

# Converting Colors

$Y_{xy}(78.6907, 0.4118, 0.4509)$

Have a look what the booklet for  
Yxy(78.6907, 0.4118, 0.4509)  
contains.

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# Color

**Yxy(78.8129, 0.4117, 0.4510)**

# Conversions

Conversions Part 1	
Format	Color
Hex	FFE666
RGB	255, 230, 102
RGB Percent	100%, 90%, 40%
CMY	0.0000, 0.0981, 0.5999
CMYK	0.00, 0.10, 0.60, 0.00
HSL	50°, 100%, 70%
HSV	50°, 60%, 100%
XYZ	71.9452, 78.8129, 23.9934
YIQ	222.8830, 55.9880, -34.5080

# Conversions

## Conversions Part 2

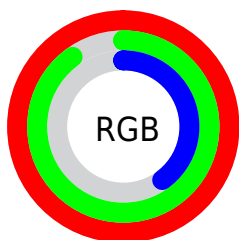
Format	Color
<a href="#">RYB</a>	<a href="#">132, 255, 102</a>
Decimal	<a href="#">16770662</a>
CIELab	<a href="#">91.15, -6.17, 63.94</a>
CIELCh	<a href="#">91, 64.236, 95.515</a>
Yxy	<a href="#">78.8129, 0.4117, 0.4510</a>
Android (android.graphics.Color)	<a href="#">4294960742</a> (0xFFFFE666)
YUV	<a href="#">222.8830, -59.5953, 28.1666</a>
Hunter-Lab	<a href="#">88.7766, -10.7015, 46.1195</a>

# Details

The Yxy color **78.8129, 0.4117, 0.4510** is a light color, and the websafe version is hex **FFFF66**. A complement of this color would be **25.2293, 0.2018, 0.1636**, and the grayscale version is **74.1038, 0.3127, 0.3290**.

A 20% lighter version of the original color is **95.2143, 0.3706, 0.4247**, and **42.4593, 0.4280, 0.4742** is the 20% darker color. If you saturate the color by 10%, you get **76.0872, 0.4257, 0.4647**, and if you desaturate by 10%, it is **81.7438, 0.3958, 0.4338**.

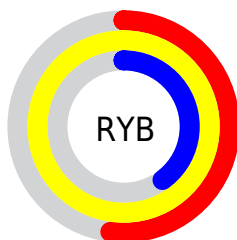
# Distribution



Red (100%)

Green (90%)

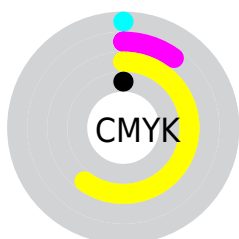
Blue (40%)



Red (52%)

Yellow (100%)

Blue (40%)

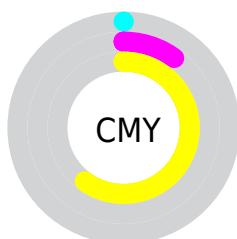


Cyan (0%)

Magenta (10%)

Yellow (60%)

Black (0%)



Cyan (0%)

Magenta (10%)


Yellow (60%)

# Brightness & Saturation Gradients

These gradients show how the Yxy color 78.8129, 0.4117, 0.4510 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 78.8129, 0.4117, 0.4510 by changing the saturation by 10% instead.





 78.8129, 0.4117,  
0.4510

 78.8129, 0.4117,  
0.4510


490.9232, 0.3701,  
0.3980


 58.7420, 0.4196,  
0.4616


 131.6954, 0.3985,  
0.4337

 42.4055, 0.4284,  
0.4738


 165.2758, 0.3929,  
0.4266

 29.4189, 0.4381,  
0.4876


 204.1282, 0.3880,  
0.4204

 19.3979, 0.4480,  
0.5029

 248.6369, 0.3837,  
0.4149

 11.9582, 0.4583,  
0.5204

299.1864, 0.3797,  
0.4100

 6.7152, 0.4642,  
0.5358


356.1610, 0.3762,


 3.2846, 0.4579,


0.4056

0.5421

419.9451, 0.3730,  
0.4016


 1.2821, 0.4469,  
0.5531


 0.1273, 0.0000,  
1.0000


 78.8129, 0.4117,  
0.4510


 78.8129, 0.4117,  
0.4510

 76.0872, 0.4257,  
0.4647


 81.7438, 0.3958,  
0.4338


 73.5603, 0.4373,  
0.4740

 84.9019, 0.3788,  
0.4142

 71.2112, 0.4461,  
0.4787

 88.2963, 0.3615,  
0.3930

 69.0108, 0.4521,  
0.4792

 91.9378, 0.3445,  
0.3713

 69.0097, 0.4521,  
0.4792

 95.8367, 0.3281,  
0.3498

100.0000, 0.3127,  
0.3290

# Harmonies

## Analogous

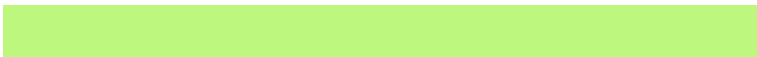
The Analogous color harmony consists of three colors that are next to each other on the color wheel.



