

# Converting Colors

$Y_{xy}(86.4270, 0.3894, 0.5198)$

Have a look what the booklet for  
Yxy(86.4270, 0.3894, 0.5198)  
contains.

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# **Color**

**Yxy(86.4117, 0.3894, 0.5198)**

# Conversions

## Conversions Part 1

Format	Color
Hex	D9FF26
RGB	217, 255, 38
RGB Percent	85%, 100%, 15%
CMY	0.1488, 0.0000, 0.8512
CMYK	0.15, 0.00, 0.85, 0.00
HSL	70°, 100%, 57%
HSV	70°, 85%, 100%
XYZ	64.7340, 86.4117, 15.0946
YIQ	218.9000, 47.0090, -75.5430

# Conversions

## Conversions Part 2

Format	Color
R <sub>Y</sub> B	38, 255, 76
Decimal	14286630
CIE Lab	94.49, -36.33, 86.99
CIE LCh	94, 94.267, 112.667
Yxy	86.4117, 0.3894, 0.5198
Android (android.graphics.Color)	4292476710 (0xFFD9FF26)
YUV	218.9000, -89.1837, -1.6663
Hunter-Lab	92.9579, -38.3726, 55.4429

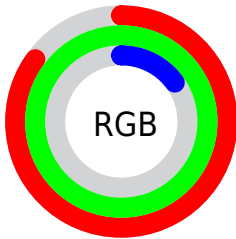
# Details

The Yxy color **86.4117, 0.3894, 0.5198** is a light color, and the websafe version is hex **CCFF33**.

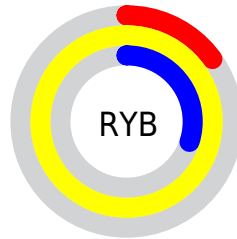
The color can be described as light washed yellow. A complement of this color would be **10.1341, 0.1706, 0.0796**, and the grayscale version is **71.3744, 0.3127, 0.3290**.

A 20% lighter version of the original color is **93.8627, 0.3952, 0.4654**, and **47.5563, 0.3830, 0.5341** is the 20% darker color. If you saturate the color by 10%, you get **85.6295, 0.3890, 0.5275**, and if you desaturate by 10%, it is **87.3326, 0.3873, 0.5075**.

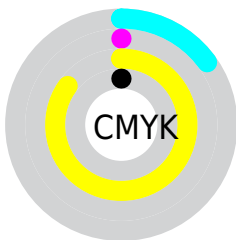
# Distribution



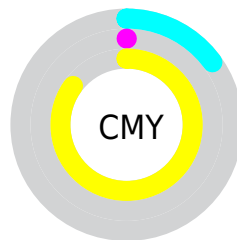
- Red (85%)
- Green (100%)
- Blue (15%)



- Red (15%)
- Yellow (100%)
- Blue (30%)



- Cyan (15%)
- Magenta (0%)
- Yellow (85%)
- Black (0%)




- Cyan (15%)
- Magenta (0%)
- Yellow (85%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 86.4117, 0.3894, 0.5198 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 86.4117, 0.3894, 0.5198 by changing the saturation by 10% instead.




 86.4117, 0.3894,  
0.5198


 86.4117, 0.3894,  
0.5198

516.2878, 0.3646,  
0.4363


 65.0085, 0.3918,  
0.5361

 142.3439, 0.3834,  
0.4928


 47.4679, 0.3931,  
0.5546


 177.6416, 0.3803,  
0.4817

 33.4057, 0.3923,  
0.5752


 218.3396, 0.3773,  
0.4718

 22.4374, 0.3883,  
0.5987

 264.8223, 0.3744,  
0.4631

 14.1787, 0.3773,  
0.6227

 317.4741, 0.3717,  
0.4553

 8.2450, 0.3546,  
0.6454


376.6793, 0.3692,


 4.2521, 0.3206,


0.4483


0.6794


442.8224, 0.3668,  
0.4420


 1.8156, 0.2599,  
0.7401


 0.4969, 0.0000,  
1.0000

 86.4117, 0.3894,  
0.5198


 86.4117, 0.3894,  
0.5198


 85.6295, 0.3890,  
0.5275


 87.3326, 0.3873,  
0.5075


 85.2796, 0.3881,  
0.5300


 88.4003, 0.3825,  
0.4906

 89.6350, 0.3752,  
0.4698

 91.0507, 0.3659,  
0.4459

 92.6596, 0.3551,  
0.4202

 94.4730, 0.3433,  
0.3936

 96.5010, 0.3311,  
0.3672

 98.7533, 0.3189,  
0.3416

99.9977, 0.3127,  
0.3290

# Harmonies

## Analogous

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



86.4117, 0.4725, 0.4612



86.4117, 0.3894, 0.5198



86.4117, 0.2928, 0.5150

# Triad

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



86.4117, 0.3894, 0.5198



86.4117, 0.1410, 0.2177



86.4117, 0.4135, 0.2541

# Complementary

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



86.4117, 0.3894, 0.5198



10.1341, 0.1706, 0.0796

# 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.



86.4117, 0.3028, 0.2055



86.4117, 0.3894, 0.5198



86.4117, 0.1604, 0.1822

# Square

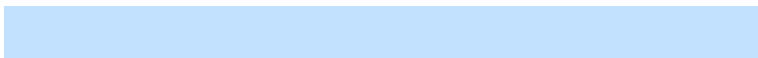
The Square scheme is like the rectangle color scheme, but the four colors are evenly spaced on the color wheel.



