

# Converting Colors

$Yxy(70.0064, 0.3738, 0.5083)$

Have a look what the booklet for  
Yxy(70.0064, 0.3738, 0.5083)  
contains.

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# Color

**Yxy(70.0818, 0.3733, 0.5085)**

# Conversions

## Conversions Part 1

Format	Color
Hex	BDEA44
RGB	189, 234, 68
RGB Percent	74%, 92%, 27%
CMY	0.2589, 0.0823, 0.7332
CMYK	0.19, 0.00, 0.71, 0.08
HSL	76°, 80%, 59%
HSV	76°, 71%, 92%
XYZ	51.4484, 70.0818, 16.2904
YIQ	201.6210, 26.4660, -61.1660

# Conversions

## Conversions Part 2

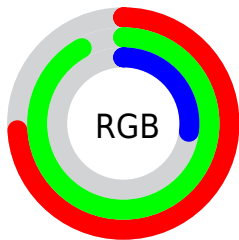
Format	Color
<a href="#">RYB</a>	<a href="#">68, 234, 113</a>
Decimal	<a href="#">12446276</a>
CIELab	<a href="#">87.04, -36.64, 71.48</a>
CIELCh	<a href="#">87, 80.318, 117.139</a>
Yxy	<a href="#">70.0818, 0.3733, 0.5085</a>
Android (android.graphics.Color)	<a href="#">4290636356 (0xFFBDEA44)</a>
YUV	<a href="#">201.6210, -65.8752, -11.0686</a>
Hunter-Lab	<a href="#">83.7149, -36.8007, 47.0629</a>

# Details

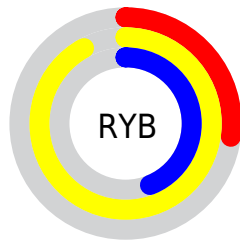
The Yxy color **70.0818, 0.3733, 0.5085** is a light color, and the websafe version is hex **CCFF66**. The color can be described as light muted chartreuse. A complement of this color would be **13.5968, 0.2037, 0.1166**, and the grayscale version is **59.2214, 0.3127, 0.3290**.

A 20% lighter version of the original color is **92.9828, 0.3821, 0.4541**, and **36.6661, 0.3735, 0.5417** is the 20% darker color. If you saturate the color by 10%, you get **69.0595, 0.3750, 0.5249**, and if you desaturate by 10%, it is **71.2599, 0.3691, 0.4878**.

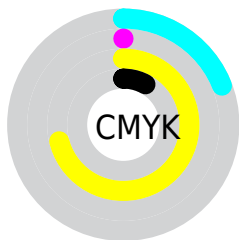
# Distribution



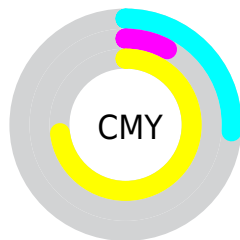
- Red (74%)
- Green (92%)
- Blue (27%)



- Red (27%)
- Yellow (92%)
- Blue (44%)



- Cyan (19%)
- Magenta (0%)
- Yellow (71%)
- Black (8%)




- Cyan (26%)
- Magenta (8%)
- Yellow (73%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 70.0818, 0.3733, 0.5085 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 70.0818, 0.3733, 0.5085 by changing the saturation by 10% instead.




