

# Converting Colors

$Y_{xy}(72.7808, 0.4281, 0.4955)$

Have a look what the booklet for  
Yxy(72.7808, 0.4281, 0.4955)  
contains.

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# Color

**Yxy(72.7808, 0.4281, 0.4955)**

# Conversions

Conversions Part 1	
Format	Color
Hex	EFE210
RGB	239, 226, 16
RGB Percent	94%, 89%, 6%
CMY	0.0628, 0.1137, 0.9374
CMYK	0.00, 0.05, 0.93, 0.06
HSL	57°, 87%, 50%
HSV	57°, 93%, 94%
XYZ	62.8808, 72.7808, 11.2219
YIQ	205.9470, 75.1580, -62.5540

# Conversions

## Conversions Part 2

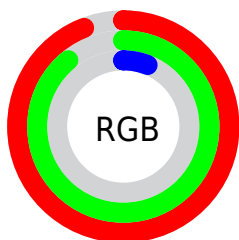
Format	Color
<a href="#">RYB</a>	<a href="#">30, 239, 16</a>
Decimal	<a href="#">15720976</a>
CIELab	<a href="#">88.34, -14.08, 86.13</a>
CIELCh	<a href="#">88, 87.275, 99.283</a>
Yxy	<a href="#">72.7808, 0.4281, 0.4955</a>
Android (android.graphics.Color)	<a href="#">4293911056</a> (0xFFEFE210)
YUV	<a href="#">205.9470, -93.6439, 28.9875</a>
Hunter-Lab	<a href="#">85.3117, -17.7280, 51.9192</a>

# Details

The Yxy color **72.7808, 0.4281, 0.4955** is a light color, and the websafe version is hex **FFFF33**. The color can be described as light washed yellow. A complement of this color would be **7.2159, 0.1536, 0.0683**, and the grayscale version is **62.2590, 0.3127, 0.3290**.

A 20% lighter version of the original color is **93.5882, 0.4009, 0.4748**, and **38.5908, 0.4263, 0.4997** is the 20% darker color. If you saturate the color by 10%, you get **72.2435, 0.4300, 0.4968**, and if you desaturate by 10%, it is **73.6579, 0.4235, 0.4908**.

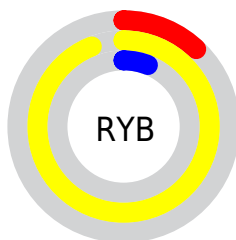
# Distribution



Red (94%)

Green (89%)

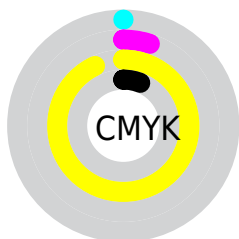
Blue (6%)



Red (12%)

Yellow (94%)

Blue (6%)

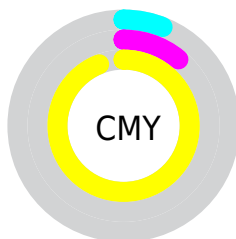


Cyan (0%)

Magenta (5%)

Yellow (93%)

Black (6%)



Cyan (6%)

Magenta (11%)


Yellow (94%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 72.7808, 0.4281, 0.4955 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 72.7808, 0.4281, 0.4955 by changing the saturation by 10% instead.





 72.7808, 0.4281,  
0.4955


 72.7808, 0.4281,  
0.4955


470.2547, 0.3844,  
0.4256

 53.7967, 0.4344,  
0.5080


 123.1660, 0.4158,  
0.4738


 38.4392, 0.4402,  
0.5214


 155.3359, 0.4101,  
0.4645

 26.3237, 0.4444,  
0.5350


 192.6699, 0.4049,  
0.4562

 17.0660, 0.4484,  
0.5516

 235.5523, 0.4000,  
0.4488

 10.2815, 0.4411,  
0.5589

 284.3677, 0.3956,  
0.4421

 5.5860, 0.4304,  
0.5696


 339.5002, 0.3916,

 2.5950, 0.4132,


0.4360

0.5868


401.3345, 0.3878,  
0.4305

 0.9242, 0.3663,  
0.6337


 0.0000, 0.0000,  
0.0000

 72.7808, 0.4281,  
0.4955


 72.7808, 0.4281,  
0.4955


 72.2435, 0.4300,  
0.4968


 73.6579, 0.4235,  
0.4908


 74.6380, 0.4161,  
0.4817


 75.7404, 0.4061,  
0.4683


 76.9787, 0.3938,  
0.4509

 78.3641, 0.3797,  
0.4304

 79.9070, 0.3644,  
0.4078

 81.6166, 0.3486,  
0.3841

 83.5015, 0.3329,  
0.3601

 85.5696, 0.3176,  
0.3366

# Harmonies

## Analogous

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



72.7808, 0.4963, 0.4278



72.7808, 0.4281, 0.4955



72.7808, 0.3364, 0.5245

# Triad

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



72.7808, 0.4281, 0.4955



72.7808, 0.1453, 0.2491



72.7808, 0.3630, 0.2316

# Complementary

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



72.7808, 0.4281, 0.4955



7.2159, 0.1536, 0.0683

# 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.



72.7808, 0.2598, 0.1931



72.7808, 0.4281, 0.4955



72.7808, 0.1502, 0.1956

# Square

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



72.7808, 0.4281, 0.4955



72.7808, 0.1752, 0.3488



72.7808, 0.1874, 0.1797



72.7808, 0.4646, 0.2890



# Rectangle

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



72.7808, 0.4281, 0.4955



72.7808, 0.2731, 0.4967



72.7808, 0.1874, 0.1797



72.7808, 0.3264, 0.2162

# Sweetspot

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



72.7842, 0.4281, 0.4955



93.6041, 0.3562, 0.3955



18.8145, 0.6226, 0.3252



19.8551, 0.3630, 0.4058



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.



