

# Converting Colors

$Y_{xy}(82.9754, 0.3794, 0.4764)$

Have a look what the booklet for  
Yxy(82.9754, 0.3794, 0.4764)  
contains.

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**Color**

**Yxy(83.1688, 0.3790, 0.4769)**

# Conversions

## Conversions Part 1

| Format      | Color                       |
|-------------|-----------------------------|
| Hex         | DFF766                      |
| RGB         | 223, 247, 102               |
| RGB Percent | 87%, 97%, 40%               |
| CMY         | 0.1254, 0.0314, 0.6001      |
| CMYK        | 0.10, 0.00, 0.59, 0.03      |
| HSL         | 70°, 90%, 68%               |
| HSV         | 70°, 59%, 97%               |
| XYZ         | 66.0956, 83.1688, 25.1303   |
| YIQ         | 223.2940, 32.2410, -50.1830 |

# Conversions

## Conversions Part 2

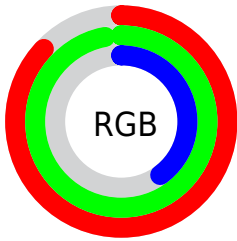
| Format                              | Color   |
|-------------------------------------|---|
| <a href="#">RYB</a>                 | <a href="#">102, 247, 126</a>                   |
| Decimal                             | <a href="#">14677862</a>                        |
| CIELab                              | <a href="#">93.09, -27.23, 65.40</a>            |
| CIELCh                              | <a href="#">93, 70.845, 112.605</a>             |
| Yxy                                 | <a href="#">83.1688, 0.3790,<br/>0.4769</a>     |
| Android<br>(android.graphics.Color) | <a href="#">4292867942<br/>(0xFFDFF766)</a>     |
| YUV                                 | <a href="#">223.2940, -59.7979,<br/>-0.2578</a> |
| Hunter-Lab                          | <a href="#">91.1969, -30.2256,<br/>47.4999</a>  |

# Details

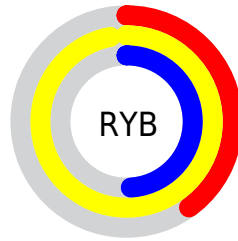
The Yxy color **83.1688, 0.3790, 0.4769** is a light color, and the websafe version is hex **CCFF66**. A complement of this color would be **20.6426, 0.2134, 0.1462**, and the grayscale version is **74.4313, 0.3127, 0.3290**.

A 20% lighter version of the original color is **95.2486, 0.3700, 0.4238**, and **45.4428, 0.3872, 0.5084** is the 20% darker color. If you saturate the color by 10%, you get **82.1127, 0.3856, 0.4962**, and if you desaturate by 10%, it is **84.3940, 0.3702, 0.4542**.

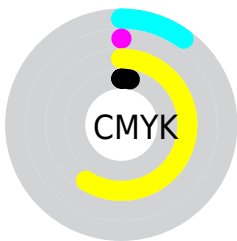
# Distribution



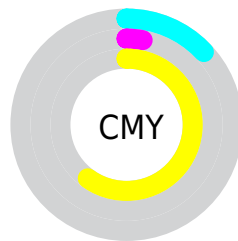
- Red (87%)
- Green (97%)
- Blue (40%)



- Red (40%)
- Yellow (97%)
- Blue (49%)



- Cyan (10%)
- Magenta (0%)
- Yellow (59%)
- Black (3%)



- Cyan (13%)
- Magenta (3%)
- Yellow (60%)

# Brightness & Saturation Gradients

These gradients show how the Yxy color 83.1688, 0.3790, 0.4769 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 83.1688, 0.3790, 0.4769 by changing the saturation by 10% instead.





 83.1688, 0.3790,  
0.4769

 83.1688, 0.3790,  
0.4769


505.5489, 0.3536,  
0.4098

 62.3294, 0.3831,  
0.4912


 137.8119, 0.3715,  
0.4543


 45.2989, 0.3873,  
0.5080


 172.3843, 0.3682,  
0.4453

 31.6929, 0.3910,  
0.5280


 212.3032, 0.3651,  
0.4375

 21.1271, 0.3933,  
0.5517

 257.9531, 0.3624,  
0.4306

 13.2169, 0.3927,  
0.5800

309.7181, 0.3599,  
0.4244

 7.5781, 0.3860,  
0.6140

367.9829, 0.3576,

 3.8262, 0.3590,

0.4190

0.6410

433.1317, 0.3555,  
0.4142

■ 1.5768, 0.3112,  
0.6888

■ 0.3419, 0.0000,  
1.0000

■ 83.1688, 0.3790,  
0.4769

■ 83.1688, 0.3790,  
0.4769

■ 82.1127, 0.3856,  
0.4962

■ 84.3940, 0.3702,  
0.4542

■ 81.2009, 0.3896,  
0.5113


■ 85.7889, 0.3597,  
0.4292


■ 80.4212, 0.3910,  
0.5218

■ 87.3678, 0.3480,  
0.4030

■ 79.7504, 0.3901,  
0.5280

■ 89.1407, 0.3357,  
0.3765

 79.6683, 0.3899,  
0.5286

 91.1164, 0.3233,  
0.3506

 93.3035, 0.3112,  
0.3259

 94.3634, 0.3109,  
0.3213

 95.0014, 0.3131,  
0.3214

# Harmonies

## Analogous

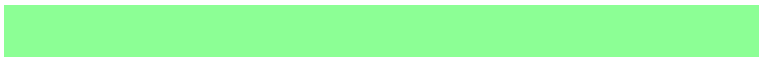
The Analogous color harmony consists of three colors that are next to each other on the color wheel.



