

# Converting Colors

$Y_{xy}(77.6041, 0.4298, 0.4763)$

Have a look what the booklet for  
Yxy(77.6041, 0.4298, 0.4763)  
contains.

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# Color

**Yxy(77.6041, 0.4298, 0.4763)**

# Conversions

## Conversions Part 1

Format	Color
Hex	FFE53A
RGB	255, 229, 58
RGB Percent	100%, 90%, 23%
CMY	0.0000, 0.1020, 0.7723
CMYK	0.00, 0.10, 0.77, 0.00
HSL	52°, 100%, 61%
HSV	52°, 77%, 100%
XYZ	70.0278, 77.6041, 15.2992
YIQ	217.2800, 70.3870, -47.6690

# Conversions

## Conversions Part 2

Format	Color
R <sub>Y</sub> B	88, 255, 58
Decimal	16770362
CIE Lab	90.60, -7.89, 79.82
CIE LCh	91, 80.204, 95.642
Yxy	77.6041, 0.4298, 0.4763
Android (android.graphics.Color)	4294960442 (0xFFFFE53A)
YUV	217.2800, -78.5250, 33.0804
Hunter-Lab	88.0932, -12.2683, 51.3683

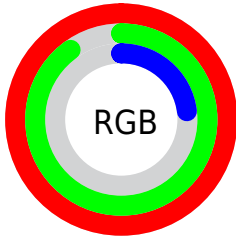
# Details

The Yxy color **77.6041, 0.4298, 0.4763** is a light color, and the websafe version is hex **FFCC00**.

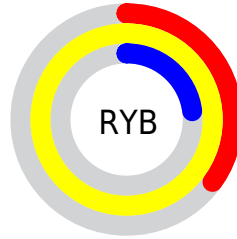
The color can be described as light washed yellow. A complement of this color would be **14.4724, 0.1719, 0.1083**, and the grayscale version is **70.1088, 0.3127, 0.3290**.

A 20% lighter version of the original color is **94.0880, 0.3907, 0.4580**, and **41.7414, 0.4387, 0.4899** is the 20% darker color. If you saturate the color by 10%, you get **75.5617, 0.4383, 0.4827**, and if you desaturate by 10%, it is **79.8138, 0.4185, 0.4653**.

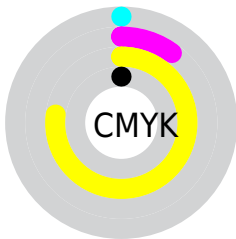
# Distribution



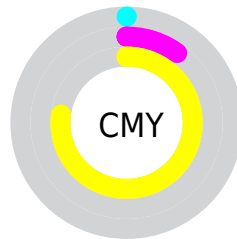
- Red (100%)
- Green (90%)
- Blue (23%)



- Red (35%)
- Yellow (100%)
- Blue (23%)



- Cyan (0%)
- Magenta (10%)
- Yellow (77%)
- Black (0%)




- Cyan (0%)
- Magenta (10%)
- Yellow (77%)

# Brightness & Saturation Gradients

These gradients show how the Yxy color 77.6041, 0.4298, 0.4763 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 77.6041, 0.4298, 0.4763 by changing the saturation by 10% instead.




