

# Converting Colors

$Y_{xy}(85.8102, 0.3906, 0.5280)$

Have a look what the booklet for  
Yxy(85.8102, 0.3906, 0.5280)  
contains.

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**Color**

**Yxy(85.8161, 0.3907, 0.5280)**

# Conversions

## Conversions Part 1

Format	Color
Hex	D6FF00
RGB	214, 255, 0
RGB Percent	84%, 100%, 0%
CMY	0.1606, 0.0000, 1.0000
CMYK	0.16, 0.00, 1.00, 0.00
HSL	70°, 100%, 50%
HSV	70°, 100%, 100%
XYZ	63.5007, 85.8161, 13.2137
YIQ	213.6710, 57.4190, -87.9970

# Conversions

## Conversions Part 2

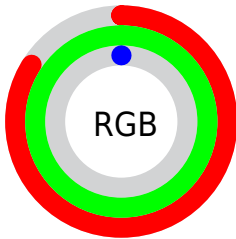
<b>Format</b>	<b>Color</b>
<b>RYB</b>	0, 255, 41
Decimal	14089984
CIELab	94.23, -38.04, 91.04
CIELCh	94, 98.668, 112.679
Yxy	85.8161, 0.3907, 0.5280
Android (android.graphics.Color)	4292280064 (0xFFD6FF00)
YUV	213.6710, -105.3398, 0.2885
Hunter-Lab	92.6370, -39.7568, 56.3888

# Details

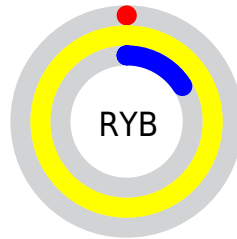
The Yxy color **85.8161, 0.3907, 0.5280** is a light color, and the websafe version is hex **CCFF00**. The color can be described as light saturated yellow. A complement of this color would be **7.6902, 0.1558, 0.0632**, and the grayscale version is **67.7129, 0.3127, 0.3290**.

A 20% lighter version of the original color is **93.6062, 0.4005, 0.4742**, and **47.2582, 0.3803, 0.5362** is the 20% darker color. If you saturate the color by 10%, you get **85.8202, 0.3907, 0.5280**, and if you desaturate by 10%, it is **86.5167, 0.3918, 0.5223**.

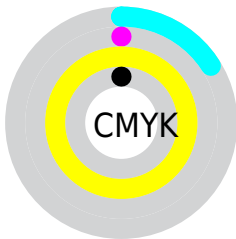
# Distribution



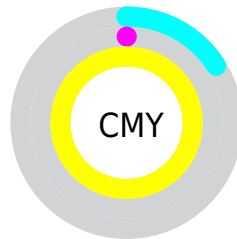
- Red (84%)
- Green (100%)
- Blue (0%)



- Red (0%)
- Yellow (100%)
- Blue (16%)



- Cyan (16%)
- Magenta (0%)
- Yellow (100%)
- Black (0%)




- Cyan (16%)
- Magenta (0%)
- Yellow (100%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 85.8161, 0.3907, 0.5280 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 85.8161, 0.3907, 0.5280 by changing the saturation by 10% instead.





 85.8161, 0.3907,  
0.5280

 85.8161, 0.3907,  
0.5280


514.3246, 0.3666,  
0.4415

 64.5159, 0.3926,  
0.5446


 141.5128, 0.3852,  
0.5003


 47.0687, 0.3931,  
0.5632


 176.6782, 0.3823,  
0.4888

 33.0899, 0.3910,  
0.5836


 217.2340, 0.3793,  
0.4786

 22.1954, 0.3867,  
0.6086

 263.5648, 0.3765,  
0.4695

 14.0005, 0.3714,  
0.6286

 316.0548, 0.3738,  
0.4613

 8.1210, 0.3474,  
0.6526


 375.0885, 0.3712,


 4.1725, 0.3114,


0.4540


0.6886


441.0503, 0.3688,  
0.4475


 1.7705, 0.2432,  
0.7568


 0.4687, 0.0000,  
1.0000


 85.8161, 0.3907,  
0.5280


 85.8161, 0.3907,  
0.5280

 85.8202, 0.3907,  
0.5280


 86.5167, 0.3918,  
0.5223


 87.3231, 0.3907,  
0.5126


 88.2683, 0.3869,  
0.4982


 89.3701, 0.3806,  
0.4795

 90.6433, 0.3719,  
0.4573

 92.1011, 0.3615,  
0.4325

 93.7550, 0.3499,  
0.4064

 95.6157, 0.3375,  
0.3799

 97.6932, 0.3250,  
0.3539

# Harmonies

## Analogous

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



85.8161, 0.4776, 0.4646



85.8161, 0.3907, 0.5280



85.8161, 0.2906, 0.5254

# Triad

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



85.8161, 0.3907, 0.5280



85.8161, 0.1349, 0.2125



85.8161, 0.4182, 0.2508

# Complementary

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



85.8161, 0.3907, 0.5280



7.6902, 0.1558, 0.0632

# 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.



85.8161, 0.3020, 0.2009



85.8161, 0.3907, 0.5280



85.8161, 0.1549, 0.1766

# Square

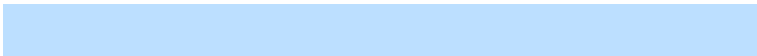
The Square scheme is like the rectangle color scheme, but the four colors are evenly spaced on the color wheel.



