

# Converting Colors

$Y_{xy}(75.1305, 0.4421, 0.4872)$

Have a look what the booklet for  
Yxy(75.1305, 0.4421, 0.4872)  
contains.

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# Color

**Yxy(75.1104, 0.4421, 0.4872)**

# Conversions

## Conversions Part 1

Format	Color
Hex	FFE100
RGB	255, 225, 0
RGB Percent	100%, 88%, 0%
CMY	0.0001, 0.1176, 1.0000
CMYK	0.00, 0.12, 1.00, 0.00
HSL	53°, 100%, 50%
HSV	53°, 100%, 100%
XYZ	68.1574, 75.1104, 10.8996
YIQ	208.3200, 90.1050, -63.6150

# Conversions

## Conversions Part 2

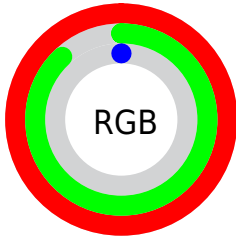
Format	Color
R <sub>Y</sub> B	34, 255, 0
Decimal	16769280
CIE Lab	89.44, -6.97, 88.94
CIE LCh	89, 89.210, 94.479
Yxy	75.1104, 0.4421, 0.4872
Android (android.graphics.Color)	4294959360 (0xFFFFE100)
YUV	208.3200, -102.7018, 40.9384
Hunter-Lab	86.6663, -11.2872, 53.2097

# Details

The Yxy color **75.1104, 0.4421, 0.4872** is a light color, and the websafe version is hex **FFCC00**. The color can be described as light saturated yellow. A complement of this color would be **8.1447, 0.1519, 0.0668**, and the grayscale version is **63.9327, 0.3127, 0.3290**.

A 20% lighter version of the original color is **93.5353, 0.4020, 0.4767**, and **40.0869, 0.4420, 0.4872** is the 20% darker color. If you saturate the color by 10%, you get **75.1144, 0.4421, 0.4872**, and if you desaturate by 10%, it is **76.8209, 0.4374, 0.4859**.

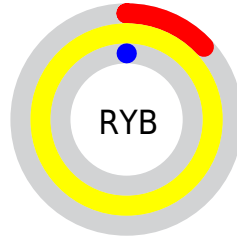
# Distribution



Red (100%)

Green (88%)

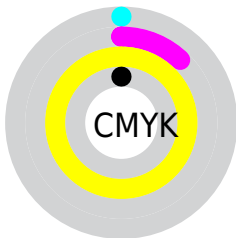
Blue (0%)



Red (13%)

Yellow (100%)

Blue (0%)

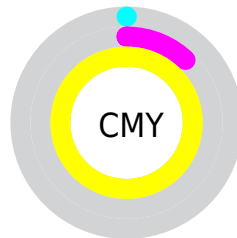


Cyan (0%)

Magenta (12%)

Yellow (100%)

Black (0%)



Cyan (0%)

Magenta (12%)


Yellow (100%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 75.1104, 0.4421, 0.4872 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 75.1104, 0.4421, 0.4872 by changing the saturation by 10% instead.




