

# Converting Colors

Yxy(83.0448, 0.4246, 0.4857)

Have a look what the booklet for  
Yxy(83.0448, 0.4246, 0.4857)  
contains.

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# Color

**Yxy(83.2320, 0.4244, 0.4859)**

# Conversions

## Conversions Part 1

Format	Color
Hex	FFEF33
RGB	255, 239, 51
RGB Percent	100%, 94%, 20%
CMY	0.0001, 0.0627, 0.8000
CMYK	0.00, 0.06, 0.80, 0.00
HSL	55°, 100%, 60%
HSV	55°, 80%, 100%
XYZ	72.6974, 83.2320, 15.3651
YIQ	222.3520, 69.8840, -55.0760

# Conversions

## Conversions Part 2

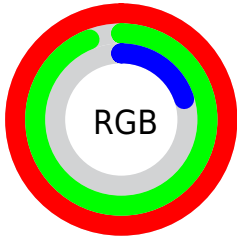
Format	Color
<a href="#">RYB</a>	<a href="#">68, 255, 51</a>
Decimal	<a href="#">16772915</a>
CIELab	<a href="#">93.12, -13.07, 84.01</a>
CIELCh	<a href="#">93, 85.016, 98.841</a>
Yxy	<a href="#">83.2320, 0.4244, 0.4859</a>
Android (android.graphics.Color)	<a href="#">4294962995 (0xFFFFEF33)</a>
YUV	<a href="#">222.3520, -84.4765, 28.6323</a>
Hunter-Lab	<a href="#">91.2316, -17.4185, 53.8765</a>

# Details

The Yxy color **83.2320, 0.4244, 0.4859** is a light color, and the websafe version is hex **FFFF33**. The color can be described as light washed yellow. A complement of this color would be **11.9323, 0.1659, 0.0924**, and the grayscale version is **73.8819, 0.3127, 0.3290**.

A 20% lighter version of the original color is **93.9949, 0.3926, 0.4610**, and **45.3363, 0.4296, 0.4971** is the 20% darker color. If you saturate the color by 10%, you get **81.9074, 0.4304, 0.4917**, and if you desaturate by 10%, it is **84.7005, 0.4156, 0.4756**.

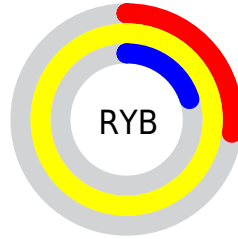
# Distribution



Red (100%)

Green (94%)

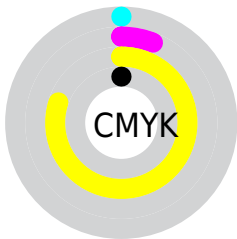
Blue (20%)



Red (27%)

Yellow (100%)

Blue (20%)

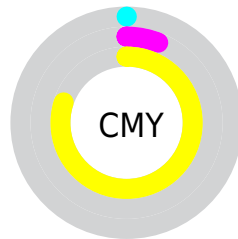


Cyan (0%)

Magenta (6%)

Yellow (80%)

Black (0%)



Cyan (0%)

Magenta (6%)


Yellow (80%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 83.2320, 0.4244, 0.4859 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 83.2320, 0.4244, 0.4859 by changing the saturation by 10% instead.




