

# Converting Colors

$Y_{xy}(70.2019, 0.3547, 0.4794)$

Have a look what the booklet for  
Yxy(70.2019, 0.3547, 0.4794)  
contains.

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# Color

**Yxy(70.1798, 0.3552, 0.4796)**

# Conversions

## Conversions Part 1

Format	Color
Hex	B9EA69
RGB	185, 234, 105
RGB Percent	73%, 92%, 41%
CMY	0.2746, 0.0823, 0.5882
CMYK	0.21, 0.00, 0.55, 0.08
HSL	83°, 75%, 66%
HSV	83°, 55%, 92%
XYZ	51.9764, 70.1798, 24.1737
YIQ	204.6430, 12.2050, -50.5070

# Conversions

## Conversions Part 2

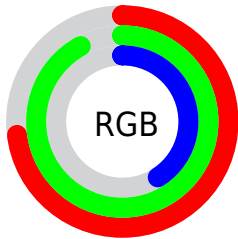
Format	Color
<a href="#">RYB</a>	<a href="#">105, 234, 154</a>
Decimal	<a href="#">12184169</a>
CIELab	<a href="#">87.08, -35.45, 56.63</a>
CIELCh	<a href="#">87, 66.812, 122.050</a>
Yxy	<a href="#">70.1798, 0.3552, 0.4796</a>
Android (android.graphics.Color)	<a href="#">4290374249</a> ( <a href="#">0xFFB9EA69</a> )
YUV	<a href="#">204.6430, -49.1240, -17.2269</a>
Hunter-Lab	<a href="#">83.7734, -35.8549, 41.5326</a>

# Details

The Yxy color **70.1798, 0.3552, 0.4796** is a light color, and the websafe version is hex **CCFF66**. A complement of this color would be **22.9215, 0.2432, 0.1677**, and the grayscale version is **61.1234, 0.3127, 0.3290**.

A 20% lighter version of the original color is **93.1128, 0.3606, 0.4247**, and **36.7469, 0.3592, 0.5161** is the 20% darker color. If you saturate the color by 10%, you get **68.6943, 0.3589, 0.5046**, and if you desaturate by 10%, it is **71.8731, 0.3496, 0.4522**.

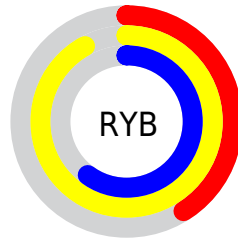
# Distribution



Red (73%)

Green (92%)

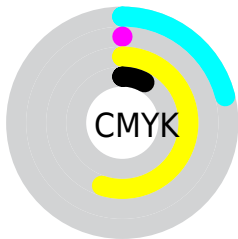
Blue (41%)



Red (41%)

Yellow (92%)

Blue (60%)

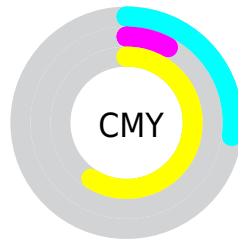


Cyan (21%)

Magenta (0%)

Yellow (55%)

Black (8%)



Cyan (27%)

Magenta (8%)


Yellow (59%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 70.1798, 0.3552, 0.4796 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 70.1798, 0.3552, 0.4796 by changing the saturation by 10% instead.