85.8161, 0.3907, 0.5280



85.8161, 0.1484, 0.2955



85.8161, 0.2094, 0.1748



85.8161, 0.5081, 0.3159



# Rectangle

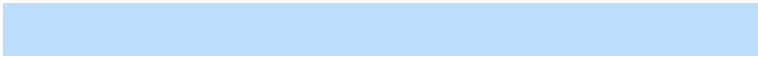
The Rectangle color scheme consists of four colors that form a rectangle on the color wheel.



85.8161, 0.3907, 0.5280



85.8161, 0.2281, 0.4656



85.8161, 0.2094, 0.1748



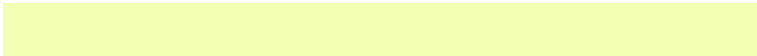
85.8161, 0.3793, 0.2320

# Sweetspot

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



85.8202, 0.3907, 0.5280



93.7583, 0.3499, 0.4064



22.6615, 0.6282, 0.3394



19.9136, 0.3549, 0.4175



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.



85.8202, 0.3907, 0.5280



85.8233, 0.3907, 0.5280



73.6536, 0.3175, 0.5861



20.9344, 0.3244, 0.3527



44.8996, 0.3912, 0.5276



4.4095, 0.3946, 0.5249



# Inverse Universe

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



7.6902, 0.1558, 0.0632



7.6904, 0.1558, 0.0632



15.2995, 0.2329, 0.1057



17.5178, 0.3004, 0.3046



4.0595, 0.1567, 0.0637

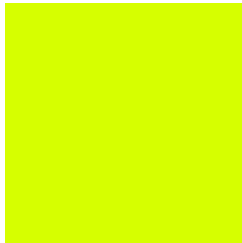


0.4334, 0.1655, 0.0686



# Previews

## White Background



This preview shows how the Yxy color 85.8161, 0.3907, 0.5280 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

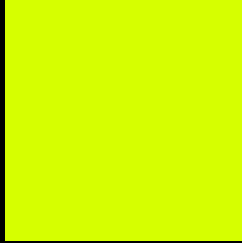
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 85.8161, 0.3907, 0.5280 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 85.8161, 0.3907, 0.5280**

## **Background**



This preview shows how black text looks on a background with the Yxy color 85.8161, 0.3907, 0.5280.



This preview shows how white text looks on a background with the Yxy color 85.8161, 0.3907, 0.5280.

# 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



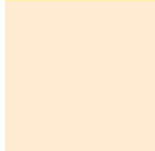
### Original Color

85.8161, 0.3907, 0.5280



### Protanopia

85.1622, 0.3708, 0.4013



### Deuteranopia

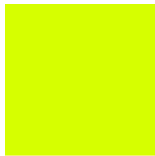
85.2801, 0.3433, 0.3551



## Tritanopia

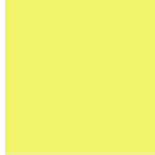
85.2808, 0.2999, 0.3109

# Trichromacy



## Original Color

85.8161, 0.3907, 0.5280



## Protanomaly

84.2672, 0.3910, 0.4647



## Deuteranomaly

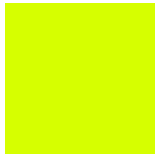
83.7230, 0.3781, 0.4402



## Tritanomaly

83.6409, 0.3513, 0.4165

# Monochromacy



## Original Color

85.8161, 0.3907, 0.5280



## Achromatopsia

67.2443, 0.3127, 0.3290



## Achromatomaly

72.1123, 0.3619, 0.4335

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 85.8161, 0.3907, 0.5280 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(214, 255, 0)` looks like.

```
.text, #text, p{  
    color:rgb(214, 255, 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(214, 255, 0) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(214, 255, 0) }
```

## Border

The CSS property to change the border of an element to Yxy 85.8161, 0.3907, 0.5280 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(214, 255, 0) }
```

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

```
.border{ border-color:rgb(214, 255, 0) }
```

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

Here you see how a box with a 4 pixel `rgb(214, 255, 0)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(214, 255, 0); -webkit-box-  
shadow:4px 4px 4px 4px rgb(214, 255, 0);  
box-shadow:4px 4px 4px 4px rgb(214, 255,  
0) }
```



# Background

The CSS property to change the background color of an element to Yxy 85.8161, 0.3907, 0.5280 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(214, 255, 0) }
```

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

```
.background{ background-color: rgb(214,  
255, 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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