83.1688, 0.4427, 0.4396



83.1688, 0.3790, 0.4769



83.1688, 0.3019, 0.4656

# Triad

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



83.1688, 0.3790, 0.4769



83.1688, 0.1738, 0.2439



83.1688, 0.3903, 0.2704

# Complementary

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



83.1688, 0.3790, 0.4769



20.6426, 0.2134, 0.1462

# 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.



83.1688, 0.3064, 0.2297



83.1688, 0.3790, 0.4769



83.1688, 0.1900, 0.2120

# Square

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



83.1688, 0.3790, 0.4769



83.1688, 0.1872, 0.3086



83.1688, 0.2349, 0.2087



83.1688, 0.4552, 0.3241



# Rectangle

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



83.1688, 0.3790, 0.4769



83.1688, 0.2531, 0.4242



83.1688, 0.2349, 0.2087



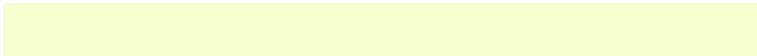
83.1688, 0.3626, 0.2550

# Sweetspot

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



83.1726, 0.3790, 0.4769



95.9778, 0.3349, 0.3747



35.0785, 0.4802, 0.3514



20.4186, 0.3385, 0.3824



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.



83.1726, 0.3790, 0.4769



88.1363, 0.3863, 0.4986



74.2260, 0.3309, 0.5039



19.1669, 0.3243, 0.3526



42.1875, 0.3904, 0.5282



3.7439, 0.3942, 0.5252



# Inverse Universe

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



20.6426, 0.2134, 0.1462



15.5224, 0.1924, 0.1122



27.9794, 0.2715, 0.1712



16.0583, 0.3005, 0.3047



3.8393, 0.1571, 0.0639

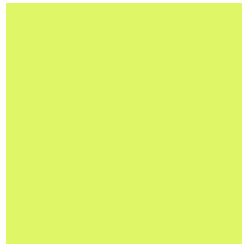


0.3747, 0.1672, 0.0695



# Previews

## White Background



This preview shows how the Yxy color 83.1688, 0.3790, 0.4769 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 83.1688, 0.3790, 0.4769 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 83.1688, 0.3790, 0.4769**

## **Background**



This preview shows how black text looks on a background with the Yxy color 83.1688, 0.3790, 0.4769.

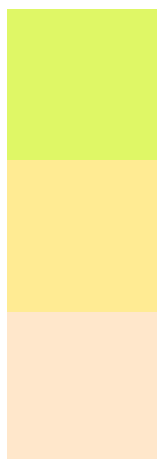


This preview shows how white text looks on a background with the Yxy color 83.1688, 0.3790, 0.4769.

# 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

83.1688, 0.3790, 0.4769

### Protanopia

82.7832, 0.3838, 0.4169

### Deuteranopia

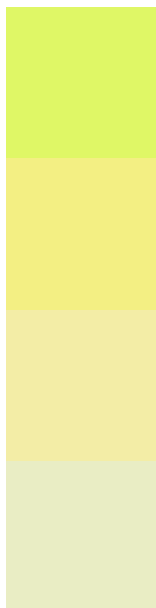
82.7236, 0.3481, 0.3573



## Tritanopia

82.9661, 0.3062, 0.3109

# Trichromacy



## Original Color

83.1688, 0.3790, 0.4769

## Protanomaly

82.4264, 0.3827, 0.4386

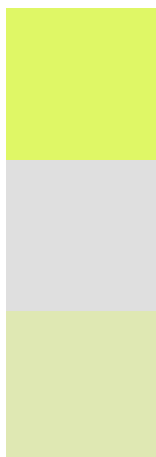
## Deuteranomaly

82.3762, 0.3624, 0.4027

## Tritanomaly

81.8775, 0.3359, 0.3724

# Monochromacy



## Original Color

83.1688, 0.3790, 0.4769

## Achromatopsia

73.7910, 0.3127, 0.3290

## Achromatomaly

76.6559, 0.3406, 0.3872

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 83.1688, 0.3790, 0.4769 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(223, 247, 102)` looks like.

```
.text, #text, p{  
    color:rgb(223, 247, 102)  
}
```

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(223, 247, 102) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(223, 247, 102) }
```

## Border

The CSS property to change the border of an element to Yxy 83.1688, 0.3790, 0.4769 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(223, 247, 102) }
```

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

```
.border{ border-color:rgb(223, 247, 102) }
```

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

Here you see how a box with a 4 pixel `rgb(223, 247, 102)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(223, 247, 102); -webkit-box-  
shadow:4px 4px 4px 4px rgb(223, 247, 102);  
box-shadow:4px 4px 4px 4px rgb(223, 247,  
102) }
```



# Background

The CSS property to change the background color of an element to Yxy 83.1688, 0.3790, 0.4769 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(223, 247, 102) }
```

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

```
.background{ background-color: rgb(223,  
247, 102) }
```

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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