

# Converting Colors

$Y_{xy}(65.9538, 0.2938, 0.5751)$

Have a look what the booklet for  
Yxy(65.9538, 0.2938, 0.5751)  
contains.

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# Color

**Yxy(65.6851, 0.2937, 0.5747)**

# Conversions

## Conversions Part 1

Format	Color
Hex	0AF53B
RGB	10, 245, 59
RGB Percent	4%, 96%, 23%
CMY	0.9598, 0.0392, 0.7688
CMYK	0.96, 0.00, 0.76, 0.04
HSL	132°, 92%, 50%
HSV	132°, 96%, 96%
XYZ	33.5683, 65.6851, 15.0412
YIQ	153.5310, -80.3540, -107.6660

# Conversions

## Conversions Part 2

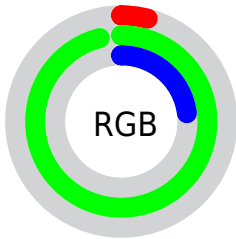
<b>Format</b>	<b>Color</b>
<b>RYB</b>	10, 204, 245
Decimal	718139
CIELab	84.84, -81.21, 70.47
CIELCh	85, 107.519, 139.051
Yxy	65.6851, 0.2937, 0.5747
Android (android.graphics.Color)	4278908219 (0xFF0AF53B)
YUV	153.5310, -46.6038, -125.8767
Hunter-Lab	81.0463, -67.8988, 45.7290

# Details

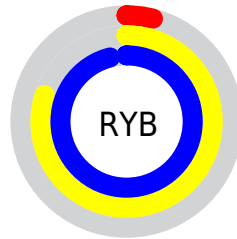
The Yxy color **65.6851, 0.2937, 0.5747** is a dark color, and the websafe version is hex **33FF33**. The color can be described as dark saturated green. A complement of this color would be **23.6334, 0.3796, 0.1878**, and the grayscale version is **32.3651, 0.3127, 0.3290**.

A 20% lighter version of the original color is **76.6099, 0.3041, 0.5025**, and **35.5406, 0.3000, 0.6000** is the 20% darker color. If you saturate the color by 10%, you get **65.5440, 0.2947, 0.5810**, and if you desaturate by 10%, it is **66.2147, 0.2914, 0.5556**.

# Distribution



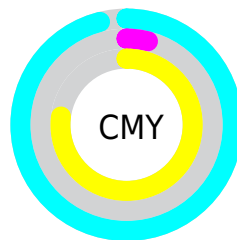
- Red (4%)
- Green (96%)
- Blue (23%)



- Red (4%)
- Yellow (80%)
- Blue (96%)



- Cyan (96%)
- Magenta (0%)
- Yellow (76%)
- Black (4%)




- Cyan (96%)
- Magenta (4%)
- Yellow (77%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 65.6851, 0.2937, 0.5747 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 65.6851, 0.2937, 0.5747 by changing the saturation by 10% instead.




