

# Converting Colors

$Y_{xy}(77.1890, 0.4267, 0.4699)$

Have a look what the booklet for  
Yxy(77.1890, 0.4267, 0.4699)  
contains.

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# Color

**Yxy(77.1890, 0.4267, 0.4699)**

# Conversions

## Conversions Part 1

Format	Color
Hex	FFE446
RGB	255, 228, 70
RGB Percent	100%, 89%, 27%
CMY	0.0000, 0.1059, 0.7258
CMYK	0.00, 0.11, 0.73, 0.00
HSL	51°, 100%, 64%
HSV	51°, 73%, 100%
XYZ	70.0927, 77.1890, 16.9852
YIQ	218.0610, 66.8100, -43.4140

# Conversions

## Conversions Part 2

<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	102, 255, 70
Decimal	16770118
CIE Lab	90.41, -6.92, 75.80
CIE LCh	90, 76.116, 95.220
Yxy	77.1890, 0.4267, 0.4699
Android (android.graphics.Color)	4294960198 (0xFFFFE446)
YUV	218.0610, -72.9941, 32.3955
Hunter-Lab	87.8573, -11.3426, 50.0377

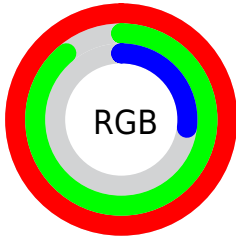
# Details

The Yxy color **77.1890, 0.4267, 0.4699** is a light color, and the websafe version is hex **FFCC33**.

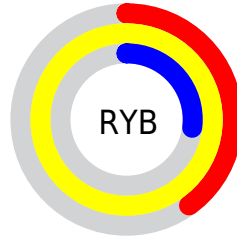
The color can be described as light washed yellow. A complement of this color would be **17.0539, 0.1794, 0.1231**, and the grayscale version is **70.6278, 0.3127, 0.3290**.

A 20% lighter version of the original color is **94.3385, 0.3860, 0.4501**, and **41.3565, 0.4398, 0.4890** is the 20% darker color. If you saturate the color by 10%, you get **74.9078, 0.4369, 0.4783**, and if you desaturate by 10%, it is **79.6503, 0.4138, 0.4571**.

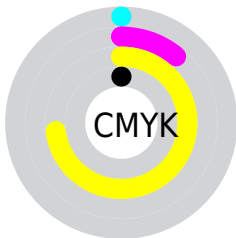
# Distribution



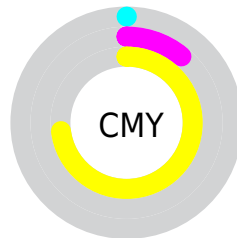
- Red (100%)
- Green (89%)
- Blue (27%)



- Red (40%)
- Yellow (100%)
- Blue (27%)



- Cyan (0%)
- Magenta (11%)
- Yellow (73%)
- Black (0%)




- Cyan (0%)
- Magenta (11%)
- Yellow (73%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 77.1890, 0.4267, 0.4699 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 77.1890, 0.4267, 0.4699 by changing the saturation by 10% instead.





