

# Converting Colors

$Y_{xy}(100.0000, 0.2946, 0.4063)$

Have a look what the booklet for  
Yxy(100.0000, 0.2946, 0.4063)  
contains.

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# Color

**Yxy(85.4412, 0.2938, 0.3846)**

# Conversions

## Conversions Part 1

Format	Color
Hex	B2FFCE
RGB	178, 255, 206
RGB Percent	70%, 100%, 81%
CMY	0.3018, 0.0000, 0.1921
CMYK	0.30, 0.00, 0.19, 0.00
HSL	142°, 100%, 85%
HSV	142°, 30%, 100%
XYZ	65.2694, 85.4412, 71.4454
YIQ	226.3910, -30.1630, -31.5630

# Conversions

## Conversions Part 2

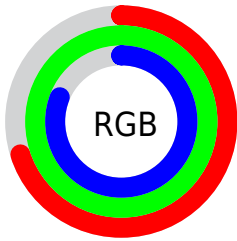
<b>Format</b>	<b>Color</b>
<b>RYB</b>	178, 234, 255
Decimal	11730894
CIELab	94.07, -33.33, 15.99
CIELCh	94, 36.964, 154.374
Yxy	85.4412, 0.2938, 0.3846
Android (android.graphics.Color)	4289920974 (0xFFB2FFCE)
YUV	226.3910, -10.0528, -42.4389
Hunter-Lab	92.4344, -35.7185, 18.8770

# Details

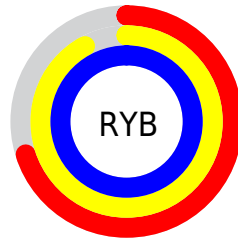
The Yxy color **85.4412, 0.2938, 0.3846** is a light color, and the websafe version is hex **99FFCC**. A complement of this color would be **58.6693, 0.3383, 0.2794**, and the grayscale version is **76.4512, 0.3127, 0.3290**.

A 20% lighter version of the original color is **96.4022, 0.3005, 0.3290**, and **46.8661, 0.2887, 0.3977** is the 20% darker color. If you saturate the color by 10%, you get **81.9536, 0.2884, 0.4070**, and if you desaturate by 10%, it is **89.5781, 0.2998, 0.3641**.

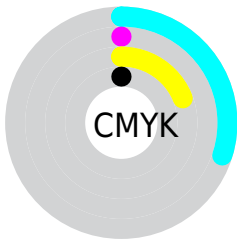
# Distribution



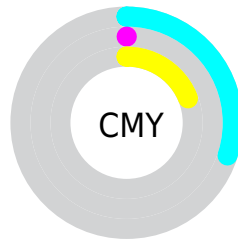
- Red (70%)
- Green (100%)
- Blue (81%)



- Red (70%)
- Yellow (92%)
- Blue (100%)



- Cyan (30%)
- Magenta (0%)
- Yellow (19%)
- Black (0%)



- Cyan (30%)
- Magenta (0%)
- Yellow (19%)

# Brightness & Saturation Gradients

These gradients show how the Yxy color 85.4412, 0.2938, 0.3846 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 85.4412, 0.2938, 0.3846 by changing the saturation by 10% instead.





