

# Converting Colors

$Y_{xy}(100.0000, 0.3589, 0.4895)$

Have a look what the booklet for  
Yxy(100.0000, 0.3589, 0.4895)  
contains.

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# Color

**Yxy(87.3112, 0.3658, 0.4763)**

# Conversions

## Conversions Part 1

Format	Color
Hex	D8FF71
RGB	216, 255, 113
RGB Percent	85%, 100%, 44%
CMY	0.1530, 0.0000, 0.5568
CMYK	0.15, 0.00, 0.56, 0.00
HSL	76°, 100%, 72%
HSV	76°, 56%, 100%
XYZ	67.0553, 87.3112, 28.9449
YIQ	227.1510, 22.3380, -52.4300

# Conversions

## Conversions Part 2

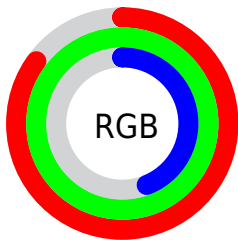
<b>Format</b>	<b>Color</b>
<b>RYB</b>	113, 255, 152
Decimal	14221169
CIELab	94.87, -32.78, 62.56
CIElCh	95, 70.625, 117.653
Yxy	87.3112, 0.3658, 0.4763
Android (android.graphics.Color)	4292411249 (0xFFD8FF71)
YUV	227.1510, -56.2764, -9.7794
Hunter-Lab	93.4405, -35.4246, 47.0422

# Details

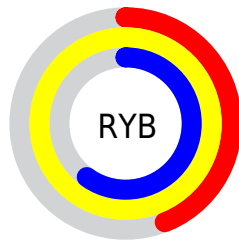
The Yxy color **87.3112, 0.3658, 0.4763** is a light color, and the websafe version is hex **CCFF66**. A complement of this color would be **25.7129, 0.2303, 0.1605**, and the grayscale version is **77.3325, 0.3127, 0.3290**.

A 20% lighter version of the original color is **95.6446, 0.3638, 0.4134**, and **47.9527, 0.3716, 0.5087** is the 20% darker color. If you saturate the color by 10%, you get **85.7675, 0.3711, 0.4990**, and if you desaturate by 10%, it is **89.0557, 0.3584, 0.4508**.

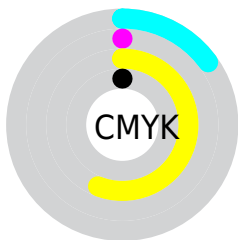
# Distribution



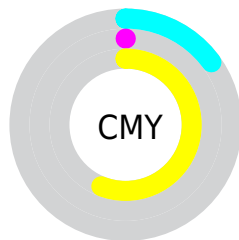
- Red (85%)
- Green (100%)
- Blue (44%)



- Red (44%)
- Yellow (100%)
- Blue (60%)



- Cyan (15%)
- Magenta (0%)
- Yellow (56%)
- Black (0%)




- Cyan (15%)
- Magenta (0%)
- Yellow (56%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 87.3112, 0.3658, 0.4763 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 87.3112, 0.3658, 0.4763 by changing the saturation by 10% instead.





 87.3112, 0.3658,  
0.4763


 87.3112, 0.3658,  
0.4763


519.2449, 0.3462,  
0.4089


 65.7528, 0.3688,  
0.4909

 143.5978, 0.3601,  
0.4535

 48.0717, 0.3717,  
0.5083


 179.0948, 0.3576,  
0.4444

 33.8837, 0.3741,  
0.5293


 220.0068, 0.3553,  
0.4365

 22.8043, 0.3751,  
0.5547

266.7181, 0.3531,  
0.4296

 14.4490, 0.3727,  
0.5853

319.6132, 0.3511,  
0.4235

 8.4336, 0.3690,  
0.6310

379.0764, 0.3493,

 4.3737, 0.3389,

0.4181

0.6611

445.4922, 0.3477,  
0.4133

■ 1.8847, 0.2886,  
0.7114

■ 0.5392, 0.0000,  
1.0000

■ 87.3112, 0.3658,  
0.4763

■ 87.3112, 0.3658,  
0.4763

■ 85.7675, 0.3711,  
0.4990

■ 89.0557, 0.3584,  
0.4508

■ 84.4191, 0.3740,  
0.5178


■ 91.0230, 0.3495,  
0.4236


■ 83.2464, 0.3743,  
0.5319

■ 93.2216, 0.3396,  
0.3961

■ 82.2286, 0.3721,  
0.5410

■ 95.6622, 0.3292,  
0.3690

 81.8240, 0.3706,  
0.5439

 98.3548, 0.3186,  
0.3430

100.0000, 0.3127,  
0.3290

# Harmonies

## Analogous

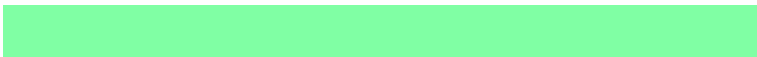
The Analogous color harmony consists of three colors that are next to each other on the color wheel.



