

# Converting Colors

$Y_{xy}(65.0242, 0.3102, 0.5842)$

Have a look what the booklet for  
Yxy(65.0242, 0.3102, 0.5842)  
contains.

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**Color**

**Yxy(64.8855, 0.3103, 0.5840)**

# Conversions

## Conversions Part 1

Format	Color
Hex	46F21B
RGB	70, 242, 27
RGB Percent	27%, 95%, 11%
CMY	0.7255, 0.0510, 0.8941
CMYK	0.71, 0.00, 0.89, 0.05
HSL	108°, 89%, 53%
HSV	108°, 89%, 95%
XYZ	34.4760, 64.8855, 11.7438
YIQ	166.0620, -33.4970, -103.3290

# Conversions

## Conversions Part 2

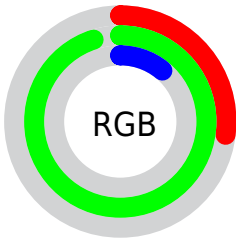
<b>Format</b>	<b>Color</b>
<a href="#">RYB</a>	<a href="#">27, 242, 199</a>
Decimal	<a href="#">4649499</a>
CIELab	<a href="#">84.42, -76.28, 77.94</a>
CIElCh	<a href="#">84, 109.059, 134.382</a>
Yxy	<a href="#">64.8855, 0.3103, 0.5840</a>
Android (android.graphics.Color)	<a href="#">4282839579</a> ( <a href="#">0xFF46F21B</a> )
YUV	<a href="#">166.0620, -68.5576, -84.2464</a>
Hunter-Lab	<a href="#">80.5515, -64.5674, 47.7420</a>

# Details

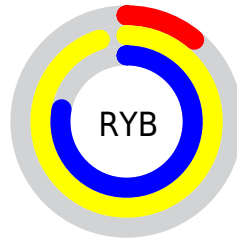
The Yxy color **64.8855, 0.3103, 0.5840** is a dark color, and the websafe version is hex **66FF33**. The color can be described as dark washed green. A complement of this color would be **19.3395, 0.2758, 0.1334**, and the grayscale version is **38.5177, 0.3127, 0.3290**.

A 20% lighter version of the original color is **78.1526, 0.3246, 0.5165**, and **34.2810, 0.3000, 0.6000** is the 20% darker color. If you saturate the color by 10%, you get **64.2075, 0.3065, 0.5942**, and if you desaturate by 10%, it is **65.8897, 0.3138, 0.5663**.

# Distribution



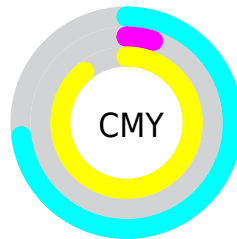
- Red (27%)
- Green (95%)
- Blue (11%)



- Red (11%)
- Yellow (95%)
- Blue (78%)



- Cyan (71%)
- Magenta (0%)
- Yellow (89%)
- Black (5%)




- Cyan (73%)
- Magenta (5%)
- Yellow (89%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 64.8855, 0.3103, 0.5840 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 64.8855, 0.3103, 0.5840 by changing the saturation by 10% instead.