86.4117, 0.3894, 0.5198



86.4117, 0.1546, 0.2979



86.4117, 0.2135, 0.1802



86.4117, 0.4992, 0.3175



# Rectangle

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



86.4117, 0.3894, 0.5198



86.4117, 0.2324, 0.4583



86.4117, 0.2135, 0.1802



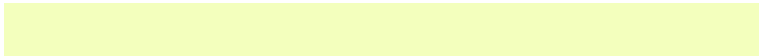
86.4117, 0.3765, 0.2357

# Sweetspot

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



86.4156, 0.3894, 0.5198



94.3084, 0.3443, 0.3960



26.3117, 0.5877, 0.3511



20.0477, 0.3485, 0.4052



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.



86.4156, 0.3894, 0.5198



85.2824, 0.3881, 0.5300



74.9909, 0.3235, 0.5697



20.9207, 0.3242, 0.3527



44.6206, 0.3887, 0.5296



4.3848, 0.3924, 0.5267



# Inverse Universe

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



10.1341, 0.1706, 0.0796



7.7686, 0.1567, 0.0637



18.6257, 0.2496, 0.1217



17.5304, 0.3006, 0.3046



4.1032, 0.1577, 0.0642

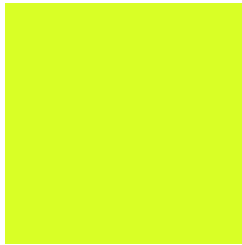


0.4395, 0.1669, 0.0693



# Previews

## White Background



This preview shows how the Yxy color 86.4117, 0.3894, 0.5198 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

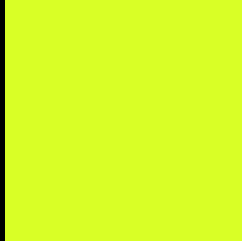
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 86.4117, 0.3894, 0.5198 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 86.4117, 0.3894, 0.5198**

## **Background**



This preview shows how black text looks on a background with the Yxy color 86.4117, 0.3894, 0.5198.

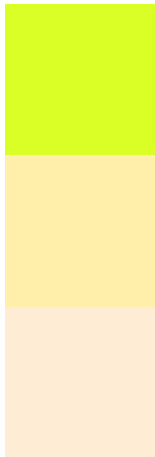


This preview shows how white text looks on a background with the Yxy color 86.4117, 0.3894, 0.5198.

# 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

86.4117, 0.3894, 0.5198

### Protanopia

85.9333, 0.3673, 0.3973

### Deuteranopia

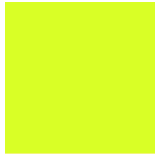
86.0044, 0.3412, 0.3530



## Tritanopia

85.7929, 0.3018, 0.3110

# Trichromacy



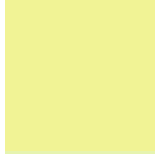
## Original Color

86.4117, 0.3894, 0.5198



## Protanomaly

85.4356, 0.3829, 0.4512



## Deuteranomaly

84.9719, 0.3694, 0.4256



## Tritanomaly

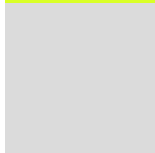
84.6590, 0.3450, 0.4011

# Monochromacy



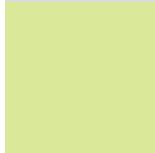
## Original Color

86.4117, 0.3894, 0.5198



## Achromatopsia

70.8376, 0.3127, 0.3290



## Achromatomaly

74.9186, 0.3535, 0.4169

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 86.4117, 0.3894, 0.5198 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(217, 255, 38)` looks like.

```
.text, #text, p{  
    color:rgb(217, 255, 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(217, 255, 38) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(217, 255, 38) }
```

## Border

The CSS property to change the border of an element to Yxy 86.4117, 0.3894, 0.5198 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(217, 255, 38) }
```

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

```
.border{ border-color:rgb(217, 255, 38) }
```

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

Here you see how a box with a 4 pixel `rgb(217, 255, 38)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(217, 255, 38); -webkit-box-  
shadow:4px 4px 4px 4px rgb(217, 255, 38);  
box-shadow:4px 4px 4px 4px rgb(217, 255,  
38) }
```



# Background

The CSS property to change the background color of an element to Yxy 86.4117, 0.3894, 0.5198 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(217, 255, 38) }
```

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

```
.background{ background-color: rgb(217,  
255, 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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