

# Converting Colors

$Y_{xy}(33.0960, 0.3369, 0.5706)$

Have a look what the booklet for  
Yxy(33.0960, 0.3369, 0.5706)  
contains.

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**Color**

**Yxy(33.1254, 0.3368, 0.5707)**

# Conversions

## Conversions Part 1

Format	Color
Hex	58B000
RGB	88, 176, 0
RGB Percent	35%, 69%, 0%
CMY	0.6550, 0.3098, 0.9992
CMYK	0.50, 0.00, 1.00, 0.31
HSL	90°, 100%, 35%
HSV	90°, 100%, 69%
XYZ	19.5490, 33.1254, 5.3690
YIQ	129.6240, 4.0480, -73.3920

# Conversions

## Conversions Part 2

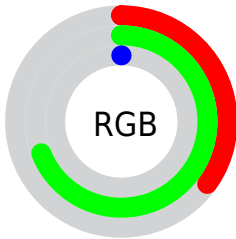
<b>Format</b>	<b>Color</b>
<b>RYB</b>	0, 176, 88
Decimal	5812224
CIELab	64.26, -50.82, 65.04
CIELCh	64, 82.540, 127.999
Yxy	33.1254, 0.3368, 0.5707
Android (android.graphics.Color)	4284002304 (0xFF58B000)
YUV	129.6240, -63.9046, -36.5042
Hunter-Lab	57.5547, -40.0913, 34.7574

# Details

The Yxy color **33.1254, 0.3368, 0.5707** is a dark color, and the websafe version is hex **66CC33**. A complement of this color would be **5.2257, 0.2029, 0.0892**, and the grayscale version is **22.4193, 0.3127, 0.3290**.

A 20% lighter version of the original color is **64.3460, 0.3405, 0.5214**, and **14.0292, 0.3048, 0.5962** is the 20% darker color. If you saturate the color by 10%, you get **33.1213, 0.3367, 0.5708**, and if you desaturate by 10%, it is **33.6257, 0.3416, 0.5591**.

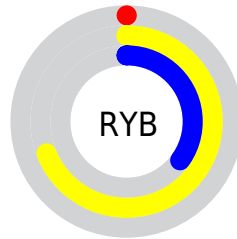
# Distribution



Red (35%)

Green (69%)

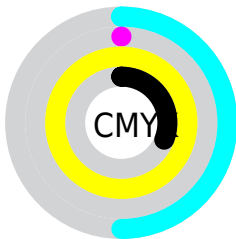
Blue (0%)



Red (0%)

Yellow (69%)

Blue (35%)

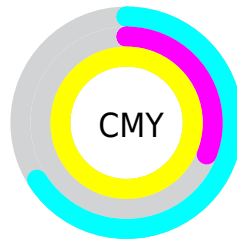


Cyan (50%)

Magenta (0%)

Yellow (100%)

Black (31%)



Cyan (66%)

Magenta (31%)


Yellow (100%)

# Brightness & Saturation Gradients


These gradients show how the Yxy color 33.1254, 0.3368, 0.5707 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 33.1254, 0.3368, 0.5707 by changing the saturation by 10% instead.





