

# Converting Colors

$Yxy(81.7823, 0.4262, 0.4842)$

Have a look what the booklet for  
Yxy(81.7823, 0.4262, 0.4842)  
contains.

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# **Color**

**Yxy(82.0674, 0.4258, 0.4846)**

# Conversions

## Conversions Part 1

Format	Color
Hex	FFED33
RGB	255, 237, 51
RGB Percent	100%, 93%, 20%
CMY	0.0002, 0.0705, 0.7999
CMYK	0.00, 0.07, 0.80, 0.00
HSL	55°, 100%, 60%
HSV	55°, 80%, 100%
XYZ	72.1096, 82.0674, 15.1738
YIQ	221.1780, 70.4340, -54.0300

# Conversions

## Conversions Part 2

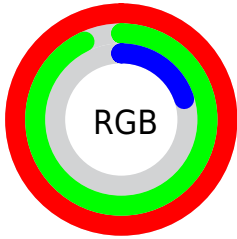
Format	Color
R <sub>Y</sub> B	71, 255, 51
Decimal	16772403
CIE Lab	92.60, -12.10, 83.56
CIE LCh	93, 84.430, 98.239
Yxy	82.0674, 0.4258, 0.4846
Android (android.graphics.Color)	4294962483 (0xFFFFE333)
YUV	221.1780, -83.8978, 29.6619
Hunter-Lab	90.5911, -16.4501, 53.4828

# Details

The Yxy color **82.0674, 0.4258, 0.4846** 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 **12.1724, 0.1663, 0.0940**, and the grayscale version is **73.0026, 0.3127, 0.3290**.

A 20% lighter version of the original color is **93.9949, 0.3926, 0.4610**, and **44.9252, 0.4306, 0.4963** is the 20% darker color. If you saturate the color by 10%, you get **80.6143, 0.4321, 0.4903**, and if you desaturate by 10%, it is **83.6676, 0.4167, 0.4744**.

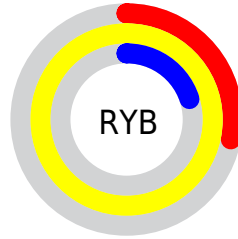
# Distribution



Red (100%)

Green (93%)

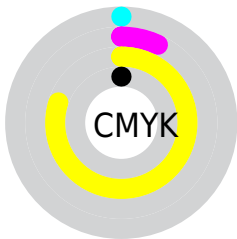
Blue (20%)



Red (28%)

Yellow (100%)

Blue (20%)

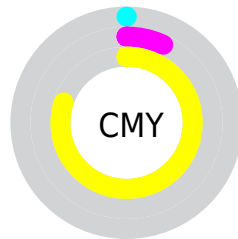


Cyan (0%)

Magenta (7%)

Yellow (80%)

Black (0%)



Cyan (0%)

Magenta (7%)

Yellow (80%)

# Brightness & Saturation Gradients

These gradients show how the Yxy color 82.0674, 0.4258, 0.4846 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 82.0674, 0.4258, 0.4846 by changing the saturation by 10% instead.




