

# Converting Colors

$Y_{xy}(66.6345, 0.2937, 0.5751)$

Have a look what the booklet for  
Yxy(66.6345, 0.2937, 0.5751)  
contains.

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# Color

**Yxy(66.8954, 0.2937, 0.5752)**

# Conversions

## Conversions Part 1

Format	Color
Hex	08F73B
RGB	8, 247, 59
RGB Percent	3%, 97%, 23%
CMY	0.9669, 0.0313, 0.7687
CMYK	0.97, 0.00, 0.76, 0.03
HSL	133°, 94%, 50%
HSV	133°, 97%, 97%
XYZ	34.1571, 66.8954, 15.2468
YIQ	154.1070, -82.0960, -109.1360

# Conversions

## Conversions Part 2

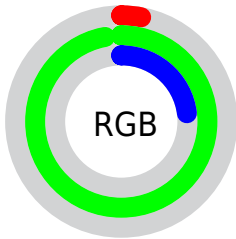
<b>Format</b>	<b>Color</b>
<b>RYB</b>	8, 205, 247
Decimal	587579
CIELab	85.45, -81.81, 71.06
CIELCh	85, 108.359, 139.022
Yxy	66.8954, 0.2937, 0.5752
Android (android.graphics.Color)	4278777659 (0xFF08F73B)
YUV	154.1070, -46.8878, -128.1358
Hunter-Lab	81.7896, -68.5863, 46.2002

# Details

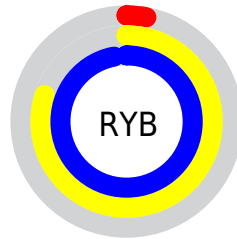
The Yxy color **66.8954, 0.2937, 0.5752** is a dark color, and the websafe version is hex **33FF33**. The color can be described as dark saturated green. A complement of this color would be **23.9653, 0.3816, 0.1887**, and the grayscale version is **32.6636, 0.3127, 0.3290**.

A 20% lighter version of the original color is **76.6338, 0.3037, 0.5013**, and **36.3952, 0.3000, 0.6000** is the 20% darker color. If you saturate the color by 10%, you get **66.7792, 0.2945, 0.5804**, and if you desaturate by 10%, it is **67.4102, 0.2913, 0.5565**.

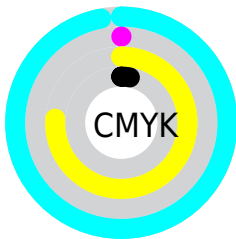
# Distribution



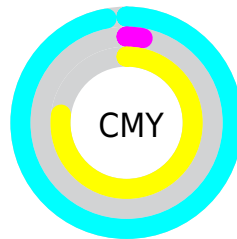
- Red (3%)
- Green (97%)
- Blue (23%)



- Red (3%)
- Yellow (80%)
- Blue (97%)



- Cyan (97%)
- Magenta (0%)
- Yellow (76%)
- Black (3%)




- Cyan (97%)
- Magenta (3%)
- Yellow (77%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 66.8954, 0.2937, 0.5752 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 66.8954, 0.2937, 0.5752 by changing the saturation by 10% instead.





