

# Converting Colors

$Y_{xy}(78.5389, 0.4131, 0.4525)$

Have a look what the booklet for  
Yxy(78.5389, 0.4131, 0.4525)  
contains.

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# Color

**Yxy(78.7737, 0.4127, 0.4525)**

# Conversions

## Conversions Part 1

Format	Color
Hex	FFE664
RGB	255, 230, 100
RGB Percent	100%, 90%, 39%
CMY	0.0000, 0.0981, 0.6080
CMYK	0.00, 0.10, 0.61, 0.00
HSL	50°, 100%, 70%
HSV	50°, 61%, 100%
XYZ	71.8451, 78.7737, 23.4667
YIQ	222.6550, 56.6300, -35.1300

# Conversions

## Conversions Part 2

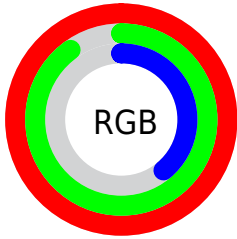
Format	Color
R <sub>Y</sub> B	130, 255, 100
Decimal	16770660
CIE Lab	91.13, -6.31, 64.80
CIE LCh	91, 65.105, 95.561
Yxy	78.7737, 0.4127, 0.4525
Android (android.graphics.Color)	4294960740 (0xFFFFE664)
YUV	222.6550, -60.4689, 28.3666
Hunter-Lab	88.7545, -10.8282, 46.4519

# Details

The Yxy color **78.7737, 0.4127, 0.4525** is a light color, and the websafe version is hex **FFFF66**. A complement of this color would be **24.5888, 0.2003, 0.1608**, and the grayscale version is **73.9366, 0.3127, 0.3290**.

A 20% lighter version of the original color is **95.1466, 0.3717, 0.4265**, and **42.4365, 0.4292, 0.4759** is the 20% darker color. If you saturate the color by 10%, you get **76.0901, 0.4265, 0.4659**, and if you desaturate by 10%, it is **81.6605, 0.3970, 0.4356**.

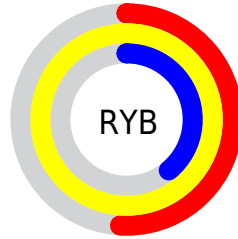
# Distribution



Red (100%)

Green (90%)

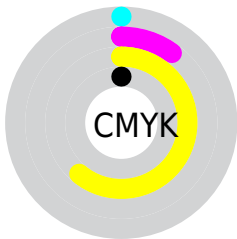
Blue (39%)



Red (51%)

Yellow (100%)

Blue (39%)

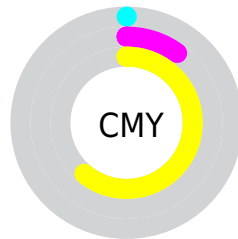


Cyan (0%)

Magenta (10%)

Yellow (61%)

Black (0%)



Cyan (0%)

Magenta (10%)

Yellow (61%)

# Brightness & Saturation Gradients

These gradients show how the Yxy color 78.7737, 0.4127, 0.4525 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 78.7737, 0.4127, 0.4525 by changing the saturation by 10% instead.





 78.7737, 0.4127,  
0.4525


 78.7737, 0.4127,  
0.4525


490.7904, 0.3708,  
0.3989


 58.7098, 0.4206,  
0.4632


 131.6402, 0.3994,  
0.4351

 42.3795, 0.4294,  
0.4754


 165.2116, 0.3938,  
0.4279

 29.3986, 0.4390,  
0.4892


 204.0543, 0.3889,  
0.4216

 19.3826, 0.4488,  
0.5044

 248.5526, 0.3845,  
0.4160

 11.9470, 0.4591,  
0.5222

299.0910, 0.3805,  
0.4110

 6.7076, 0.4637,  
0.5363

356.0538, 0.3769,

 3.2799, 0.4572,

0.4066

0.5428

419.8255, 0.3737,  
0.4026

■ 1.2796, 0.4459,  
0.5541

■ 0.1253, 0.0000,  
1.0000

■ 78.7737, 0.4127,  
0.4525

■ 78.7737, 0.4127,  
0.4525

■ 76.0901, 0.4265,  
0.4659

■ 81.6605, 0.3970,  
0.4356

■ 73.6023, 0.4378,  
0.4749


■ 84.7718, 0.3801,  
0.4160

■ 71.2893, 0.4462,  
0.4792

■ 88.1169, 0.3629,  
0.3949

■ 69.2885, 0.4517,  
0.4796

■ 91.7070, 0.3458,  
0.3731

 95.5520, 0.3294,  
0.3515

99.6616, 0.3139,  
0.3306

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.