 65.6851, 0.2937,  
0.5747


 65.6851, 0.2937,  
0.5747

445.2498, 0.3128,  
0.4496


 48.0168, 0.2860,  
0.6044

 113.0342, 0.3029,  
0.5299

 33.8402, 0.2748,  
0.6409


 143.4839, 0.3057,  
0.5128

 22.7709, 0.2578,  
0.6857


 178.9628, 0.3078,  
0.4982

 14.4244, 0.2323,  
0.7431

 219.8554, 0.3094,  
0.4857

 8.4164, 0.1916,  
0.8084

 266.5459, 0.3106,  
0.4749

 4.3626, 0.1263,  
0.8737

319.4189, 0.3115,

 1.8784, 0.0000,

0.4654

1.0000

378.8588, 0.3123,  
0.4570

■ 0.5353, 0.0000,  
1.0000

■ 0.0000, 0.0000,  
0.0000

■ 65.6851, 0.2937,  
0.5747

■ 65.6851, 0.2937,  
0.5747

■ 65.5440, 0.2947,  
0.5810

■ 66.2147, 0.2914,  
0.5556

■ 67.1215, 0.2903,  
0.5314

■ 68.4686, 0.2905,  
0.5034

■ 70.3051, 0.2920,  
0.4735

■ 72.6736, 0.2946,  
0.4434

■ 75.6120, 0.2980,  
0.4143

■ 79.1544, 0.3019,  
0.3872

■ 83.3327, 0.3060,  
0.3625

■ 88.1760, 0.3103,  
0.3406

# Harmonies

## Analogous

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



65.6851, 0.4065, 0.5505



65.6851, 0.2937, 0.5747



65.6851, 0.1909, 0.4628

# Triad

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



65.6851, 0.2937, 0.5747



65.6851, 0.1297, 0.1577



65.6851, 0.5347, 0.2995

# Complementary

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



65.6851, 0.2937, 0.5747



23.6334, 0.3796, 0.1878

# 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.



65.6851, 0.4201, 0.2302



65.6851, 0.2937, 0.5747



65.6851, 0.1837, 0.1531

# Square

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



65.6851, 0.2937, 0.5747



65.6851, 0.1119, 0.2001



65.6851, 0.2832, 0.1782



65.6851, 0.5615, 0.3764



# Rectangle

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



65.6851, 0.2937, 0.5747



65.6851, 0.1440, 0.3510



65.6851, 0.2832, 0.1782



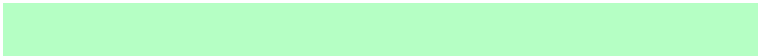
65.6851, 0.5041, 0.2753

# Sweetspot

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



65.6878, 0.2937, 0.5747



85.3535, 0.3006, 0.3957



77.3414, 0.3846, 0.5311



17.9166, 0.2989, 0.4073



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.



65.6878, 0.2937, 0.5747



71.7764, 0.2948, 0.5813



68.4508, 0.2524, 0.4269



18.5283, 0.3087, 0.3483



35.3251, 0.2941, 0.5788



3.1190, 0.2880, 0.5567



# Inverse Universe

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



23.6334, 0.3796, 0.1878



25.5278, 0.3829, 0.1883



20.2244, 0.5685, 0.2930



16.7059, 0.3170, 0.3104



12.5807, 0.3816, 0.1876

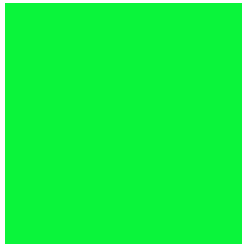


1.1202, 0.3725, 0.1826



# Previews

## White Background



This preview shows how the Yxy color 65.6851, 0.2937, 0.5747 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

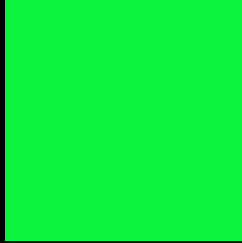
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 65.6851, 0.2937, 0.5747 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 65.6851, 0.2937, 0.5747**

## **Background**



This preview shows how black text looks on a background with the Yxy color 65.6851, 0.2937, 0.5747.

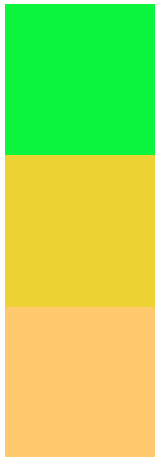


This preview shows how white text looks on a background with the Yxy color 65.6851, 0.2937, 0.5747.

# 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

65.6851, 0.2937, 0.5747

### Protanopia

64.1563, 0.4322, 0.4763

### Deuteranopia

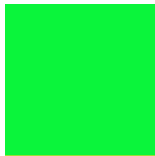
64.1374, 0.4256, 0.4207



## Tritanopia

64.9689, 0.2345, 0.3053

# Trichromacy



## Original Color

65.6851, 0.2937, 0.5747



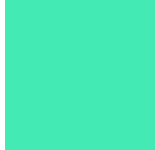
## Protanomaly

59.9024, 0.3569, 0.5298



## Deuteranomaly

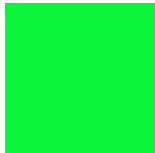
58.4880, 0.3540, 0.4879



## Tritanomaly

63.3293, 0.2560, 0.4059

# Monochromacy



## Original Color

65.6851, 0.2937, 0.5747



## Achromatopsia

32.3143, 0.3127, 0.3290



## Achromatomaly

39.6973, 0.2954, 0.4411

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 65.6851, 0.2937, 0.5747 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(10, 245, 59)` looks like.

```
.text, #text, p{  
    color:rgb(10, 245, 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(10, 245, 59) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(10, 245, 59) }
```

## Border

The CSS property to change the border of an element to Yxy 65.6851, 0.2937, 0.5747 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(10, 245, 59) }
```

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

```
.border{ border-color:rgb(10, 245, 59) }
```

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

Here you see how a box with a 4 pixel `rgb(10, 245, 59)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(10, 245, 59); -webkit-box-  
shadow:4px 4px 4px 4px rgb(10, 245, 59);  
box-shadow:4px 4px 4px 4px rgb(10, 245,  
59) }
```



# Background

The CSS property to change the background color of an element to Yxy 65.6851, 0.2937, 0.5747 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(10, 245, 59) }
```

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

```
.background{ background-color: rgb(10, 245,  
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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