

# Converting Colors

$Y_{xy}(35.9712, 0.2842, 0.5431)$

Have a look what the booklet for  
Yxy(35.9712, 0.2842, 0.5431)  
contains.

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# Color

**Yxy(35.9580, 0.2842, 0.5433)**

# Conversions

## Conversions Part 1

Format	Color
Hex	00BB44
RGB	0, 187, 68
RGB Percent	0%, 73%, 27%
CMY	1.0000, 0.2666, 0.7333
CMYK	1.00, 0.00, 0.64, 0.27
HSL	142°, 100%, 37%
HSV	142°, 100%, 73%
XYZ	18.8096, 35.9580, 11.4168
YIQ	117.5210, -73.2530, -76.6530

# Conversions

## Conversions Part 2

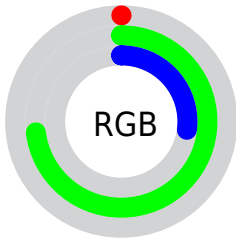
Format	Color
<b>RYB</b>	0, 137, 187
Decimal	47940
CIELab	66.49, -64.18, 47.91
CIELCh	66, 80.088, 143.258
Yxy	35.9580, 0.2842, 0.5433
Android (android.graphics.Color)	4278238020 (0xFF00BB44)
YUV	117.5210, -24.4139, -103.0659
Hunter-Lab	59.9650, -48.9475, 30.6872

# Details

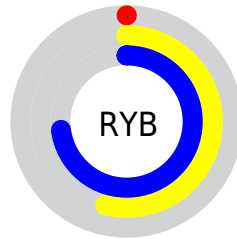
The Yxy color **35.9580, 0.2842, 0.5433** is a dark color, and the websafe version is hex **00CC66**. A complement of this color would be **11.8983, 0.4394, 0.2194**, and the grayscale version is **18.0557, 0.3127, 0.3290**.

A 20% lighter version of the original color is **69.2576, 0.2949, 0.4971**, and **16.5223, 0.2982, 0.5936** is the 20% darker color. If you saturate the color by 10%, you get **35.9622, 0.2842, 0.5433**, and if you desaturate by 10%, it is **36.2580, 0.2812, 0.5234**.

# Distribution



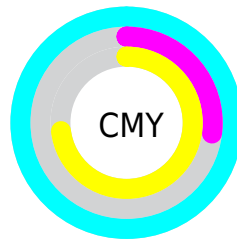
- Red (0%)
- Green (73%)
- Blue (27%)



- Red (0%)
- Yellow (54%)
- Blue (73%)



- Cyan (100%)
- Magenta (0%)
- Yellow (64%)
- Black (27%)




- Cyan (100%)
- Magenta (27%)
- Yellow (73%)

# Brightness & Saturation Gradients


These gradients show how the Yxy color 35.9580, 0.2842, 0.5433 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 35.9580, 0.2842, 0.5433 by changing the saturation by 10% instead.





