

# Converting Colors

$Yxy(63.6440, 0.3080, 0.5563)$

Have a look what the booklet for  
Yxy(63.6440, 0.3080, 0.5563)  
contains.

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# Color

**Yxy(63.3814, 0.3080, 0.5558)**

# Conversions

## Conversions Part 1

Format	Color
Hex	53EE42
RGB	83, 238, 66
RGB Percent	33%, 93%, 26%
CMY	0.6746, 0.0666, 0.7413
CMYK	0.65, 0.00, 0.72, 0.07
HSL	114°, 84%, 60%
HSV	114°, 72%, 93%
XYZ	35.1232, 63.3814, 15.5318
YIQ	172.0470, -37.1680, -86.3520

# Conversions

## Conversions Part 2

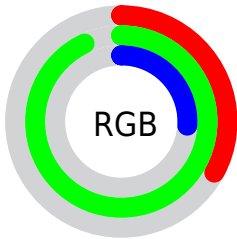
<b>Format</b>	<b>Color</b>
<b>RYB</b>	66, 238, 221
Decimal	5500482
CIELab	83.64, -70.69, 67.30
CIELCh	84, 97.603, 136.409
Yxy	63.3814, 0.3080, 0.5558
Android (android.graphics.Color)	4283690562 (0xFF53EE42)
YUV	172.0470, -52.2812, -78.0942
Hunter-Lab	79.6124, -60.5716, 44.1617

# Details

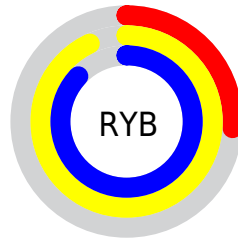
The Yxy color **63.3814, 0.3080, 0.5558** is a dark color, and the websafe version is hex **66FF66**. The color can be described as dark muted green. A complement of this color would be **25.4385, 0.3026, 0.1631**, and the grayscale version is **41.5612, 0.3127, 0.3290**.

A 20% lighter version of the original color is **79.4341, 0.3191, 0.4883**, and **33.0477, 0.3000, 0.6000** is the 20% darker color. If you saturate the color by 10%, you get **62.3304, 0.3057, 0.5783**, and if you desaturate by 10%, it is **64.8560, 0.3099, 0.5266**.

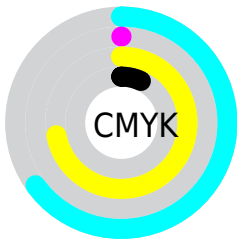
# Distribution



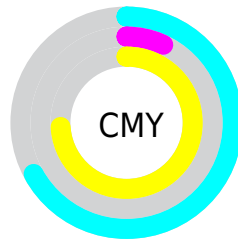
- Red (33%)
- Green (93%)
- Blue (26%)



- Red (26%)
- Yellow (93%)
- Blue (87%)



- Cyan (65%)
- Magenta (0%)
- Yellow (72%)
- Black (7%)




- Cyan (67%)
- Magenta (7%)
- Yellow (74%)

# Brightness & Saturation Gradients

These gradients show how the Yxy color 63.3814, 0.3080, 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 63.3814, 0.3080, 0.5558 by changing the saturation by 10% instead.