87.3112, 0.4318, 0.4462



87.3112, 0.3658, 0.4763



87.3112, 0.2897, 0.4547

# Triad

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



87.3112, 0.3658, 0.4763



87.3112, 0.1767, 0.2380



87.3112, 0.4018, 0.2797

# Complementary

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



87.3112, 0.3658, 0.4763



25.7129, 0.2303, 0.1605

# 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.



87.3112, 0.3203, 0.2368



87.3112, 0.3658, 0.4763



87.3112, 0.1974, 0.2115

# Square

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



87.3112, 0.3658, 0.4763



87.3112, 0.1849, 0.2963



87.3112, 0.2465, 0.2125



87.3112, 0.4592, 0.3340



# Rectangle

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



87.3112, 0.3658, 0.4763



87.3112, 0.2434, 0.4088



87.3112, 0.2465, 0.2125



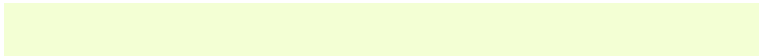
87.3112, 0.3756, 0.2637

# Sweetspot

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



87.3082, 0.3658, 0.4763



95.3258, 0.3305, 0.3725



44.5467, 0.4563, 0.3678



20.2959, 0.3327, 0.3779



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.



87.3082, 0.3658, 0.4763



85.5788, 0.3717, 0.5017



78.8370, 0.3211, 0.5001



20.8251, 0.3226, 0.3528



42.8329, 0.3714, 0.5433



4.2248, 0.3770, 0.5388



# Inverse Universe

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



25.7129, 0.2303, 0.1605



18.4177, 0.2103, 0.1265



34.5430, 0.2890, 0.1847



17.6193, 0.3022, 0.3047



4.5177, 0.1670, 0.0694

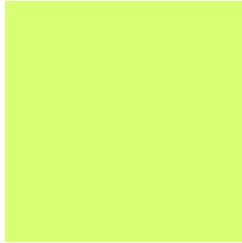


0.4914, 0.1784, 0.0756



# Previews

## White Background



This preview shows how the Yxy color 87.3112, 0.3658, 0.4763 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

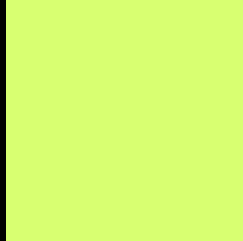
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 87.3112, 0.3658, 0.4763 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 87.3112, 0.3658, 0.4763**

## Background



This preview shows how black text looks on a background with the Yxy color 87.3112, 0.3658, 0.4763.

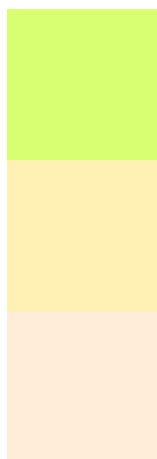


This preview shows how white text looks on a background with the Yxy color 87.3112, 0.3658, 0.4763.

# 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

87.3112, 0.3658, 0.4763

### Protanopia

86.8755, 0.3613, 0.3892

### Deuteranopia

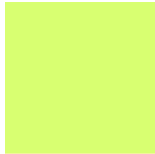
86.8381, 0.3377, 0.3489



## Tritanopia

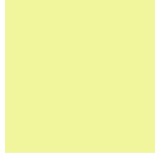
87.2023, 0.3006, 0.3140

# Trichromacy



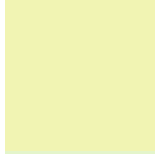
## Original Color

87.3112, 0.3658, 0.4763



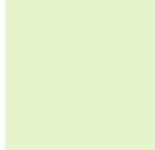
## Protanomaly

86.4059, 0.3646, 0.4204



## Deuteranomaly

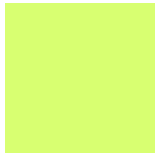
86.6568, 0.3509, 0.3961



## Tritanomaly

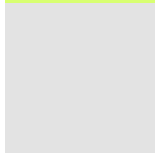
86.1106, 0.3270, 0.3733

# Monochromacy



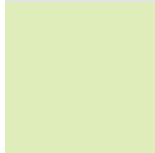
## Original Color

87.3112, 0.3658, 0.4763



## Achromatopsia

76.8151, 0.3127, 0.3290



## Achromatomaly

79.8015, 0.3352, 0.3845

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 87.3112, 0.3658, 0.4763 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(216, 255, 113)` looks like.

```
.text, #text, p{  
    color:rgb(216, 255, 113)  
}
```

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(216, 255, 113) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(216, 255, 113) }
```

## Border

The CSS property to change the border of an element to Yxy 87.3112, 0.3658, 0.4763 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(216, 255, 113) }
```

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

```
.border{ border-color:rgb(216, 255, 113) }
```

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

Here you see how a box with a 4 pixel `rgb(216, 255, 113)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(216, 255, 113); -webkit-box-  
shadow:4px 4px 4px 4px rgb(216, 255, 113);  
box-shadow:4px 4px 4px 4px rgb(216, 255,  
113) }
```



# Background

The CSS property to change the background color of an element to Yxy 87.3112, 0.3658, 0.4763 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(216, 255, 113) }
```

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

```
.background{ background-color: rgb(216,  
255, 113) }
```

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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