

# Converting Colors

$Y_{xy}(81.7850, 0.4325, 0.4948)$

Have a look what the booklet for  
Yxy(81.7850, 0.4325, 0.4948)  
contains.

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# **Color**

**Yxy(81.8284, 0.4325, 0.4948)**

# Conversions

## Conversions Part 1

Format	Color
Hex	FFED00
RGB	255, 237, 0
RGB Percent	100%, 93%, 0%
CMY	0.0000, 0.0706, 1.0000
CMYK	0.00, 0.07, 1.00, 0.00
HSL	56°, 100%, 50%
HSV	56°, 100%, 100%
XYZ	71.5254, 81.8284, 12.0229
YIQ	215.3640, 86.8050, -69.8910

# Conversions

## Conversions Part 2

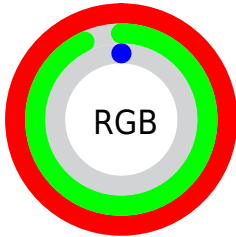
Format	Color
R <sub>Y</sub> B	19, 255, 0
Decimal	16772352
CIE Lab	92.50, -12.88, 91.12
CIE LCh	92, 92.023, 98.045
Yxy	81.8284, 0.4325, 0.4948
Android (android.graphics.Color)	4294962432 (0xFFFFE000)
YUV	215.3640, -106.1745, 34.7608
Hunter-Lab	90.4591, -17.1645, 55.4411

# Details

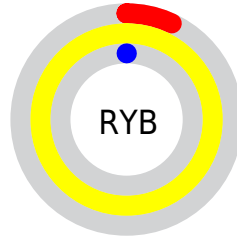
The Yxy color **81.8284, 0.4325, 0.4948** is a light color, and the websafe version is hex **FFFF33**. The color can be described as light saturated yellow. A complement of this color would be **7.6524, 0.1509, 0.0632**, and the grayscale version is **68.9075, 0.3127, 0.3290**.

A 20% lighter version of the original color is **93.5703, 0.4013, 0.4755**, and **44.7934, 0.4297, 0.4970** is the 20% darker color. If you saturate the color by 10%, you get **81.8315, 0.4325, 0.4948**, and if you desaturate by 10%, it is **82.9512, 0.4291, 0.4928**.

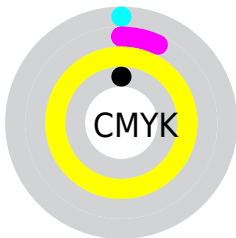
# Distribution



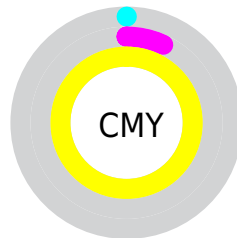
- Red (100%)
- Green (93%)
- Blue (0%)



- Red (7%)
- Yellow (100%)
- Blue (0%)



- Cyan (0%)
- Magenta (7%)
- Yellow (100%)
- Black (0%)




- Cyan (0%)
- Magenta (7%)
- Yellow (100%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 81.8284, 0.4325, 0.4948 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 81.8284, 0.4325, 0.4948 by changing the saturation by 10% instead.




