

# Converting Colors

$Y_{xy}(85.5818, 0.3585, 0.4170)$

Have a look what the booklet for  
Yxy(85.5818, 0.3585, 0.4170)  
contains.

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# Color

**Yxy(85.6757, 0.3587, 0.4176)**

# Conversions

## Conversions Part 1

Format	Color
Hex	ECF5A0
RGB	236, 245, 160
RGB Percent	93%, 96%, 63%
CMY	0.0744, 0.0392, 0.3727
CMYK	0.04, 0.00, 0.35, 0.04
HSL	66°, 81%, 79%
HSV	66°, 35%, 96%
XYZ	73.5917, 85.6757, 45.8948
YIQ	232.6190, 21.9210, -28.3430

# Conversions

## Conversions Part 2

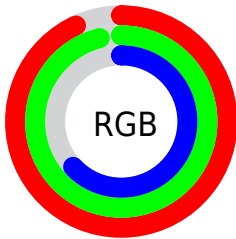
<b>Format</b>	<b>Color</b>
<b>RYB</b>	160, 245, 169
Decimal	15529376
CIELab	94.17, -15.76, 40.00
CIELCh	94, 42.990, 111.503
Yxy	85.6757, 0.3587, 0.4176
Android (android.graphics.Color)	4293719456 (0xFFECEF5A0)
YUV	232.6190, -35.8012, 2.9651
Hunter-Lab	92.5612, -20.0639, 35.3950

# Details

The Yxy color **85.6757, 0.3587, 0.4176** is a light color, and the websafe version is hex **FFFF99**. A complement of this color would be **40.1472, 0.2560, 0.2265**, and the grayscale version is **81.4477, 0.3127, 0.3290**.

A 20% lighter version of the original color is **97.7379, 0.3358, 0.3671**, and **47.0404, 0.3673, 0.4380** is the 20% darker color. If you saturate the color by 10%, you get **84.4654, 0.3708, 0.4424**, and if you desaturate by 10%, it is **87.0690, 0.3456, 0.3918**.

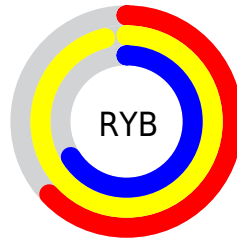
# Distribution



Red (93%)

Green (96%)

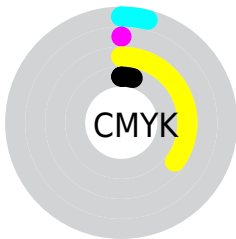
Blue (63%)



Red (63%)

Yellow (96%)

Blue (66%)

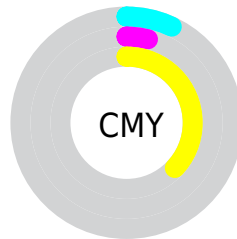


Cyan (4%)

Magenta (0%)

Yellow (35%)

Black (4%)



Cyan (7%)

Magenta (4%)


Yellow (37%)

# Brightness & Saturation Gradients

These gradients show how the Yxy color 85.6757, 0.3587, 0.4176 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 85.6757, 0.3587, 0.4176 by changing the saturation by 10% instead.




 85.6757, 0.3587,  
0.4176

 85.6757, 0.3587,  
0.4176


513.8613, 0.3391,  
0.3771

 64.3998, 0.3627,  
0.4266


 141.3168, 0.3523,  
0.4037

 46.9746, 0.3673,  
0.4375


 176.4509, 0.3497,  
0.3983

 33.0156, 0.3727,  
0.4511


216.9732, 0.3474,  
0.3936

 22.1384, 0.3790,  
0.4681

263.2681, 0.3454,  
0.3894

 13.9586, 0.3860,  
0.4902

315.7199, 0.3436,  
0.3858

 8.0919, 0.3932,  
0.5190

374.7131, 0.3419,

 4.1538, 0.4098,

0.3826

0.5740

440.6321, 0.3405,  
0.3797

■ 1.7600, 0.3922,  
0.6078

■ 0.4620, 0.1054,  
0.8946

■ 85.6757, 0.3587,  
0.4176

■ 85.6757, 0.3587,  
0.4176

■ 84.4654, 0.3708,  
0.4424

■ 87.0690, 0.3456,  
0.3918

■ 83.4167, 0.3815,  
0.4651

■ 88.6431, 0.3322,  
0.3658

■ 82.5222, 0.3901,  
0.4846


■ 90.4102, 0.3189,  
0.3405


■ 81.7696, 0.3963,  
0.5002

■ 92.1864, 0.3077,  
0.3193

 81.1444, 0.3998,  
0.5113

 92.6585, 0.3093,  
0.3193

 80.6288, 0.4008,  
0.5179

 93.1371, 0.3110,  
0.3194

 80.3867, 0.4006,  
0.5201

 93.6223, 0.3126,  
0.3194

 93.7865, 0.3132,  
0.3194

# Harmonies

## Analogous

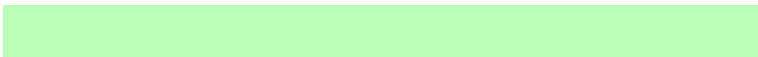
The Analogous color harmony consists of three colors that are next to each other on the color wheel.