 35.9580, 0.2842,  
0.5433


 35.9580, 0.2842,  
0.5433

 328.7769, 0.3062,  
0.4223

 24.4018, 0.2753,  
0.5773


 68.9672, 0.2945,  
0.4963


 15.6319, 0.2615,  
0.6225


 91.1890, 0.2977,  
0.4795


 9.2641, 0.2388,  
0.6836


 117.7348, 0.3000,  
0.4657

 4.9138, 0.2067,  
0.7933

 148.9889, 0.3018,  
0.4541

 2.1968, 0.0711,  
0.9289

 185.3358, 0.3033,  
0.4443

 0.7182, 0.0000,  
1.0000

 227.1598, 0.3045,

 0.0000, 0.0000,

0.4360

0.0000

274.8454, 0.3054,  
0.4287

■ 35.9580, 0.2842,  
0.5433

■ 35.9580, 0.2842,  
0.5433

■ 35.9622, 0.2842,  
0.5433

■ 36.2580, 0.2812,  
0.5234

■ 36.7148, 0.2794,  
0.5011

■ 37.3820, 0.2794,  
0.4771

■ 38.2845, 0.2811,  
0.4525

■ 39.4439, 0.2844,  
0.4281

■ 40.8790, 0.2889,  
0.4048

■ 42.6070, 0.2942,  
0.3830

■ 44.6435, 0.3001,  
0.3630

■ 47.0030, 0.3064,  
0.3450

# Harmonies

## Analogous

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



35.9580, 0.3904, 0.5431



35.9580, 0.2842, 0.5433



35.9580, 0.1907, 0.4289

# Triad

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



35.9580, 0.2842, 0.5433



35.9580, 0.1461, 0.1665



35.9580, 0.5250, 0.3142

# Complementary

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



35.9580, 0.2842, 0.5433



11.8983, 0.4394, 0.2194

# 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.



35.9580, 0.4289, 0.2462



35.9580, 0.2842, 0.5433



35.9580, 0.2035, 0.1658

# Square

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



35.9580, 0.2842, 0.5433



35.9580, 0.1245, 0.2023



35.9580, 0.3027, 0.1936



35.9580, 0.5407, 0.3893



# Rectangle

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



35.9580, 0.2842, 0.5433



35.9580, 0.1498, 0.3311



35.9580, 0.3027, 0.1936



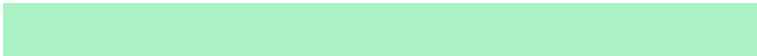
35.9580, 0.5005, 0.2905

# Sweetspot

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



35.9622, 0.2842, 0.5433



76.1374, 0.2939, 0.3840



39.6501, 0.3590, 0.5531



16.4660, 0.2916, 0.3931



95.5105, 0.3127, 0.3290



19.5994, 0.3127, 0.3290



# Same Dimension

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



35.9622, 0.2842, 0.5433



64.3591, 0.2850, 0.5461



38.0466, 0.2380, 0.3769



10.7054, 0.3068, 0.3440



24.7881, 0.2836, 0.5410



0.9837, 0.2695, 0.4903



# Inverse Universe

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



11.8983, 0.4394, 0.2194



21.2603, 0.4418, 0.2207



10.6501, 0.6195, 0.3187



9.6358, 0.3192, 0.3145



8.2113, 0.4376, 0.2184

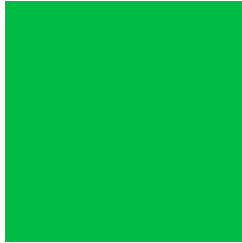


0.3338, 0.4028, 0.1993



# Previews

## White Background



This preview shows how the Yxy color 35.9580, 0.2842, 0.5433 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 35.9580, 0.2842, 0.5433 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 35.9580, 0.2842, 0.5433**

## Background



This preview shows how black text looks on a background with the Yxy color 35.9580, 0.2842, 0.5433.



This preview shows how white text looks on a background with the Yxy color 35.9580, 0.2842, 0.5433.

# 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

35.9580, 0.2842, 0.5433

### Protanopia

35.3997, 0.4177, 0.4600

### Deuteranopia

35.3383, 0.4317, 0.4231



## Tritanopia

35.8299, 0.2346, 0.3066

# Trichromacy



## Original Color

35.9580, 0.2842, 0.5433



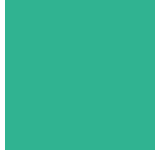
## Protanomaly

32.6857, 0.3431, 0.5049



## Deuteranomaly

31.8403, 0.3501, 0.4786



## Tritanomaly

34.9129, 0.2503, 0.3892

# Monochromacy



## Original Color

35.9580, 0.2842, 0.5433



## Achromatopsia

18.1164, 0.3127, 0.3290



## Achromatomaly

22.0609, 0.2856, 0.4193

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 35.9580, 0.2842, 0.5433 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(0, 187, 68)` looks like.

```
.text, #text, p{  
    color:rgb(0, 187, 68)  
}
```

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(0, 187, 68) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(0, 187, 68) }
```

## Border

The CSS property to change the border of an element to Yxy 35.9580, 0.2842, 0.5433 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(0, 187, 68) }
```

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

```
.border{ border-color:rgb(0, 187, 68) }
```

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

Here you see how a box with a 4 pixel `rgb(0, 187, 68)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(0, 187, 68); -webkit-box-  
shadow:4px 4px 4px 4px rgb(0, 187, 68);  
box-shadow:4px 4px 4px 4px rgb(0, 187, 68)  
}
```



# Background

The CSS property to change the background color of an element to Yxy 35.9580, 0.2842, 0.5433 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(0, 187, 68) }
```

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

```
.background{ background-color: rgb(0, 187,  
68) }
```

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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