

# Converting Colors

$Y_{xy}(73.6748, 0.4392, 0.4773)$

Have a look what the booklet for  
Yxy(73.6748, 0.4392, 0.4773)  
contains.

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# **Color**

**Yxy(73.6770, 0.4391, 0.4772)**

# Conversions

## Conversions Part 1

Format	Color
Hex	FFDE2B
RGB	255, 222, 43
RGB Percent	100%, 87%, 17%
CMY	0.0000, 0.1294, 0.8318
CMYK	0.00, 0.13, 0.83, 0.00
HSL	51°, 100%, 58%
HSV	51°, 83%, 100%
XYZ	67.7946, 73.6770, 12.9228
YIQ	211.4610, 77.1270, -48.6730

# Conversions

## Conversions Part 2

Format	Color
<a href="#">RYB</a>	82, 255, 43
Decimal	16768555
CIELab	88.77, -4.85, 82.35
CIELCh	89, 82.493, 93.372
Yxy	73.6770, 0.4391, 0.4772
Android (android.graphics.Color)	4294958635 (0xFFFFDE2B)
YUV	211.4610, -83.0513, 38.1837
Hunter-Lab	85.8353, -9.2286, 51.1584

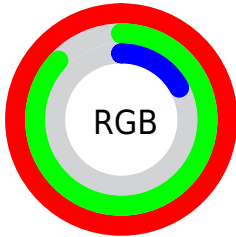
# Details

The Yxy color **73.6770, 0.4391, 0.4772** is a light color, and the websafe version is hex **FFCC00**.

The color can be described as light washed yellow. A complement of this color would be **12.8839, 0.1657, 0.0988**, and the grayscale version is **65.9796, 0.3127, 0.3290**.

A 20% lighter version of the original color is **93.8415, 0.3957, 0.4661**, and **39.1068, 0.4463, 0.4839** is the 20% darker color. If you saturate the color by 10%, you get **71.4665, 0.4466, 0.4805**, and if you desaturate by 10%, it is **76.0607, 0.4287, 0.4692**.

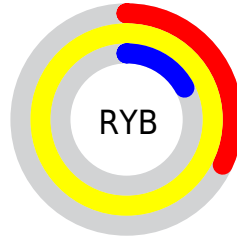
# Distribution



Red (100%)

Green (87%)

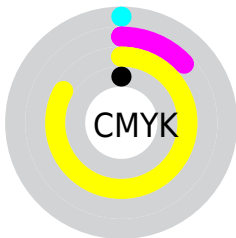
Blue (17%)



Red (32%)

Yellow (100%)

Blue (17%)

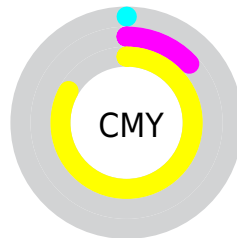


Cyan (0%)

Magenta (13%)

Yellow (83%)

Black (0%)



Cyan (0%)

Magenta (13%)


Yellow (83%)

# Brightness & Saturation Gradients

These gradients show how the Yxy color 73.6770, 0.4391, 0.4772 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 73.6770, 0.4391, 0.4772 by changing the saturation by 10% instead.