 83.2320, 0.4244,  
0.4859

 83.2320, 0.4244,  
0.4859


505.7594, 0.3819,  
0.4207


 62.3816, 0.4310,  
0.4978


 137.9003, 0.4121,  
0.4656

 45.3411, 0.4375,  
0.5107


 172.4870, 0.4065,  
0.4570


 31.7262, 0.4433,  
0.5244


 212.4213, 0.4015,  
0.4492

 21.1524, 0.4477,  
0.5388

 258.0875, 0.3968,  
0.4423

 13.2355, 0.4480,  
0.5520

 309.8700, 0.3926,  
0.4361

 7.5909, 0.4398,  
0.5602

368.1532, 0.3887,

 3.8343, 0.4273,

0.4305

0.5727

433.3215, 0.3852,  
0.4254

■ 1.5813, 0.4060,  
0.5940

■ 0.3450, 0.0251,  
0.9749

■ 83.2320, 0.4244,  
0.4859

■ 83.2320, 0.4244,  
0.4859

■ 81.9074, 0.4304,  
0.4917

■ 84.7005, 0.4156,  
0.4756


■ 80.6859, 0.4340,  
0.4936

■ 86.3187, 0.4042,  
0.4610


■ 80.6856, 0.4340,  
0.4936

■ 88.1054, 0.3907,  
0.4427

■ 90.0736, 0.3756,  
0.4217

 92.2348, 0.3598,  
0.3989

 94.5997, 0.3437,  
0.3753

 97.1780, 0.3279,  
0.3518

99.9788, 0.3127,  
0.3290

99.9953, 0.3127,  
0.3290

# Harmonies

## Analogous

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



83.2320, 0.4869, 0.4238



83.2320, 0.4244, 0.4859



83.2320, 0.3382, 0.5105

# Triad

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



83.2320, 0.4244, 0.4859



83.2320, 0.1544, 0.2561



83.2320, 0.3586, 0.2364

# Complementary

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



83.2320, 0.4244, 0.4859



11.9323, 0.1659, 0.0924

# 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.



83.2320, 0.2622, 0.1999



83.2320, 0.4244, 0.4859



83.2320, 0.1583, 0.2039

# Square

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



83.2320, 0.4244, 0.4859



83.2320, 0.1843, 0.3498



83.2320, 0.1937, 0.1877



83.2320, 0.4532, 0.2912



# Rectangle

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



83.2320, 0.4244, 0.4859



83.2320, 0.2782, 0.4845



83.2320, 0.1937, 0.1877



83.2320, 0.3246, 0.2218

# Sweetspot

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



83.2359, 0.4244, 0.4859



93.6486, 0.3501, 0.3848



24.0406, 0.5770, 0.3192



19.8655, 0.3559, 0.3932



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.



83.2359, 0.4244, 0.4859



81.1839, 0.4327, 0.4931



80.2878, 0.3551, 0.5387



20.8331, 0.3271, 0.3507



42.2713, 0.4337, 0.4938



4.1851, 0.4319, 0.4953



# Inverse Universe

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



11.9323, 0.1659, 0.0924



8.1821, 0.1527, 0.0671



14.8198, 0.2097, 0.1058



17.6060, 0.2978, 0.3064



4.1133, 0.1514, 0.0648

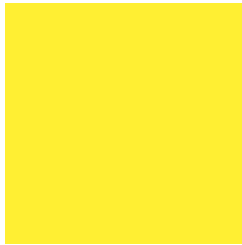


0.4756, 0.1543, 0.0755



# Previews

## White Background



This preview shows how the Yxy color 83.2320, 0.4244, 0.4859 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

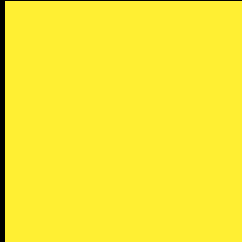
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 83.2320, 0.4244, 0.4859 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 83.2320, 0.4244, 0.4859**

## **Background**



This preview shows how black text looks on a background with the Yxy color 83.2320, 0.4244, 0.4859.



This preview shows how white text looks on a background with the Yxy color 83.2320, 0.4244, 0.4859.

# 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

83.2320, 0.4244, 0.4859

### Protanopia

83.3890, 0.3828, 0.4168

### Deuteranopia

83.2375, 0.3486, 0.3593



## Tritanopia

82.9199, 0.3250, 0.3192

# Trichromacy



## Original Color

83.2320, 0.4244, 0.4859



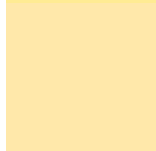
## Protanomaly

83.0206, 0.4022, 0.4482



## Deuteranomaly

82.7832, 0.3838, 0.4169



## Tritanomaly

81.8755, 0.3701, 0.3918

# Monochromacy



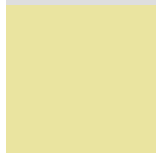
## Original Color

83.2320, 0.4244, 0.4859



## Achromatopsia

73.0461, 0.3127, 0.3290



## Achromatomaly

75.5173, 0.3622, 0.4021

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 83.2320, 0.4244, 0.4859 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, 239, 51)` looks like.

```
.text, #text, p{  
    color:rgb(255, 239, 51)  
}
```

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, 239, 51) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(255, 239, 51) }
```

## Border

The CSS property to change the border of an element to Yxy 83.2320, 0.4244, 0.4859 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, 239, 51) }
```

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

```
.border{ border-color:rgb(255, 239, 51) }
```

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

Here you see how a box with a 4 pixel `rgb(255, 239, 51)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(255, 239, 51); -webkit-box-  
shadow:4px 4px 4px 4px rgb(255, 239, 51);  
box-shadow:4px 4px 4px 4px rgb(255, 239,  
51) }
```



# Background

The CSS property to change the background color of an element to Yxy 83.2320, 0.4244, 0.4859 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(255, 239, 51) }
```

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

```
.background{ background-color: rgb(255,  
239, 51) }
```

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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