

# Converting Colors

$Y_{xy}(36.6235, 0.3702, 0.5443)$

Have a look what the booklet for  
Yxy(36.6235, 0.3702, 0.5443)  
contains.

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**Color**

**Yxy(36.8294, 0.3699, 0.5445)**

# Conversions

## Conversions Part 1

Format	Color
Hex	80B300
RGB	128, 179, 0
RGB Percent	50%, 70%, 0%
CMY	0.4981, 0.2980, 1.0000
CMYK	0.29, 0.00, 1.00, 0.30
HSL	77°, 100%, 35%
HSV	77°, 100%, 70%
XYZ	25.0196, 36.8294, 5.7899
YIQ	143.3450, 27.0630, -66.4810

# Conversions

## Conversions Part 2

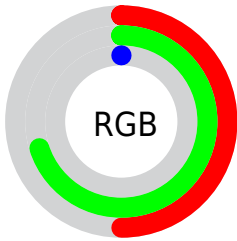
<b>Format</b>	<b>Color</b>
<b>RYB</b>	0, 179, 51
Decimal	8434432
CIELab	67.15, -37.96, 68.15
CIELCh	67, 78.009, 119.116
Yxy	36.8294, 0.3699, 0.5445
Android (android.graphics.Color)	4286624512 (0xFF80B300)
YUV	143.3450, -70.6691, -13.4576
Hunter-Lab	60.6872, -32.6121, 36.8245

# Details

The Yxy color **36.8294, 0.3699, 0.5445** is a dark color, and the websafe version is hex **99CC33**. A complement of this color would be **3.9601, 0.1686, 0.0702**, and the grayscale version is **27.8933, 0.3127, 0.3290**.

A 20% lighter version of the original color is **70.2668, 0.3667, 0.5047**, and **16.2994, 0.3489, 0.5612** is the 20% darker color. If you saturate the color by 10%, you get **36.8308, 0.3699, 0.5445**, and if you desaturate by 10%, it is **37.2801, 0.3724, 0.5357**.

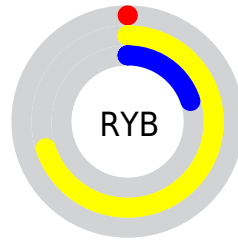
# Distribution



Red (50%)

Green (70%)

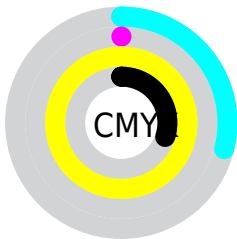
Blue (0%)



Red (0%)

Yellow (70%)

Blue (20%)

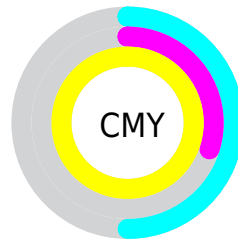


Cyan (29%)

Magenta (0%)

Yellow (100%)

Black (30%)



Cyan (50%)

Magenta (30%)


Yellow (100%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 36.8294, 0.3699, 0.5445 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 36.8294, 0.3699, 0.5445 by changing the saturation by 10% instead.





