

# Converting Colors

$Y_{xy}(82.5851, 0.4152, 0.4919)$

Have a look what the booklet for  
Yxy(82.5851, 0.4152, 0.4919)  
contains.

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# **Color**

**Yxy(82.5801, 0.4153, 0.4916)**

# Conversions

## Conversions Part 1

Format	Color
Hex	F5F135
RGB	245, 241, 53
RGB Percent	96%, 95%, 21%
CMY	0.0391, 0.0549, 0.7919
CMYK	0.00, 0.02, 0.78, 0.04
HSL	59°, 91%, 58%
HSV	59°, 78%, 96%
XYZ	69.7631, 82.5801, 15.6392
YIQ	220.7640, 62.7320, -57.6200

# Conversions

## Conversions Part 2

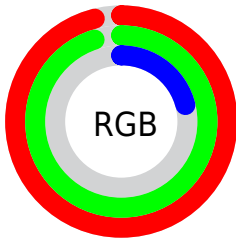
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	57, 245, 53
Decimal	16118069
CIE <sub>Lab</sub>	92.83, -18.07, 82.90
CIE <sub>LCh</sub>	93, 84.845, 102.299
Yxy	82.5801, 0.4153, 0.4916
Android (android.graphics.Color)	4294308149 (0xFFFF5F135)
YUV	220.7640, -82.7077, 21.2550
Hunter-Lab	90.8736, -21.9955, 53.4078

# Details

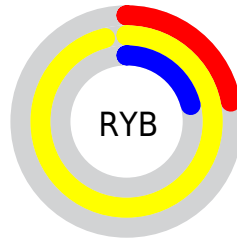
The Yxy color **82.5801, 0.4153, 0.4916** is a light color, and the websafe version is hex **FFFF33**. The color can be described as light washed yellow. A complement of this color would be **10.2905, 0.1659, 0.0879**, and the grayscale version is **72.7013, 0.3127, 0.3290**.

A 20% lighter version of the original color is **94.0410, 0.3917, 0.4595**, and **45.0122, 0.4193, 0.5053** is the 20% darker color. If you saturate the color by 10%, you get **82.1085, 0.4202, 0.4987**, and if you desaturate by 10%, it is **83.1754, 0.4076, 0.4800**.

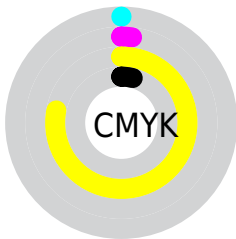
# Distribution



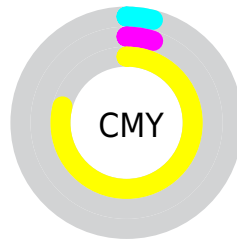
- Red (96%)
- Green (95%)
- Blue (21%)



- Red (22%)
- Yellow (96%)
- Blue (21%)



- Cyan (0%)
- Magenta (2%)
- Yellow (78%)
- Black (4%)




- Cyan (4%)
- Magenta (5%)
- Yellow (79%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 82.5801, 0.4153, 0.4916 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 82.5801, 0.4153, 0.4916 by changing the saturation by 10% instead.




