

# Converting Colors

$Y_{xy}(67.8159, 0.3162, 0.5558)$

Have a look what the booklet for  
Yxy(67.8159, 0.3162, 0.5558)  
contains.

<b>Yxy(67.8159, 0.3162, 0.5558)</b> .....	3
<b><i>Conversions</i></b> .....	4
<b><i>Details</i></b> .....	6
<b><i>Harmonies</i></b> .....	12
<b><i>Previews</i></b> .....	24
<b><i>Color Blindness Simulation</i></b> .....	27
<b><i>CSS Examples</i></b> .....	30

# Color

**Yxy(67.8159, 0.3162, 0.5558)**

# Conversions

## Conversions Part 1

Format	Color
Hex	65F43E
RGB	101, 244, 62
RGB Percent	40%, 96%, 24%
CMY	0.6042, 0.0431, 0.7567
CMYK	0.59, 0.00, 0.75, 0.04
HSL	107°, 89%, 60%
HSV	107°, 75%, 96%
XYZ	38.5811, 67.8159, 15.6179
YIQ	180.4950, -26.8060, -86.9180

# Conversions

## Conversions Part 2

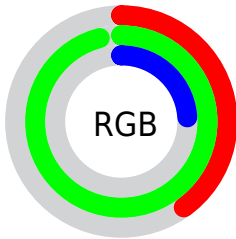
<b>Format</b>	<b>Color</b>
<b>RYB</b>	62, 244, 205
Decimal	6681662
CIELab	85.91, -69.08, 71.02
CIELCh	86, 99.073, 134.204
Yxy	67.8159, 0.3162, 0.5558
Android (android.graphics.Color)	4284871742 (0xFF65F43E)
YUV	180.4950, -58.4180, -69.7171
Hunter-Lab	82.3504, -60.4861, 46.4008

# Details

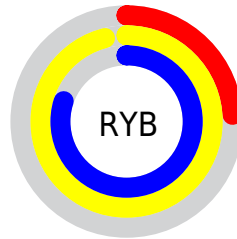
The Yxy color **67.8159, 0.3162, 0.5558** is a dark color, and the websafe version is hex **66FF33**. The color can be described as middle washed chartreuse. A complement of this color would be **22.9786, 0.2810, 0.1492**, and the grayscale version is **46.2460, 0.3127, 0.3290**.

A 20% lighter version of the original color is **80.8998, 0.3288, 0.4860**, and **35.1178, 0.3000, 0.6000** is the 20% darker color. If you saturate the color by 10%, you get **66.6279, 0.3129, 0.5767**, and if you desaturate by 10%, it is **69.3882, 0.3185, 0.5285**.

# Distribution



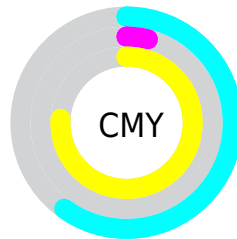
- Red (40%)
- Green (96%)
- Blue (24%)



- Red (24%)
- Yellow (96%)
- Blue (80%)



- Cyan (59%)
- Magenta (0%)
- Yellow (75%)
- Black (4%)




- Cyan (60%)
- Magenta (4%)
- Yellow (76%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 67.8159, 0.3162, 0.5558 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 67.8159, 0.3162, 0.5558 by changing the saturation by 10% instead.





