

# Converting Colors

$Y_{xy}(165.4789, 0.2966, 0.4681)$

Have a look what the booklet for  
Yxy(165.4789, 0.2966, 0.4681)  
contains.

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# Color

**Yxy(85.1789, 0.2948, 0.3883)**

# Conversions

## Conversions Part 1

Format	Color
Hex	B1FFCB
RGB	177, 255, 203
RGB Percent	69%, 100%, 80%
CMY	0.3059, 0.0000, 0.2040
CMYK	0.31, 0.00, 0.20, 0.00
HSL	140°, 100%, 85%
HSV	140°, 31%, 100%
XYZ	64.6684, 85.1789, 69.5163
YIQ	225.7500, -29.7960, -32.7080

# Conversions

## Conversions Part 2

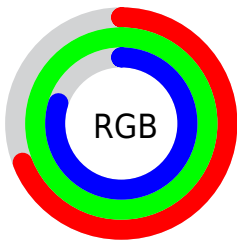
Format	Color
<b>RYB</b>	177, 236, 255
Decimal	11665355
CIELab	93.96, -34.20, 17.37
CIELCh	94, 38.359, 153.073
Yxy	85.1789, 0.2948, 0.3883
Android (android.graphics.Color)	4289855435 (0xFFB1FFCB)
YUV	225.7500, -11.2157, -42.7537
Hunter-Lab	92.2924, -36.4385, 19.9464

# Details

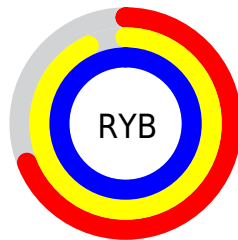
The Yxy color **85.1789, 0.2948, 0.3883** is a light color, and the websafe version is hex **99FFCC**. A complement of this color would be **58.3635, 0.3368, 0.2764**, and the grayscale version is **75.9596, 0.3127, 0.3290**.

A 20% lighter version of the original color is **96.2324, 0.2999, 0.3290**, and **46.6957, 0.2900, 0.4025** is the 20% darker color. If you saturate the color by 10%, you get **81.6912, 0.2898, 0.4119**, and if you desaturate by 10%, it is **89.3131, 0.3004, 0.3667**.

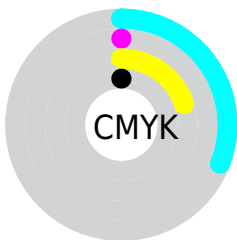
# Distribution



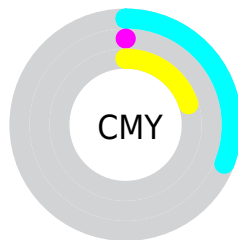
- Red (69%)
- Green (100%)
- Blue (80%)



- Red (69%)
- Yellow (93%)
- Blue (100%)



- Cyan (31%)
- Magenta (0%)
- Yellow (20%)
- Black (0%)




- Cyan (31%)
- Magenta (0%)
- Yellow (20%)

# Brightness & Saturation Gradients

These gradients show how the Yxy color 85.1789, 0.2948, 0.3883 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 85.1789, 0.2948, 0.3883 by changing the saturation by 10% instead.