 82.0674, 0.4258,  
0.4846


 82.0674, 0.4258,  
0.4846


501.8731, 0.3825,  
0.4200

 61.4211, 0.4326,  
0.4963

 136.2685, 0.4132,  
0.4645

 44.5651, 0.4393,  
0.5091


 170.5921, 0.4075,  
0.4559


 31.1150, 0.4454,  
0.5226


 210.2436, 0.4024,  
0.4483

 20.6864, 0.4502,  
0.5369

 255.6074, 0.3977,  
0.4414

 12.8950, 0.4507,  
0.5493

 307.0678, 0.3933,  
0.4352

 7.3563, 0.4429,  
0.5571

365.0093, 0.3894,

 3.6859, 0.4311,

0.4296

0.5689

429.8163, 0.3858,  
0.4246

■ 1.4995, 0.4108,  
0.5892

■ 0.2883, 0.0000,  
1.0000

■ 82.0674, 0.4258,  
0.4846

■ 82.0674, 0.4258,  
0.4846

■ 80.6143, 0.4321,  
0.4903

■ 83.6676, 0.4167,  
0.4744


■ 79.2677, 0.4360,  
0.4920


■ 85.4210, 0.4050,  
0.4599

■ 79.2660, 0.4360,  
0.4920

■ 87.3462, 0.3912,  
0.4417

■ 89.4562, 0.3760,  
0.4208

 91.7626, 0.3600,  
0.3982

 94.2761, 0.3438,  
0.3749

 97.0064, 0.3279,  
0.3516

99.9627, 0.3127,  
0.3290

99.9912, 0.3127,  
0.3290

# Harmonies

## Analogous

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



82.0674, 0.4874, 0.4223



82.0674, 0.4258, 0.4846



82.0674, 0.3400, 0.5103

# Triad

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



82.0674, 0.4258, 0.4846



82.0674, 0.1549, 0.2578



82.0674, 0.3564, 0.2356

# Complementary

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



82.0674, 0.4258, 0.4846



12.1724, 0.1663, 0.0940

# 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.



82.0674, 0.2606, 0.1996



82.0674, 0.4258, 0.4846



82.0674, 0.1582, 0.2048

# Square

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



82.0674, 0.4258, 0.4846



82.0674, 0.1855, 0.3520



82.0674, 0.1929, 0.1880



82.0674, 0.4513, 0.2901



# Rectangle

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



82.0674, 0.4258, 0.4846



82.0674, 0.2800, 0.4855



82.0674, 0.1929, 0.1880



82.0674, 0.3226, 0.2212

# Sweetspot

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



82.0713, 0.4258, 0.4846



93.2804, 0.3502, 0.3843



24.0813, 0.5730, 0.3168



19.7754, 0.3560, 0.3926



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.



82.0713, 0.4258, 0.4846



79.8290, 0.4346, 0.4916



80.6575, 0.3573, 0.5370



20.8014, 0.3271, 0.3505



41.5484, 0.4357, 0.4923



4.1223, 0.4336, 0.4939



# Inverse Universe

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



12.1724, 0.1663, 0.0940



8.3041, 0.1529, 0.0679



14.5406, 0.2071, 0.1044



17.6344, 0.2979, 0.3066



4.1679, 0.1516, 0.0656

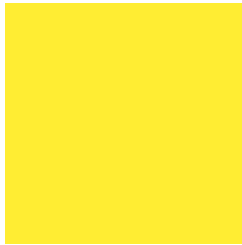


0.4890, 0.1548, 0.0773



# Previews

## White Background



This preview shows how the Yxy color 82.0674, 0.4258, 0.4846 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

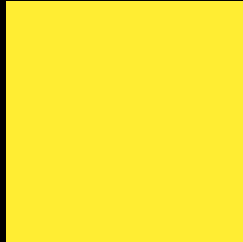
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 82.0674, 0.4258, 0.4846 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 82.0674, 0.4258, 0.4846**

## Background



This preview shows how black text looks on a background with the Yxy color 82.0674, 0.4258, 0.4846.



This preview shows how white text looks on a background with the Yxy color 82.0674, 0.4258, 0.4846.

# 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

82.0674, 0.4258, 0.4846

### Protanopia

81.9118, 0.3903, 0.4253

### Deuteranopia

81.9308, 0.3517, 0.3614



## Tritanopia

81.7088, 0.3265, 0.3192

# Trichromacy



## Original Color

82.0674, 0.4258, 0.4846



## Protanomaly

81.7173, 0.4068, 0.4520



## Deuteranomaly

81.5822, 0.3859, 0.4170



## Tritanomaly

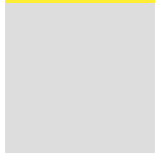
80.7182, 0.3714, 0.3909

# Monochromacy



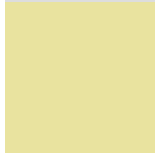
## Original Color

82.0674, 0.4258, 0.4846



## Achromatopsia

72.3055, 0.3127, 0.3290



## Achromatomaly

74.7650, 0.3624, 0.4024

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 82.0674, 0.4258, 0.4846 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, 237, 51)` looks like.

```
.text, #text, p{  
    color:rgb(255, 237, 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, 237, 51) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(255, 237, 51) }
```

## Border

The CSS property to change the border of an element to Yxy 82.0674, 0.4258, 0.4846 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, 237, 51) }
```

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

```
.border{ border-color:rgb(255, 237, 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, 237, 51)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(255, 237, 51); -webkit-box-  
shadow:4px 4px 4px 4px rgb(255, 237, 51);  
box-shadow:4px 4px 4px 4px rgb(255, 237,  
51) }
```



# Background

The CSS property to change the background color of an element to Yxy 82.0674, 0.4258, 0.4846 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(255, 237, 51) }
```

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

```
.background{ background-color: rgb(255,  
237, 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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