

# Converting Colors

$Y_{xy}(102.1762, 0.3694, 0.5078)$

Have a look what the booklet for  
Yxy(102.1762, 0.3694, 0.5078)  
contains.

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# Color

**Yxy(87.4075, 0.3793, 0.4952)**

# Conversions

## Conversions Part 1

Format	Color
Hex	DCFF56
RGB	220, 255, 86
RGB Percent	86%, 100%, 34%
CMY	0.1374, 0.0000, 0.6626
CMYK	0.14, 0.00, 0.66, 0.00
HSL	72°, 100%, 67%
HSV	72°, 66%, 100%
XYZ	66.9500, 87.4075, 22.1519
YIQ	225.2690, 33.3890, -59.9790

# Conversions

## Conversions Part 2

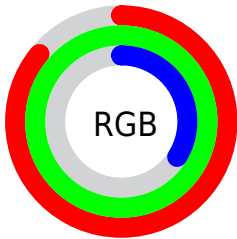
Format	Color
<a href="#">RYB</a>	<a href="#">86, 255, 121</a>
Decimal	<a href="#">14483286</a>
CIELab	<a href="#">94.91, -33.19, 73.60</a>
CIELCh	<a href="#">95, 80.733, 114.272</a>
Yxy	<a href="#">87.4075, 0.3793, 0.4952</a>
Android (android.graphics.Color)	<a href="#">4292673366 (0xFFDCFF56)</a>
YUV	<a href="#">225.2690, -68.6596, -4.6209</a>
Hunter-Lab	<a href="#">93.4920, -35.7863, 51.3962</a>

# Details

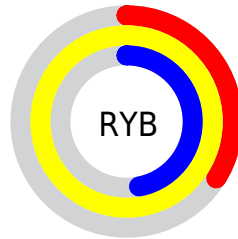
The Yxy color **87.4075, 0.3793, 0.4952** is a light color, and the websafe version is hex **CCFF66**. The color can be described as light muted yellow. A complement of this color would be **17.9493, 0.2036, 0.1249**, and the grayscale version is **75.9807, 0.3127, 0.3290**.

A 20% lighter version of the original color is **94.7632, 0.3782, 0.4373**, and **47.9943, 0.3852, 0.5288** is the 20% darker color. If you saturate the color by 10%, you get **86.2518, 0.3832, 0.5123**, and if you desaturate by 10%, it is **88.7288, 0.3729, 0.4741**.

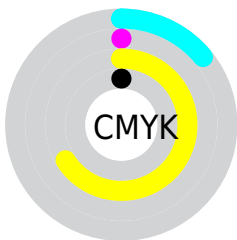
# Distribution



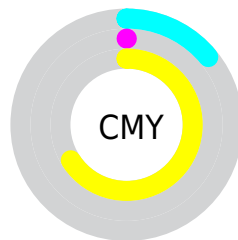
- Red (86%)
- Green (100%)
- Blue (34%)



- Red (34%)
- Yellow (100%)
- Blue (47%)



- Cyan (14%)
- Magenta (0%)
- Yellow (66%)
- Black (0%)




- Cyan (14%)
- Magenta (0%)
- Yellow (66%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 87.4075, 0.3793, 0.4952 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 87.4075, 0.3793, 0.4952 by changing the saturation by 10% instead.




 87.4075, 0.3793,  
0.4952

 87.4075, 0.3793,  
0.4952

519.5610, 0.3556,  
0.4207


 65.8325, 0.3825,  
0.5107


 143.7320, 0.3728,  
0.4704


 48.1364, 0.3854,  
0.5287


 179.2503, 0.3697,  
0.4604

 33.9349, 0.3871,  
0.5498


 220.1851, 0.3669,  
0.4517

 22.8436, 0.3865,  
0.5741

 266.9208, 0.3643,  
0.4440

 14.4781, 0.3835,  
0.6053

319.8419, 0.3618,  
0.4372

 8.4539, 0.3676,  
0.6324


379.3326, 0.3596,


 4.3868, 0.3371,


0.4311

0.6629


445.7776, 0.3575,  
0.4256


 1.8922, 0.2862,  
0.7138


 0.5437, 0.0000,  
1.0000


 87.4075, 0.3793,  
0.4952


 87.4075, 0.3793,  
0.4952


 86.2518, 0.3832,  
0.5123


 88.7288, 0.3729,  
0.4741


 85.2556, 0.3845,  
0.5247


 90.2405, 0.3644,  
0.4499


 84.3948, 0.3832,  
0.5325

 91.9516, 0.3543,  
0.4238

 84.0963, 0.3824,  
0.5346

 93.8737, 0.3432,  
0.3970

 96.0170, 0.3316,  
0.3703

 98.3913, 0.3199,  
0.3445

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.