78.8129, 0.4548, 0.4045



78.8129, 0.4117, 0.4510



78.8129, 0.3450, 0.4674

# Triad

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



78.8129, 0.4117, 0.4510



78.8129, 0.1865, 0.2814



78.8129, 0.3406, 0.2506

# Complementary

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



78.8129, 0.4117, 0.4510



25.2293, 0.2018, 0.1636

# 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.



78.8129, 0.2667, 0.2222



78.8129, 0.4117, 0.4510



78.8129, 0.1859, 0.2337

# Square

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



78.8129, 0.4117, 0.4510



78.8129, 0.2164, 0.3559



78.8129, 0.2129, 0.2153



78.8129, 0.4142, 0.2954



# Rectangle

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



78.8129, 0.4117, 0.4510



78.8129, 0.2966, 0.4497



78.8129, 0.2129, 0.2153



78.8129, 0.3147, 0.2391

# Sweetspot

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



78.8100, 0.4117, 0.4510



92.6947, 0.3411, 0.3670



32.3110, 0.4702, 0.3047



19.6049, 0.3460, 0.3733



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.



78.8100, 0.4117, 0.4510



75.5653, 0.4283, 0.4669



85.3176, 0.3622, 0.4901



20.5554, 0.3273, 0.3487



36.2470, 0.4515, 0.4797



3.6580, 0.4472, 0.4831



# Inverse Universe

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



25.2293, 0.2018, 0.1636



17.9619, 0.1811, 0.1282



23.4985, 0.2294, 0.1500



17.8572, 0.2979, 0.3085



4.7662, 0.1539, 0.0739



0.5936, 0.1587, 0.0913



# Previews

## White Background



This preview shows how the Yxy color 78.8129, 0.4117, 0.4510 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

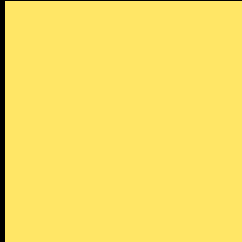
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 78.8129, 0.4117, 0.4510 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 78.8129, 0.4117, 0.4510**

## Background



This preview shows how black text looks on a background with the Yxy color 78.8129, 0.4117, 0.4510.



This preview shows how white text looks on a background with the Yxy color 78.8129, 0.4117, 0.4510.

# 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

78.8129, 0.4117, 0.4510

### Protanopia

78.8329, 0.4112, 0.4503

### Deuteranopia

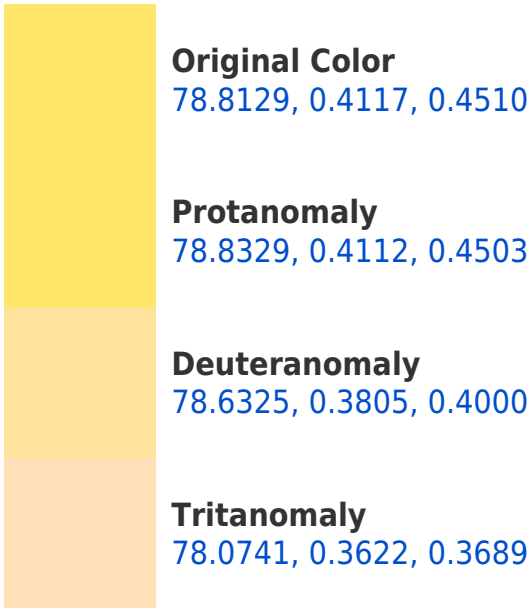
78.7413, 0.3598, 0.3668



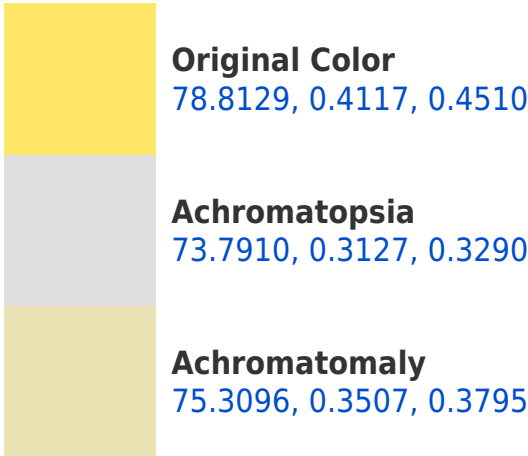
## Tritanopia

78.7991, 0.3297, 0.3181

# Trichromacy



# Monochromacy



# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 78.8129, 0.4117, 0.4510 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, 102)` looks like.

```
.text, #text, p{  
    color:rgb(255, 230, 102)  
}
```

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, 102) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(255, 230, 102) }
```

## Border

The CSS property to change the border of an element to Yxy 78.8129, 0.4117, 0.4510 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, 102) }
```

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

```
.border{ border-color:rgb(255, 230, 102) }
```

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, 102) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(255, 230, 102); -webkit-box-  
shadow:4px 4px 4px 4px rgb(255, 230, 102);  
box-shadow:4px 4px 4px 4px rgb(255, 230,  
102) }
```



# Background

The CSS property to change the background color of an element to Yxy 78.8129, 0.4117, 0.4510 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, 102) }
```

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

```
.background{ background-color: rgb(255,  
230, 102) }
```

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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