

# Converting Colors

$Y_{xy}(62.3175, 0.3154, 0.5833)$

Have a look what the booklet for  
Yxy(62.3175, 0.3154, 0.5833)  
contains.

<b>Yxy(62.3175, 0.3154, 0.5833)</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(62.3175, 0.3154, 0.5833)**

# Conversions

## Conversions Part 1

Format	Color
Hex	50ED12
RGB	80, 237, 18
RGB Percent	31%, 93%, 7%
CMY	0.6866, 0.0705, 0.9295
CMYK	0.66, 0.00, 0.92, 0.07
HSL	103°, 86%, 50%
HSV	103°, 92%, 93%
XYZ	33.6961, 62.3175, 10.8225
YIQ	165.0910, -23.2730, -101.3930

# Conversions

## Conversions Part 2

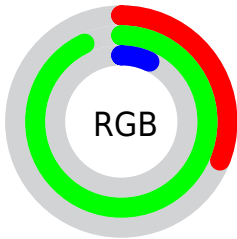
Format	Color
<a href="#">RYB</a>	<a href="#">18, 237, 175</a>
Decimal	<a href="#">5303570</a>
CIELab	<a href="#">83.08, -73.20, 78.19</a>
CIElCh	<a href="#">83, 107.106, 133.114</a>
Yxy	<a href="#">62.3175, 0.3154, 0.5833</a>
Android (android.graphics.Color)	<a href="#">4283493650 (0xFF50ED12)</a>
YUV	<a href="#">165.0910, -72.5159, -74.6248</a>
Hunter-Lab	<a href="#">78.9414, -61.9549, 47.1306</a>

# Details

The Yxy color **62.3175, 0.3154, 0.5833** 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 **15.6679, 0.2548, 0.1203**, and the grayscale version is **38.0250, 0.3127, 0.3290**.

A 20% lighter version of the original color is **78.6241, 0.3294, 0.5181**, and **32.6425, 0.3000, 0.6000** is the 20% darker color. If you saturate the color by 10%, you get **61.7690, 0.3118, 0.5907**, and if you desaturate by 10%, it is **63.2762, 0.3198, 0.5680**.

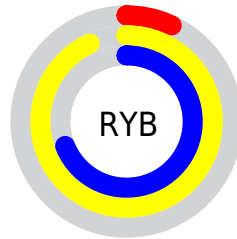
# Distribution



Red (31%)

Green (93%)

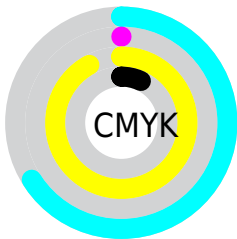
Blue (7%)



Red (7%)

Yellow (93%)

Blue (69%)

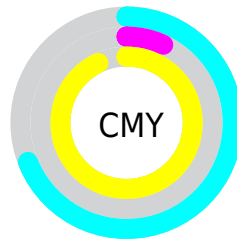


Cyan (66%)

Magenta (0%)

Yellow (92%)

Black (7%)



Cyan (69%)

Magenta (7%)


Yellow (93%)


# Brightness & Saturation Gradients


These gradients show how the Yxy color 62.3175, 0.3154, 0.5833 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 62.3175, 0.3154, 0.5833 by changing the saturation by 10% instead.