 33.1254, 0.3368,  
0.5707


 33.1254, 0.3368,  
0.5707


 316.2144, 0.3361,  
0.4386

 22.2225, 0.3308,  
0.6039


 64.5713, 0.3406,  
0.5216

 14.0205, 0.3190,  
0.6448


 85.8830, 0.3407,  
0.5033


 8.1349, 0.2989,  
0.7011


 111.4332, 0.3403,  
0.4879

 4.1814, 0.2516,  
0.7484

 141.6063, 0.3396,  
0.4750

 1.7755, 0.1278,  
0.8722

 176.7865, 0.3388,  
0.4639


 0.4719, 0.0000,  
1.0000

 217.3583, 0.3379,

 0.0000, 0.0000,


0.4543

0.0000


 263.7062, 0.3370,  
0.4459


 33.1254, 0.3368,  
0.5707

 33.1254, 0.3368,  
0.5707


 33.1213, 0.3367,  
0.5708

 33.6257, 0.3416,  
0.5591

 34.2165, 0.3448,  
0.5429

 34.9154, 0.3459,  
0.5214

 35.7307, 0.3449,  
0.4958

 36.6699, 0.3419,  
0.4675

■ 37.7397, 0.3375,  
0.4380

■ 38.9460, 0.3320,  
0.4086

■ 40.2945, 0.3258,  
0.3802

■ 41.7905, 0.3193,  
0.3534

# Harmonies

## Analogous

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



33.1254, 0.4442, 0.5172



33.1254, 0.3368, 0.5707



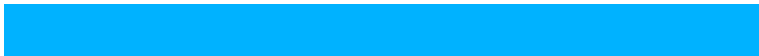
33.1254, 0.2292, 0.5105

# Triad

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



33.1254, 0.3368, 0.5707



33.1254, 0.1238, 0.1725



33.1254, 0.4940, 0.2751

# Complementary

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



33.1254, 0.3368, 0.5707



5.2257, 0.2029, 0.0892

# 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.



33.1254, 0.3664, 0.2116



33.1254, 0.3368, 0.5707



33.1254, 0.1630, 0.1555

# Square

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



33.1254, 0.3368, 0.5707



33.1254, 0.1186, 0.2330



33.1254, 0.2433, 0.1697



33.1254, 0.5554, 0.3485



# Rectangle

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



33.1254, 0.3368, 0.5707



33.1254, 0.1719, 0.4095



33.1254, 0.2433, 0.1697



33.1254, 0.4555, 0.2523

# Sweetspot

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



33.1268, 0.3368, 0.5707



70.4818, 0.3324, 0.4105



16.2283, 0.5399, 0.4094



15.0745, 0.3347, 0.4225



89.0005, 0.3127, 0.3290



17.0645, 0.3127, 0.3290



# Same Dimension

The Same Dimension uses a secret algorithm to generate beautiful new colors.



33.1268, 0.3368, 0.5707



59.9321, 0.3356, 0.5718



31.0546, 0.3000, 0.5999



9.6915, 0.3189, 0.3520



24.3348, 0.3375, 0.5702



0.8004, 0.3595, 0.5528



# Inverse Universe

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



5.2257, 0.2029, 0.0892



9.3246, 0.2011, 0.0882



12.3701, 0.3209, 0.1542



8.4322, 0.3061, 0.3060



3.8617, 0.2039, 0.0897



0.1562, 0.2353, 0.1070



# Previews

## White Background



This preview shows how the Yxy color 33.1254, 0.3368, 0.5707 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 33.1254, 0.3368, 0.5707 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

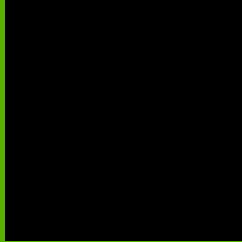
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**Yxy 33.1254, 0.3368, 0.5707**

## **Background**



This preview shows how black text looks on a background with the Yxy color 33.1254, 0.3368, 0.5707.



This preview shows how white text looks on a background with the Yxy color 33.1254, 0.3368, 0.5707.

# 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

33.1254, 0.3368, 0.5707

### Protanopia

32.5566, 0.4408, 0.4882

### Deuteranopia

32.5969, 0.4615, 0.4523



## Tritanopia

33.1700, 0.2593, 0.3083

# Trichromacy



## Original Color

33.1254, 0.3368, 0.5707

## Protanomaly

32.0340, 0.3981, 0.5221

## Deuteranomaly

31.5835, 0.4128, 0.4997

## Tritanomaly

32.0811, 0.2999, 0.4261

# Monochromacy



## Original Color

33.1254, 0.3368, 0.5707

## Achromatopsia

22.3228, 0.3127, 0.3290

## Achromatomaly

25.1368, 0.3390, 0.4470

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 33.1254, 0.3368, 0.5707 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(88, 176, 0)` looks like.

```
.text, #text, p{  
    color:rgb(88, 176, 0)  
}
```

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(88, 176, 0) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(88, 176, 0) }
```

## Border

The CSS property to change the border of an element to Yxy 33.1254, 0.3368, 0.5707 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(88, 176, 0) }
```

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

```
.border{ border-color:rgb(88, 176, 0) }
```

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

Here you see how a box with a 4 pixel rgb(88, 176, 0) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(88, 176, 0); -webkit-box-  
shadow:4px 4px 4px 4px rgb(88, 176, 0);  
box-shadow:4px 4px 4px 4px rgb(88, 176, 0)  
}
```



# Background

The CSS property to change the background color of an element to Yxy 33.1254, 0.3368, 0.5707 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(88, 176, 0) }
```

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

```
.background{ background-color: rgb(88, 176,  
0) }
```

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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