

# Converting Colors

$Y_{xy}(83.7753, 0.3961, 0.4401)$

Have a look what the booklet for  
Yxy(83.7753, 0.3961, 0.4401)  
contains.

<b>Yxy(83.8643, 0.3959, 0.4400)</b> .....	3
<b><i>Conversions</i></b> .....	4
<b><i>Details</i></b> .....	6
<b><i>Harmonies</i></b> .....	12
<b><i>Previews</i></b> .....	24
<b><i>Color Blindness Simulation</i></b> .....	27
<b><i>CSS Examples</i></b> .....	30

# Color

**Yxy(83.8643, 0.3959, 0.4400)**

# Conversions

## Conversions Part 1

Format	Color
Hex	FFEE7C
RGB	255, 238, 124
RGB Percent	100%, 93%, 49%
CMY	0.0000, 0.0667, 0.5137
CMYK	0.00, 0.07, 0.51, 0.00
HSL	52°, 100%, 74%
HSV	52°, 51%, 100%
XYZ	75.4588, 83.8643, 31.2776
YIQ	230.0870, 46.7260, -31.8500

# Conversions

## Conversions Part 2

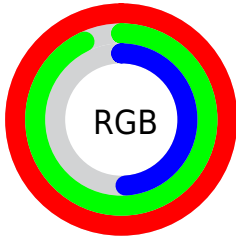
<b>Format</b>	<b>Color</b>
<b>RYB</b>	144, 255, 124
Decimal	16772732
CIELab	93.39, -8.54, 56.64
CIELCh	93, 57.282, 98.571
Yxy	83.8643, 0.3959, 0.4400
Android (android.graphics.Color)	4294962812 (0xFFFFEE7C)
YUV	230.0870, -52.3009, 21.8487
Hunter-Lab	91.5775, -13.1785, 43.8542

# Details

The Yxy color **83.8643, 0.3959, 0.4400** is a light color, and the websafe version is hex **FFFF99**. A complement of this color would be **30.5545, 0.2174, 0.1851**, and the grayscale version is **79.5658, 0.3127, 0.3290**.

A 20% lighter version of the original color is **96.0347, 0.3579, 0.4037**, and **45.6466, 0.4108, 0.4615** is the 20% darker color. If you saturate the color by 10%, you get **81.3906, 0.4106, 0.4572**, and if you desaturate by 10%, it is **86.5393, 0.3798, 0.4201**.

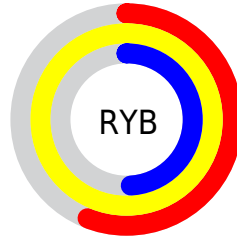
# Distribution



Red (100%)

Green (93%)

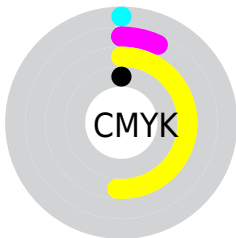
Blue (49%)



Red (56%)

Yellow (100%)

Blue (49%)

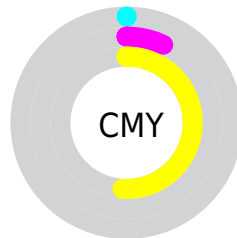


Cyan (0%)

Magenta (7%)

Yellow (51%)

Black (0%)



Cyan (0%)

Magenta (7%)


Yellow (51%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 83.8643, 0.3959, 0.4400 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 83.8643, 0.3959, 0.4400 by changing the saturation by 10% instead.




 83.8643, 0.3959,  
0.4400


 83.8643, 0.3959,  
0.4400


507.8625, 0.3608,  
0.3911


 62.9034, 0.4028,  
0.4502


 138.7853, 0.3846,  
0.4238

 45.7631, 0.4106,  
0.4621


 173.5143, 0.3799,  
0.4172

 32.0589, 0.4195,  
0.4761


 213.6013, 0.3758,  
0.4115

 21.4065, 0.4292,  
0.4925

259.4309, 0.3721,  
0.4065

 13.4215, 0.4390,  
0.5113

311.3875, 0.3688,  
0.4020

 7.7194, 0.4546,  
0.5408

369.8553, 0.3659,

 3.9159, 0.4488,

0.3980

0.5512

435.2188, 0.3632,  
0.3944

■ 1.6266, 0.4353,  
0.5647

■ 0.3755, 0.2834,  
0.7166

■ 83.8643, 0.3959,  
0.4400

■ 83.8643, 0.3959,  
0.4400

■ 81.3906, 0.4106,  
0.4572

■ 86.5393, 0.3798,  
0.4201

■ 79.1062, 0.4232,  
0.4707

■ 89.4289, 0.3631,  
0.3984

■ 76.9954, 0.4333,  
0.4798

■ 92.5434, 0.3464,  
0.3760

■ 75.0398, 0.4405,  
0.4843

■ 95.8930, 0.3302,  
0.3536

■ 73.4533, 0.4447,  
0.4851

99.4869, 0.3148,  
0.3319

100.0000, 0.3127,  
0.3290

# Harmonies

## Analogous

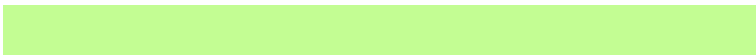
The Analogous color harmony consists of three colors that are next to each other on the color wheel.



