

# Converting Colors

$Y_{xy}(77.7210, 0.4342, 0.4838)$

Have a look what the booklet for  
Yxy(77.7210, 0.4342, 0.4838)  
contains.

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# Color

**Yxy(77.9936, 0.4339, 0.4842)**

# Conversions

## Conversions Part 1

Format	Color
Hex	FFE626
RGB	255, 230, 38
RGB Percent	100%, 90%, 15%
CMY	0.0000, 0.0980, 0.8515
CMYK	0.00, 0.10, 0.85, 0.00
HSL	53°, 100%, 57%
HSV	53°, 85%, 100%
XYZ	69.8914, 77.9936, 13.1922
YIQ	215.5870, 76.5320, -54.4120

# Conversions

## Conversions Part 2

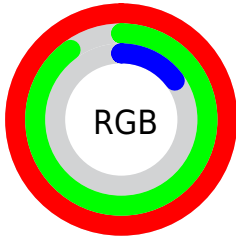
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	66, 255, 38
Decimal	16770598
CIE Lab	90.78, -8.95, 85.13
CIE LCh	91, 85.602, 95.999
Yxy	77.9936, 0.4339, 0.4842
Android (android.graphics.Color)	4294960678 (0xFFFFE626)
YUV	215.5870, -87.5504, 34.5652
Hunter-Lab	88.3140, -13.2851, 52.9631

# Details

The Yxy color **77.9936, 0.4339, 0.4842** is a light color, and the websafe version is hex **FFFF33**. The color can be described as light washed yellow. A complement of this color would be **11.1699, 0.1617, 0.0876**, and the grayscale version is **68.9308, 0.3127, 0.3290**.

A 20% lighter version of the original color is **93.7999, 0.3965, 0.4675**, and **42.1293, 0.4377, 0.4907** is the 20% darker color. If you saturate the color by 10%, you get **76.2609, 0.4396, 0.4873**, and if you desaturate by 10%, it is **79.8648, 0.4254, 0.4767**.

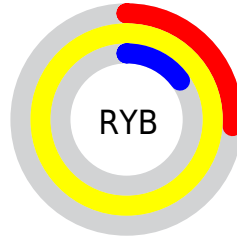
# Distribution



Red (100%)

Green (90%)

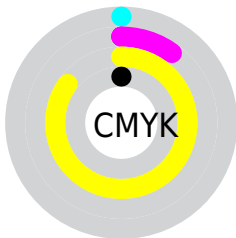
Blue (15%)



Red (26%)

Yellow (100%)

Blue (15%)

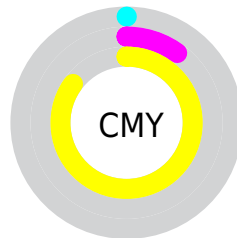


Cyan (0%)

Magenta (10%)

Yellow (85%)

Black (0%)



Cyan (0%)

Magenta (10%)


Yellow (85%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 77.9936, 0.4339, 0.4842 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 77.9936, 0.4339, 0.4842 by changing the saturation by 10% instead.





 77.9936, 0.4339,  
0.4842


 77.9936, 0.4339,  
0.4842

488.1451, 0.3871,  
0.4205


 58.0687, 0.4412,  
0.4954


 130.5411, 0.4203,  
0.4646

 41.8639, 0.4484,  
0.5073

 163.9325, 0.4142,  
0.4562


 28.9947, 0.4548,  
0.5195

 202.5816, 0.4086,  
0.4487

 19.0768, 0.4615,  
0.5338

 246.8726, 0.4035,  
0.4418

 11.7258, 0.4595,  
0.5405

 297.1901, 0.3988,  
0.4357

 6.5573, 0.4534,  
0.5466

353.9184, 0.3946,

 3.1868, 0.4440,

0.4301

417.4420, 0.3907,  
0.4251

0.5560

■ 1.2300, 0.4273,  
0.5727

■ 0.0860, 0.0000,  
1.0000

■ 77.9936, 0.4339,  
0.4842

■ 77.9936, 0.4339,  
0.4842

■ 76.2609, 0.4396,  
0.4873


■ 79.8648, 0.4254,  
0.4767

■ 75.4574, 0.4416,  
0.4876


■ 81.8964, 0.4141,  
0.4646


■ 84.1041, 0.4005,  
0.4485

■ 86.5016, 0.3853,  
0.4293

 89.1015, 0.3691,  
0.4079

 91.9148, 0.3525,  
0.3854

 94.9517, 0.3362,  
0.3626

 98.2220, 0.3205,  
0.3402

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.