 82.5801, 0.4153,  
0.4916


 82.5801, 0.4153,  
0.4916


503.5860, 0.3768,  
0.4226


 61.8438, 0.4211,  
0.5045


 136.9872, 0.4043,  
0.4698

 44.9065, 0.4266,  
0.5189

 171.4268, 0.3993,  
0.4606


 31.3838, 0.4311,  
0.5344


 211.2030, 0.3947,  
0.4525

 20.8913, 0.4338,  
0.5511

 256.7001, 0.3905,  
0.4452

 13.0445, 0.4323,  
0.5677

 308.3026, 0.3866,  
0.4386

 7.4592, 0.4206,  
0.5794

366.3948, 0.3831,

 3.7509, 0.4029,

0.4328

0.5971

431.3611, 0.3798,  
0.4274

■ 1.5352, 0.3723,  
0.6277

■ 0.3133, 0.0000,  
1.0000

■ 82.5801, 0.4153,  
0.4916

■ 82.5801, 0.4153,  
0.4916

■ 82.1085, 0.4202,  
0.4987

■ 83.1754, 0.4076,  
0.4800


■ 81.7274, 0.4228,  
0.5019

■ 83.8984, 0.3974,  
0.4642


■ 81.6681, 0.4231,  
0.5023

■ 84.7659, 0.3851,  
0.4448


■ 85.7893, 0.3710,  
0.4226

 86.9792, 0.3560,  
0.3986

 88.3448, 0.3405,  
0.3738

 89.8949, 0.3252,  
0.3491

 91.6376, 0.3103,  
0.3251

 92.3239, 0.3068,  
0.3199

# Harmonies

## Analogous

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



82.5801, 0.4817, 0.4316



82.5801, 0.4153, 0.4916



82.5801, 0.3277, 0.5089

# Triad

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



82.5801, 0.4153, 0.4916



82.5801, 0.1531, 0.2479



82.5801, 0.3704, 0.2419

# Complementary

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



82.5801, 0.4153, 0.4916



10.2905, 0.1659, 0.0879

# 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.



82.5801, 0.2722, 0.2029



82.5801, 0.4153, 0.4916



82.5801, 0.1607, 0.2004

# Square

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



82.5801, 0.4153, 0.4916



82.5801, 0.1789, 0.3373



82.5801, 0.1998, 0.1877



82.5801, 0.4620, 0.2983



# Rectangle

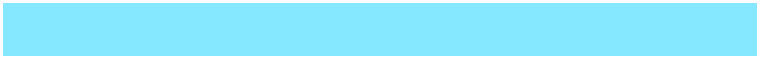
The Rectangle color scheme consists of four colors that form a rectangle on the color wheel.



82.5801, 0.4153, 0.4916



82.5801, 0.2682, 0.4763



82.5801, 0.1998, 0.1877



82.5801, 0.3362, 0.2266

# Sweetspot

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



82.5840, 0.4153, 0.4916



95.8485, 0.3494, 0.3880



22.2917, 0.5807, 0.3257



20.4050, 0.3549, 0.3968



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.



82.5840, 0.4153, 0.4916



89.6445, 0.4220, 0.5010



72.5934, 0.3490, 0.5400



19.2503, 0.3269, 0.3519



44.0120, 0.4230, 0.5023



3.8869, 0.4225, 0.5027



# Inverse Universe

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



10.2905, 0.1659, 0.0879



7.8363, 0.1523, 0.0645



14.9565, 0.2203, 0.1135



15.9824, 0.2979, 0.3050



3.6364, 0.1504, 0.0613

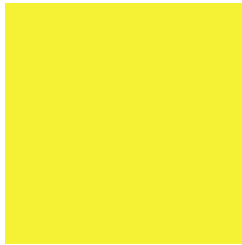


0.3389, 0.1513, 0.0646



# Previews

## White Background



This preview shows how the Yxy color 82.5801, 0.4153, 0.4916 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

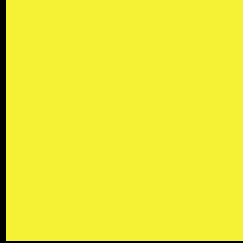
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 82.5801, 0.4153, 0.4916 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 82.5801, 0.4153, 0.4916**

## Background



This preview shows how black text looks on a background with the Yxy color 82.5801, 0.4153, 0.4916.



This preview shows how white text looks on a background with the Yxy color 82.5801, 0.4153, 0.4916.

# 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

82.5801, 0.4153, 0.4916

### Protanopia

82.5997, 0.3875, 0.4225

### Deuteranopia

82.5353, 0.3508, 0.3614



## Tritanopia

82.4894, 0.3237, 0.3162

# Trichromacy



## Original Color

82.5801, 0.4153, 0.4916



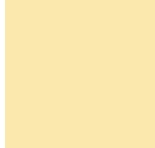
## Protanomaly

82.1817, 0.4013, 0.4528



## Deuteranomaly

82.0012, 0.3815, 0.4189



## Tritanomaly

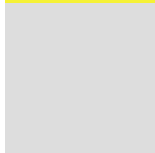
81.2010, 0.3658, 0.3904

# Monochromacy



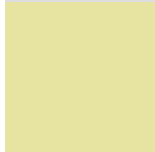
## Original Color

82.5801, 0.4153, 0.4916



## Achromatopsia

72.3055, 0.3127, 0.3290



## Achromatomaly

74.8479, 0.3592, 0.4029

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 82.5801, 0.4153, 0.4916 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(245, 241, 53)` looks like.

```
.text, #text, p{  
    color:rgb(245, 241, 53)  
}
```

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(245, 241, 53) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(245, 241, 53) }
```

## Border

The CSS property to change the border of an element to Yxy 82.5801, 0.4153, 0.4916 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(245, 241, 53) }
```

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

```
.border{ border-color:rgb(245, 241, 53) }
```

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

Here you see how a box with a 4 pixel `rgb(245, 241, 53)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(245, 241, 53); -webkit-box-  
shadow:4px 4px 4px 4px rgb(245, 241, 53);  
box-shadow:4px 4px 4px 4px rgb(245, 241,  
53) }
```



# Background

The CSS property to change the background color of an element to Yxy 82.5801, 0.4153, 0.4916 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(245, 241, 53) }
```

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

```
.background{ background-color: rgb(245,  
241, 53) }
```

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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