 62.3175, 0.3154,  
0.5833


 62.3175, 0.3154,  
0.5833


 433.0883, 0.3265,  
0.4556

 45.2893, 0.3086,  
0.6125


 108.1843, 0.3225,  
0.5383


 31.6854, 0.2979,  
0.6474


 137.7916, 0.3243,  
0.5209

 21.1213, 0.2808,  
0.6888


 172.3608, 0.3254,  
0.5060

 13.2127, 0.2559,  
0.7441

 212.2763, 0.3260,  
0.4931

 7.5752, 0.2100,  
0.7900

 257.9223, 0.3264,  
0.4819

 3.8243, 0.1437,  
0.8563

 309.6834, 0.3266,

 1.5758, 0.0000,

0.4720

1.0000

367.9440, 0.3266,  
0.4633

■ 0.3412, 0.0000,  
1.0000

■ 0.0000, 0.0000,  
0.0000

■ 62.3175, 0.3154,  
0.5833

■ 62.3175, 0.3154,  
0.5833


■ 61.7690, 0.3118,  
0.5907

■ 63.2762, 0.3198,  
0.5680


■ 64.5323, 0.3230,  
0.5459

■ 66.1154, 0.3248,  
0.5181

■ 68.0493, 0.3251,  
0.4868

 70.3552, 0.3242,  
0.4538

 73.0525, 0.3224,  
0.4211

 76.1592, 0.3198,  
0.3900

 79.6920, 0.3168,  
0.3611

 83.6668, 0.3135,  
0.3349

# Harmonies

## Analogous

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



62.3175, 0.4283, 0.5372



62.3175, 0.3154, 0.5833



62.3175, 0.2073, 0.4968

# Triad

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



62.3175, 0.3154, 0.5833



62.3175, 0.1218, 0.1609



62.3175, 0.5204, 0.2843

# Complementary

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



62.3175, 0.3154, 0.5833



15.6679, 0.2548, 0.1203

# 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.



62.3175, 0.3930, 0.2169



62.3175, 0.3154, 0.5833



62.3175, 0.1682, 0.1499

# Square

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



62.3175, 0.3154, 0.5833



62.3175, 0.1104, 0.2131



62.3175, 0.2589, 0.1695



62.3175, 0.5667, 0.3601



# Rectangle

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



62.3175, 0.3154, 0.5833



62.3175, 0.1537, 0.3840



62.3175, 0.2589, 0.1695



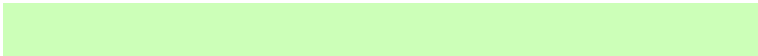
62.3175, 0.4840, 0.2604

# Sweetspot

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



62.3201, 0.3154, 0.5833



87.7721, 0.3213, 0.4075



48.6901, 0.4735, 0.4578



18.4598, 0.3224, 0.4212



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.



62.3201, 0.3154, 0.5833



72.9022, 0.3115, 0.5908



61.0896, 0.2923, 0.5667



17.0684, 0.3158, 0.3531



33.7772, 0.3128, 0.5899



2.6994, 0.3228, 0.5819



# Inverse Universe

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



15.6679, 0.2548, 0.1203



17.2729, 0.2490, 0.1146



22.1361, 0.3797, 0.1893



15.0873, 0.3093, 0.3055



8.0719, 0.2505, 0.1154

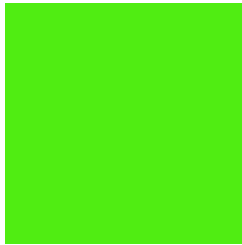


0.6819, 0.2606, 0.1209



# Previews

## White Background



This preview shows how the Yxy color 62.3175, 0.3154, 0.5833 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 62.3175, 0.3154, 0.5833 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

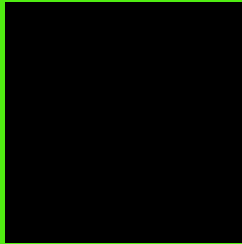
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**Yxy 62.3175, 0.3154, 0.5833**

## **Background**



This preview shows how black text looks on a background with the Yxy color 62.3175, 0.3154, 0.5833.

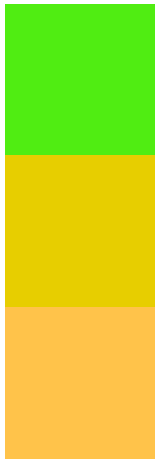


This preview shows how white text looks on a background with the Yxy color 62.3175, 0.3154, 0.5833.

# 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

62.3175, 0.3154, 0.5833

### Protanopia

61.1315, 0.4400, 0.4888

### Deuteranopia

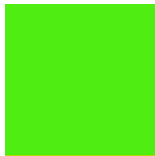
60.7846, 0.4501, 0.4414



## Tritanopia

61.6445, 0.2453, 0.3064

# Trichromacy



## Original Color

62.3175, 0.3154, 0.5833



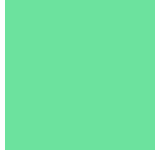
## Protanomaly

58.8712, 0.3854, 0.5307



## Deuteranomaly

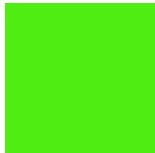
57.4359, 0.3936, 0.5002



## Tritanomaly

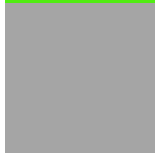
60.0495, 0.2796, 0.4245

# Monochromacy



## Original Color

62.3175, 0.3154, 0.5833



## Achromatopsia

37.6262, 0.3127, 0.3290



## Achromatomaly

43.4998, 0.3237, 0.4486

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 62.3175, 0.3154, 0.5833 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(80, 237, 18)` looks like.

```
.text, #text, p{  
    color:rgb(80, 237, 18)  
}
```

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(80, 237, 18) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(80, 237, 18) }
```

## Border

The CSS property to change the border of an element to Yxy 62.3175, 0.3154, 0.5833 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(80, 237, 18) }
```

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

```
.border{ border-color:rgb(80, 237, 18) }
```

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

Here you see how a box with a 4 pixel `rgb(80, 237, 18)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(80, 237, 18); -webkit-box-  
shadow:4px 4px 4px 4px rgb(80, 237, 18);  
box-shadow:4px 4px 4px 4px rgb(80, 237,  
18) }
```



# Background

The CSS property to change the background color of an element to Yxy 62.3175, 0.3154, 0.5833 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(80, 237, 18) }
```

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

```
.background{ background-color: rgb(80, 237,  
18) }
```

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