 66.8954, 0.2937,  
0.5752


 66.8954, 0.2937,  
0.5752

449.5724, 0.3129,  
0.4502


 48.9996, 0.2861,  
0.6048

 114.7705, 0.3029,  
0.5305


 34.6192, 0.2749,  
0.6410


 145.5187, 0.3057,  
0.5135


 23.3697, 0.2580,  
0.6854


 181.3197, 0.3078,  
0.4989

 14.8667, 0.2328,  
0.7418

 222.5580, 0.3094,  
0.4864

 8.7259, 0.1929,  
0.8071

 269.6181, 0.3106,  
0.4755

 4.5628, 0.1299,  
0.8701

322.8842, 0.3115,

 1.9931, 0.0000,

0.4660

1.0000

382.7408, 0.3123,  
0.4577

■ 0.6035, 0.0000,  
1.0000

■ 0.0000, 0.0000,  
0.0000

■ 66.8954, 0.2937,  
0.5752

■ 66.8954, 0.2937,  
0.5752

■ 66.7792, 0.2945,  
0.5804

■ 67.4102, 0.2913,  
0.5565

■ 68.3030, 0.2900,  
0.5325

■ 69.6395, 0.2901,  
0.5048

■ 71.4705, 0.2916,  
0.4751

■ 73.8397, 0.2941,  
0.4450

■ 76.7860, 0.2975,  
0.4160

■ 80.3445, 0.3014,  
0.3888

■ 84.5476, 0.3056,  
0.3641

■ 89.4252, 0.3099,  
0.3421

# Harmonies

## Analogous

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



66.8954, 0.4066, 0.5507



66.8954, 0.2937, 0.5752



66.8954, 0.1908, 0.4632

# Triad

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



66.8954, 0.2937, 0.5752



66.8954, 0.1295, 0.1575



66.8954, 0.5350, 0.2993

# Complementary

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



66.8954, 0.2937, 0.5752



23.9653, 0.3816, 0.1887

# 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.



66.8954, 0.4201, 0.2300



66.8954, 0.2937, 0.5752



66.8954, 0.1834, 0.1529

# Square

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



66.8954, 0.2937, 0.5752



66.8954, 0.1116, 0.2000



66.8954, 0.2830, 0.1780



66.8954, 0.5619, 0.3763



# Rectangle

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



66.8954, 0.2937, 0.5752



66.8954, 0.1438, 0.3512



66.8954, 0.2830, 0.1780



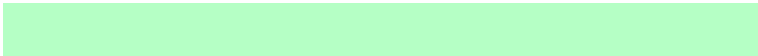
66.8954, 0.5044, 0.2752

# Sweetspot

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



66.8982, 0.2937, 0.5752



85.3682, 0.3004, 0.3953



78.7291, 0.3845, 0.5316



17.9201, 0.2987, 0.4069



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.



66.8982, 0.2937, 0.5752



71.7867, 0.2946, 0.5806



69.6949, 0.2526, 0.4278



18.5295, 0.3087, 0.3482



35.3305, 0.2939, 0.5780



3.1197, 0.2877, 0.5557



# Inverse Universe

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



23.9653, 0.3816, 0.1887



25.4753, 0.3845, 0.1892



20.5384, 0.5709, 0.2939



16.7046, 0.3170, 0.3105



12.5552, 0.3831, 0.1884

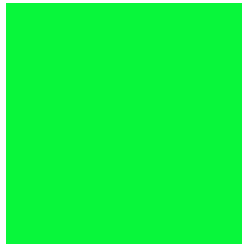


1.1182, 0.3737, 0.1832



# Previews

## White Background



This preview shows how the Yxy color 66.8954, 0.2937, 0.5752 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 66.8954, 0.2937, 0.5752 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

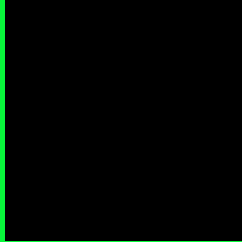
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

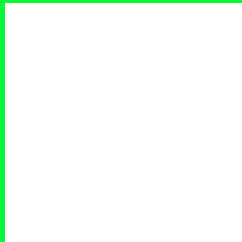
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**Yxy 66.8954, 0.2937, 0.5752**

## **Background**



This preview shows how black text looks on a background with the Yxy color 66.8954, 0.2937, 0.5752.

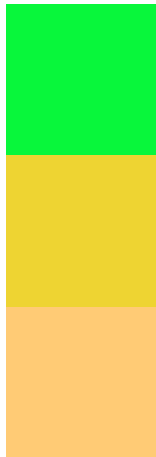


This preview shows how white text looks on a background with the Yxy color 66.8954, 0.2937, 0.5752.

# 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

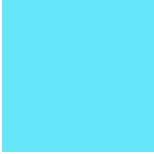
66.8889, 0.2937, 0.5752

### Protanopia

65.4944, 0.4322, 0.4767

### Deuteranopia

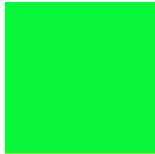
65.2562, 0.4191, 0.4156



## **Tritanopia**

66.2580, 0.2346, 0.3055

# Trichromacy



## Original Color

66.8889, 0.2937, 0.5752



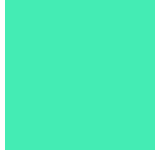
## Protanomaly

61.0760, 0.3568, 0.5304



## Deuteranomaly

59.5069, 0.3500, 0.4848



## Tritanomaly

64.5151, 0.2561, 0.4067

# Monochromacy



## Original Color

66.8889, 0.2937, 0.5752



## Achromatopsia

32.3143, 0.3127, 0.3290



## Achromatomaly

40.0651, 0.2947, 0.4426

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 66.8954, 0.2937, 0.5752 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(8, 247, 59)` looks like.

```
.text, #text, p{  
    color:rgb(8, 247, 59)  
}
```

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(8, 247, 59) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(8, 247, 59) }
```

## Border

The CSS property to change the border of an element to Yxy 66.8954, 0.2937, 0.5752 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(8, 247, 59) }
```

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

```
.border{ border-color:rgb(8, 247, 59) }
```

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

Here you see how a box with a 4 pixel rgb(8, 247, 59) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(8, 247, 59); -webkit-box-  
shadow:4px 4px 4px 4px rgb(8, 247, 59);  
box-shadow:4px 4px 4px 4px rgb(8, 247, 59)  
}
```



# Background

The CSS property to change the background color of an element to Yxy 66.8954, 0.2937, 0.5752 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(8, 247, 59) }
```

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

```
.background{ background-color: rgb(8, 247,  
59) }
```

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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