78.7737, 0.4566, 0.4052



78.7737, 0.4127, 0.4525



78.7737, 0.3452, 0.4694

# Triad

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



78.7737, 0.4127, 0.4525



78.7737, 0.1850, 0.2805



78.7737, 0.3411, 0.2498

# Complementary

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



78.7737, 0.4127, 0.4525



24.5888, 0.2003, 0.1608

# 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.



78.7737, 0.2661, 0.2211



78.7737, 0.4127, 0.4525



78.7737, 0.1844, 0.2324

# Square

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



78.7737, 0.4127, 0.4525



78.7737, 0.2150, 0.3561



78.7737, 0.2118, 0.2140



78.7737, 0.4157, 0.2950



# Rectangle

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



78.7737, 0.4127, 0.4525



78.7737, 0.2962, 0.4515



78.7737, 0.2118, 0.2140



78.7737, 0.3147, 0.2381

# Sweetspot

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



78.7711, 0.4127, 0.4525



92.7557, 0.3411, 0.3670



31.8704, 0.4735, 0.3046



19.6199, 0.3460, 0.3734



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.



78.7711, 0.4127, 0.4525



75.5256, 0.4292, 0.4683



85.1816, 0.3626, 0.4920



20.5624, 0.3273, 0.3488



36.3908, 0.4510, 0.4801



3.6707, 0.4468, 0.4834



# Inverse Universe

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



24.5888, 0.2003, 0.1608



17.3794, 0.1795, 0.1251



22.9705, 0.2280, 0.1476



17.8508, 0.2979, 0.3084



4.7445, 0.1538, 0.0736



0.5905, 0.1586, 0.0909



# Previews

## White Background



This preview shows how the Yxy color 78.7737, 0.4127, 0.4525 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 78.7737, 0.4127, 0.4525 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 78.7737, 0.4127, 0.4525**

## Background



This preview shows how black text looks on a background with the Yxy color 78.7737, 0.4127, 0.4525.



This preview shows how white text looks on a background with the Yxy color 78.7737, 0.4127, 0.4525.

# 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

78.7737, 0.4127, 0.4525

### Protanopia

78.8129, 0.4117, 0.4510

### Deuteranopia

78.7413, 0.3598, 0.3668



## Tritanopia

78.7991, 0.3297, 0.3181

# Trichromacy



## Original Color

78.7737, 0.4127, 0.4525

## Protanomaly

78.7932, 0.4122, 0.4518



## Deuteranomaly

78.5985, 0.3812, 0.4010



## Tritanomaly

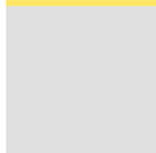
78.0320, 0.3629, 0.3699

# Monochromacy



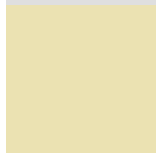
## Original Color

78.7737, 0.4127, 0.4525



## Achromatopsia

73.7910, 0.3127, 0.3290



## Achromatomaly

75.2692, 0.3514, 0.3806

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 78.7737, 0.4127, 0.4525 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, 230, 100)` looks like.

```
.text, #text, p{  
    color:rgb(255, 230, 100)  
}
```

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, 230, 100) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(255, 230, 100) }
```

## Border

The CSS property to change the border of an element to Yxy 78.7737, 0.4127, 0.4525 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, 230, 100) }
```

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

```
.border{ border-color:rgb(255, 230, 100) }
```

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

Here you see how a box with a 4 pixel `rgb(255, 230, 100)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(255, 230, 100); -webkit-box-  
shadow:4px 4px 4px 4px rgb(255, 230, 100);  
box-shadow:4px 4px 4px 4px rgb(255, 230,  
100) }
```



# Background

The CSS property to change the background color of an element to Yxy 78.7737, 0.4127, 0.4525 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(255, 230, 100) }
```

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

```
.background{ background-color: rgb(255,  
230, 100) }
```

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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