 85.4412, 0.2938,  
0.3846

 85.4412, 0.2938,  
0.3846

513.0868, 0.3028,  
0.3586

 64.2060, 0.2917,  
0.3906

 140.9894, 0.2970,  
0.3755

 46.8175, 0.2890,  
0.3981

176.0713, 0.2982,  
0.3720

 32.8914, 0.2857,  
0.4076


216.5374, 0.2992,  
0.3690

 22.0433, 0.2811,  
0.4201

262.7723, 0.3001,  
0.3663

 13.8887, 0.2749,  
0.4372

315.1602, 0.3009,  
0.3640

 8.0433, 0.2656,  
0.4622


374.0857, 0.3016,


 4.1227, 0.2506,

0.3620

0.5015


439.9331, 0.3023,  
0.3602


 1.7424, 0.2233,  
0.5831


 0.4509, 0.0000,  
1.0000

 85.4412, 0.2938,  
0.3846


 85.4412, 0.2938,  
0.3846


 81.9536, 0.2884,  
0.4070


 89.5781, 0.2998,  
0.3641


 79.0710, 0.2840,  
0.4309

 94.3847, 0.3061,  
0.3457

 76.7604, 0.2808,  
0.4558

 99.8936, 0.3126,  
0.3293

 74.9807, 0.2793,  
0.4808

 99.9972, 0.3127,  
0.3290

■ 73.6856, 0.2796,  
0.5051

■ 72.8198, 0.2817,  
0.5274

■ 72.3010, 0.2852,  
0.5467

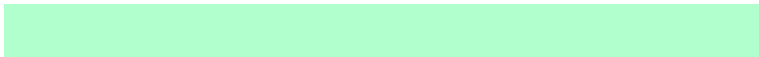
# Harmonies

## Analogous

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



85.4412, 0.3357, 0.4042



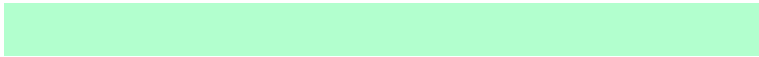
85.4412, 0.2938, 0.3846



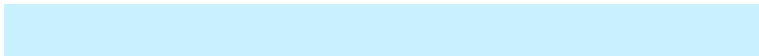
85.4412, 0.2586, 0.3468

# Triad

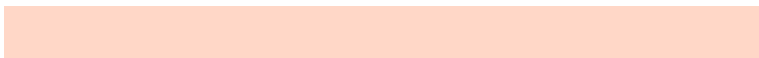
The Triadic color harmony groups three colors that are evenly spaced from another and form a triangle on the color wheel.



85.4412, 0.2938, 0.3846



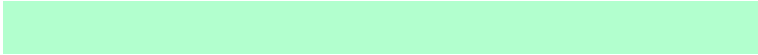
85.4412, 0.2532, 0.2617



85.4412, 0.3933, 0.3432

# Complementary

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



85.4412, 0.2938, 0.3846



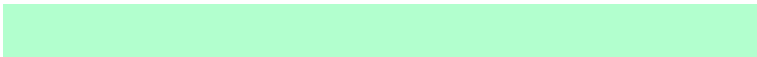
58.6693, 0.3383, 0.2794

# 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.



85.4412, 0.3682, 0.3095



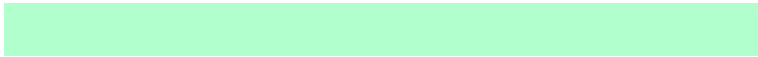
85.4412, 0.2938, 0.3846



85.4412, 0.2858, 0.2642

# Square

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



85.4412, 0.2938, 0.3846



85.4412, 0.2365, 0.2757



85.4412, 0.3279, 0.2815

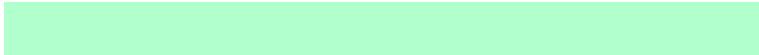


85.4412, 0.3947, 0.3760



# Rectangle

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



85.4412, 0.2938, 0.3846



85.4412, 0.2431, 0.3190



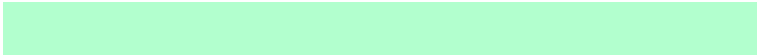
85.4412, 0.3279, 0.2815



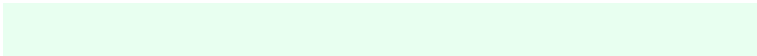
85.4412, 0.3873, 0.3317

# Sweetspot

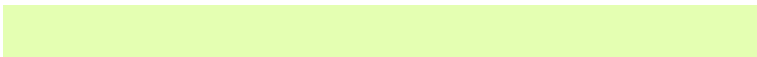
The Sweet Spot groups the original color and five complimentary colors.



85.4448, 0.2938, 0.3846



94.9985, 0.3069, 0.3436



91.2383, 0.3403, 0.4095



20.1721, 0.3060, 0.3462



0.0000, 0.0000, 0.0000

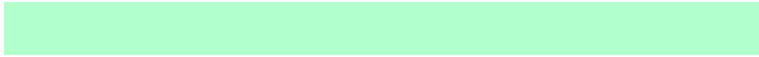


21.4041, 0.3127, 0.3290

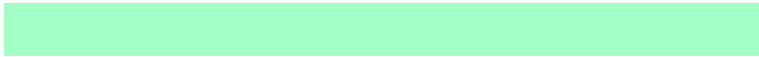


# Same Dimension

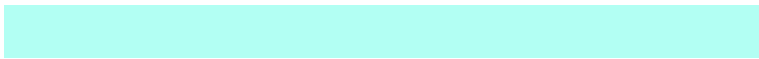
The Same Dimension uses a secret algorithm to generate beautiful new colors.



