

# Converting Colors

$Y_{xy}(71.4031, 0.3986, 0.4573)$

Have a look what the booklet for  
Yxy(71.4031, 0.3986, 0.4573)  
contains.

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# **Color**

**Yxy(71.3872, 0.3985, 0.4571)**

# Conversions

## Conversions Part 1

Format	Color
Hex	E8E064
RGB	232, 224, 100
RGB Percent	91%, 88%, 39%
CMY	0.0902, 0.1215, 0.6079
CMYK	0.00, 0.03, 0.57, 0.09
HSL	56°, 74%, 65%
HSV	56°, 57%, 91%
XYZ	62.2354, 71.3872, 22.5515
YIQ	212.2560, 44.5720, -36.8680

# Conversions

## Conversions Part 2

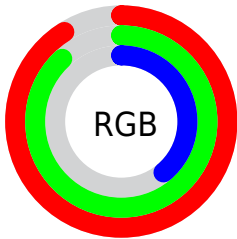
Format	Color
<a href="#">RYB</a>	109, 232, 100
Decimal	15261796
CIELab	87.67, -12.69, 60.41
CIElCh	88, 61.732, 101.859
Yxy	71.3872, 0.3985, 0.4571
Android (android.graphics.Color)	4293451876 (0xFFE8E064)
YUV	212.2560, -55.3422, 17.3155
Hunter-Lab	84.4909, -16.3774, 43.3185

# Details

The Yxy color **71.3872, 0.3985, 0.4571** is a light color, and the websafe version is hex **CCCC66**. A complement of this color would be **19.2578, 0.2044, 0.1563**, and the grayscale version is **66.3723, 0.3127, 0.3290**.

A 20% lighter version of the original color is **95.1466, 0.3717, 0.4265**, and **37.5641, 0.4132, 0.4833** is the 20% darker color. If you saturate the color by 10%, you get **70.2508, 0.4101, 0.4731**, and if you desaturate by 10%, it is **72.6644, 0.3849, 0.4377**.

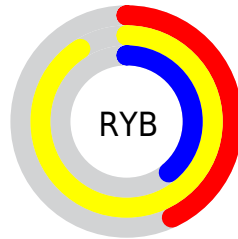
# Distribution



Red (91%)

Green (88%)

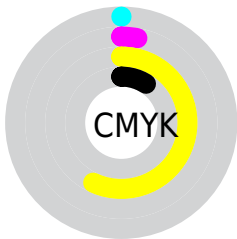
Blue (39%)



Red (43%)

Yellow (91%)

Blue (39%)

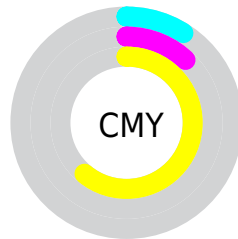


Cyan (0%)

Magenta (3%)

Yellow (57%)

Black (9%)



Cyan (9%)

Magenta (12%)

Yellow (61%)

# Brightness & Saturation Gradients

These gradients show how the Yxy color 71.3872, 0.3985, 0.4571 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 71.3872, 0.3985, 0.4571 by changing the saturation by 10% instead.