 73.6770, 0.4391,  
0.4772

 73.6770, 0.4391,  
0.4772

473.3578, 0.3888,  
0.4163


 54.5297, 0.4473,  
0.4878


 124.4378, 0.4241,  
0.4585


 39.0253, 0.4557,  
0.4991


 156.8202, 0.4175,  
0.4505

 26.7794, 0.4635,  
0.5103

 194.3830, 0.4115,  
0.4433

 17.4076, 0.4724,  
0.5239

 237.5106, 0.4061,  
0.4367

 10.5256, 0.4718,  
0.5282

 286.5876, 0.4012,  
0.4308

 5.7488, 0.4682,  
0.5318

341.9981, 0.3967,

 2.6929, 0.4627,

0.4255

0.5373

404.1268, 0.3926,  
0.4207

■ 0.9736, 0.4524,  
0.5476

■ 0.0000, 0.0000,  
0.0000

■ 73.6770, 0.4391,  
0.4772

■ 73.6770, 0.4391,  
0.4772

■ 71.4665, 0.4466,  
0.4805

■ 76.0607, 0.4287,  
0.4692


■ 70.0324, 0.4504,  
0.4806


■ 78.6263, 0.4156,  
0.4568


■ 81.3932, 0.4004,  
0.4405

■ 84.3751, 0.3839,  
0.4214

 87.5843, 0.3668,  
0.4004

 91.0321, 0.3497,  
0.3786

 94.7286, 0.3332,  
0.3568

 98.6836, 0.3175,  
0.3356

99.9990, 0.3127,  
0.3290

# Harmonies

## Analogous

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



73.6770, 0.4955, 0.4117



73.6770, 0.4391, 0.4772



73.6770, 0.3548, 0.5129

# Triad

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



73.6770, 0.4391, 0.4772



73.6770, 0.1559, 0.2695



73.6770, 0.3401, 0.2273

# Complementary

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



73.6770, 0.4391, 0.4772



12.8839, 0.1657, 0.0988

# 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.



73.6770, 0.2466, 0.1947



73.6770, 0.4391, 0.4772



73.6770, 0.1540, 0.2094

# Square

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



73.6770, 0.4391, 0.4772



73.6770, 0.1925, 0.3706



73.6770, 0.1837, 0.1872



73.6770, 0.4395, 0.2798



# Rectangle

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



73.6770, 0.4391, 0.4772



73.6770, 0.2939, 0.4975



73.6770, 0.1837, 0.1872



73.6770, 0.3064, 0.2139

# Sweetspot

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



73.6805, 0.4391, 0.4772



90.3893, 0.3528, 0.3826



23.5330, 0.5682, 0.3075



19.0851, 0.3588, 0.3903



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.



73.6805, 0.4391, 0.4772



70.0356, 0.4504, 0.4806



81.9174, 0.3660, 0.5351



20.5811, 0.3273, 0.3489



36.7761, 0.4498, 0.4811



3.7047, 0.4457, 0.4843



# Inverse Universe

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



12.8839, 0.1657, 0.0988



8.7146, 0.1531, 0.0710



12.4905, 0.1926, 0.0933



17.8337, 0.2979, 0.3083



4.6882, 0.1536, 0.0728



0.5825, 0.1583, 0.0899



# Previews

## White Background



This preview shows how the Yxy color 73.6770, 0.4391, 0.4772 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

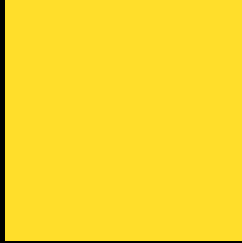
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 73.6770, 0.4391, 0.4772 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 73.6770, 0.4391, 0.4772**

## **Background**



This preview shows how black text looks on a background with the Yxy color 73.6770, 0.4391, 0.4772.



This preview shows how white text looks on a background with the Yxy color 73.6770, 0.4391, 0.4772.

# 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

73.6770, 0.4391, 0.4772

### Protanopia

73.4590, 0.4353, 0.4801

### Deuteranopia

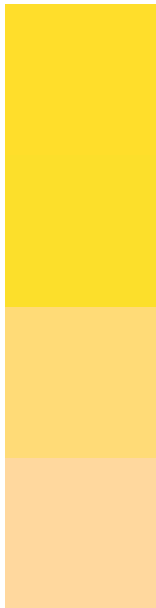
73.4943, 0.3807, 0.3856



## Tritanopia

73.6747, 0.3371, 0.3180

# Trichromacy



**Original Color**

73.6770, 0.4391, 0.4772

**Protanomaly**

73.6452, 0.4360, 0.4795

**Deuteranomaly**

73.2549, 0.4086, 0.4282

**Tritanomaly**

72.8404, 0.3840, 0.3886

# Monochromacy



**Original Color**

73.6770, 0.4391, 0.4772

**Achromatopsia**

65.1406, 0.3127, 0.3290

**Achromatomaly**

67.1338, 0.3678, 0.4015

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 73.6770, 0.4391, 0.4772 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, 222, 43)` looks like.

```
.text, #text, p{  
    color:rgb(255, 222, 43)  
}
```

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, 222, 43) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(255, 222, 43) }
```

## Border

The CSS property to change the border of an element to Yxy 73.6770, 0.4391, 0.4772 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, 222, 43) }
```

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

```
.border{ border-color:rgb(255, 222, 43) }
```

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

Here you see how a box with a 4 pixel `rgb(255, 222, 43)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(255, 222, 43); -webkit-box-  
shadow:4px 4px 4px 4px rgb(255, 222, 43);  
box-shadow:4px 4px 4px 4px rgb(255, 222,  
43) }
```



# Background

The CSS property to change the background color of an element to Yxy 73.6770, 0.4391, 0.4772 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(255, 222, 43) }
```

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

```
.background{ background-color: rgb(255,  
222, 43) }
```

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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