 70.0818, 0.3733,  
0.5085


 70.0818, 0.3733,  
0.5085


460.8372, 0.3522,  
0.4242


 51.5932, 0.3756,  
0.5267

 119.3254, 0.3679,  
0.4798

 36.6809, 0.3769,  
0.5482

 150.8492, 0.3652,  
0.4684


 24.9606, 0.3761,  
0.5735


 187.4869, 0.3626,  
0.4585

 16.0477, 0.3714,  
0.6033

 229.6228, 0.3602,  
0.4499

 9.5579, 0.3601,  
0.6399

 277.6415, 0.3580,  
0.4423

 5.1068, 0.3294,  
0.6706

331.9271, 0.3559,

 2.3101, 0.2803,

0.4356

0.7197

392.8642, 0.3540,  
0.4295

0.7790, 0.0000,  
1.0000

0.0000, 0.0000,  
0.0000

70.0818, 0.3733,  
0.5085

70.0818, 0.3733,  
0.5085

69.0595, 0.3750,  
0.5249

71.2599, 0.3691,  
0.4878


68.1686, 0.3740,  
0.5365


72.5970, 0.3627,  
0.4637


67.4545, 0.3714,  
0.5433


74.1072, 0.3544,  
0.4374


75.8003, 0.3449,  
0.4101

 77.6855, 0.3347,  
0.3828

 79.7710, 0.3241,  
0.3563

 82.0647, 0.3137,  
0.3312

 84.5576, 0.3037,  
0.3081

 85.6872, 0.3078,  
0.3084

# Harmonies

## Analogous

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



70.0818, 0.4529, 0.4638



70.0818, 0.3733, 0.5085



70.0818, 0.2831, 0.4883

# Triad

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



70.0818, 0.3733, 0.5085



70.0818, 0.1530, 0.2194



70.0818, 0.4195, 0.2682

# Complementary

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



70.0818, 0.3733, 0.5085



13.5968, 0.2037, 0.1166

# 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.



70.0818, 0.3189, 0.2195



70.0818, 0.3733, 0.5085



70.0818, 0.1760, 0.1903

# Square

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



70.0818, 0.3733, 0.5085



70.0818, 0.1617, 0.2880



70.0818, 0.2315, 0.1920



70.0818, 0.4905, 0.3298



# Rectangle

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



70.0818, 0.3733, 0.5085



70.0818, 0.2286, 0.4304



70.0818, 0.2315, 0.1920



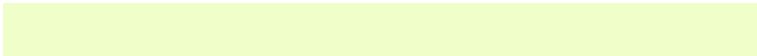
70.0818, 0.3869, 0.2501

# Sweetspot

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



70.0849, 0.3733, 0.5085



94.3656, 0.3349, 0.3833



29.5671, 0.5139, 0.3724



20.0572, 0.3377, 0.3908



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.



70.0849, 0.3733, 0.5085



83.4216, 0.3749, 0.5307



62.3811, 0.3189, 0.5449



17.4095, 0.3226, 0.3526



37.9671, 0.3722, 0.5427



3.0283, 0.3789, 0.5373



# Inverse Universe

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



13.5968, 0.2037, 0.1166



11.1674, 0.1817, 0.0857



21.7208, 0.2798, 0.1538



14.7467, 0.3022, 0.3049



3.9945, 0.1669, 0.0693



0.3598, 0.1811, 0.0771



# Previews

## White Background



This preview shows how the Yxy color 70.0818, 0.3733, 0.5085 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 70.0818, 0.3733, 0.5085 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 70.0818, 0.3733, 0.5085**

## **Background**



This preview shows how black text looks on a background with the Yxy color 70.0818, 0.3733, 0.5085.

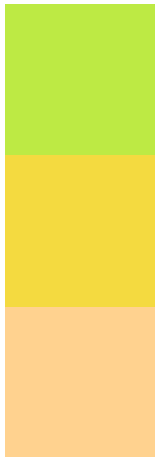


This preview shows how white text looks on a background with the Yxy color 70.0818, 0.3733, 0.5085.

# 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

70.0818, 0.3733, 0.5085

### Protanopia

69.7461, 0.4277, 0.4712

### Deuteranopia

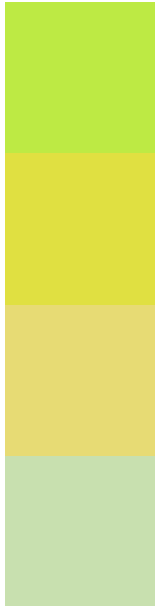
69.3364, 0.3973, 0.3978



## Tritanopia

69.4643, 0.2935, 0.3091

# Trichromacy



**Original Color**

70.0818, 0.3733, 0.5085

**Protanomaly**

69.5403, 0.4074, 0.4855

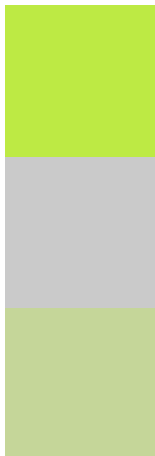
**Deuteranomaly**

68.9129, 0.3915, 0.4391

**Tritanomaly**

68.6858, 0.3277, 0.3866

# Monochromacy



**Original Color**

70.0818, 0.3733, 0.5085

**Achromatopsia**

59.0619, 0.3127, 0.3290

**Achromatomaly**

62.2634, 0.3420, 0.4031

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 70.0818, 0.3733, 0.5085 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(189, 234, 68)` looks like.

```
.text, #text, p{  
    color:rgb(189, 234, 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(189, 234, 68) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(189, 234, 68) }
```

## Border

The CSS property to change the border of an element to Yxy 70.0818, 0.3733, 0.5085 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(189, 234, 68) }
```

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

```
.border{ border-color:rgb(189, 234, 68) }
```

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

Here you see how a box with a 4 pixel rgb(189, 234, 68) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(189, 234, 68); -webkit-box-  
shadow:4px 4px 4px 4px rgb(189, 234, 68);  
box-shadow:4px 4px 4px 4px rgb(189, 234,  
68) }
```



# Background

The CSS property to change the background color of an element to  $\text{Yxy } 70.0818, 0.3733, 0.5085$  is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(189, 234, 68) }
```

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

```
.background{ background-color: rgb(189,  
234, 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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