 36.8294, 0.3699,  
0.5445


 36.8294, 0.3699,  
0.5445


332.5713, 0.3513,  
0.4323


 25.0754, 0.3691,  
0.5706


 70.3103, 0.3668,  
0.5044


 16.1333, 0.3643,  
0.6014

 92.8061, 0.3644,  
0.4889

 9.6185, 0.3557,  
0.6443


 119.6512, 0.3620,  
0.4758

 5.1468, 0.3240,  
0.6760

 151.2301, 0.3596,  
0.4646

 2.3336, 0.2735,  
0.7265

 187.9272, 0.3573,  
0.4548

 0.7914, 0.0000,  
1.0000

 230.1268, 0.3552,

 0.0000, 0.0000,

0.4464

0.0000

278.2134, 0.3532,  
0.4389

■ 36.8294, 0.3699,  
0.5445

■ 36.8294, 0.3699,  
0.5445

■ 36.8308, 0.3699,  
0.5445

■ 37.2801, 0.3724,  
0.5357

■ 37.7888, 0.3729,  
0.5229

■ 38.3726, 0.3710,  
0.5055

■ 39.0389, 0.3666,  
0.4841

■ 39.7940, 0.3601,  
0.4597

■ 40.6438, 0.3520,  
0.4334

■ 41.5931, 0.3428,  
0.4063

■ 42.6468, 0.3329,  
0.3794

■ 43.8091, 0.3228,  
0.3535

# Harmonies

## Analogous

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



36.8294, 0.4653, 0.4847



36.8294, 0.3699, 0.5445



36.8294, 0.2664, 0.5212

# Triad

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



36.8294, 0.3699, 0.5445



36.8294, 0.1305, 0.1959



36.8294, 0.4477, 0.2609

# Complementary

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



36.8294, 0.3699, 0.5445



3.9601, 0.1686, 0.0702

# 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.



36.8294, 0.3263, 0.2054



36.8294, 0.3699, 0.5445



36.8294, 0.1582, 0.1681

# Square

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



36.8294, 0.3699, 0.5445



36.8294, 0.1362, 0.2697



36.8294, 0.2223, 0.1729



36.8294, 0.5279, 0.3295



# Rectangle

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



36.8294, 0.3699, 0.5445



36.8294, 0.2055, 0.4447



36.8294, 0.2223, 0.1729



36.8294, 0.4086, 0.2404

# Sweetspot

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



36.8310, 0.3699, 0.5445



74.3928, 0.3433, 0.4077



11.9286, 0.5998, 0.3620



16.3207, 0.3472, 0.4190



91.1408, 0.3127, 0.3290



17.8868, 0.3127, 0.3290



# Same Dimension

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



36.8310, 0.3699, 0.5445



65.8369, 0.3691, 0.5451



32.6709, 0.3080, 0.5936



9.7825, 0.3221, 0.3518



26.0579, 0.3705, 0.5440



0.8477, 0.3847, 0.5327



# Inverse Universe

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



3.9601, 0.1686, 0.0702



6.9927, 0.1672, 0.0695



8.8503, 0.2667, 0.1243



8.3436, 0.3028, 0.3058



2.8270, 0.1696, 0.0708



0.1193, 0.2017, 0.0885



# Previews

## White Background



This preview shows how the Yxy color 36.8294, 0.3699, 0.5445 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 36.8294, 0.3699, 0.5445 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

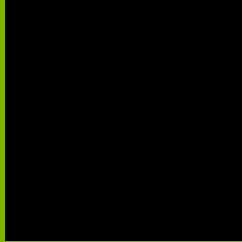
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**Yxy 36.8294, 0.3699, 0.5445**

## **Background**



This preview shows how black text looks on a background with the Yxy color 36.8294, 0.3699, 0.5445.



This preview shows how white text looks on a background with the Yxy color 36.8294, 0.3699, 0.5445.

# 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

36.8294, 0.3699, 0.5445

### Protanopia

36.3847, 0.4409, 0.4881

### Deuteranopia

36.2058, 0.4641, 0.4538



## Tritanopia

36.5875, 0.2829, 0.3085

# Trichromacy



## Original Color

36.8294, 0.3699, 0.5445

## Protanomaly

36.2684, 0.4142, 0.5093

## Deuteranomaly

35.5994, 0.4301, 0.4880

## Tritanomaly

35.8526, 0.3299, 0.4178

# Monochromacy



## Original Color

36.8294, 0.3699, 0.5445

## Achromatopsia

27.4677, 0.3127, 0.3290

## Achromatomaly

29.9355, 0.3537, 0.4364

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 36.8294, 0.3699, 0.5445 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(128, 179, 0)` looks like.

```
.text, #text, p{  
    color:rgb(128, 179, 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(128, 179, 0) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(128, 179, 0) }
```

## Border

The CSS property to change the border of an element to Yxy 36.8294, 0.3699, 0.5445 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(128, 179, 0) }
```

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

```
.border{ border-color:rgb(128, 179, 0) }
```

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

Here you see how a box with a 4 pixel `rgb(128, 179, 0)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(128, 179, 0); -webkit-box-  
shadow:4px 4px 4px 4px rgb(128, 179, 0);  
box-shadow:4px 4px 4px 4px rgb(128, 179,  
0) }
```



# Background

The CSS property to change the background color of an element to Yxy 36.8294, 0.3699, 0.5445 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(128, 179, 0) }
```

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

```
.background{ background-color: rgb(128,  
179, 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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