

# Converting Colors

$Y_{xy}(90.6780, 0.4459, 0.4659)$

Have a look what the booklet for  
Yxy(90.6780, 0.4459, 0.4659)  
contains.

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# **Color**

**Yxy(83.3192, 0.4221, 0.4823)**

# Conversions

## Conversions Part 1

Format	Color
Hex	FFEF3C
RGB	255, 239, 60
RGB Percent	100%, 94%, 24%
CMY	0.0000, 0.0627, 0.7646
CMYK	0.00, 0.06, 0.76, 0.00
HSL	55°, 100%, 62%
HSV	55°, 76%, 100%
XYZ	72.9194, 83.3192, 16.5153
YIQ	223.3780, 66.9950, -52.2770

# Conversions

## Conversions Part 2

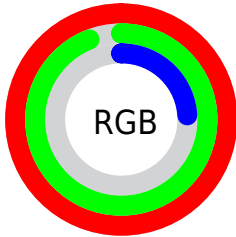
<b>Format</b>	<b>Color</b>
R <sub>Y</sub> B	77, 255, 60
Decimal	16772924
CIE Lab	93.15, -12.77, 81.54
CIE LCh	93, 82.529, 98.899
Yxy	83.3192, 0.4221, 0.4823
Android (android.graphics.Color)	4294963004 (0xFFFFEF3C)
YUV	223.3780, -80.5454, 27.7325
Hunter-Lab	91.2794, -17.1424, 53.1681

# Details

The Yxy color **83.3192, 0.4221, 0.4823** 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 **13.3488, 0.1706, 0.1013**, and the grayscale version is **74.6264, 0.3127, 0.3290**.

A 20% lighter version of the original color is **94.1605, 0.3893, 0.4557**, and **45.3363, 0.4296, 0.4971** is the 20% darker color. If you saturate the color by 10%, you get **81.8986, 0.4292, 0.4896**, and if you desaturate by 10%, it is **84.8916, 0.4122, 0.4705**.

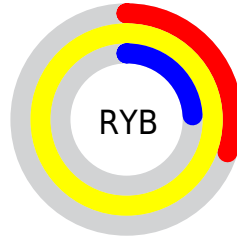
# Distribution



Red (100%)

Green (94%)

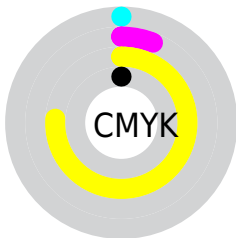
Blue (24%)



Red (30%)

Yellow (100%)

Blue (24%)

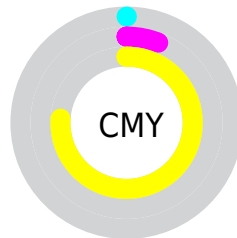


Cyan (0%)

Magenta (6%)

Yellow (76%)

Black (0%)



Cyan (0%)

Magenta (6%)


Yellow (76%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 83.3192, 0.4221, 0.4823 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 83.3192, 0.4221, 0.4823 by changing the saturation by 10% instead.