 81.8284, 0.4325,  
0.4948


 81.8284, 0.4325,  
0.4948


501.0735, 0.3884,  
0.4277


 61.2241, 0.4388,  
0.5063


 135.9333, 0.4202,  
0.4744

 44.4060, 0.4446,  
0.5185


 170.2028, 0.4145,  
0.4656


 30.9899, 0.4491,  
0.5308


 209.7960, 0.4092,  
0.4576

 20.5911, 0.4540,  
0.5460

 255.0975, 0.4043,  
0.4504

 12.8255, 0.4482,  
0.5518

 306.4916, 0.3998,  
0.4439

 7.3085, 0.4399,  
0.5601

 364.3627, 0.3957,

 3.6558, 0.4272,

0.4380

0.5728

429.0952, 0.3919,  
0.4326

■ 1.4829, 0.4054,  
0.5946

■ 0.2767, 0.0000,  
1.0000

■ 81.8284, 0.4325,  
0.4948

■ 81.8284, 0.4325,  
0.4948


■ 81.8315, 0.4325,  
0.4948


■ 82.9512, 0.4291,  
0.4928


■ 84.1756, 0.4233,  
0.4869


■ 85.5337, 0.4147,  
0.4766

■ 87.0430, 0.4035,  
0.4619

 88.7185, 0.3902,  
0.4435

 90.5731, 0.3754,  
0.4224

 92.6184, 0.3596,  
0.3994

 94.8648, 0.3436,  
0.3757

 97.3224, 0.3279,  
0.3520

# Harmonies

## Analogous

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



81.8284, 0.5002, 0.4253



81.8284, 0.4325, 0.4948



81.8284, 0.3403, 0.5276

# Triad

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



81.8284, 0.4325, 0.4948



81.8284, 0.1440, 0.2511



81.8284, 0.3589, 0.2284

# Complementary

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



81.8284, 0.4325, 0.4948



7.6524, 0.1509, 0.0632

# 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.



81.8284, 0.2553, 0.1906



81.8284, 0.4325, 0.4948



81.8284, 0.1477, 0.1954

# Square

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



81.8284, 0.4325, 0.4948



81.8284, 0.1756, 0.3539



81.8284, 0.1837, 0.1782



81.8284, 0.4632, 0.2857



# Rectangle

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



81.8284, 0.4325, 0.4948



81.8284, 0.2761, 0.5025



81.8284, 0.1837, 0.1782



81.8284, 0.3220, 0.2132

# Sweetspot

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



81.8315, 0.4325, 0.4948



92.6184, 0.3596, 0.3994



21.3151, 0.6332, 0.3262



19.6344, 0.3663, 0.4093



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.



81.8315, 0.4325, 0.4948



77.8861, 0.3474, 0.5624



20.8583, 0.3271, 0.3509



42.8518, 0.4322, 0.4950



4.2355, 0.4306, 0.4963

# Inverse Universe

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



7.6524, 0.1509, 0.0632



10.2995, 0.1853, 0.0794



17.5835, 0.2978, 0.3062



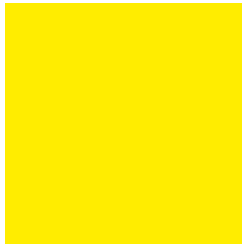
4.0733, 0.1512, 0.0643



0.4650, 0.1539, 0.0740

# Previews

## White Background



This preview shows how the Yxy color 81.8284, 0.4325, 0.4948 looks on a white background.

## Color Contrast Check

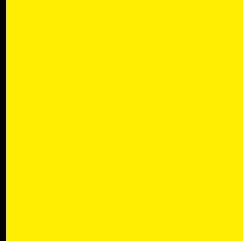
Large Text (above 18pt) WCAG AA × Fail

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 81.8284, 0.4325, 0.4948 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 81.8284, 0.4325, 0.4948**

## **Background**



This preview shows how black text looks on a background with the Yxy color 81.8284, 0.4325, 0.4948.



This preview shows how white text looks on a background with the Yxy color 81.8284, 0.4325, 0.4948.



# 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

81.8284, 0.4325, 0.4948

### Protanopia

81.8269, 0.3921, 0.4280

### Deuteranopia

81.8848, 0.3524, 0.3624



## Tritanopia

81.7088, 0.3265, 0.3192

# Trichromacy



## Original Color

81.8284, 0.4325, 0.4948



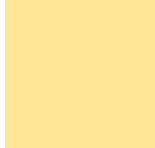
## Protanomaly

81.3325, 0.4162, 0.4664



## Deuteranomaly

81.0185, 0.3978, 0.4350



## Tritanomaly

80.0556, 0.3839, 0.4096

# Monochromacy



## Original Color

81.8284, 0.4325, 0.4948



## Achromatopsia

67.9542, 0.3127, 0.3290



## Achromatomaly

71.4045, 0.3759, 0.4224

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 81.8284, 0.4325, 0.4948 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, 0)` looks like.

```
.text, #text, p{  
    color:rgb(255, 237, 0)  
}
```

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, 0) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(255, 237, 0) }
```

## Border

The CSS property to change the border of an element to Yxy 81.8284, 0.4325, 0.4948 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, 0) }
```

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

```
.border{ border-color:rgb(255, 237, 0) }
```

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, 0)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(255, 237, 0); -webkit-box-  
shadow:4px 4px 4px 4px rgb(255, 237, 0);  
box-shadow:4px 4px 4px 4px rgb(255, 237,  
0) }
```

# Background

The CSS property to change the background color of an element to Yxy 81.8284, 0.4325, 0.4948 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, 0) }
```

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

```
.background{ background-color: rgb(255,  
237, 0) }
```

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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