85.4448, 0.2938, 0.3846



83.3382, 0.2906, 0.3974



87.4869, 0.2747, 0.3415



20.2772, 0.3066, 0.3445



37.8064, 0.2843, 0.5436



3.7012, 0.2780, 0.5209



# Inverse Universe

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



58.6693, 0.3383, 0.2794



52.7807, 0.3448, 0.2696



56.8208, 0.3707, 0.3171



18.1818, 0.3194, 0.3140



12.5083, 0.4395, 0.2195

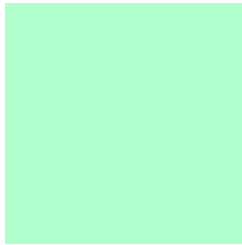


1.2389, 0.4224, 0.2100



# Previews

## White Background



This preview shows how the Yxy color 85.4412, 0.2938, 0.3846 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

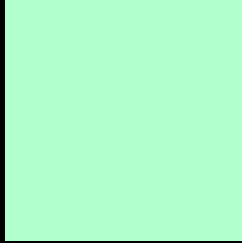
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 85.4412, 0.2938, 0.3846 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 85.4412, 0.2938, 0.3846**

## **Background**



This preview shows how black text looks on a background with the Yxy color 85.4412, 0.2938, 0.3846.

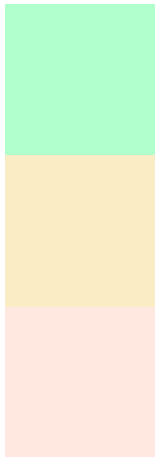


This preview shows how white text looks on a background with the Yxy color 85.4412, 0.2938, 0.3846.

# 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

85.4412, 0.2938, 0.3846

### Protanopia

84.3461, 0.3475, 0.3687

### Deuteranopia

84.3550, 0.3338, 0.3370



## Tritanopia

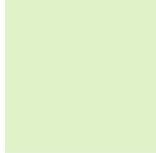
85.1701, 0.2860, 0.3165

# Trichromacy



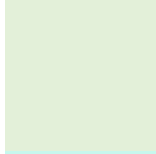
## Original Color

85.4412, 0.2938, 0.3846



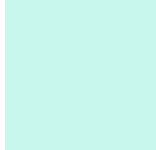
## Protanomaly

84.1186, 0.3263, 0.3749



## Deuteranomaly

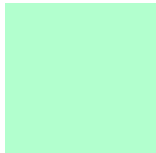
83.6608, 0.3182, 0.3532



## Tritanomaly

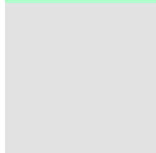
84.7781, 0.2889, 0.3397

# Monochromacy



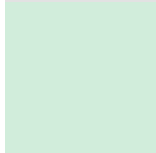
## Original Color

85.4412, 0.2938, 0.3846



## Achromatopsia

76.0525, 0.3127, 0.3290



## Achromatomaly

79.2382, 0.3052, 0.3487

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 85.4412, 0.2938, 0.3846 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(178, 255, 206)` looks like.

```
.text, #text, p{  
    color:rgb(178, 255, 206)  
}
```

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(178, 255, 206) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(178, 255, 206) }
```

## Border

The CSS property to change the border of an element to Yxy 85.4412, 0.2938, 0.3846 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(178, 255, 206) }
```

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

```
.border{ border-color:rgb(178, 255, 206) }
```

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

Here you see how a box with a 4 pixel `rgb(178, 255, 206)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(178, 255, 206); -webkit-box-  
shadow:4px 4px 4px 4px rgb(178, 255, 206);  
box-shadow:4px 4px 4px 4px rgb(178, 255,  
206) }
```



# Background

The CSS property to change the background color of an element to Yxy 85.4412, 0.2938, 0.3846 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(178, 255, 206) }
```

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

```
.background{ background-color: rgb(178,  
255, 206) }
```

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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