 85.1789, 0.2948,  
0.3883

 85.1789, 0.2948,  
0.3883


512.2199, 0.3034,  
0.3605

 63.9892, 0.2928,  
0.3947


 140.6231, 0.2979,  
0.3786

 46.6419, 0.2902,  
0.4027


175.6464, 0.2990,  
0.3748

 32.7527, 0.2869,  
0.4130


216.0497, 0.3000,  
0.3716

 21.9371, 0.2824,  
0.4264


262.2174, 0.3009,  
0.3688

 13.8107, 0.2762,  
0.4449

314.5338, 0.3016,  
0.3663

 7.9891, 0.2669,  
0.4718


373.3835, 0.3023,


 4.0880, 0.2516,


0.3641


0.5142

439.1507, 0.3029,  
0.3622


 1.7229, 0.2244,  
0.6098


 0.4384, 0.0000,  
1.0000


 85.1789, 0.2948,  
0.3883


 85.1789, 0.2948,  
0.3883


 81.6912, 0.2898,  
0.4119

 89.3131, 0.3004,  
0.3667


 78.8188, 0.2857,  
0.4370


 94.1282, 0.3063,  
0.3472

 76.5234, 0.2828,  
0.4631

 99.6527, 0.3124,  
0.3300

 74.7636, 0.2815,  
0.4891

 100.0000, 0.3127,  
0.3290

 73.4920, 0.2820,  
0.5140

 72.6524, 0.2842,  
0.5365

 72.1746, 0.2874,  
0.5547

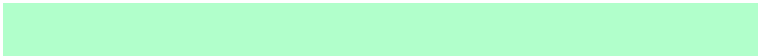
# Harmonies

## Analogous

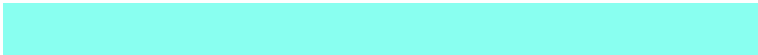
The Analogous color harmony consists of three colors that are next to each other on the color wheel.



85.1789, 0.3383, 0.4076



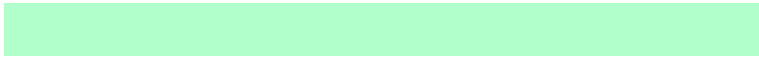
85.1789, 0.2948, 0.3883



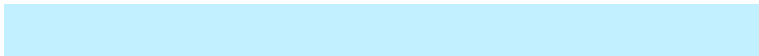
85.1789, 0.2578, 0.3493

# Triad

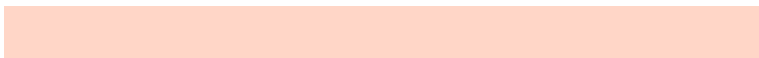
The Triadic color harmony groups three colors that are evenly spaced from another and form a triangle on the color wheel.



85.1789, 0.2948, 0.3883



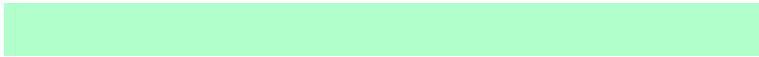
85.1789, 0.2498, 0.2595



85.1789, 0.3958, 0.3420

# Complementary

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



85.1789, 0.2948, 0.3883



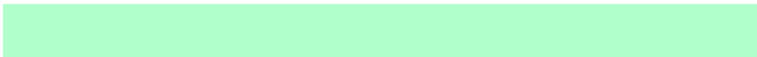
58.3635, 0.3368, 0.2764

# 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.



85.1789, 0.3688, 0.3073



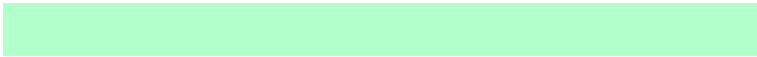
85.1789, 0.2948, 0.3883



85.1789, 0.2830, 0.2615

# Square

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



85.1789, 0.2948, 0.3883



85.1789, 0.2334, 0.2747



85.1789, 0.3265, 0.2787

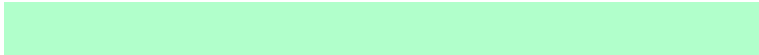


85.1789, 0.3983, 0.3762



# Rectangle

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



85.1789, 0.2948, 0.3883



85.1789, 0.2413, 0.3203



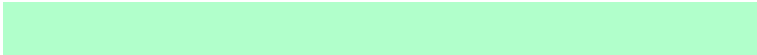
85.1789, 0.3265, 0.2787



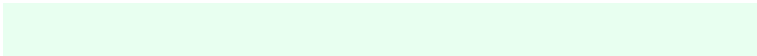
85.1789, 0.3893, 0.3302

# Sweetspot

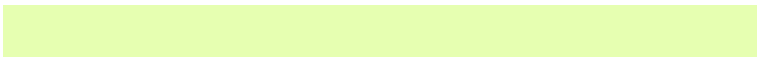
The Sweet Spot groups the original color and five complimentary colors.



85.1779, 0.2948, 0.3883



94.9572, 0.3073, 0.3444



91.5671, 0.3424, 0.4102



20.1620, 0.3064, 0.3470



0.0000, 0.0000, 0.0000

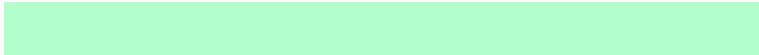


21.4041, 0.3127, 0.3290

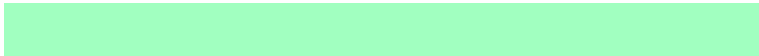


# Same Dimension

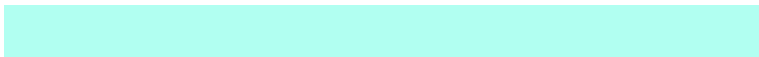
The Same Dimension uses a secret algorithm to generate beautiful new colors.