 70.1798, 0.3552,  
0.4796


 70.1798, 0.3552,  
0.4796


461.1811, 0.3396,  
0.4071

 51.6731, 0.3573,  
0.4962


 119.4651, 0.3508,  
0.4542

 36.7446, 0.3591,  
0.5165


 151.0126, 0.3488,  
0.4444

 25.0098, 0.3599,  
0.5417


 187.6757, 0.3469,  
0.4360

 16.0844, 0.3582,  
0.5731

 229.8390, 0.3452,  
0.4286

 9.5839, 0.3526,  
0.6147

277.8868, 0.3436,  
0.4222

 5.1239, 0.3348,  
0.6652


332.2034, 0.3421,

 2.3202, 0.2873,


0.4166


0.7127


393.1734, 0.3408,  
0.4116


 0.7844, 0.0000,  
1.0000


 0.0000, 0.0000,  
0.0000


 70.1798, 0.3552,  
0.4796


 70.1798, 0.3552,  
0.4796


 68.6943, 0.3589,  
0.5046


 71.8731, 0.3496,  
0.4522


 67.3948, 0.3602,  
0.5258


 73.7761, 0.3425,  
0.4237

 66.2703, 0.3591,  
0.5423

 75.9018, 0.3344,  
0.3952


 65.3034, 0.3556,  
0.5535

 78.2598, 0.3259,  
0.3676

 64.8765, 0.3534,  
0.5576

 80.8587, 0.3172,  
0.3416

 83.7068, 0.3085,  
0.3175

 85.8895, 0.3085,  
0.3084

 87.3314, 0.3137,  
0.3088

# Harmonies

## Analogous

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



70.1798, 0.4251, 0.4545



70.1798, 0.3552, 0.4796



70.1798, 0.2781, 0.4487

# Triad

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



70.1798, 0.3552, 0.4796



70.1798, 0.1760, 0.2306



70.1798, 0.4142, 0.2864

# Complementary

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



70.1798, 0.3552, 0.4796



22.9215, 0.2432, 0.1677

# 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.



70.1798, 0.3327, 0.2408



70.1798, 0.3552, 0.4796



70.1798, 0.2012, 0.2083

# Square

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



70.1798, 0.3552, 0.4796



70.1798, 0.1799, 0.2849



70.1798, 0.2550, 0.2131



70.1798, 0.4664, 0.3424



# Rectangle

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



70.1798, 0.3552, 0.4796



70.1798, 0.2331, 0.3978



70.1798, 0.2550, 0.2131



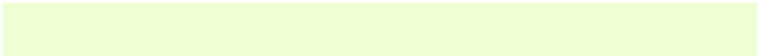
70.1798, 0.3886, 0.2696

# Sweetspot

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



70.1829, 0.3552, 0.4796



94.5235, 0.3276, 0.3729



41.0721, 0.4438, 0.3817



20.1056, 0.3293, 0.3784



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.



70.1829, 0.3552, 0.4796



83.2831, 0.3592, 0.5073



64.0247, 0.3136, 0.5015



17.3245, 0.3209, 0.3527



36.5280, 0.3544, 0.5568



2.9232, 0.3633, 0.5497



# Inverse Universe

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



22.9215, 0.2432, 0.1677



20.5360, 0.2254, 0.1356



30.7695, 0.3020, 0.1917



14.8279, 0.3039, 0.3051



4.5969, 0.1815, 0.0773



0.4146, 0.1969, 0.0858



# Previews

## White Background



This preview shows how the Yxy color 70.1798, 0.3552, 0.4796 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 70.1798, 0.3552, 0.4796 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 70.1798, 0.3552, 0.4796**

## **Background**



This preview shows how black text looks on a background with the Yxy color 70.1798, 0.3552, 0.4796.

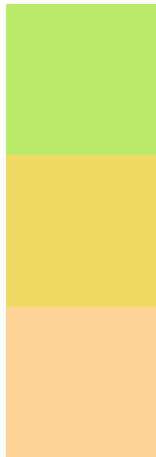


This preview shows how white text looks on a background with the Yxy color 70.1798, 0.3552, 0.4796.

# 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

70.1798, 0.3552, 0.4796

### Protanopia

69.7637, 0.4091, 0.4484

### Deuteranopia

69.5231, 0.3929, 0.3919



## Tritanopia

69.8574, 0.2896, 0.3101

# Trichromacy



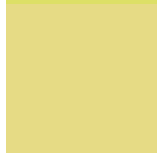
## Original Color

70.1798, 0.3552, 0.4796



## Protanomaly

69.6428, 0.3888, 0.4599



## Deuteranomaly

69.1795, 0.3801, 0.4227



## Tritanomaly

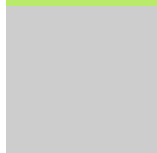
69.2603, 0.3156, 0.3713

# Monochromacy



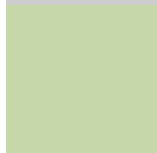
## Original Color

70.1798, 0.3552, 0.4796



## Achromatopsia

61.0496, 0.3127, 0.3290



## Achromatomaly

63.9821, 0.3314, 0.3855

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 70.1798, 0.3552, 0.4796 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(185, 234, 105)` looks like.

```
.text, #text, p{  
    color:rgb(185, 234, 105)  
}
```

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(185, 234, 105) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(185, 234, 105) }
```

## Border

The CSS property to change the border of an element to Yxy 70.1798, 0.3552, 0.4796 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(185, 234, 105) }
```

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

```
.border{ border-color:rgb(185, 234, 105) }
```

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

Here you see how a box with a 4 pixel `rgb(185, 234, 105)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(185, 234, 105); -webkit-box-  
shadow:4px 4px 4px 4px rgb(185, 234, 105);  
box-shadow:4px 4px 4px 4px rgb(185, 234,  
105) }
```



# Background

The CSS property to change the background color of an element to Yxy 70.1798, 0.3552, 0.4796 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(185, 234, 105) }
```

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

```
.background{ background-color: rgb(185,  
234, 105) }
```

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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