

# Converting Colors

$Y_{xy}(77.8782, 0.4582, 0.4959)$

Have a look what the booklet for  
Yxy(77.8782, 0.4582, 0.4959)  
contains.

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# **Color**

**Yxy(76.1982, 0.4405, 0.4885)**

# Conversions

## Conversions Part 1

Format	Color
Hex	FFE300
RGB	255, 227, 0
RGB Percent	100%, 89%, 0%
CMY	0.0000, 0.1098, 1.0000
CMYK	0.00, 0.11, 1.00, 0.00
HSL	53°, 100%, 50%
HSV	53°, 100%, 100%
XYZ	68.7110, 76.1982, 11.0749
YIQ	209.4940, 89.5550, -64.6610

# Conversions

## Conversions Part 2

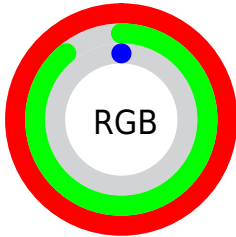
Format	Color
R <sub>Y</sub> B	31, 255, 0
Decimal	16769792
CIE Lab	89.95, -7.94, 89.32
CIE LCh	90, 89.668, 95.081
Yxy	76.1982, 0.4405, 0.4885
Android (android.graphics.Color)	4294959872 (0xFFFFE300)
YUV	209.4940, -103.2805, 39.9088
Hunter-Lab	87.2916, -12.2552, 53.5819

# Details

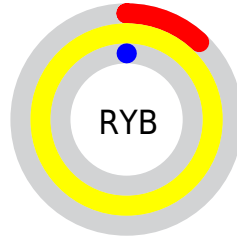
The Yxy color **76.1982, 0.4405, 0.4885** is a light color, and the websafe version is hex **FFCC00**. The color can be described as light saturated yellow. A complement of this color would be **8.0503, 0.1517, 0.0661**, and the grayscale version is **64.7469, 0.3127, 0.3290**.

A 20% lighter version of the original color is **93.5353, 0.4020, 0.4767**, and **40.8425, 0.4399, 0.4889** is the 20% darker color. If you saturate the color by 10%, you get **76.2003, 0.4405, 0.4885**, and if you desaturate by 10%, it is **77.8167, 0.4360, 0.4870**.

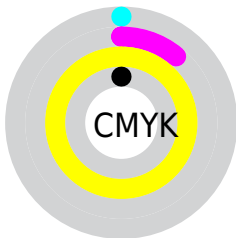
# Distribution



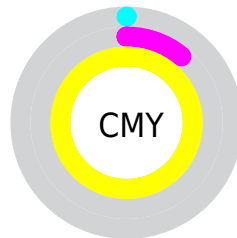
- Red (100%)
- Green (89%)
- Blue (0%)



- Red (12%)
- Yellow (100%)
- Blue (0%)



- Cyan (0%)
- Magenta (11%)
- Yellow (100%)
- Black (0%)




- Cyan (0%)
- Magenta (11%)
- Yellow (100%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 76.1982, 0.4405, 0.4885 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 76.1982, 0.4405, 0.4885 by changing the saturation by 10% instead.




