

# Converting Colors

$Y_{xy}(100.0000, 0.4173, 0.4196)$

Have a look what the booklet for  
Yxy(100.0000, 0.4173, 0.4196)  
contains.

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# **Color**

**Yxy(89.6750, 0.3830, 0.4335)**

# Conversions

## Conversions Part 1

Format	Color
Hex	FFF78C
RGB	255, 247, 140
RGB Percent	100%, 97%, 55%
CMY	0.0001, 0.0313, 0.4508
CMYK	0.00, 0.03, 0.45, 0.00
HSL	56°, 100%, 77%
HSV	56°, 45%, 100%
XYZ	79.2284, 89.6750, 37.9593
YIQ	237.1940, 39.1150, -31.5810

# Conversions

## Conversions Part 2

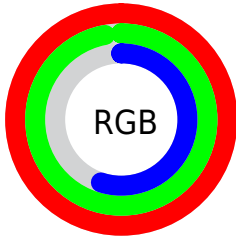
<b>Format</b>	<b>Color</b>
R <sub>Y</sub> B	149, 255, 140
Decimal	16775052
CIE Lab	95.86, -11.60, 52.10
CIE LCh	96, 53.380, 102.551
Yxy	89.6750, 0.3830, 0.4335
Android (android.graphics.Color)	4294965132 (0xFFFFF78C)
YUV	237.1940, -47.9166, 15.6159
Hunter-Lab	94.6969, -16.3770, 42.5214

# Details

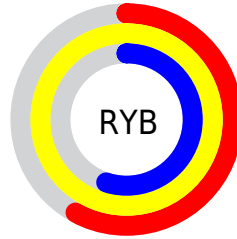
The Yxy color **89.6750, 0.3830, 0.4335** is a light color, and the websafe version is hex **FFFF99**. A complement of this color would be **33.9761, 0.2287, 0.1970**, and the grayscale version is **85.2015, 0.3127, 0.3290**.

A 20% lighter version of the original color is **96.7201, 0.3484, 0.3880**, and **49.6855, 0.3951, 0.4553** is the 20% darker color. If you saturate the color by 10%, you get **87.9373, 0.3971, 0.4534**, and if you desaturate by 10%, it is **91.6054, 0.3676, 0.4113**.

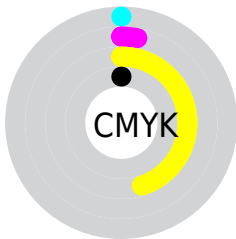
# Distribution



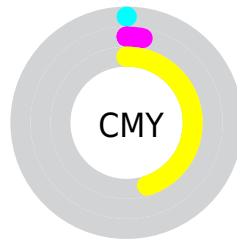
- Red (100%)
- Green (97%)
- Blue (55%)



- Red (58%)
- Yellow (100%)
- Blue (55%)



- Cyan (0%)
- Magenta (3%)
- Yellow (45%)
- Black (0%)




- Cyan (0%)
- Magenta (3%)
- Yellow (45%)

# Brightness & Saturation Gradients

These gradients show how the Yxy color 89.6750, 0.3830, 0.4335 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 89.6750, 0.3830, 0.4335 by changing the saturation by 10% instead.





 89.6750, 0.3830,  
0.4335

 89.6750, 0.3830,  
0.4335


526.9731, 0.3535,  
0.3872

 67.7111, 0.3888,  
0.4433

 146.8869, 0.3735,  
0.4180

 49.6628, 0.3955,  
0.4549

 182.9037, 0.3696,  
0.4118

 35.1455, 0.4031,  
0.4688


224.3735, 0.3661,  
0.4064

 23.7750, 0.4116,  
0.4856

271.6809, 0.3631,  
0.4017

 15.1668, 0.4206,  
0.5057

325.2101, 0.3603,  
0.3974

 8.9365, 0.4295,  
0.5302

385.3456, 0.3578,

 4.6998, 0.4378,

0.3937

0.5622

452.4718, 0.3556,  
0.3903

■ 2.0722, 0.4218,  
0.5782

■ 0.6489, 0.3395,  
0.6605

■ 89.6750, 0.3830,  
0.4335

■ 89.6750, 0.3830,  
0.4335

■ 87.9373, 0.3971,  
0.4534

■ 91.6054, 0.3676,  
0.4113

■ 86.3678, 0.4094,  
0.4700

■ 93.7272, 0.3517,  
0.3879

■ 84.9567, 0.4192,  
0.4825

■ 96.0547, 0.3358,  
0.3640

■ 83.6880, 0.4264,  
0.4906

■ 98.5973, 0.3203,  
0.3406

■ 82.5418, 0.4308,  
0.4943

99.9942, 0.3127,  
0.3290

■ 82.0084, 0.4322,  
0.4950

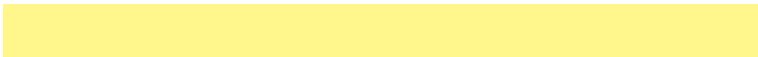
# Harmonies

## Analogous

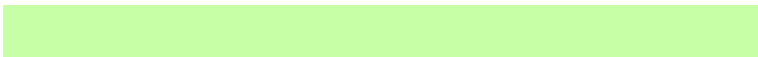
The Analogous color harmony consists of three colors that are next to each other on the color wheel.