 83.3192, 0.4221,  
0.4823


 83.3192, 0.4221,  
0.4823


506.0497, 0.3800,  
0.4182

 62.4535, 0.4288,  
0.4942


 138.0224, 0.4097,  
0.4621

 45.3992, 0.4356,  
0.5072


 172.6288, 0.4042,  
0.4537

 31.7720, 0.4418,  
0.5212


 212.5841, 0.3992,  
0.4461

 21.1874, 0.4465,  
0.5357

 258.2729, 0.3946,  
0.4393

 13.2611, 0.4490,  
0.5510

 310.0794, 0.3905,  
0.4332

 7.6086, 0.4410,  
0.5590

368.3881, 0.3867,

 3.8455, 0.4288,

0.4277

0.5712

433.5834, 0.3832,  
0.4227

■ 1.5875, 0.4080,  
0.5920

■ 0.3492, 0.0548,  
0.9452

■ 83.3192, 0.4221,  
0.4823

■ 83.3192, 0.4221,  
0.4823

■ 81.8986, 0.4292,  
0.4896

■ 84.8916, 0.4122,  
0.4705

■ 80.5973, 0.4336,  
0.4926

■ 86.6205, 0.3999,  
0.4545

■ 80.1555, 0.4348,  
0.4930

■ 88.5239, 0.3857,  
0.4352

■ 90.6143, 0.3702,  
0.4135

■ 92.9029, 0.3542,  
0.3904

■ 95.3999, 0.3381,  
0.3668

■ 98.1150, 0.3224,  
0.3436

99.9978, 0.3127,  
0.3290

# Harmonies

## Analogous

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



83.3192, 0.4826, 0.4225



83.3192, 0.4221, 0.4823



83.3192, 0.3381, 0.5048

# Triad

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



83.3192, 0.4221, 0.4823



83.3192, 0.1581, 0.2584



83.3192, 0.3576, 0.2388

# Complementary

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



83.3192, 0.4221, 0.4823



13.3488, 0.1706, 0.1013

# 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.



83.3192, 0.2639, 0.2029



83.3192, 0.4221, 0.4823



83.3192, 0.1619, 0.2071

# Square

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



83.3192, 0.4221, 0.4823



83.3192, 0.1876, 0.3493



83.3192, 0.1967, 0.1910



83.3192, 0.4493, 0.2926



# Rectangle

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



83.3192, 0.4221, 0.4823



83.3192, 0.2795, 0.4791



83.3192, 0.1967, 0.1910



83.3192, 0.3246, 0.2245

# Sweetspot

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



83.3231, 0.4221, 0.4823



93.7530, 0.3486, 0.3822



25.0169, 0.5621, 0.3184



19.8794, 0.3544, 0.3907



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.



83.3231, 0.4221, 0.4823



81.1726, 0.4320, 0.4918



80.8092, 0.3555, 0.5323



20.8209, 0.3271, 0.3506



41.9936, 0.4345, 0.4932



4.1610, 0.4325, 0.4948



# Inverse Universe

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



13.3488, 0.1706, 0.1013



8.8655, 0.1549, 0.0719



16.1379, 0.2147, 0.1129



17.6168, 0.2979, 0.3064



4.1336, 0.1514, 0.0651

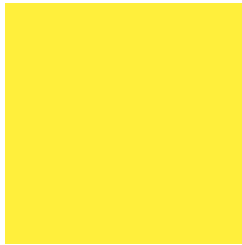


0.4807, 0.1545, 0.0762



# Previews

## White Background



This preview shows how the Yxy color 83.3192, 0.4221, 0.4823 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

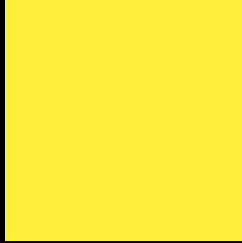
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 83.3192, 0.4221, 0.4823 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 83.3192, 0.4221, 0.4823**

## **Background**



This preview shows how black text looks on a background with the Yxy color 83.3192, 0.4221, 0.4823.



This preview shows how white text looks on a background with the Yxy color 83.3192, 0.4221, 0.4823.

# 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

83.3192, 0.4221, 0.4823

### Protanopia

83.4208, 0.3822, 0.4159

### Deuteranopia

83.2850, 0.3479, 0.3583



## Tritanopia

82.9199, 0.3250, 0.3192

# Trichromacy



## Original Color

83.3192, 0.4221, 0.4823



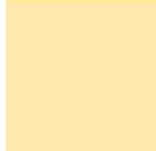
## Protanomaly

83.1127, 0.4001, 0.4450



## Deuteranomaly

82.9110, 0.3813, 0.4131



## Tritanomaly

81.9904, 0.3681, 0.3888

# Monochromacy



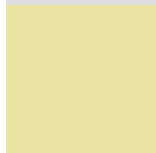
## Original Color

83.3192, 0.4221, 0.4823



## Achromatopsia

73.7910, 0.3127, 0.3290



## Achromatomaly

76.3811, 0.3600, 0.3987

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 83.3192, 0.4221, 0.4823 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, 60)` looks like.

```
.text, #text, p{  
    color:rgb(255, 239, 60)  
}
```

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, 60) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(255, 239, 60) }
```

## Border

The CSS property to change the border of an element to Yxy 83.3192, 0.4221, 0.4823 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, 60) }
```

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

```
.border{ border-color:rgb(255, 239, 60) }
```

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, 60)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(255, 239, 60); -webkit-box-  
shadow:4px 4px 4px 4px rgb(255, 239, 60);  
box-shadow:4px 4px 4px 4px rgb(255, 239,  
60) }
```



# Background

The CSS property to change the background color of an element to Yxy 83.3192, 0.4221, 0.4823 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, 60) }
```

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

```
.background{ background-color: rgb(255,  
239, 60) }
```

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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