

# Converting Colors

$Y_{xy}(57.8299, 0.3055, 0.5733)$

Have a look what the booklet for  
Yxy(57.8299, 0.3055, 0.5733)  
contains.

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# Color

**Yxy(57.8230, 0.3054, 0.5734)**

# Conversions

## Conversions Part 1

Format	Color
Hex	3EE62F
RGB	62, 230, 47
RGB Percent	24%, 90%, 18%
CMY	0.7567, 0.0980, 0.8158
CMYK	0.73, 0.00, 0.80, 0.10
HSL	115°, 79%, 54%
HSV	115°, 80%, 90%
XYZ	30.7973, 57.8230, 12.2221
YIQ	158.9060, -41.3850, -92.5290

# Conversions

## Conversions Part 2

Format	Color
<a href="#">RYB</a>	<a href="#">47, 230, 215</a>
Decimal	<a href="#">4122159</a>
CIELab	<a href="#">80.64, -73.13, 70.14</a>
CIELCh	<a href="#">81, 101.333, 136.194</a>
Yxy	<a href="#">57.8230, 0.3054, 0.5734</a>
Android (android.graphics.Color)	<a href="#">4282312239 (0xFF3EE62F)</a>
YUV	<a href="#">158.9060, -55.1697, -84.9866</a>
Hunter-Lab	<a href="#">76.0414, -60.7789, 43.6994</a>

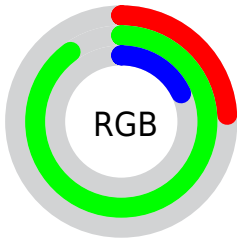
# Details

The Yxy color **57.8230, 0.3054, 0.5734** is a dark color, and the websafe version is hex **00CC00**.

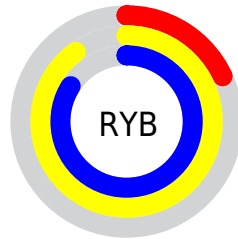
The color can be described as dark washed green. A complement of this color would be **22.1800, 0.3042, 0.1558**, and the grayscale version is **34.9004, 0.3127, 0.3290**.

A 20% lighter version of the original color is **77.6710, 0.3165, 0.5090**, and **29.8871, 0.3000, 0.6000** is the 20% darker color. If you saturate the color by 10%, you get **57.1310, 0.3033, 0.5899**, and if you desaturate by 10%, it is **58.8823, 0.3074, 0.5489**.

# Distribution



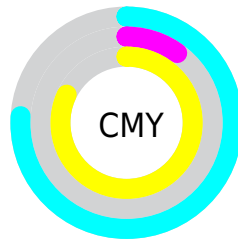
- Red (24%)
- Green (90%)
- Blue (18%)



- Red (18%)
- Yellow (90%)
- Blue (84%)



- Cyan (73%)
- Magenta (0%)
- Yellow (80%)
- Black (10%)




- Cyan (76%)
- Magenta (10%)
- Yellow (82%)

# Brightness & Saturation Gradients

These gradients show how the Yxy color 57.8230, 0.3054, 0.5734 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 57.8230, 0.3054, 0.5734 by changing the saturation by 10% instead.