85.6757, 0.3959, 0.4003



85.6757, 0.3587, 0.4176



85.6757, 0.3108, 0.4077

# Triad

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



85.6757, 0.3587, 0.4176



85.6757, 0.2234, 0.2797



85.6757, 0.3583, 0.2915

# Complementary

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



85.6757, 0.3587, 0.4176



40.1472, 0.2560, 0.2265

# 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.



85.6757, 0.3084, 0.2643



85.6757, 0.3587, 0.4176



85.6757, 0.2335, 0.2558

# Square

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



85.6757, 0.3587, 0.4176



85.6757, 0.2345, 0.3212



85.6757, 0.2634, 0.2513



85.6757, 0.3970, 0.3277

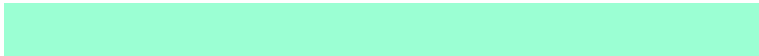


# Rectangle

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



85.6757, 0.3587, 0.4176



85.6757, 0.2796, 0.3851



85.6757, 0.2634, 0.2513



85.6757, 0.3421, 0.2811

# Sweetspot

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



85.6795, 0.3587, 0.4176



97.9580, 0.3259, 0.3539



50.1252, 0.3923, 0.3385



20.9094, 0.3278, 0.3574



0.0000, 0.0000, 0.0000



21.4041, 0.3127, 0.3290



# Same Dimension

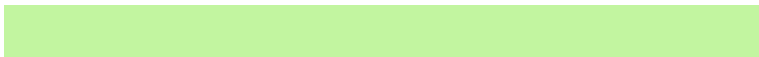
The Same Dimension uses a secret algorithm to generate beautiful new colors.



85.6795, 0.3587, 0.4176



92.8326, 0.3678, 0.4360



79.3090, 0.3295, 0.4267



19.2195, 0.3252, 0.3525



43.3413, 0.4009, 0.5199



3.8343, 0.4033, 0.5179



# Inverse Universe

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



40.1472, 0.2560, 0.2265



35.7609, 0.2414, 0.2009



45.5657, 0.2886, 0.2352



16.0104, 0.2996, 0.3046



3.6967, 0.1536, 0.0620

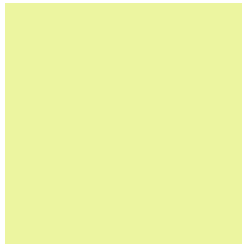


0.3521, 0.1612, 0.0661



# Previews

## White Background



This preview shows how the Yxy color 85.6757, 0.3587, 0.4176 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

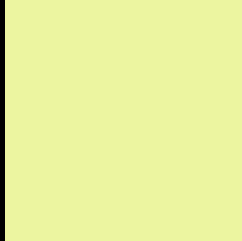
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 85.6757, 0.3587, 0.4176 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

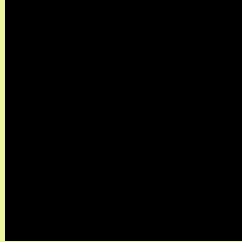
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

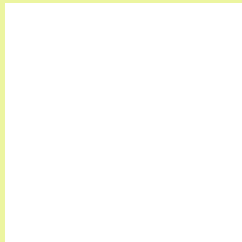
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**Yxy 85.6757, 0.3587, 0.4176**

## **Background**



This preview shows how black text looks on a background with the Yxy color 85.6757, 0.3587, 0.4176.

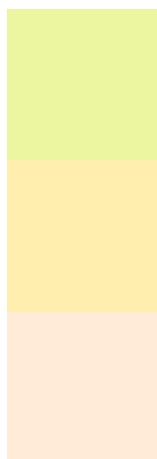


This preview shows how white text looks on a background with the Yxy color 85.6757, 0.3587, 0.4176.

# 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

85.6757, 0.3587, 0.4176

### Protanopia

85.4651, 0.3657, 0.3934

### Deuteranopia

85.6345, 0.3387, 0.3480



## Tritanopia

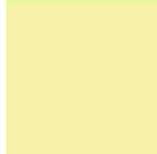
85.6481, 0.3102, 0.3113

# Trichromacy



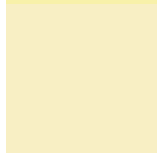
## Original Color

85.6757, 0.3587, 0.4176



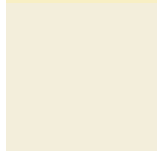
## Protanomaly

85.7316, 0.3629, 0.4024



## Deuteranomaly

85.6750, 0.3462, 0.3728



## Tritanomaly

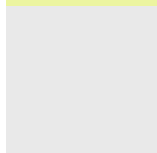
85.3182, 0.3280, 0.3484

# Monochromacy



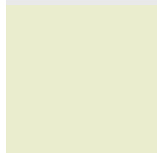
## Original Color

85.6757, 0.3587, 0.4176



## Achromatopsia

81.4847, 0.3127, 0.3290



## Achromatomaly

82.5170, 0.3302, 0.3616

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 85.6757, 0.3587, 0.4176 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(236, 245, 160)` looks like.

```
.text, #text, p{  
    color:rgb(236, 245, 160)  
}
```

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(236, 245, 160) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(236, 245, 160) }
```

## Border

The CSS property to change the border of an element to Yxy 85.6757, 0.3587, 0.4176 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(236, 245, 160) }
```

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

```
.border{ border-color:rgb(236, 245, 160) }
```

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

Here you see how a box with a 4 pixel rgb(236, 245, 160) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(236, 245, 160); -webkit-box-  
shadow:4px 4px 4px 4px rgb(236, 245, 160);  
box-shadow:4px 4px 4px 4px rgb(236, 245,  
160) }
```



# Background

The CSS property to change the background color of an element to Yxy 85.6757, 0.3587, 0.4176 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(236, 245, 160) }
```

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

```
.background{ background-color: rgb(236,  
245, 160) }
```

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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