87.4075, 0.4518, 0.4521



87.4075, 0.3793, 0.4952



87.4075, 0.2941, 0.4816

# Triad

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



87.4075, 0.3793, 0.4952



87.4075, 0.1607, 0.2308



87.4075, 0.4042, 0.2669

# Complementary

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



87.4075, 0.3793, 0.4952



17.9493, 0.2036, 0.1249

# 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.



87.4075, 0.3101, 0.2219



87.4075, 0.3793, 0.4952



87.4075, 0.1799, 0.1991

# Square

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



87.4075, 0.3793, 0.4952



87.4075, 0.1726, 0.2998



87.4075, 0.2300, 0.1978



87.4075, 0.4749, 0.3252



# Rectangle

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



87.4075, 0.3793, 0.4952



87.4075, 0.2412, 0.4321



87.4075, 0.2300, 0.1978



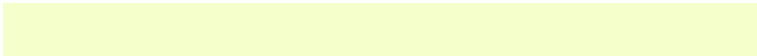
87.4075, 0.3733, 0.2500

# Sweetspot

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



87.4040, 0.3793, 0.4952



95.1894, 0.3360, 0.3802



35.3230, 0.5065, 0.3606



20.2457, 0.3392, 0.3877



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.



87.4040, 0.3793, 0.4952



85.8623, 0.3840, 0.5175



77.4872, 0.3258, 0.5291



20.8895, 0.3237, 0.3527



44.0082, 0.3830, 0.5341



4.3305, 0.3874, 0.5306



# Inverse Universe

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



17.9493, 0.2036, 0.1249



11.9298, 0.1810, 0.0908



26.7614, 0.2720, 0.1570



17.5591, 0.3011, 0.3046



4.2166, 0.1603, 0.0657

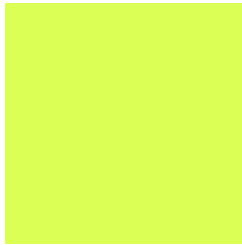


0.4545, 0.1703, 0.0712



# Previews

## White Background



This preview shows how the Yxy color 87.4075, 0.3793, 0.4952 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

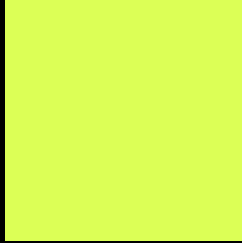
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 87.4075, 0.3793, 0.4952 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 87.4075, 0.3793, 0.4952**

## Background



This preview shows how black text looks on a background with the Yxy color 87.4075, 0.3793, 0.4952.

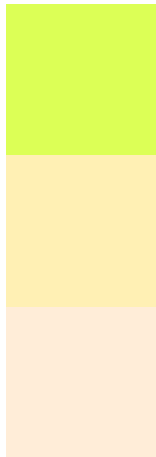


This preview shows how white text looks on a background with the Yxy color 87.4075, 0.3793, 0.4952.

# 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

87.4075, 0.3793, 0.4952

### Protanopia

86.8755, 0.3613, 0.3892

### Deuteranopia

86.7862, 0.3384, 0.3499



## Tritanopia

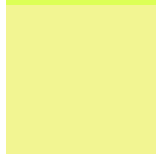
87.1301, 0.3025, 0.3131

# Trichromacy



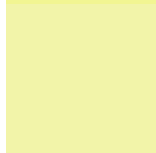
## Original Color

87.4075, 0.3793, 0.4952



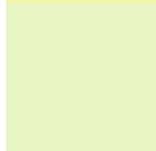
## Protanomaly

86.2574, 0.3711, 0.4299



## Deuteranomaly

86.4432, 0.3578, 0.4063



## Tritanomaly

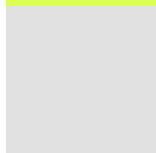
86.1888, 0.3345, 0.3827

# Monochromacy



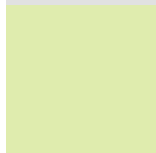
## Original Color

87.4075, 0.3793, 0.4952



## Achromatopsia

75.2942, 0.3127, 0.3290



## Achromatomaly

78.7349, 0.3430, 0.3967

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 87.4075, 0.3793, 0.4952 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(220, 255, 86)` looks like.

```
.text, #text, p{  
    color:rgb(220, 255, 86)  
}
```

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(220, 255, 86) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(220, 255, 86) }
```

## Border

The CSS property to change the border of an element to Yxy 87.4075, 0.3793, 0.4952 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(220, 255, 86) }
```

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

```
.border{ border-color:rgb(220, 255, 86) }
```

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

Here you see how a box with a 4 pixel `rgb(220, 255, 86)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(220, 255, 86); -webkit-box-  
shadow:4px 4px 4px 4px rgb(220, 255, 86);  
box-shadow:4px 4px 4px 4px rgb(220, 255,  
86) }
```



# Background

The CSS property to change the background color of an element to Yxy 87.4075, 0.3793, 0.4952 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(220, 255, 86) }
```

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

```
.background{ background-color: rgb(220,  
255, 86) }
```

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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