

# Converting Colors

$Y_{xy}(77.8725, 0.3856, 0.4308)$

Have a look what the booklet for  
Yxy(77.8725, 0.3856, 0.4308)  
contains.

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# Color

**Yxy(77.8725, 0.3856, 0.4308)**

# Conversions

## Conversions Part 1

Format	Color
Hex	F3E784
RGB	243, 231, 132
RGB Percent	95%, 91%, 52%
CMY	0.0471, 0.0941, 0.4823
CMYK	0.00, 0.05, 0.46, 0.05
HSL	54°, 82%, 74%
HSV	54°, 46%, 95%
XYZ	69.7020, 77.8725, 33.1880
YIQ	223.3020, 38.9310, -28.2450

# Conversions

## Conversions Part 2

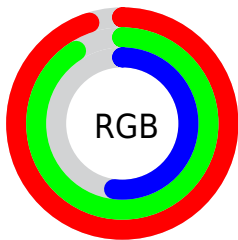
Format	Color
<a href="#">RYB</a>	<a href="#">145, 243, 132</a>
Decimal	<a href="#">15984516</a>
CIELab	<a href="#">90.72, -9.12, 49.41</a>
CIELCh	<a href="#">91, 50.239, 100.454</a>
Yxy	<a href="#">77.8725, 0.3856, 0.4308</a>
Android (android.graphics.Color)	<a href="#">4294174596 (0xFFFF3E784)</a>
YUV	<a href="#">223.3020, -45.0119, 17.2751</a>
Hunter-Lab	<a href="#">88.2454, -13.4384, 39.4735</a>

# Details

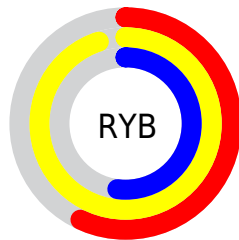
The Yxy color **77.8725, 0.3856, 0.4308** is a light color, and the websafe version is hex **FFFF99**. A complement of this color would be **31.3214, 0.2287, 0.2009**, and the grayscale version is **74.3255, 0.3127, 0.3290**.

A 20% lighter version of the original color is **96.3679, 0.3532, 0.3959**, and **41.9441, 0.3991, 0.4527** is the 20% darker color. If you saturate the color by 10%, you get **75.8282, 0.4006, 0.4500**, and if you desaturate by 10%, it is **80.1010, 0.3696, 0.4094**.

# Distribution



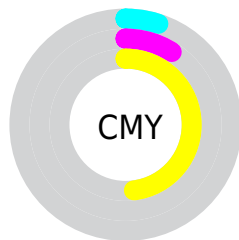
- Red (95%)
- Green (91%)
- Blue (52%)



- Red (57%)
- Yellow (95%)
- Blue (52%)



- Cyan (0%)
- Magenta (5%)
- Yellow (46%)
- Black (5%)



- Cyan (5%)
- Magenta (9%)
- Yellow (48%)

# Brightness & Saturation Gradients

These gradients show how the Yxy color 77.8725, 0.3856, 0.4308 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 77.8725, 0.3856, 0.4308 by changing the saturation by 10% instead.





 77.8725, 0.3856,  
0.4308


 77.8725, 0.3856,  
0.4308


487.7337, 0.3540,  
0.3847


 57.9692, 0.3920,  
0.4407


 130.3704, 0.3752,  
0.4152

 41.7839, 0.3995,  
0.4526


 163.7338, 0.3710,  
0.4090

 28.9321, 0.4081,  
0.4669


 202.3527, 0.3673,  
0.4037

 19.0295, 0.4179,  
0.4842

246.6115, 0.3640,  
0.3989

 11.6916, 0.4283,  
0.5051

296.8946, 0.3611,  
0.3948

 6.5340, 0.4434,  
0.5361

353.5864, 0.3585,

 3.1724, 0.4431,

0.3911

0.5569

417.0713, 0.3562,  
0.3877

■ 1.2224, 0.4260,  
0.5740

■ 0.0799, 0.0000,  
1.0000

■ 77.8725, 0.3856,  
0.4308

■ 77.8725, 0.3856,  
0.4308

■ 75.8282, 0.4006,  
0.4500

■ 80.1010, 0.3696,  
0.4094

■ 73.9462, 0.4138,  
0.4660


■ 82.5128, 0.3532,  
0.3868

■ 72.2177, 0.4247,  
0.4779


■ 85.1206, 0.3369,  
0.3639


■ 70.6283, 0.4329,  
0.4854


■ 87.9330, 0.3212,  
0.3414

 69.1600, 0.4383,  
0.4884


 90.9579, 0.3064,  
0.3198

 68.5507, 0.4400,  
0.4888

 92.6458, 0.3055,  
0.3209

 94.2603, 0.3055,  
0.3235

 95.8974, 0.3054,  
0.3261

 97.5574, 0.3054,  
0.3286

# Harmonies

## Analogous

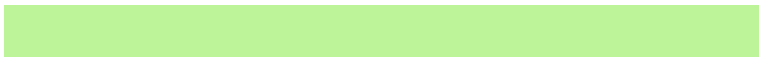
The Analogous color harmony consists of three colors that are next to each other on the color wheel.



77.8725, 0.4226, 0.3993



77.8725, 0.3856, 0.4308



77.8725, 0.3309, 0.4341

# Triad

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



77.8725, 0.3856, 0.4308



77.8725, 0.2088, 0.2850



77.8725, 0.3455, 0.2710

# Complementary

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



77.8725, 0.3856, 0.4308



31.3214, 0.2287, 0.2009

# 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.



77.8725, 0.2857, 0.2448



77.8725, 0.3856, 0.4308



77.8725, 0.2118, 0.2491

# Square

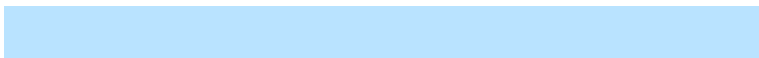
The Square scheme is like the rectangle color scheme, but the four colors are evenly spaced on the color wheel.



