

# Converting Colors

$Y_{xy}(70.4550, 0.3685, 0.4946)$

Have a look what the booklet for  
Yxy(70.4550, 0.3685, 0.4946)  
contains.

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**Color**

**Yxy(70.5779, 0.3686, 0.4950)**

# Conversions

## Conversions Part 1

Format	Color
Hex	BFEA55
RGB	191, 234, 85
RGB Percent	75%, 92%, 33%
CMY	0.2508, 0.0824, 0.6666
CMYK	0.18, 0.00, 0.64, 0.08
HSL	77°, 78%, 63%
HSV	77°, 64%, 92%
XYZ	52.5556, 70.5779, 19.4481
YIQ	204.1570, 22.2010, -55.4550

# Conversions

## Conversions Part 2

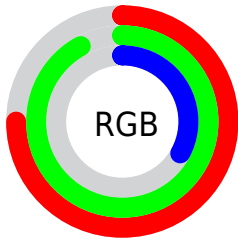
Format	Color
<b>R<sub>YB</sub></b>	85, 234, 128
Decimal	12577365
CIE Lab	87.28, -34.78, 65.43
CIE LCh	87, 74.103, 117.992
Yxy	70.5779, 0.3686, 0.4950
Android (android.graphics.Color)	4290767445 (0xFFBFEA55)
YUV	204.1570, -58.7444, -11.5387
Hunter-Lab	84.0107, -35.3522, 45.0821

# Details

The Yxy color **70.5779, 0.3686, 0.4950** 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 **17.0255, 0.2182, 0.1376**, and the grayscale version is **60.8626, 0.3127, 0.3290**.

A 20% lighter version of the original color is **93.7671, 0.3758, 0.4405**, and **36.9633, 0.3734, 0.5331** is the 20% darker color. If you saturate the color by 10%, you get **69.4136, 0.3718, 0.5150**, and if you desaturate by 10%, it is **71.9118, 0.3630, 0.4714**.

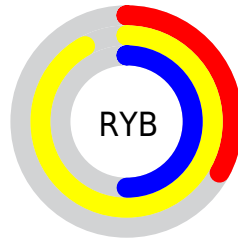
# Distribution



Red (75%)

Green (92%)

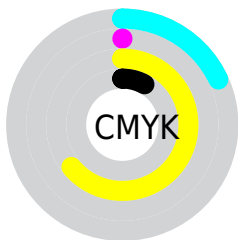
Blue (33%)



Red (33%)

Yellow (92%)

Blue (50%)

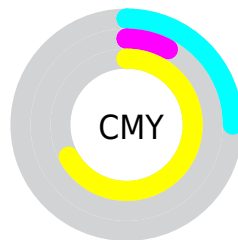


Cyan (18%)

Magenta (0%)

Yellow (64%)

Black (8%)



Cyan (25%)

Magenta (8%)


Yellow (67%)

# Brightness & Saturation Gradients

These gradients show how the Yxy color 70.5779, 0.3686, 0.4950 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 70.5779, 0.3686, 0.4950 by changing the saturation by 10% instead.