72.7842, 0.4281, 0.4955



83.6837, 0.4301, 0.4967



67.5383, 0.3485, 0.5581



18.2924, 0.3270, 0.3510



40.0000, 0.4298, 0.4969



3.3752, 0.4283, 0.4981



# Inverse Universe

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



7.2159, 0.1536, 0.0683



7.5567, 0.1507, 0.0625



10.0848, 0.1958, 0.0877



15.3761, 0.2979, 0.3060



3.6759, 0.1510, 0.0636



0.3573, 0.1536, 0.0730



# Previews

## White Background



This preview shows how the Yxy color 72.7808, 0.4281, 0.4955 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

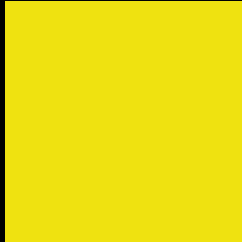
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 72.7808, 0.4281, 0.4955 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 72.7808, 0.4281, 0.4955**

## Background



This preview shows how black text looks on a background with the Yxy color 72.7808, 0.4281, 0.4955.

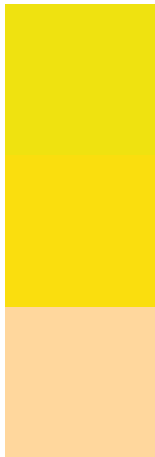


This preview shows how white text looks on a background with the Yxy color 72.7808, 0.4281, 0.4955.

# 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

72.7808, 0.4281, 0.4955

### Protanopia

72.5983, 0.4399, 0.4866

### Deuteranopia

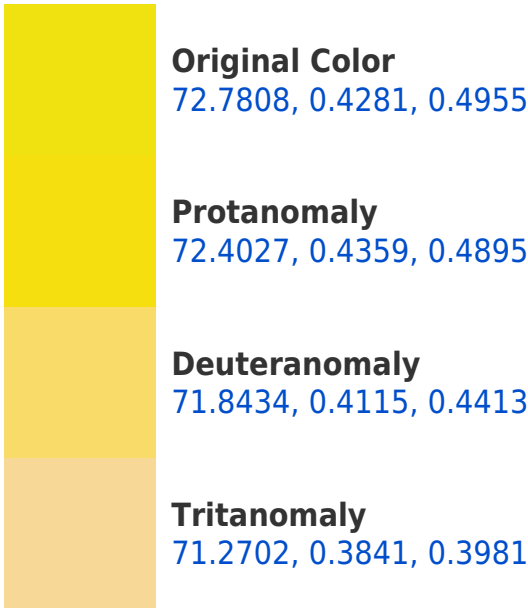
72.2952, 0.3851, 0.3887



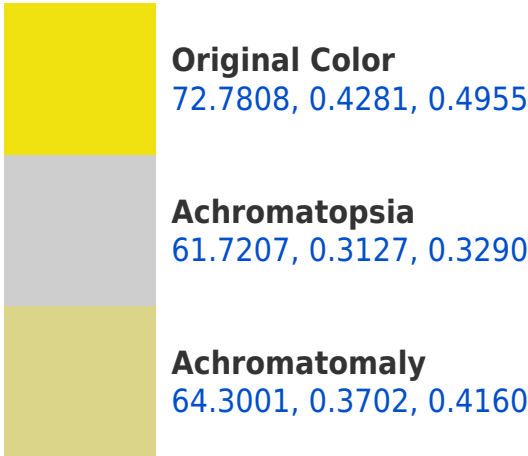
## Tritanopia

72.4668, 0.3337, 0.3129

# Trichromacy



# Monochromacy



# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 72.7808, 0.4281, 0.4955 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(239, 226, 16)` looks like.

```
.text, #text, p{  
    color:rgb(239, 226, 16)  
}
```

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(239, 226, 16) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(239, 226, 16) }
```

## Border

The CSS property to change the border of an element to Yxy 72.7808, 0.4281, 0.4955 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(239, 226, 16) }
```

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

```
.border{ border-color:rgb(239, 226, 16) }
```

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

Here you see how a box with a 4 pixel rgb(239, 226, 16) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(239, 226, 16); -webkit-box-  
shadow:4px 4px 4px 4px rgb(239, 226, 16);  
box-shadow:4px 4px 4px 4px rgb(239, 226,  
16) }
```



# Background

The CSS property to change the background color of an element to Yxy 72.7808, 0.4281, 0.4955 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(239, 226, 16) }
```

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

```
.background{ background-color: rgb(239,  
226, 16) }
```

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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