 77.6041, 0.4298,  
0.4763

 77.6041, 0.4298,  
0.4763


486.8213, 0.3834,  
0.4148


 57.7488, 0.4375,  
0.4875

 129.9919, 0.4159,  
0.4571


 41.6067, 0.4455,  
0.4997


 163.2932, 0.4098,  
0.4490

 28.7935, 0.4530,  
0.5124


 201.8452, 0.4043,  
0.4417

 18.9247, 0.4597,  
0.5258

 246.0325, 0.3993,  
0.4351

 11.6158, 0.4627,  
0.5373

 296.2393, 0.3947,  
0.4293

 6.4827, 0.4574,  
0.5426

352.8501, 0.3906,

 3.1407, 0.4490,

0.4240

0.5510

416.2493, 0.3868,  
0.4192

■ 1.2056, 0.4342,  
0.5658

■ 0.0663, 0.0000,  
1.0000

■ 77.6041, 0.4298,  
0.4763

■ 77.6041, 0.4298,  
0.4763

■ 75.5617, 0.4383,  
0.4827

■ 79.8138, 0.4185,  
0.4653

■ 73.6607, 0.4439,  
0.4846

■ 82.2035, 0.4049,  
0.4502

■ 73.1502, 0.4452,  
0.4847

■ 84.7891, 0.3895,  
0.4318

■ 87.5831, 0.3730,  
0.4111

■ 90.5971, 0.3562,  
0.3890

■ 93.8416, 0.3396,  
0.3666

■ 97.3263, 0.3237,  
0.3445

100.0000, 0.3127,  
0.3290

# Harmonies

## Analogous

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



77.6041, 0.4861, 0.4151



77.6041, 0.4298, 0.4763



77.6041, 0.3477, 0.5046

# Triad

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



77.6041, 0.4298, 0.4763



77.6041, 0.1602, 0.2667



77.6041, 0.3467, 0.2343

# Complementary

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



77.6041, 0.4298, 0.4763



14.4724, 0.1719, 0.1083

# 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.



77.6041, 0.2553, 0.2009



77.6041, 0.4298, 0.4763



77.6041, 0.1605, 0.2113

# Square

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



77.6041, 0.4298, 0.4763



77.6041, 0.1935, 0.3608



77.6041, 0.1919, 0.1918



77.6041, 0.4402, 0.2864



# Rectangle

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



77.6041, 0.4298, 0.4763



77.6041, 0.2890, 0.4849



77.6041, 0.1919, 0.1918



77.6041, 0.3141, 0.2207

# Sweetspot

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



77.6055, 0.4298, 0.4763



91.9404, 0.3492, 0.3795



24.9381, 0.5530, 0.3108



19.4328, 0.3552, 0.3876



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.



77.6055, 0.4298, 0.4763



74.4490, 0.4418, 0.4843



81.8679, 0.3619, 0.5291



20.6575, 0.3272, 0.3495



38.3818, 0.4447, 0.4851



3.8458, 0.4414, 0.4877



# Inverse Universe

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



14.4724, 0.1719, 0.1083



9.5570, 0.1560, 0.0768



15.0205, 0.2061, 0.1074



17.7642, 0.2979, 0.3077



4.4785, 0.1528, 0.0699



0.5500, 0.1571, 0.0856



# Previews

## White Background



This preview shows how the Yxy color 77.6041, 0.4298, 0.4763 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

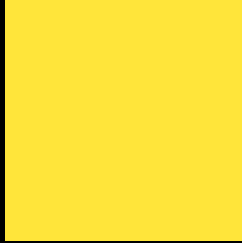
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 77.6041, 0.4298, 0.4763 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 77.6041, 0.4298, 0.4763**

## **Background**



This preview shows how black text looks on a background with the Yxy color 77.6041, 0.4298, 0.4763.



This preview shows how white text looks on a background with the Yxy color 77.6041, 0.4298, 0.4763.

# 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

77.6041, 0.4298, 0.4763

### Protanopia

77.8344, 0.4234, 0.4668

### Deuteranopia

77.3306, 0.3660, 0.3730



## Tritanopia

77.5802, 0.3320, 0.3191

# Trichromacy



## Original Color

77.6041, 0.4298, 0.4763

## Protanomaly

77.7408, 0.4259, 0.4706

## Deuteranomaly

76.8880, 0.3950, 0.4183

## Tritanomaly

76.8254, 0.3751, 0.3863

# Monochromacy



## Original Color

77.6041, 0.4298, 0.4763

## Achromatopsia

69.3872, 0.3127, 0.3290

## Achromatomaly

71.2050, 0.3627, 0.3969

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 77.6041, 0.4298, 0.4763 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, 229, 58)` looks like.

```
.text, #text, p{  
    color:rgb(255, 229, 58)  
}
```

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, 229, 58) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(255, 229, 58) }
```

## Border

The CSS property to change the border of an element to Yxy 77.6041, 0.4298, 0.4763 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, 229, 58) }
```

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

```
.border{ border-color:rgb(255, 229, 58) }
```

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

Here you see how a box with a 4 pixel `rgb(255, 229, 58)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(255, 229, 58); -webkit-box-  
shadow:4px 4px 4px 4px rgb(255, 229, 58);  
box-shadow:4px 4px 4px 4px rgb(255, 229,  
58) }
```



# Background

The CSS property to change the background color of an element to Yxy 77.6041, 0.4298, 0.4763 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(255, 229, 58) }
```

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

```
.background{ background-color: rgb(255,  
229, 58) }
```

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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