 75.1104, 0.4421,  
0.4872


 75.1104, 0.4421,  
0.4872


478.2969, 0.3926,  
0.4235


 55.7033, 0.4496,  
0.4978


 126.4686, 0.4279,  
0.4681


 39.9651, 0.4567,  
0.5088


 159.1886, 0.4215,  
0.4597


 27.5114, 0.4627,  
0.5194


 197.1150, 0.4156,  
0.4521

 17.9576, 0.4686,  
0.5314

 240.6321, 0.4101,  
0.4453

 10.9196, 0.4652,  
0.5348

 290.1245, 0.4052,  
0.4390

 6.0128, 0.4602,  
0.5398

 345.9765, 0.4006,

 2.8529, 0.4524,

0.4334

0.5476

408.5725, 0.3964,  
0.4282

■ 1.0554, 0.4384,  
0.5616

■ 0.0000, 0.0000,  
0.0000

■ 75.1104, 0.4421,  
0.4872

■ 75.1104, 0.4421,  
0.4872

■ 75.1144, 0.4421,  
0.4872

■ 76.8209, 0.4374,  
0.4859

■ 78.6503, 0.4302,  
0.4806

■ 80.6315, 0.4202,  
0.4707

■ 82.7822, 0.4076,  
0.4565

■ 85.1174, 0.3930,  
0.4387

■ 87.6502, 0.3771,  
0.4183

■ 90.3922, 0.3606,  
0.3962

■ 93.3542, 0.3441,  
0.3735

■ 96.5460, 0.3280,  
0.3509

# Harmonies

## Analogous

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



75.1104, 0.5050, 0.4165



75.1104, 0.4421, 0.4872



75.1104, 0.3518, 0.5270

# Triad

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



75.1104, 0.4421, 0.4872



75.1104, 0.1461, 0.2610



75.1104, 0.3456, 0.2229

# Complementary

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



75.1104, 0.4421, 0.4872



8.1447, 0.1519, 0.0668

# 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.



75.1104, 0.2451, 0.1880



75.1104, 0.4421, 0.4872



75.1104, 0.1458, 0.2000

# Square

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



75.1104, 0.4421, 0.4872



75.1104, 0.1823, 0.3685



75.1104, 0.1779, 0.1789



75.1104, 0.4522, 0.2783



# Rectangle

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



75.1104, 0.4421, 0.4872



75.1104, 0.2874, 0.5098



75.1104, 0.1779, 0.1789



75.1104, 0.3093, 0.2086

# Sweetspot

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



75.1144, 0.4421, 0.4872



90.4132, 0.3606, 0.3962



21.3705, 0.6259, 0.3221



19.0990, 0.3676, 0.4056



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.



75.1144, 0.4421, 0.4872



75.1318, 0.4421, 0.4872



79.1308, 0.3552, 0.5561



20.7048, 0.3272, 0.3498



39.4028, 0.4417, 0.4875



3.9352, 0.4388, 0.4898



# Inverse Universe

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



8.1447, 0.1519, 0.0668



8.1465, 0.1519, 0.0668



9.5712, 0.1774, 0.0751



17.7213, 0.2979, 0.3073



4.3646, 0.1523, 0.0683



0.5299, 0.1564, 0.0829



# Previews

## White Background



This preview shows how the Yxy color 75.1104, 0.4421, 0.4872 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

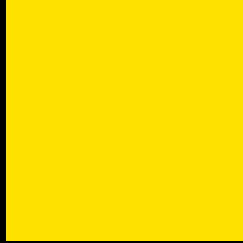
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 75.1104, 0.4421, 0.4872 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 75.1104, 0.4421, 0.4872**

## **Background**



This preview shows how black text looks on a background with the Yxy color 75.1104, 0.4421, 0.4872.



This preview shows how white text looks on a background with the Yxy color 75.1104, 0.4421, 0.4872.

# 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

75.1104, 0.4421, 0.4872

### Protanopia

74.9278, 0.4412, 0.4874

### Deuteranopia

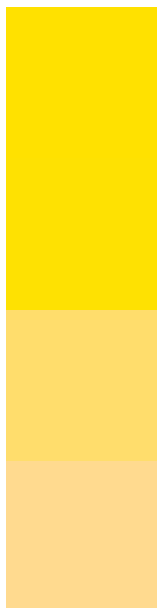
74.7876, 0.3750, 0.3804



## Tritanopia

74.7894, 0.3354, 0.3180

# Trichromacy



## Original Color

75.1104, 0.4421, 0.4872

## Protanomaly

74.9256, 0.4412, 0.4875

## Deuteranomaly

74.0556, 0.4139, 0.4391

## Tritanomaly

73.3860, 0.3936, 0.4053

# Monochromacy



## Original Color

75.1104, 0.4421, 0.4872

## Achromatopsia

63.0757, 0.3127, 0.3290

## Achromatomaly

65.7666, 0.3788, 0.4204

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 75.1104, 0.4421, 0.4872 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, 225, 0)` looks like.

```
.text, #text, p{  
    color:rgb(255, 225, 0)  
}
```

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, 225, 0) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(255, 225, 0) }
```

## Border

The CSS property to change the border of an element to Yxy 75.1104, 0.4421, 0.4872 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, 225, 0) }
```

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

```
.border{ border-color:rgb(255, 225, 0) }
```

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

Here you see how a box with a 4 pixel rgb(255, 225, 0) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(255, 225, 0); -webkit-box-  
shadow:4px 4px 4px 4px rgb(255, 225, 0);  
box-shadow:4px 4px 4px 4px rgb(255, 225,  
0) }
```



# Background

The CSS property to change the background color of an element to Yxy 75.1104, 0.4421, 0.4872 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(255, 225, 0) }
```

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

```
.background{ background-color: rgb(255,  
225, 0) }
```

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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