 77.1890, 0.4267,  
0.4699


 77.1890, 0.4267,  
0.4699

485.4082, 0.3806,  
0.4104

 57.4080, 0.4347,  
0.4810

 129.4062, 0.4126,  
0.4511

 41.3329, 0.4431,  
0.4932


 162.6113, 0.4066,  
0.4432


 28.5793, 0.4515,  
0.5063

 201.0598, 0.4011,  
0.4362

 18.7628, 0.4589,  
0.5196

 245.1362, 0.3962,  
0.4299

 11.4990, 0.4657,  
0.5343

 295.2248, 0.3917,  
0.4243

 6.4035, 0.4610,  
0.5390

351.7101, 0.3876,

 3.0920, 0.4536,

0.4192

0.5464

414.9764, 0.3840,  
0.4146

■ 1.1799, 0.4405,  
0.5595

■ 0.0452, 0.0000,  
1.0000

■ 77.1890, 0.4267,  
0.4699

■ 77.1890, 0.4267,  
0.4699

■ 74.9078, 0.4369,  
0.4783

■ 79.6503, 0.4138,  
0.4571

■ 72.7884, 0.4443,  
0.4820

■ 82.3081, 0.3988,  
0.4405

■ 71.2998, 0.4482,  
0.4823

■ 85.1758, 0.3825,  
0.4211

■ 88.2654, 0.3656,  
0.3999

■ 91.5881, 0.3486,  
0.3778

■ 95.1541, 0.3322,  
0.3558

■ 98.9728, 0.3166,  
0.3344

■ 100.0000, 0.3127,  
0.3290

# Harmonies

## Analogous

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



77.1890, 0.4792, 0.4121



77.1890, 0.4267, 0.4699



77.1890, 0.3484, 0.4957

# Triad

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



77.1890, 0.4267, 0.4699



77.1890, 0.1665, 0.2713



77.1890, 0.3440, 0.2376

# Complementary

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



77.1890, 0.4267, 0.4699



17.0539, 0.1794, 0.1231

# 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.



77.1890, 0.2571, 0.2056



77.1890, 0.4267, 0.4699



77.1890, 0.1662, 0.2171

# Square

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



77.1890, 0.4267, 0.4699



77.1890, 0.1996, 0.3611



77.1890, 0.1962, 0.1974



77.1890, 0.4329, 0.2879



# Rectangle

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



77.1890, 0.4267, 0.4699



77.1890, 0.2921, 0.4769



77.1890, 0.1962, 0.1974



77.1890, 0.3131, 0.2245

# Sweetspot

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



77.1887, 0.4267, 0.4699



91.7881, 0.3477, 0.3766



26.5064, 0.5285, 0.3071



19.4477, 0.3522, 0.3826



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.



77.1887, 0.4267, 0.4699



73.9523, 0.4406, 0.4805



82.9371, 0.3639, 0.5190



20.6124, 0.3273, 0.3491



37.4280, 0.4477, 0.4827



3.7621, 0.4439, 0.4857



# Inverse Universe

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



17.0539, 0.1794, 0.1231



11.3856, 0.1613, 0.0892



16.7165, 0.2108, 0.1168



17.8052, 0.2979, 0.3080



4.5983, 0.1532, 0.0716



0.5692, 0.1578, 0.0881



# Previews

## White Background



This preview shows how the Yxy color 77.1890, 0.4267, 0.4699 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

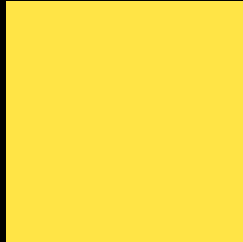
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 77.1890, 0.4267, 0.4699 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 77.1890, 0.4267, 0.4699**

## **Background**



This preview shows how black text looks on a background with the Yxy color 77.1890, 0.4267, 0.4699.



This preview shows how white text looks on a background with the Yxy color 77.1890, 0.4267, 0.4699.

# 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

77.1890, 0.4267, 0.4699

### Protanopia

77.1890, 0.4267, 0.4699

### Deuteranopia

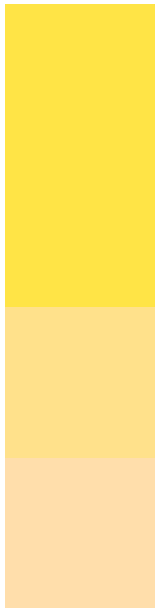
77.2900, 0.3667, 0.3741



## Tritanopia

77.0600, 0.3321, 0.3181

# Trichromacy



## Original Color

77.1890, 0.4267, 0.4699

## Protanomaly

77.1890, 0.4267, 0.4699

## Deuteranomaly

76.9745, 0.3931, 0.4155

## Tritanomaly

76.4428, 0.3726, 0.3813

# Monochromacy



## Original Color

77.1890, 0.4267, 0.4699

## Achromatopsia

70.1102, 0.3127, 0.3290

## Achromatomaly

71.9118, 0.3590, 0.3925

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 77.1890, 0.4267, 0.4699 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, 228, 70)` looks like.

```
.text, #text, p{  
    color:rgb(255, 228, 70)  
}
```

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, 228, 70) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(255, 228, 70) }
```

## Border

The CSS property to change the border of an element to Yxy 77.1890, 0.4267, 0.4699 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, 228, 70) }
```

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

```
.border{ border-color:rgb(255, 228, 70) }
```

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

Here you see how a box with a 4 pixel `rgb(255, 228, 70)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(255, 228, 70); -webkit-box-  
shadow:4px 4px 4px 4px rgb(255, 228, 70);  
box-shadow:4px 4px 4px 4px rgb(255, 228,  
70) }
```



# Background

The CSS property to change the background color of an element to Yxy 77.1890, 0.4267, 0.4699 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(255, 228, 70) }
```

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

```
.background{ background-color: rgb(255,  
228, 70) }
```

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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