77.8725, 0.3856, 0.4308



77.8725, 0.2303, 0.3407



77.8725, 0.2383, 0.2364



77.8725, 0.4002, 0.3100

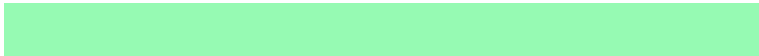


# Rectangle

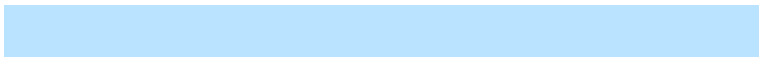
The Rectangle color scheme consists of four colors that form a rectangle on the color wheel.



77.8725, 0.3856, 0.4308



77.8725, 0.2923, 0.4149



77.8725, 0.2383, 0.2364



77.8725, 0.3251, 0.2605

# Sweetspot

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



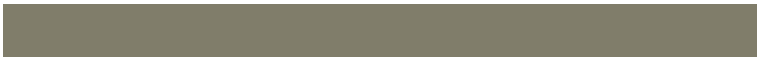
77.8761, 0.3856, 0.4308



95.4747, 0.3343, 0.3602



37.6009, 0.4218, 0.3152



20.2950, 0.3377, 0.3651



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.



77.8761, 0.3856, 0.4308



84.7249, 0.3998, 0.4490



78.1060, 0.3497, 0.4541



18.9898, 0.3271, 0.3499



37.7463, 0.4397, 0.4891



3.4034, 0.4368, 0.4914



# Inverse Universe

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



31.3214, 0.2287, 0.2009



26.7861, 0.2094, 0.1697



32.0370, 0.2580, 0.1968



16.2147, 0.2979, 0.3072



4.0556, 0.1521, 0.0676

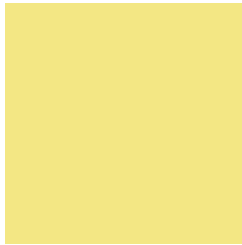


0.4497, 0.1563, 0.0828



# Previews

## White Background



This preview shows how the Yxy color 77.8725, 0.3856, 0.4308 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

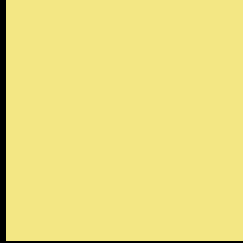
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 77.8725, 0.3856, 0.4308 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

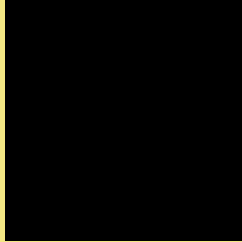
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

If you want to check with other color combinations, try the [Color Contrast Checker](#).

**Yxy 77.8725, 0.3856, 0.4308**

## **Background**



This preview shows how black text looks on a background with the Yxy color 77.8725, 0.3856, 0.4308.

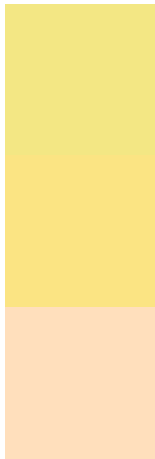


This preview shows how white text looks on a background with the Yxy color 77.8725, 0.3856, 0.4308.

# 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

77.8725, 0.3856, 0.4308

### Protanopia

77.6347, 0.3937, 0.4267

### Deuteranopia

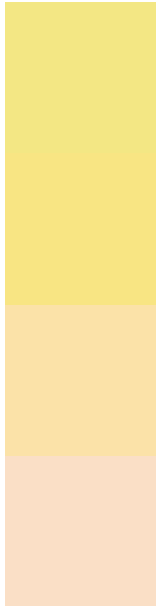
77.6662, 0.3603, 0.3648



## Tritanopia

77.7900, 0.3264, 0.3121

# Trichromacy



## Original Color

77.8725, 0.3856, 0.4308

## Protanomaly

77.6338, 0.3909, 0.4285

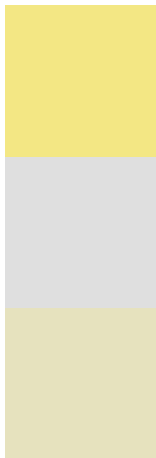
## Deuteranomaly

77.7291, 0.3704, 0.3888

## Tritanomaly

77.1766, 0.3495, 0.3548

# Monochromacy



## Original Color

77.8725, 0.3856, 0.4308

## Achromatopsia

73.7910, 0.3127, 0.3290

## Achromatomaly

74.9334, 0.3395, 0.3681

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 77.8725, 0.3856, 0.4308 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(243, 231, 132)` looks like.

```
.text, #text, p{  
    color:rgb(243, 231, 132)  
}
```

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(243, 231, 132) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(243, 231, 132) }
```

## Border

The CSS property to change the border of an element to Yxy 77.8725, 0.3856, 0.4308 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(243, 231, 132) }
```

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

```
.border{ border-color:rgb(243, 231, 132) }
```

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

Here you see how a box with a 4 pixel rgb(243, 231, 132) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(243, 231, 132); -webkit-box-  
shadow:4px 4px 4px 4px rgb(243, 231, 132);  
box-shadow:4px 4px 4px 4px rgb(243, 231,  
132) }
```



# Background

The CSS property to change the background color of an element to Yxy 77.8725, 0.3856, 0.4308 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(243, 231, 132) }
```

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

```
.background{ background-color: rgb(243,  
231, 132) }
```

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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