 76.1982, 0.4405,  
0.4885


 76.1982, 0.4405,  
0.4885

482.0259, 0.3919,  
0.4242


 56.5950, 0.4477,  
0.4993


 128.0070, 0.4266,  
0.4691


 40.6802, 0.4547,  
0.5105


 160.9815, 0.4203,  
0.4607


 28.0693, 0.4604,  
0.5214


 199.1819, 0.4145,  
0.4531

 18.3779, 0.4661,  
0.5339

 242.9925, 0.4092,  
0.4461

 11.2216, 0.4623,  
0.5377

 292.7979, 0.4043,  
0.4398

 6.2161, 0.4567,  
0.5433

 348.9823, 0.3998,

 2.9769, 0.4480,

0.4341

0.5520

411.9302, 0.3957,  
0.4289

■ 1.1197, 0.4325,  
0.5675

■ 0.0000, 0.0000,  
0.0000

■ 76.1982, 0.4405,  
0.4885

■ 76.1982, 0.4405,  
0.4885


■ 76.2003, 0.4405,  
0.4885


■ 77.8167, 0.4360,  
0.4870

■ 79.5524, 0.4290,  
0.4816


■ 81.4363, 0.4193,  
0.4717


■ 83.4863, 0.4069,  
0.4574

 85.7171, 0.3925,  
0.4395

 88.1419, 0.3768,  
0.4189

 90.7723, 0.3604,  
0.3967

 93.6190, 0.3440,  
0.3739

 96.6919, 0.3280,  
0.3511

# Harmonies

## Analogous

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



76.1982, 0.5043, 0.4180



76.1982, 0.4405, 0.4885



76.1982, 0.3499, 0.5272

# Triad

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



76.1982, 0.4405, 0.4885



76.1982, 0.1457, 0.2593



76.1982, 0.3478, 0.2238

# Complementary

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



76.1982, 0.4405, 0.4885



8.0503, 0.1517, 0.0661

# 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.



76.1982, 0.2468, 0.1884



76.1982, 0.4405, 0.4885



76.1982, 0.1461, 0.1992

# Square

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



76.1982, 0.4405, 0.4885



76.1982, 0.1811, 0.3660



76.1982, 0.1789, 0.1787



76.1982, 0.4541, 0.2795



# Rectangle

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



76.1982, 0.4405, 0.4885



76.1982, 0.2855, 0.5086



76.1982, 0.1789, 0.1787



76.1982, 0.3114, 0.2094

# Sweetspot

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



76.2003, 0.4405, 0.4885



90.7723, 0.3604, 0.3967



21.3525, 0.6286, 0.3237



19.1861, 0.3674, 0.4062



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.



76.2003, 0.4405, 0.4885



78.7133, 0.3526, 0.5583



20.7299, 0.3272, 0.3500



39.9532, 0.4401, 0.4888



3.9833, 0.4374, 0.4909

# Inverse Universe

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



8.0503, 0.1517, 0.0661



9.8028, 0.1799, 0.0765



17.6986, 0.2979, 0.3071



4.3088, 0.1521, 0.0676



0.5193, 0.1560, 0.0815

# Previews

## White Background



This preview shows how the Yxy color 76.1982, 0.4405, 0.4885 looks on a white background.

## Color Contrast Check

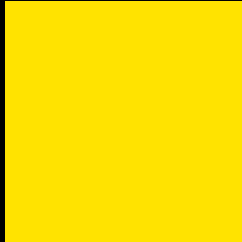
Large Text (above 18pt) WCAG AA × Fail

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 76.1982, 0.4405, 0.4885 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 76.1982, 0.4405, 0.4885**

## **Background**



This preview shows how black text looks on a background with the Yxy color 76.1982, 0.4405, 0.4885.



This preview shows how white text looks on a background with the Yxy color 76.1982, 0.4405, 0.4885.



# 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

76.1982, 0.4405, 0.4885

### Protanopia

76.2971, 0.4374, 0.4840

### Deuteranopia

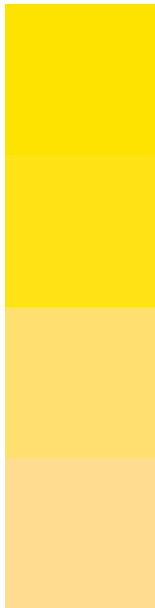
76.0289, 0.3708, 0.3772



## Tritanopia

75.9178, 0.3337, 0.3180

# Trichromacy



## Original Color

76.1982, 0.4405, 0.4885

## Protanomaly

76.2487, 0.4389, 0.4862

## Deuteranomaly

75.1830, 0.4110, 0.4383

## Tritanomaly

74.4600, 0.3921, 0.4062

# Monochromacy



## Original Color

76.1982, 0.4405, 0.4885

## Achromatopsia

63.7597, 0.3127, 0.3290

## Achromatomaly

66.9739, 0.3781, 0.4210

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 76.1982, 0.4405, 0.4885 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, 227, 0)` looks like.

```
.text, #text, p{  
  color:rgb(255, 227, 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, 227, 0) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(255, 227, 0) }
```

## Border

The CSS property to change the border of an element to Yxy 76.1982, 0.4405, 0.4885 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, 227, 0) }
```

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

```
.border{ border-color:rgb(255, 227, 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, 227, 0) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(255, 227, 0); -webkit-box-  
shadow:4px 4px 4px 4px rgb(255, 227, 0);  
box-shadow:4px 4px 4px 4px rgb(255, 227,  
0) }
```

# Background

The CSS property to change the background color of an element to Yxy 76.1982, 0.4405, 0.4885 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(255, 227, 0) }
```

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

```
.background{ background-color: rgb(255,  
227, 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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