 67.8159, 0.3162,  
0.5558


 67.8159, 0.3162,  
0.5558


452.8435, 0.3239,  
0.4426


 49.7480, 0.3114,  
0.5821

 116.0887, 0.3212,  
0.5158


 35.2132, 0.3038,  
0.6141


 147.0624, 0.3224,  
0.5003

 23.8271, 0.2914,  
0.6532


 183.1069, 0.3232,  
0.4872

 15.2054, 0.2717,  
0.7020

 224.6064, 0.3237,  
0.4758

 8.9637, 0.2390,  
0.7610

 271.9454, 0.3239,  
0.4659

 4.7175, 0.1830,  
0.8170

325.5083, 0.3240,

 2.0825, 0.0000,

0.4572

1.0000

385.6796, 0.3240,  
0.4495

0.6548, 0.0000,  
1.0000

0.0000, 0.0000,  
0.0000

67.8159, 0.3162,  
0.5558

67.8159, 0.3162,  
0.5558

66.6279, 0.3129,  
0.5767

69.3882, 0.3185,  
0.5285


65.7800, 0.3090,  
0.5900


71.3670, 0.3197,  
0.4969


65.4422, 0.3069,  
0.5945


73.7825, 0.3198,  
0.4632

76.6598, 0.3191,  
0.4295

 80.0218, 0.3177,  
0.3972

 83.8899, 0.3158,  
0.3673

 88.2841, 0.3137,  
0.3404

 93.0781, 0.3128,  
0.3185

 93.1884, 0.3132,  
0.3185

# Harmonies

## Analogous

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



67.8159, 0.4211, 0.5256



67.8159, 0.3162, 0.5558



67.8159, 0.2155, 0.4724

# Triad

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



67.8159, 0.3162, 0.5558



67.8159, 0.1359, 0.1729



67.8159, 0.5035, 0.2927

# Complementary

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



67.8159, 0.3162, 0.5558



22.9786, 0.2810, 0.1492

# 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.



67.8159, 0.3908, 0.2281



67.8159, 0.3162, 0.5558



67.8159, 0.1818, 0.1627

# Square

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



67.8159, 0.3162, 0.5558



67.8159, 0.1243, 0.2220



67.8159, 0.2684, 0.1822



67.8159, 0.5451, 0.3658



# Rectangle

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



67.8159, 0.3162, 0.5558



67.8159, 0.1656, 0.3742



67.8159, 0.2684, 0.1822



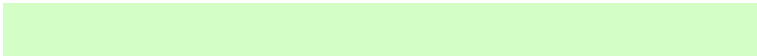
67.8159, 0.4713, 0.2698

# Sweetspot

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



67.8188, 0.3162, 0.5558



89.4712, 0.3172, 0.3894



63.0471, 0.4388, 0.4618



18.9145, 0.3177, 0.3978



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.



67.8188, 0.3162, 0.5558



73.1630, 0.3111, 0.5838



66.9394, 0.2851, 0.5108



18.6426, 0.3148, 0.3532



35.6277, 0.3077, 0.5939



3.1741, 0.3157, 0.5876



# Inverse Universe

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



22.9786, 0.2810, 0.1492



21.2470, 0.2725, 0.1314



26.5102, 0.3803, 0.2074



16.5792, 0.3104, 0.3054



9.6968, 0.2673, 0.1246

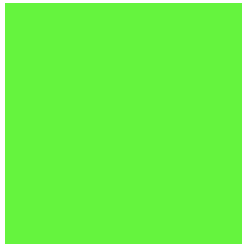


0.8957, 0.2744, 0.1285



# Previews

## White Background



This preview shows how the Yxy color 67.8159, 0.3162, 0.5558 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 67.8159, 0.3162, 0.5558 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

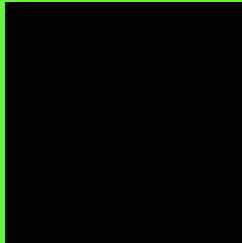
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

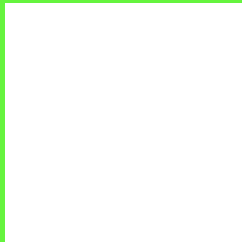
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**Yxy 67.8159, 0.3162, 0.5558**

## **Background**



This preview shows how black text looks on a background with the Yxy color 67.8159, 0.3162, 0.5558.

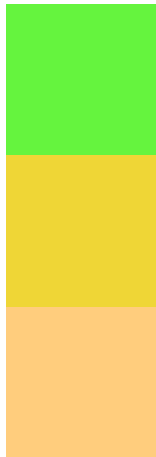


This preview shows how white text looks on a background with the Yxy color 67.8159, 0.3162, 0.5558.

# 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

67.8159, 0.3162, 0.5558

### Protanopia

66.7102, 0.4301, 0.4758

### Deuteranopia

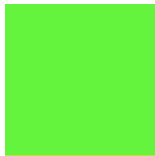
66.4033, 0.4125, 0.4102



## Tritanopia

67.5439, 0.2497, 0.3074

# Trichromacy



## Original Color

67.8159, 0.3162, 0.5558



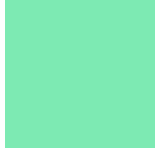
## Protanomaly

64.9647, 0.3817, 0.5097



## Deuteranomaly

63.7645, 0.3737, 0.4647



## Tritanomaly

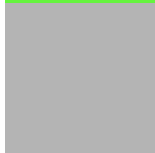
66.4603, 0.2780, 0.4015

# Monochromacy



## Original Color

67.8159, 0.3162, 0.5558



## Achromatopsia

45.6411, 0.3127, 0.3290



## Achromatomaly

51.0973, 0.3187, 0.4215

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 67.8159, 0.3162, 0.5558 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(101, 244, 62)` looks like.

```
.text, #text, p{  
    color:rgb(101, 244, 62)  
}
```

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(101, 244, 62) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(101, 244, 62) }
```

## Border

The CSS property to change the border of an element to Yxy 67.8159, 0.3162, 0.5558 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(101, 244, 62) }
```

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

```
.border{ border-color:rgb(101, 244, 62) }
```

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

Here you see how a box with a 4 pixel `rgb(101, 244, 62)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(101, 244, 62); -webkit-box-  
shadow:4px 4px 4px 4px rgb(101, 244, 62);  
box-shadow:4px 4px 4px 4px rgb(101, 244,  
62) }
```



# Background

The CSS property to change the background color of an element to Yxy 67.8159, 0.3162, 0.5558 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(101, 244, 62) }
```

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

```
.background{ background-color: rgb(101,  
244, 62) }
```

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](#).

Hey! You found this booklet interesting? Support Converting Colors with the new Membership Option!

The pro membership hides all ads, plus gives you double the colors in the color bucket, and more awesome pro features!

**[Learn more, Memberships starting at \\$2.50/m!](#)**

**Follow me  
on Twitter!**

@ConvertingColor