85.1779, 0.2948, 0.3883



82.8696, 0.2915, 0.4032



87.2003, 0.2755, 0.3446



20.2679, 0.3070, 0.3453



37.7374, 0.2866, 0.5518



3.6937, 0.2803, 0.5291



# Inverse Universe

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



58.3635, 0.3368, 0.2764



51.9866, 0.3434, 0.2652



56.4798, 0.3694, 0.3142



18.1915, 0.3189, 0.3133



12.6558, 0.4275, 0.2129

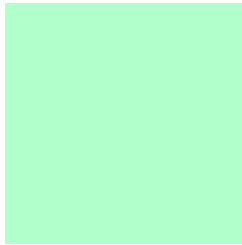


1.2525, 0.4122, 0.2045



# Previews

## White Background



This preview shows how the Yxy color 85.1789, 0.2948, 0.3883 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

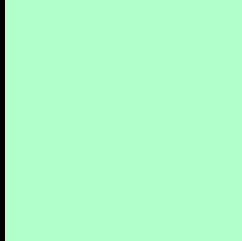
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 85.1789, 0.2948, 0.3883 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

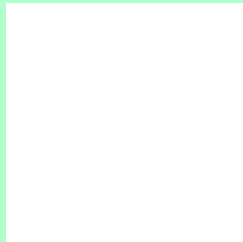
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**Yxy 85.1789, 0.2948, 0.3883**

## **Background**



This preview shows how black text looks on a background with the Yxy color 85.1789, 0.2948, 0.3883.

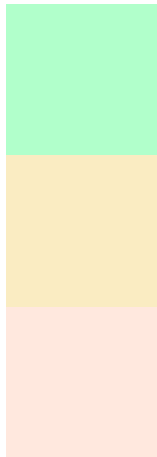


This preview shows how white text looks on a background with the Yxy color 85.1789, 0.2948, 0.3883.

# 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

85.1789, 0.2948, 0.3883

### Protanopia

84.2099, 0.3495, 0.3718

### Deuteranopia

84.2472, 0.3351, 0.3390



## Tritanopia

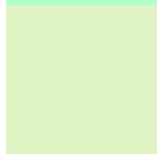
85.0228, 0.2854, 0.3164

# Trichromacy



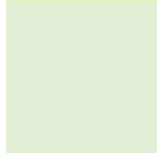
## Original Color

85.1789, 0.2948, 0.3883



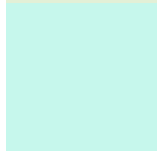
## Protanomaly

83.8204, 0.3275, 0.3783



## Deuteranomaly

83.5574, 0.3194, 0.3554



## Tritanomaly

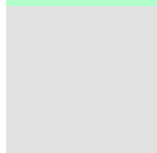
84.5834, 0.2889, 0.3408

# Monochromacy



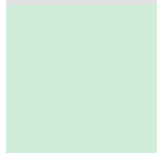
## Original Color

85.1789, 0.2948, 0.3883



## Achromatopsia

76.0525, 0.3127, 0.3290



## Achromatomaly

79.0402, 0.3052, 0.3498

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 85.1789, 0.2948, 0.3883 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(177, 255, 203)` looks like.

```
.text, #text, p{  
    color:rgb(177, 255, 203)  
}
```

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(177, 255, 203) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(177, 255, 203) }
```

## Border

The CSS property to change the border of an element to Yxy 85.1789, 0.2948, 0.3883 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(177, 255, 203) }
```

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

```
.border{ border-color:rgb(177, 255, 203) }
```

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

Here you see how a box with a 4 pixel `rgb(177, 255, 203)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(177, 255, 203); -webkit-box-  
shadow:4px 4px 4px 4px rgb(177, 255, 203);  
box-shadow:4px 4px 4px 4px rgb(177, 255,  
203) }
```



# Background

The CSS property to change the background color of an element to Yxy 85.1789, 0.2948, 0.3883 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(177, 255, 203) }
```

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

```
.background{ background-color: rgb(177,  
255, 203) }
```

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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