 64.8855, 0.3103,  
0.5840


 64.8855, 0.3103,  
0.5840

442.3804, 0.3236,  
0.4562

 47.3682, 0.3033,  
0.6132


 111.8852, 0.3180,  
0.5390


 33.3269, 0.2924,  
0.6483


 142.1365, 0.3201,  
0.5215


 22.3770, 0.2753,  
0.6902


 177.4012, 0.3214,  
0.5066

 14.1341, 0.2515,  
0.7485

 218.0638, 0.3223,  
0.4937

 8.2140, 0.2063,  
0.7937

 264.5086, 0.3229,  
0.4825

 4.2322, 0.1433,  
0.8567

 317.1200, 0.3233,

 1.8043, 0.0000,

0.4726

1.0000

376.2825, 0.3235,  
0.4639

■ 0.4898, 0.0000,  
1.0000

■ 0.0000, 0.0000,  
0.0000

■ 64.8855, 0.3103,  
0.5840

■ 64.8855, 0.3103,  
0.5840

■ 64.2075, 0.3065,  
0.5942


■ 65.8897, 0.3138,  
0.5663

■ 64.1447, 0.3061,  
0.5952


■ 67.2544, 0.3165,  
0.5415

■ 69.0155, 0.3182,  
0.5113


■ 71.2020, 0.3189,  
0.4780

 73.8402, 0.3186,  
0.4440

 76.9542, 0.3177,  
0.4108

 80.5663, 0.3162,  
0.3798

 84.6973, 0.3145,  
0.3515

 89.3670, 0.3125,  
0.3262

# Harmonies

## Analogous

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



64.8855, 0.4238, 0.5413



64.8855, 0.3103, 0.5840



64.8855, 0.2028, 0.4911

# Triad

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



64.8855, 0.3103, 0.5840



64.8855, 0.1225, 0.1591



64.8855, 0.5253, 0.2871

# Complementary

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



64.8855, 0.3103, 0.5840



19.3395, 0.2758, 0.1334

# 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.



64.8855, 0.3995, 0.2190



64.8855, 0.3103, 0.5840



64.8855, 0.1706, 0.1496

# Square

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



64.8855, 0.3103, 0.5840



64.8855, 0.1096, 0.2093



64.8855, 0.2636, 0.1704



64.8855, 0.5674, 0.3633



# Rectangle

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



64.8855, 0.3103, 0.5840



64.8855, 0.1504, 0.3770



64.8855, 0.2636, 0.1704



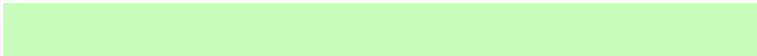
64.8855, 0.4898, 0.2631

# Sweetspot

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



64.8882, 0.3103, 0.5840



87.3396, 0.3175, 0.4052



59.8069, 0.4521, 0.4724



18.4168, 0.3179, 0.4162



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.



64.8882, 0.3103, 0.5840



72.2236, 0.3060, 0.5953



64.5041, 0.2860, 0.5408



17.8085, 0.3146, 0.3532



34.5031, 0.3069, 0.5945



2.9107, 0.3151, 0.5880



# Inverse Universe

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



19.3395, 0.2758, 0.1334



20.0586, 0.2698, 0.1260



22.8571, 0.4026, 0.2045



15.8625, 0.3106, 0.3055



9.6365, 0.2708, 0.1265

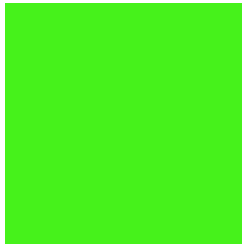


0.8417, 0.2777, 0.1304



# Previews

## White Background



This preview shows how the Yxy color 64.8855, 0.3103, 0.5840 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 64.8855, 0.3103, 0.5840 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

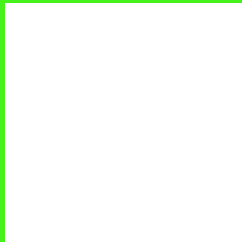
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**Yxy 64.8855, 0.3103, 0.5840**

## **Background**



This preview shows how black text looks on a background with the Yxy color 64.8855, 0.3103, 0.5840.

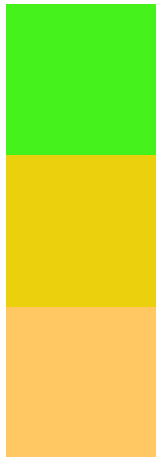


This preview shows how white text looks on a background with the Yxy color 64.8855, 0.3103, 0.5840.

# 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

64.8855, 0.3103, 0.5840

### Protanopia

63.2922, 0.4395, 0.4868

### Deuteranopia

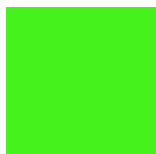
63.4694, 0.4326, 0.4280



## Tritanopia

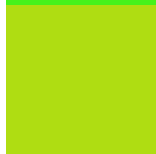
64.3146, 0.2425, 0.3067

# Trichromacy



## Original Color

64.8855, 0.3103, 0.5840



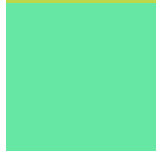
## Protanomaly

60.8705, 0.3811, 0.5315



## Deuteranomaly

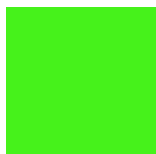
59.7733, 0.3808, 0.4923



## Tritanomaly

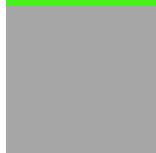
62.6569, 0.2745, 0.4220

# Monochromacy



## Original Color

64.8855, 0.3103, 0.5840



## Achromatopsia

38.1326, 0.3127, 0.3290



## Achromatomaly

44.6467, 0.3189, 0.4485

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 64.8855, 0.3103, 0.5840 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(70, 242, 27)` looks like.

```
.text, #text, p{  
    color:rgb(70, 242, 27)  
}
```

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(70, 242, 27) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(70, 242, 27) }
```

## Border

The CSS property to change the border of an element to Yxy 64.8855, 0.3103, 0.5840 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(70, 242, 27) }
```

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

```
.border{ border-color:rgb(70, 242, 27) }
```

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

Here you see how a box with a 4 pixel `rgb(70, 242, 27)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(70, 242, 27); -webkit-box-  
shadow:4px 4px 4px 4px rgb(70, 242, 27);  
box-shadow:4px 4px 4px 4px rgb(70, 242,  
27) }
```



# Background

The CSS property to change the background color of an element to Yxy 64.8855, 0.3103, 0.5840 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(70, 242, 27) }
```

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

```
.background{ background-color: rgb(70, 242,  
27) }
```

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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