

# Converting Colors

Yxy(83.2312, 0.4239, 0.4851)

Have a look what the booklet for  
Yxy(83.2312, 0.4239, 0.4851)  
contains.

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# **Color**

**Yxy(83.2500, 0.4239, 0.4851)**

# Conversions

## Conversions Part 1

Format	Color
Hex	FFEF35
RGB	255, 239, 53
RGB Percent	100%, 94%, 21%
CMY	0.0001, 0.0627, 0.7917
CMYK	0.00, 0.06, 0.79, 0.00
HSL	55°, 100%, 60%
HSV	55°, 79%, 100%
XYZ	72.7472, 83.2500, 15.6169
YIQ	222.5800, 69.2420, -54.4540

# Conversions

## Conversions Part 2

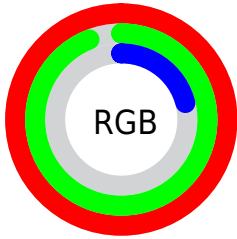
<b>Format</b>	<b>Color</b>
<b>RYB</b>	70, 255, 53
Decimal	16772917
CIELab	93.12, -13.00, 83.45
CIELCh	93, 84.460, 98.852
Yxy	83.2500, 0.4239, 0.4851
Android (android.graphics.Color)	4294962997 (0xFFFEF35)
YUV	222.5800, -83.6029, 28.4323
Hunter-Lab	91.2414, -17.3536, 53.7209

# Details

The Yxy color **83.2500, 0.4239, 0.4851** 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 **12.2478, 0.1669, 0.0944**, and the grayscale version is **74.0564, 0.3127, 0.3290**.

A 20% lighter version of the original color is **94.0410, 0.3917, 0.4595**, and **45.3363, 0.4296, 0.4971** is the 20% darker color. If you saturate the color by 10%, you get **81.9028, 0.4302, 0.4912**, and if you desaturate by 10%, it is **84.7430, 0.4148, 0.4744**.

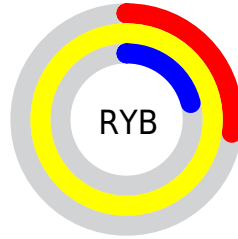
# Distribution



Red (100%)

Green (94%)

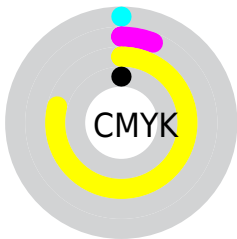
Blue (21%)



Red (27%)

Yellow (100%)

Blue (21%)

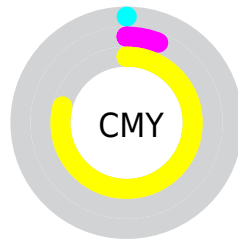


Cyan (0%)

Magenta (6%)

Yellow (79%)

Black (0%)



Cyan (0%)

Magenta (6%)


Yellow (79%)

# Brightness & Saturation Gradients

These gradients show how the Yxy color 83.2500, 0.4239, 0.4851 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 83.2500, 0.4239, 0.4851 by changing the saturation by 10% instead.





