.4017

■ 80.6876, 0.3054,  
0.3746

■ 85.2519, 0.3091,  
0.3503

# Harmonies

## Analogous

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



64.8615, 0.4119, 0.5530



64.8615, 0.2964, 0.5870



64.8615, 0.1902, 0.4766

# Triad

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



64.8615, 0.2964, 0.5870



64.8615, 0.1234, 0.1538



64.8615, 0.5392, 0.2940

# Complementary

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



64.8615, 0.2964, 0.5870



23.5593, 0.3692, 0.1808

# 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.



64.8615, 0.4171, 0.2241



64.8615, 0.2964, 0.5870



64.8615, 0.1763, 0.1480

# Square

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



64.8615, 0.2964, 0.5870



64.8615, 0.1068, 0.1987



64.8615, 0.2760, 0.1723



64.8615, 0.5701, 0.3715



# Rectangle

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



64.8615, 0.2964, 0.5870



64.8615, 0.1411, 0.3588



64.8615, 0.2760, 0.1723



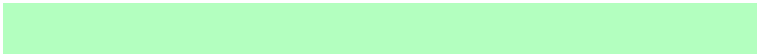
64.8615, 0.5062, 0.2696

# Sweetspot

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



64.8642, 0.2964, 0.5870



84.8188, 0.3018, 0.4020



77.4512, 0.3897, 0.5288



17.8101, 0.3004, 0.4143



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.



64.8642, 0.2964, 0.5870



71.6918, 0.2965, 0.5873



67.3388, 0.2566, 0.4438



18.5172, 0.3093, 0.3493



35.2807, 0.2959, 0.5851



3.1136, 0.2903, 0.5649



# Inverse Universe

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



23.5593, 0.3692, 0.1808



26.0313, 0.3694, 0.1808



19.8376, 0.5682, 0.2904



16.7179, 0.3164, 0.3095



12.8250, 0.3683, 0.1803

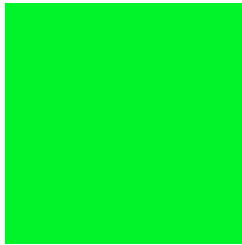


1.1396, 0.3614, 0.1764



# Previews

## White Background



This preview shows how the Yxy color 64.8615, 0.2964, 0.5870 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

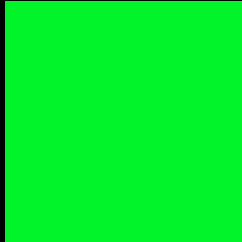
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 64.8615, 0.2964, 0.5870 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

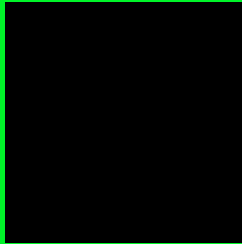
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

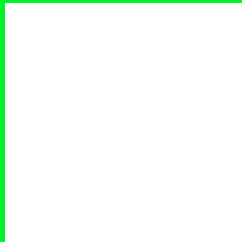
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**Yxy 64.8615, 0.2964, 0.5870**

## **Background**



This preview shows how black text looks on a background with the Yxy color 64.8615, 0.2964, 0.5870.



This preview shows how white text looks on a background with the Yxy color 64.8615, 0.2964, 0.5870.

# 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

64.8615, 0.2964, 0.5870

### Protanopia

63.3620, 0.4369, 0.4830

### Deuteranopia

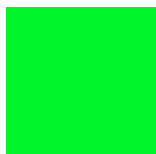
63.0269, 0.4327, 0.4263



## Tritanopia

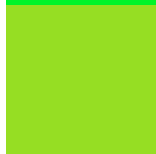
64.4168, 0.2350, 0.3053

# Trichromacy



## Original Color

64.8615, 0.2964, 0.5870



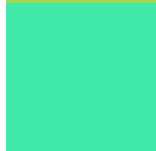
## Protanomaly

58.8479, 0.3587, 0.5412



## Deuteranomaly

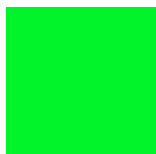
56.8468, 0.3572, 0.5000



## Tritanomaly

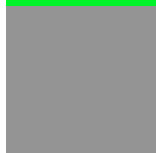
62.3419, 0.2586, 0.4169

# Monochromacy



## Original Color

64.8615, 0.2964, 0.5870



## Achromatopsia

29.6138, 0.3127, 0.3290



## Achromatomaly

37.3508, 0.2963, 0.4552

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 64.8615, 0.2964, 0.5870 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(0, 244, 41)` looks like.

```
.text, #text, p{  
    color:rgb(0, 244, 41)  
}
```

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(0, 244, 41) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(0, 244, 41) }
```

## Border

The CSS property to change the border of an element to Yxy 64.8615, 0.2964, 0.5870 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(0, 244, 41) }
```

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

```
.border{ border-color:rgb(0, 244, 41) }
```

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

Here you see how a box with a 4 pixel rgb(0, 244, 41) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(0, 244, 41); -webkit-box-  
shadow:4px 4px 4px 4px rgb(0, 244, 41);  
box-shadow:4px 4px 4px 4px rgb(0, 244, 41)  
}
```



# Background

The CSS property to change the background color of an element to Yxy 64.8615, 0.2964, 0.5870 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(0, 244, 41) }
```

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

```
.background{ background-color: rgb(0, 244,  
41) }
```

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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