 57.8230, 0.3054,  
0.5734


 57.8230, 0.3054,  
0.5734


416.5261, 0.3195,  
0.4475


 41.6664, 0.2983,  
0.6036


 101.6651, 0.3132,  
0.5280


 28.8401, 0.2874,  
0.6406


 130.1193, 0.3153,  
0.5108

 18.9599, 0.2700,  
0.6859


 163.4415, 0.3168,  
0.4961

 11.6413, 0.2462,  
0.7538

 202.0161, 0.3178,  
0.4836

 6.4999, 0.1966,  
0.8034

 246.2274, 0.3185,  
0.4727

 3.1514, 0.1093,  
0.8907

296.4599, 0.3190,

 1.2113, 0.0000,

0.4632

1.0000

353.0980, 0.3193,  
0.4549

■ 0.0709, 0.0000,  
1.0000

■ 0.0000, 0.0000,  
0.0000

■ 57.8230, 0.3054,  
0.5734

■ 57.8230, 0.3054,  
0.5734

■ 57.1310, 0.3033,  
0.5899

■ 58.8823, 0.3074,  
0.5489


■ 56.7442, 0.3015,  
0.5985

■ 60.3427, 0.3092,  
0.5182


■ 56.7331, 0.3015,  
0.5988


■ 62.2419, 0.3107,  
0.4839


■ 64.6114, 0.3117,  
0.4486

 67.4798, 0.3124,  
0.4143

 70.8734, 0.3127,  
0.3824

 74.8166, 0.3128,  
0.3536

 79.3325, 0.3127,  
0.3280

 84.4425, 0.3125,  
0.3057

# Harmonies

## Analogous

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



57.8230, 0.4165, 0.5411



57.8230, 0.3054, 0.5734



57.8230, 0.2013, 0.4754

# Triad

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



57.8230, 0.3054, 0.5734



57.8230, 0.1286, 0.1619



57.8230, 0.5236, 0.2934

# Complementary

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



57.8230, 0.3054, 0.5734



22.1800, 0.3042, 0.1558

# 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.



57.8230, 0.4053, 0.2257



57.8230, 0.3054, 0.5734



57.8230, 0.1785, 0.1542

# Square

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



57.8230, 0.3054, 0.5734



57.8230, 0.1141, 0.2087



57.8230, 0.2724, 0.1764



57.8230, 0.5598, 0.3692



# Rectangle

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



57.8230, 0.3054, 0.5734



57.8230, 0.1516, 0.3661



57.8230, 0.2724, 0.1764



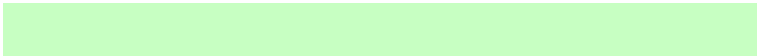
57.8230, 0.4908, 0.2696

# Sweetspot

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



57.8254, 0.3054, 0.5734



87.5262, 0.3126, 0.3966



65.5018, 0.4245, 0.4845



18.4124, 0.3125, 0.4082



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.



57.8254, 0.3054, 0.5734



71.8668, 0.3021, 0.5957



58.6345, 0.2753, 0.4883



16.1456, 0.3128, 0.3532



32.1392, 0.3019, 0.5985



2.3948, 0.3069, 0.5945



# Inverse Universe

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



22.1800, 0.3042, 0.1558



25.1728, 0.3010, 0.1444



21.1777, 0.4238, 0.2275



14.5517, 0.3125, 0.3058



11.1060, 0.3004, 0.1428

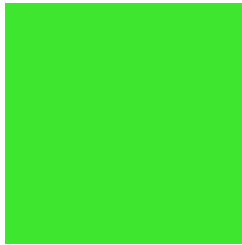


0.8386, 0.3035, 0.1446



# Previews

## White Background



This preview shows how the Yxy color 57.8230, 0.3054, 0.5734 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 57.8230, 0.3054, 0.5734 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

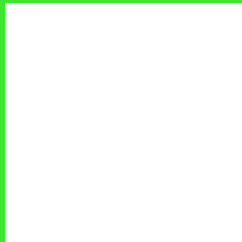
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**Yxy 57.8230, 0.3054, 0.5734**

## Background



This preview shows how black text looks on a background with the Yxy color 57.8230, 0.3054, 0.5734.

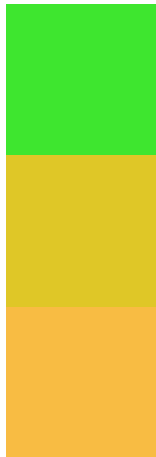


This preview shows how white text looks on a background with the Yxy color 57.8230, 0.3054, 0.5734.

# 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

57.8230, 0.3054, 0.5734

### Protanopia

56.6813, 0.4338, 0.4801

### Deuteranopia

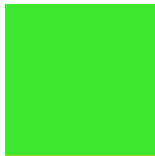
56.3281, 0.4538, 0.4429



## Tritanopia

57.2988, 0.2409, 0.3056

# Trichromacy



## Original Color

57.8230, 0.3054, 0.5734



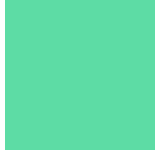
## Protanomaly

54.1529, 0.3745, 0.5231



## Deuteranomaly

52.7414, 0.3866, 0.4974



## Tritanomaly

56.2302, 0.2681, 0.4085

# Monochromacy



## Original Color

57.8230, 0.3054, 0.5734



## Achromatopsia

34.6704, 0.3127, 0.3290



## Achromatomaly

40.2910, 0.3124, 0.4350

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 57.8230, 0.3054, 0.5734 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(62, 230, 47)` looks like.

```
.text, #text, p{  
    color:rgb(62, 230, 47)  
}
```

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(62, 230, 47) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(62, 230, 47) }
```

## Border

The CSS property to change the border of an element to Yxy 57.8230, 0.3054, 0.5734 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(62, 230, 47) }
```

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

```
.border{ border-color:rgb(62, 230, 47) }
```

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

Here you see how a box with a 4 pixel rgb(62, 230, 47) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(62, 230, 47); -webkit-box-  
shadow:4px 4px 4px 4px rgb(62, 230, 47);  
box-shadow:4px 4px 4px 4px rgb(62, 230,  
47) }
```



# Background

The CSS property to change the background color of an element to Yxy 57.8230, 0.3054, 0.5734 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(62, 230, 47) }
```

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

```
.background{ background-color: rgb(62, 230,  
47) }
```

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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