 83.2500, 0.4239,  
0.4851


 83.2500, 0.4239,  
0.4851


505.8193, 0.3815,  
0.4201


 62.3964, 0.4305,  
0.4970


 137.9256, 0.4116,  
0.4648

 45.3531, 0.4371,  
0.5099


 172.5163, 0.4060,  
0.4562


 31.7356, 0.4430,  
0.5237


 212.4549, 0.4010,  
0.4485

 21.1596, 0.4474,  
0.5381

 258.1257, 0.3964,  
0.4416

 13.2408, 0.4482,  
0.5518

 309.9132, 0.3921,  
0.4354

 7.5945, 0.4401,  
0.5599


368.2017, 0.3883,


 3.8366, 0.4277,

0.4298

0.5723


433.3756, 0.3847,  
0.4248

 1.5826, 0.4064,  
0.5936


 0.3458, 0.0320,  
0.9680


 83.2500, 0.4239,  
0.4851


 83.2500, 0.4239,  
0.4851


 81.9028, 0.4302,  
0.4912


 84.7430, 0.4148,  
0.4744

 80.6634, 0.4339,  
0.4933

 86.3874, 0.4032,  
0.4595

 80.5624, 0.4342,  
0.4935

 88.2018, 0.3895,  
0.4410

 90.1989, 0.3744,  
0.4198

■ 92.3903, 0.3585,  
0.3969

■ 94.7864, 0.3424,  
0.3733

■ 97.3972, 0.3266,  
0.3499

99.9971, 0.3127,  
0.3290

# Harmonies

## Analogous

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



83.2500, 0.4859, 0.4235



83.2500, 0.4239, 0.4851



83.2500, 0.3382, 0.5092

# Triad

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



83.2500, 0.4239, 0.4851



83.2500, 0.1552, 0.2566



83.2500, 0.3583, 0.2369

# Complementary

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



83.2500, 0.4239, 0.4851



12.2478, 0.1669, 0.0944

# 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.



83.2500, 0.2626, 0.2006



83.2500, 0.4239, 0.4851



83.2500, 0.1591, 0.2047

# Square

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



83.2500, 0.4239, 0.4851



83.2500, 0.1850, 0.3497



83.2500, 0.1944, 0.1884



83.2500, 0.4523, 0.2916



# Rectangle

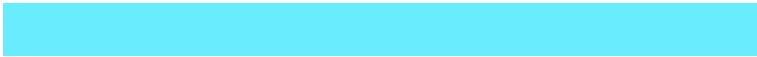
The Rectangle color scheme consists of four colors that form a rectangle on the color wheel.



83.2500, 0.4239, 0.4851



83.2500, 0.2785, 0.4833



83.2500, 0.1944, 0.1884



83.2500, 0.3246, 0.2224

# Sweetspot

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



83.2539, 0.4239, 0.4851



93.6147, 0.3501, 0.3848



24.2562, 0.5736, 0.3190



19.8572, 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.



83.2539, 0.4239, 0.4851



81.1808, 0.4326, 0.4928



80.4123, 0.3552, 0.5372



20.8302, 0.3271, 0.3507



42.2045, 0.4339, 0.4937



4.1793, 0.4321, 0.4951



# Inverse Universe

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



12.2478, 0.1669, 0.0944



8.3325, 0.1531, 0.0681



15.1147, 0.2109, 0.1074



17.6086, 0.2978, 0.3064



4.1181, 0.1514, 0.0649

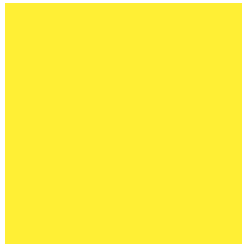


0.4768, 0.1544, 0.0756



# Previews

## White Background



This preview shows how the Yxy color 83.2500, 0.4239, 0.4851 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

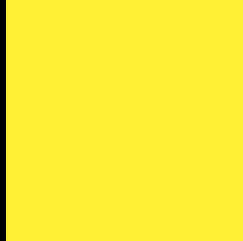
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 83.2500, 0.4239, 0.4851 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 83.2500, 0.4239, 0.4851**

## **Background**



This preview shows how black text looks on a background with the Yxy color 83.2500, 0.4239, 0.4851.



This preview shows how white text looks on a background with the Yxy color 83.2500, 0.4239, 0.4851.

# 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**

83.2500, 0.4239, 0.4851

**Protanopia**

83.3890, 0.3828, 0.4168

**Deuteranopia**

83.2375, 0.3486, 0.3593



## Tritanopia

82.9199, 0.3250, 0.3192

# Trichromacy



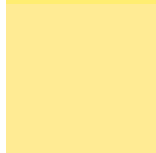
## Original Color

83.2500, 0.4239, 0.4851



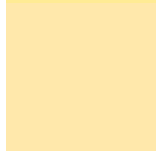
## Protanomaly

83.0206, 0.4022, 0.4482



## Deuteranomaly

82.8148, 0.3832, 0.4160



## Tritanomaly

81.9135, 0.3695, 0.3908

# Monochromacy



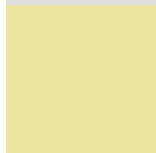
## Original Color

83.2500, 0.4239, 0.4851



## Achromatopsia

73.7910, 0.3127, 0.3290



## Achromatomaly

76.2740, 0.3620, 0.4019

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 83.2500, 0.4239, 0.4851 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, 53)` looks like.

```
.text, #text, p{  
    color:rgb(255, 239, 53)  
}
```

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, 53) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(255, 239, 53) }
```

## Border

The CSS property to change the border of an element to Yxy 83.2500, 0.4239, 0.4851 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, 53) }
```

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

```
.border{ border-color:rgb(255, 239, 53) }
```

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, 53)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(255, 239, 53); -webkit-box-  
shadow:4px 4px 4px 4px rgb(255, 239, 53);  
box-shadow:4px 4px 4px 4px rgb(255, 239,  
53) }
```



# Background

The CSS property to change the background color of an element to  $\text{Yxy } 83.2500, 0.4239, 0.4851$  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, 53) }
```

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

```
.background{ background-color: rgb(255,  
239, 53) }
```

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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