 71.3872, 0.3985,  
0.4571

 71.3872, 0.3985,  
0.4571


465.4058, 0.3622,  
0.3990


 52.6582, 0.4053,  
0.4693


 121.1849, 0.3870,  
0.4376


 37.5300, 0.4129,  
0.4837


 153.0224, 0.3822,  
0.4298

 25.6181, 0.4209,  
0.5005


 189.9982, 0.3779,  
0.4230

 16.5382, 0.4287,  
0.5198

 232.4968, 0.3740,  
0.4170

 9.9058, 0.4375,  
0.5451

280.9024, 0.3706,  
0.4117

 5.3365, 0.4353,  
0.5647

335.5995, 0.3675,

 2.4460, 0.4194,

0.4070

396.9726, 0.3648,  
0.4028

0.5806

0.8494, 0.3694,  
0.6306

0.0000, 0.0000,  
0.0000

71.3872, 0.3985,  
0.4571

71.3872, 0.3985,  
0.4571

70.2508, 0.4101,  
0.4731

72.6644, 0.3849,  
0.4377

69.2340, 0.4193,  
0.4851


74.0822, 0.3700,  
0.4158

68.3271, 0.4257,  
0.4926

75.6530, 0.3543,  
0.3924


67.5131, 0.4296,  
0.4958

77.3848, 0.3385,  
0.3685

 67.2713, 0.4305,  
0.4964

 79.2854, 0.3230,  
0.3449

 81.3617, 0.3082,  
0.3220

 83.1351, 0.2987,  
0.3076

 83.9382, 0.2987,  
0.3091

 84.7476, 0.2987,  
0.3105

# Harmonies

## Analogous

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



71.3872, 0.4478, 0.4152



71.3872, 0.3985, 0.4571



71.3872, 0.3296, 0.4635

# Triad

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



71.3872, 0.3985, 0.4571



71.3872, 0.1847, 0.2692



71.3872, 0.3569, 0.2594

# Complementary

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



71.3872, 0.3985, 0.4571



19.2578, 0.2044, 0.1563

# 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.



71.3872, 0.2813, 0.2272



71.3872, 0.3985, 0.4571



71.3872, 0.1900, 0.2281

# Square

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



71.3872, 0.3985, 0.4571



71.3872, 0.2082, 0.3387



71.3872, 0.2227, 0.2154



71.3872, 0.4261, 0.3064



# Rectangle

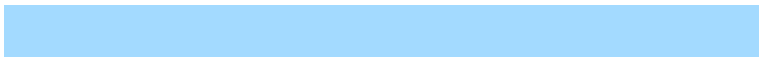
The Rectangle color scheme consists of four colors that form a rectangle on the color wheel.



71.3872, 0.3985, 0.4571



71.3872, 0.2820, 0.4381



71.3872, 0.2227, 0.2154



71.3872, 0.3310, 0.2467

# Sweetspot

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



71.3905, 0.3985, 0.4571



95.8511, 0.3388, 0.3690



27.3683, 0.4747, 0.3201



20.4199, 0.3420, 0.3738



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.



71.3905, 0.3985, 0.4571



86.8608, 0.4116, 0.4751



67.7267, 0.3508, 0.4870



16.6597, 0.3269, 0.3508



37.4125, 0.4303, 0.4966



2.8103, 0.4285, 0.4979



# Inverse Universe

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



19.2578, 0.2044, 0.1563



16.6690, 0.1829, 0.1204



22.1263, 0.2466, 0.1650



14.0266, 0.2980, 0.3062



3.4696, 0.1511, 0.0639

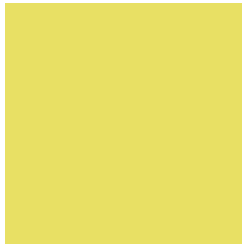


0.3061, 0.1541, 0.0748



# Previews

## White Background



This preview shows how the Yxy color 71.3872, 0.3985, 0.4571 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

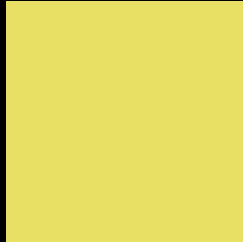
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 71.3872, 0.3985, 0.4571 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 71.3872, 0.3985, 0.4571**

## **Background**



This preview shows how black text looks on a background with the Yxy color 71.3872, 0.3985, 0.4571.



This preview shows how white text looks on a background with the Yxy color 71.3872, 0.3985, 0.4571.

# 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

71.3872, 0.3985, 0.4571

### Protanopia

71.3203, 0.4108, 0.4497

### Deuteranopia

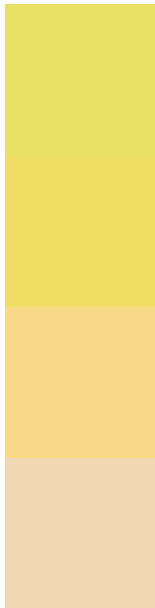
71.2488, 0.3866, 0.3878



## Tritanopia

71.3677, 0.3261, 0.3125

# Trichromacy



## Original Color

71.3872, 0.3985, 0.4571

## Protanomaly

71.1390, 0.4070, 0.4521

## Deuteranomaly

71.1774, 0.3925, 0.4132

## Tritanomaly

70.9732, 0.3555, 0.3666

# Monochromacy



## Original Color

71.3872, 0.3985, 0.4571

## Achromatopsia

65.8375, 0.3127, 0.3290

## Achromatomaly

67.1121, 0.3463, 0.3803

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 71.3872, 0.3985, 0.4571 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(232, 224, 100)` looks like.

```
.text, #text, p{  
    color:rgb(232, 224, 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(232, 224, 100) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(232, 224, 100) }
```

## Border

The CSS property to change the border of an element to Yxy 71.3872, 0.3985, 0.4571 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(232, 224, 100) }
```

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

```
.border{ border-color:rgb(232, 224, 100) }
```

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

Here you see how a box with a 4 pixel `rgb(232, 224, 100)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(232, 224, 100); -webkit-box-  
shadow:4px 4px 4px 4px rgb(232, 224, 100);  
box-shadow:4px 4px 4px 4px rgb(232, 224,  
100) }
```



# Background

The CSS property to change the background color of an element to Yxy 71.3872, 0.3985, 0.4571 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(232, 224, 100) }
```

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

```
.background{ background-color: rgb(232,  
224, 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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