

# Converting Colors

$Y_{xy}(100.0000, 0.2875, 0.3865)$

Have a look what the booklet for  
Yxy(100.0000, 0.2875, 0.3865)  
contains.

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# Color

**Yxy(86.3776, 0.2860, 0.3658)**

# Conversions

## Conversions Part 1

Format	Color
Hex	B3FFDE
RGB	179, 255, 222
RGB Percent	70%, 100%, 87%
CMY	0.2981, 0.0000, 0.1294
CMYK	0.30, 0.00, 0.13, 0.00
HSL	154°, 100%, 85%
HSV	154°, 30%, 100%
XYZ	67.5342, 86.3776, 82.2217
YIQ	228.5140, -34.7030, -26.3750

# Conversions

## Conversions Part 2

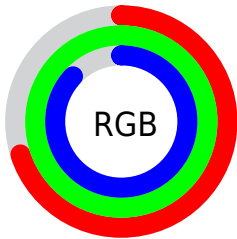
<b>Format</b>	<b>Color</b>
<b>RYB</b>	179, 228, 255
Decimal	11796446
CIELab	94.47, -30.01, 8.35
CIELCh	94, 31.150, 164.460
Yxy	86.3776, 0.2860, 0.3658
Android (android.graphics.Color)	4289986526 (0xFFB3FFDE)
YUV	228.5140, -3.2114, -43.4238
Hunter-Lab	92.9396, -32.9379, 12.6051

# Details

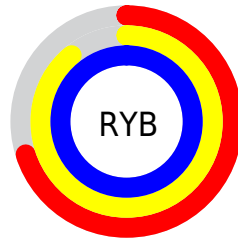
The Yxy color **86.3776, 0.2860, 0.3658** is a light color, and the websafe version is hex **CCFFCC**. A complement of this color would be **58.2512, 0.3508, 0.2951**, and the grayscale version is **78.0206, 0.3127, 0.3290**.

A 20% lighter version of the original color is **96.5729, 0.3011, 0.3290**, and **47.4633, 0.2798, 0.3743** is the 20% darker color. If you saturate the color by 10%, you get **83.0404, 0.2784, 0.3806**, and if you desaturate by 10%, it is **90.3149, 0.2945, 0.3522**.

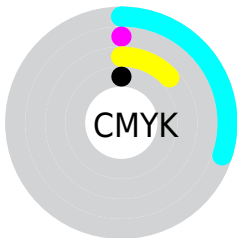
# Distribution



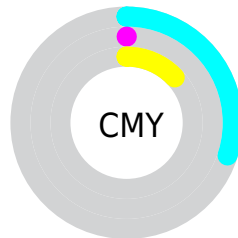
- Red (70%)
- Green (100%)
- Blue (87%)



- Red (70%)
- Yellow (89%)
- Blue (100%)



- Cyan (30%)
- Magenta (0%)
- Yellow (13%)
- Black (0%)




- Cyan (30%)
- Magenta (0%)
- Yellow (13%)

# Brightness & Saturation Gradients

These gradients show how the Yxy color 86.3776, 0.2860, 0.3658 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 86.3776, 0.2860, 0.3658 by changing the saturation by 10% instead.