77.9936, 0.4949, 0.4184



77.9936, 0.4339, 0.4842



77.9936, 0.3469, 0.5166

# Triad

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



77.9936, 0.4339, 0.4842



77.9936, 0.1521, 0.2611



77.9936, 0.3496, 0.2297

# Complementary

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



77.9936, 0.4339, 0.4842



11.1699, 0.1617, 0.0876

# 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.



77.9936, 0.2527, 0.1947



77.9936, 0.4339, 0.4842



77.9936, 0.1532, 0.2041

# Square

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



77.9936, 0.4339, 0.4842



77.9936, 0.1858, 0.3610



77.9936, 0.1860, 0.1848



77.9936, 0.4494, 0.2842



# Rectangle

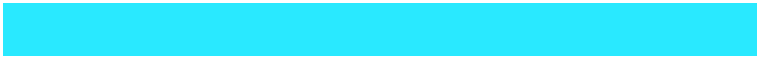
The Rectangle color scheme consists of four colors that form a rectangle on the color wheel.



77.9936, 0.4339, 0.4842



77.9936, 0.2852, 0.4960



77.9936, 0.1860, 0.1848



77.9936, 0.3150, 0.2155

# Sweetspot

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



77.9929, 0.4339, 0.4842



91.6670, 0.3539, 0.3873



22.9989, 0.5888, 0.3162



19.4080, 0.3597, 0.3952



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.



77.9929, 0.4339, 0.4842



75.4574, 0.4416, 0.4876



80.4033, 0.3585, 0.5432



20.7125, 0.3272, 0.3498



39.5705, 0.4412, 0.4879



3.9499, 0.4383, 0.4902



# Inverse Universe

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



11.1699, 0.1617, 0.0876



8.1165, 0.1519, 0.0666



12.6701, 0.1974, 0.0939



17.7144, 0.2979, 0.3073



4.3472, 0.1523, 0.0681



0.5267, 0.1563, 0.0825



# Previews

## White Background



This preview shows how the Yxy color 77.9936, 0.4339, 0.4842 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

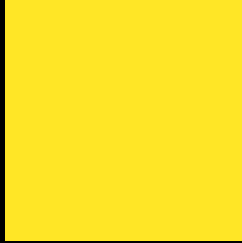
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 77.9936, 0.4339, 0.4842 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 77.9936, 0.4339, 0.4842**

## Background



This preview shows how black text looks on a background with the Yxy color 77.9936, 0.4339, 0.4842.



This preview shows how white text looks on a background with the Yxy color 77.9936, 0.4339, 0.4842.

# 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

77.9936, 0.4339, 0.4842

### Protanopia

77.9232, 0.4210, 0.4632

### Deuteranopia

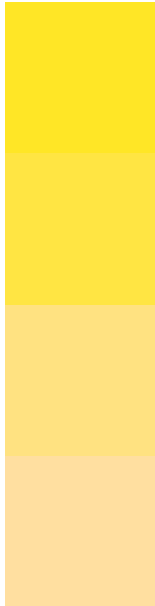
77.9075, 0.3650, 0.3730



## Tritanopia

77.6362, 0.3313, 0.3181

# Trichromacy



## Original Color

77.9936, 0.4339, 0.4842

## Protanomaly

77.7039, 0.4270, 0.4721

## Deuteranomaly

77.2377, 0.3989, 0.4256

## Tritanomaly

76.5734, 0.3800, 0.3933

# Monochromacy



## Original Color

77.9936, 0.4339, 0.4842

## Achromatopsia

68.6685, 0.3127, 0.3290

## Achromatomaly

70.7703, 0.3674, 0.4058

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 77.9936, 0.4339, 0.4842 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, 230, 38)` looks like.

```
.text, #text, p{  
    color:rgb(255, 230, 38)  
}
```

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, 230, 38) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(255, 230, 38) }
```

## Border

The CSS property to change the border of an element to Yxy 77.9936, 0.4339, 0.4842 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, 230, 38) }
```

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

```
.border{ border-color:rgb(255, 230, 38) }
```

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

Here you see how a box with a 4 pixel `rgb(255, 230, 38)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(255, 230, 38); -webkit-box-  
shadow:4px 4px 4px 4px rgb(255, 230, 38);  
box-shadow:4px 4px 4px 4px rgb(255, 230,  
38) }
```



# Background

The CSS property to change the background color of an element to Yxy 77.9936, 0.4339, 0.4842 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(255, 230, 38) }
```

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

```
.background{ background-color: rgb(255,  
230, 38) }
```

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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