83.8643, 0.4358, 0.4025



83.8643, 0.3959, 0.4400



83.8643, 0.3360, 0.4478

# Triad

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



83.8643, 0.3959, 0.4400



83.8643, 0.1992, 0.2828



83.8643, 0.3446, 0.2629

# Complementary

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



83.8643, 0.3959, 0.4400



30.5545, 0.2174, 0.1851

# 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.



83.8643, 0.2786, 0.2355



83.8643, 0.3959, 0.4400



83.8643, 0.2010, 0.2423

# Square

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



83.8643, 0.3959, 0.4400



83.8643, 0.2240, 0.3459



83.8643, 0.2281, 0.2274



83.8643, 0.4068, 0.3046

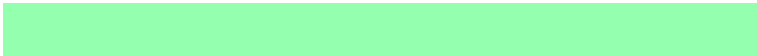


# Rectangle

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



83.8643, 0.3959, 0.4400



83.8643, 0.2933, 0.4285



83.8643, 0.2281, 0.2274



83.8643, 0.3218, 0.2519

# Sweetspot

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



83.8638, 0.3959, 0.4400



94.6504, 0.3360, 0.3617



37.6119, 0.4414, 0.3115



20.1076, 0.3394, 0.3664



0.0000, 0.0000, 0.0000



21.4041, 0.3127, 0.3290



# Same Dimension

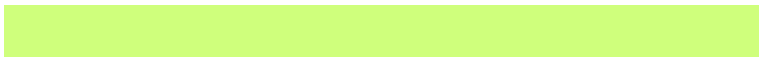
The Same Dimension uses a secret algorithm to generate beautiful new colors.



83.8638, 0.3959, 0.4400



81.2420, 0.4114, 0.4582



86.2357, 0.3546, 0.4696



20.6648, 0.3272, 0.3495



38.5380, 0.4442, 0.4855



3.8595, 0.4410, 0.4881



# Inverse Universe

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



30.5545, 0.2174, 0.1851



22.5760, 0.1967, 0.1511



30.4093, 0.2473, 0.1779



17.7576, 0.2979, 0.3076



4.4602, 0.1527, 0.0697



0.5469, 0.1570, 0.0852



# Previews

## White Background



This preview shows how the Yxy color 83.8643, 0.3959, 0.4400 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

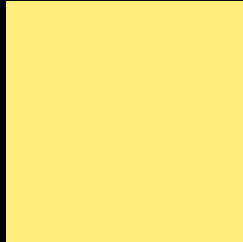
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 83.8643, 0.3959, 0.4400 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 83.8643, 0.3959, 0.4400**

## Background



This preview shows how black text looks on a background with the Yxy color 83.8643, 0.3959, 0.4400.

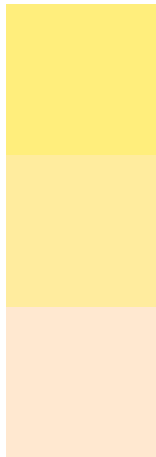


This preview shows how white text looks on a background with the Yxy color 83.8643, 0.3959, 0.4400.

# 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

83.8643, 0.3959, 0.4400

### Protanopia

83.7195, 0.3766, 0.4073

### Deuteranopia

83.5273, 0.3445, 0.3532



## Tritanopia

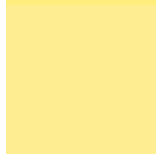
83.5899, 0.3236, 0.3182

# Trichromacy



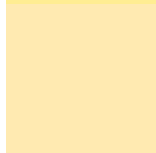
## Original Color

83.8643, 0.3959, 0.4400



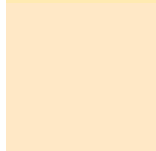
## Protanomaly

83.9037, 0.3836, 0.4196



## Deuteranomaly

83.2800, 0.3649, 0.3866



## Tritanomaly

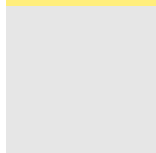
83.0504, 0.3513, 0.3634

# Monochromacy



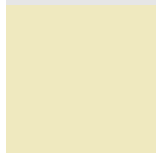
## Original Color

83.8643, 0.3959, 0.4400



## Achromatopsia

79.1298, 0.3127, 0.3290



## Achromatomaly

80.3901, 0.3441, 0.3732

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 83.8643, 0.3959, 0.4400 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, 238, 124)` looks like.

```
.text, #text, p{  
    color:rgb(255, 238, 124)  
}
```

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, 238, 124) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(255, 238, 124) }
```

## Border

The CSS property to change the border of an element to Yxy 83.8643, 0.3959, 0.4400 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, 238, 124) }
```

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

```
.border{ border-color:rgb(255, 238, 124) }
```

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

Here you see how a box with a 4 pixel `rgb(255, 238, 124)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(255, 238, 124); -webkit-box-  
shadow:4px 4px 4px 4px rgb(255, 238, 124);  
box-shadow:4px 4px 4px 4px rgb(255, 238,  
124) }
```



# Background

The CSS property to change the background color of an element to Yxy 83.8643, 0.3959, 0.4400 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(255, 238, 124) }
```

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

```
.background{ background-color: rgb(255,  
238, 124) }
```

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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