 63.3814, 0.3080,  
0.5558


 63.3814, 0.3080,  
0.5558


436.9523, 0.3192,  
0.4405

 46.1498, 0.3024,  
0.5833

 109.7196, 0.3142,  
0.5145


 32.3641, 0.2937,  
0.6172

 139.5950, 0.3159,  
0.4987


 21.6397, 0.2799,  
0.6591


 174.4537, 0.3171,  
0.4853

 13.5924, 0.2582,  
0.7127

 214.6803, 0.3179,  
0.4738

 7.8377, 0.2220,  
0.7780

 260.6591, 0.3184,  
0.4638

 3.9913, 0.1603,  
0.8397

312.7744, 0.3188,

 1.6687, 0.0000,

0.4551

1.0000

371.4107, 0.3191,  
0.4474

■ 0.4033, 0.0000,  
1.0000

■ 0.0000, 0.0000,  
0.0000

■ 63.3814, 0.3080,  
0.5558

■ 63.3814, 0.3080,  
0.5558

■ 62.3304, 0.3057,  
0.5783

■ 64.8560, 0.3099,  
0.5266


■ 61.6506, 0.3034,  
0.5926


■ 66.7843, 0.3114,  
0.4932

■ 61.3413, 0.3019,  
0.5985


■ 69.2028, 0.3125,  
0.4580

■ 72.1421, 0.3130,  
0.4234

 75.6300, 0.3132,  
0.3908

 79.6928, 0.3131,  
0.3611

 84.3548, 0.3128,  
0.3346

 89.5498, 0.3132,  
0.3127

 89.6328, 0.3135,  
0.3127

# Harmonies

## Analogous

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



63.3814, 0.4140, 0.5315



63.3814, 0.3080, 0.5558



63.3814, 0.2083, 0.4634

# Triad

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



63.3814, 0.3080, 0.5558



63.3814, 0.1371, 0.1701



63.3814, 0.5109, 0.2975

# Complementary

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



63.3814, 0.3080, 0.5558



25.4385, 0.3026, 0.1631

# 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.



63.3814, 0.4008, 0.2317



63.3814, 0.3080, 0.5558



63.3814, 0.1859, 0.1623

# Square

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



63.3814, 0.3080, 0.5558



63.3814, 0.1231, 0.2159



63.3814, 0.2762, 0.1839



63.3814, 0.5462, 0.3714



# Rectangle

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



63.3814, 0.3080, 0.5558



63.3814, 0.1603, 0.3636



63.3814, 0.2762, 0.1839



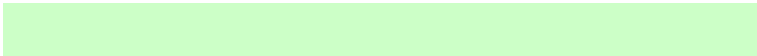
63.3814, 0.4803, 0.2743

# Sweetspot

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



63.3841, 0.3080, 0.5558



88.5395, 0.3132, 0.3902



70.1803, 0.4202, 0.4753



18.6987, 0.3132, 0.3988



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.



63.3841, 0.3080, 0.5558



72.4453, 0.3046, 0.5865



64.0534, 0.2765, 0.4763



17.7311, 0.3131, 0.3533



34.2451, 0.3023, 0.5981



2.8738, 0.3076, 0.5939



# Inverse Universe

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



25.4385, 0.3026, 0.1631



25.6507, 0.2990, 0.1468



24.9434, 0.4056, 0.2279



15.9474, 0.3122, 0.3056



11.4913, 0.2962, 0.1405

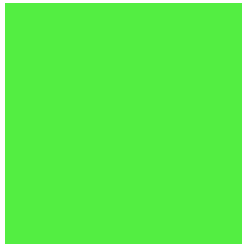


0.9788, 0.2996, 0.1424



# Previews

## White Background



This preview shows how the Yxy color 63.3814, 0.3080, 0.5558 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

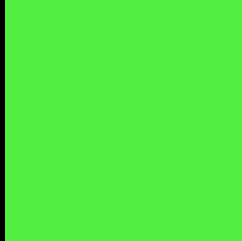
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 63.3814, 0.3080, 0.5558 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

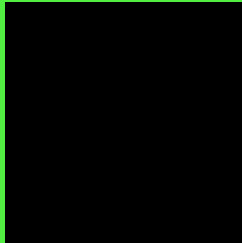
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

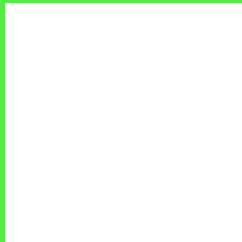
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**Yxy 63.3814, 0.3080, 0.5558**

## **Background**



This preview shows how black text looks on a background with the Yxy color 63.3814, 0.3080, 0.5558.



This preview shows how white text looks on a background with the Yxy color 63.3814, 0.3080, 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

63.3814, 0.3080, 0.5558

### Protanopia

62.0869, 0.4287, 0.4723

### Deuteranopia

61.9652, 0.4389, 0.4307



## Tritanopia

62.8189, 0.2448, 0.3066

# Trichromacy



## Original Color

63.3814, 0.3080, 0.5558



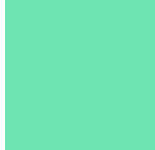
## Protanomaly

59.9447, 0.3756, 0.5086



## Deuteranomaly

58.9180, 0.3813, 0.4796



## Tritanomaly

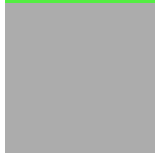
61.9123, 0.2705, 0.3988

# Monochromacy



## Original Color

63.3814, 0.3080, 0.5558



## Achromatopsia

41.2543, 0.3127, 0.3290



## Achromatomaly

46.7488, 0.3136, 0.4215

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 63.3814, 0.3080, 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(83, 238, 66)` looks like.

```
.text, #text, p{  
    color:rgb(83, 238, 66)  
}
```

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(83, 238, 66) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(83, 238, 66) }
```

## Border

The CSS property to change the border of an element to Yxy 63.3814, 0.3080, 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(83, 238, 66) }
```

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

```
.border{ border-color:rgb(83, 238, 66) }
```

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

Here you see how a box with a 4 pixel rgb(83, 238, 66) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(83, 238, 66); -webkit-box-  
shadow:4px 4px 4px 4px rgb(83, 238, 66);  
box-shadow:4px 4px 4px 4px rgb(83, 238,  
66) }
```



# Background

The CSS property to change the background color of an element to Yxy 63.3814, 0.3080, 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(83, 238, 66) }
```

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

```
.background{ background-color: rgb(83, 238,  
66) }
```

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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