89.6750, 0.4223, 0.4028



89.6750, 0.3830, 0.4335



89.6750, 0.3269, 0.4344

# Triad

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



89.6750, 0.3830, 0.4335



89.6750, 0.2070, 0.2810



89.6750, 0.3502, 0.2727

# Complementary

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



89.6750, 0.3830, 0.4335



33.9761, 0.2287, 0.1970

# 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.



89.6750, 0.2893, 0.2451



89.6750, 0.3830, 0.4335



89.6750, 0.2117, 0.2464

# Square

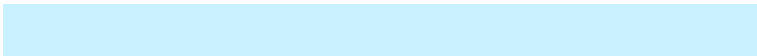
The Square scheme is like the rectangle color scheme, but the four colors are evenly spaced on the color wheel.



89.6750, 0.3830, 0.4335



89.6750, 0.2269, 0.3365



89.6750, 0.2401, 0.2352



89.6750, 0.4045, 0.3128

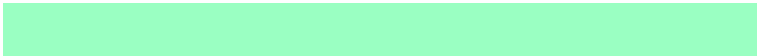


# Rectangle

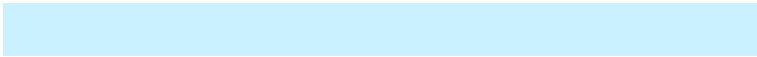
The Rectangle color scheme consists of four colors that form a rectangle on the color wheel.



89.6750, 0.3830, 0.4335



89.6750, 0.2880, 0.4132



89.6750, 0.2401, 0.2352



89.6750, 0.3296, 0.2618

# Sweetspot

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



89.6791, 0.3830, 0.4335



96.3437, 0.3341, 0.3615



42.2125, 0.4243, 0.3193



20.5091, 0.3375, 0.3666



0.0000, 0.0000, 0.0000



21.4041, 0.3127, 0.3290



# Same Dimension

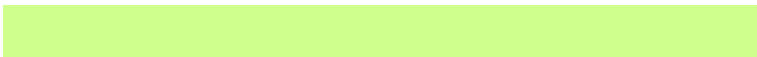
The Same Dimension uses a secret algorithm to generate beautiful new colors.



89.6791, 0.3830, 0.4335



88.1401, 0.3957, 0.4514



86.6726, 0.3469, 0.4538



20.8627, 0.3271, 0.3509



42.9543, 0.4320, 0.4952



4.2443, 0.4304, 0.4965



# Inverse Universe

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



33.9761, 0.2287, 0.1970



26.1580, 0.2101, 0.1665



36.6688, 0.2618, 0.1994



17.5795, 0.2978, 0.3061



4.0666, 0.1512, 0.0642

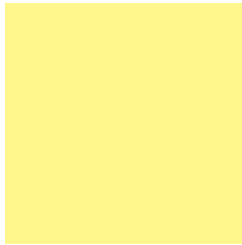


0.4631, 0.1538, 0.0737



# Previews

## White Background



This preview shows how the Yxy color 89.6750, 0.3830, 0.4335 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 89.6750, 0.3830, 0.4335 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

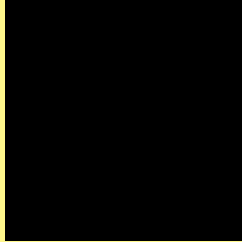
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**Yxy 89.6750, 0.3830, 0.4335**

## **Background**



This preview shows how black text looks on a background with the Yxy color 89.6750, 0.3830, 0.4335.

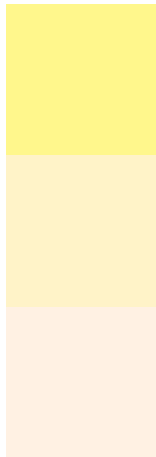


This preview shows how white text looks on a background with the Yxy color 89.6750, 0.3830, 0.4335.

# 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

89.6750, 0.3830, 0.4335

### Protanopia

89.5313, 0.3477, 0.3719

### Deuteranopia

89.7166, 0.3308, 0.3428



## Tritanopia

89.7703, 0.3177, 0.3203

# Trichromacy



## Original Color

89.6750, 0.3830, 0.4335



## Protanomaly

89.1757, 0.3614, 0.3949



## Deuteranomaly

89.3013, 0.3509, 0.3769



## Tritanomaly

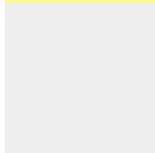
89.3677, 0.3421, 0.3618

# Monochromacy



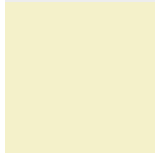
## Original Color

89.6750, 0.3830, 0.4335



## Achromatopsia

84.6873, 0.3127, 0.3290



## Achromatomaly

86.4080, 0.3391, 0.3689

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 89.6750, 0.3830, 0.4335 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(255, 247, 140)` looks like.

```
.text, #text, p{  
    color:rgb(255, 247, 140)  
}
```

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(255, 247, 140) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(255, 247, 140) }
```

## Border

The CSS property to change the border of an element to Yxy 89.6750, 0.3830, 0.4335 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(255, 247, 140) }
```

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

```
.border{ border-color:rgb(255, 247, 140) }
```

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

Here you see how a box with a 4 pixel `rgb(255, 247, 140)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(255, 247, 140); -webkit-box-  
shadow:4px 4px 4px 4px rgb(255, 247, 140);  
box-shadow:4px 4px 4px 4px rgb(255, 247,  
140) }
```



# Background

The CSS property to change the background color of an element to Yxy 89.6750, 0.3830, 0.4335 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(255, 247, 140) }
```

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

```
.background{ background-color: rgb(255,  
247, 140) }
```

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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