 70.5779, 0.3686,  
0.4950


 70.5779, 0.3686,  
0.4950


462.5765, 0.3483,  
0.4164

 51.9978, 0.3712,  
0.5124


 120.0325, 0.3631,  
0.4680

 37.0033, 0.3733,  
0.5331


 151.6758, 0.3604,  
0.4574

 25.2101, 0.3738,  
0.5581


 188.4423, 0.3580,  
0.4482

 16.2336, 0.3711,  
0.5879

 230.7164, 0.3557,  
0.4402

 9.6896, 0.3674,  
0.6326

278.8825, 0.3536,  
0.4331

 5.1937, 0.3385,  
0.6615

333.3249, 0.3517,

 2.3613, 0.2924,

0.4269

0.7076

394.4281, 0.3499,  
0.4214

0.8059, 0.0000,  
1.0000

0.0000, 0.0000,  
0.0000

70.5779, 0.3686,  
0.4950

70.5779, 0.3686,  
0.4950

69.4136, 0.3718,  
0.5150

71.9118, 0.3630,  
0.4714

68.3962, 0.3725,  
0.5304


73.4171, 0.3555,  
0.4453

67.5128, 0.3706,  
0.5409


75.1075, 0.3466,  
0.4179


67.0078, 0.3685,  
0.5456


76.9920, 0.3369,  
0.3904

 79.0795, 0.3267,  
0.3635

 81.3779, 0.3164,  
0.3380

 83.8947, 0.3064,  
0.3141

 85.4788, 0.3071,  
0.3083

 86.7147, 0.3115,  
0.3086

# Harmonies

## Analogous

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



70.5779, 0.4428, 0.4578



70.5779, 0.3686, 0.4950



70.5779, 0.2843, 0.4722

# Triad

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



70.5779, 0.3686, 0.4950



70.5779, 0.1631, 0.2264



70.5779, 0.4137, 0.2743

# Complementary

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



70.5779, 0.3686, 0.4950



17.0255, 0.2182, 0.1376

# 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.



70.5779, 0.3216, 0.2277



70.5779, 0.3686, 0.4950



70.5779, 0.1859, 0.1990

# Square

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



70.5779, 0.3686, 0.4950



70.5779, 0.1710, 0.2899



70.5779, 0.2394, 0.2010



70.5779, 0.4778, 0.3332



# Rectangle

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



70.5779, 0.3686, 0.4950



70.5779, 0.2336, 0.4188



70.5779, 0.2394, 0.2010



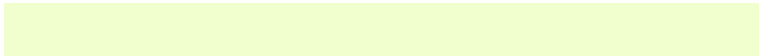
70.5779, 0.3840, 0.2570

# Sweetspot

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



70.5811, 0.3686, 0.4950



94.7090, 0.3322, 0.3779



33.3841, 0.4834, 0.3737



20.1185, 0.3351, 0.3857



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.



70.5811, 0.3686, 0.4950



84.0176, 0.3723, 0.5196



63.3018, 0.3189, 0.5252



17.3962, 0.3223, 0.3526



37.7232, 0.3693, 0.5450



3.0108, 0.3765, 0.5393



# Inverse Universe

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



17.0255, 0.2182, 0.1376



14.3664, 0.1971, 0.1046



24.9557, 0.2868, 0.1689



14.7593, 0.3025, 0.3050



4.0737, 0.1689, 0.0704



0.3674, 0.1834, 0.0784



# Previews

## White Background



This preview shows how the Yxy color 70.5779, 0.3686, 0.4950 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 70.5779, 0.3686, 0.4950 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

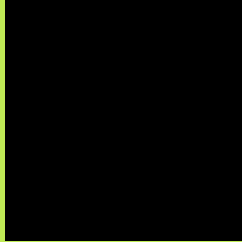
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**Yxy 70.5779, 0.3686, 0.4950**

## **Background**



This preview shows how black text looks on a background with the Yxy color 70.5779, 0.3686, 0.4950.



This preview shows how white text looks on a background with the Yxy color 70.5779, 0.3686, 0.4950.

# 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

70.5779, 0.3686, 0.4950

### Protanopia

69.7916, 0.4200, 0.4615

### Deuteranopia

69.9866, 0.3932, 0.3938



## Tritanopia

70.2745, 0.2948, 0.3103

# Trichromacy



**Original Color**

70.5779, 0.3686, 0.4950

**Protanomaly**

69.7678, 0.4007, 0.4745

**Deuteranomaly**

69.2995, 0.3868, 0.4302

**Tritanomaly**

69.2041, 0.3252, 0.3792

# Monochromacy



**Original Color**

70.5779, 0.3686, 0.4950

**Achromatopsia**

60.3827, 0.3127, 0.3290

**Achromatomaly**

63.3162, 0.3379, 0.3940

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 70.5779, 0.3686, 0.4950 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(191, 234, 85)` looks like.

```
.text, #text, p{  
    color:rgb(191, 234, 85)  
}
```

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(191, 234, 85) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(191, 234, 85) }
```

## Border

The CSS property to change the border of an element to Yxy 70.5779, 0.3686, 0.4950 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(191, 234, 85) }
```

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

```
.border{ border-color:rgb(191, 234, 85) }
```

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

Here you see how a box with a 4 pixel `rgb(191, 234, 85)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(191, 234, 85); -webkit-box-  
shadow:4px 4px 4px 4px rgb(191, 234, 85);  
box-shadow:4px 4px 4px 4px rgb(191, 234,  
85) }
```



# Background

The CSS property to change the background color of an element to  $\text{Yxy } 70.5779, 0.3686, 0.4950$  is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(191, 234, 85) }
```

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

```
.background{ background-color: rgb(191,  
234, 85) }
```

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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