 86.3776, 0.2860,  
0.3658

 86.3776, 0.2860,  
0.3658

516.1755, 0.2982,  
0.3488

 64.9803, 0.2833,  
0.3697


 142.2963, 0.2902,  
0.3599

 47.4451, 0.2799,  
0.3744


177.5865, 0.2918,  
0.3576

 33.3876, 0.2756,  
0.3805


218.2763, 0.2933,  
0.3557

 22.4236, 0.2701,  
0.3883

264.7503, 0.2945,  
0.3539

 14.1685, 0.2628,  
0.3990

317.3929, 0.2956,  
0.3524

 8.2379, 0.2523,  
0.4143

376.5883, 0.2966,

 4.2476, 0.2364,

0.3511

0.4381

442.7210, 0.2974,  
0.3499

■ 1.8130, 0.2092,  
0.4799

■ 0.4953, 0.0000,  
1.0000

■ 86.3776, 0.2860,  
0.3658

■ 86.3776, 0.2860,  
0.3658

■ 83.0404, 0.2784,  
0.3806

■ 90.3149, 0.2945,  
0.3522


■ 80.2725, 0.2720,  
0.3964


■ 94.8826, 0.3035,  
0.3399


■ 78.0389, 0.2671,  
0.4131

100.0000, 0.3127,  
0.3290

■ 76.3008, 0.2640,  
0.4302

 75.0139, 0.2630,  
0.4474

 74.1257, 0.2641,  
0.4644

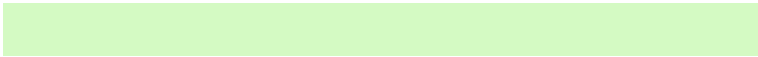
 73.5525, 0.2669,  
0.4806

 73.5427, 0.2669,  
0.4810

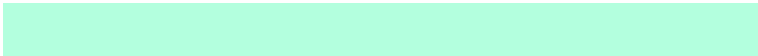
# Harmonies

## Analogous

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



86.3776, 0.3205, 0.3882



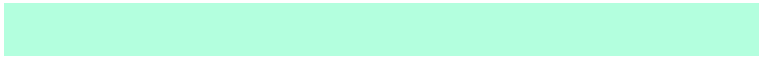
86.3776, 0.2860, 0.3658



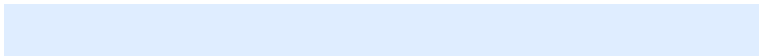
86.3776, 0.2596, 0.3324

# Triad

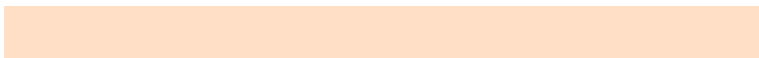
The Triadic color harmony groups three colors that are evenly spaced from another and form a triangle on the color wheel.



86.3776, 0.2860, 0.3658



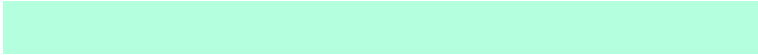
86.3776, 0.2704, 0.2710



86.3776, 0.3830, 0.3514

# Complementary

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



86.3776, 0.2860, 0.3658



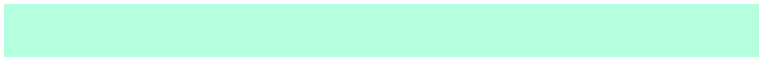
58.2512, 0.3508, 0.2951

# 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.



86.3776, 0.3682, 0.3222



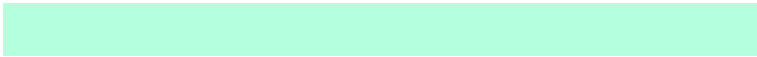
86.3776, 0.2860, 0.3658



86.3776, 0.3017, 0.2775

# Square

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



86.3776, 0.2860, 0.3658



86.3776, 0.2511, 0.2785



86.3776, 0.3378, 0.2959

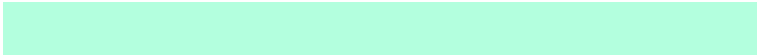


86.3776, 0.3775, 0.3770



# Rectangle

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



86.3776, 0.2860, 0.3658



86.3776, 0.2496, 0.3101



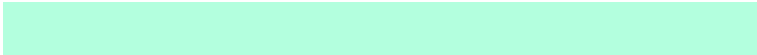
86.3776, 0.3378, 0.2959



86.3776, 0.3802, 0.3417

# Sweetspot

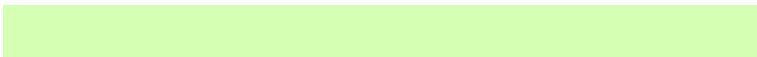
The Sweet Spot groups the original color and five complimentary colors.



86.3772, 0.2860, 0.3658



95.2790, 0.3043, 0.3389



88.9501, 0.3299, 0.4111



20.2411, 0.3029, 0.3406



0.0000, 0.0000, 0.0000

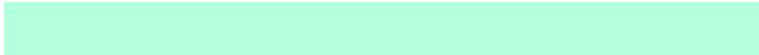


21.4041, 0.3127, 0.3290

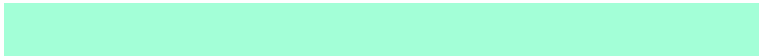


# Same Dimension

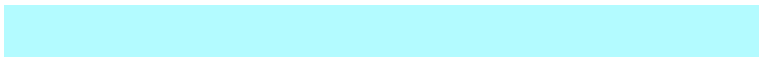
The Same Dimension uses a secret algorithm to generate beautiful new colors.



86.3772, 0.2860, 0.3658



84.2415, 0.2812, 0.3748



85.9224, 0.2691, 0.3248



20.3404, 0.3038, 0.3395



38.4582, 0.2662, 0.4783



3.7665, 0.2610, 0.4596



# Inverse Universe

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



58.2512, 0.3508, 0.2951



51.8398, 0.3618, 0.2878



58.2971, 0.3787, 0.3332



18.1180, 0.3226, 0.3187



11.7338, 0.5243, 0.2662

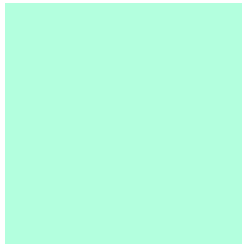


1.1639, 0.4955, 0.2503



# Previews

## White Background



This preview shows how the Yxy color 86.3776, 0.2860, 0.3658 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

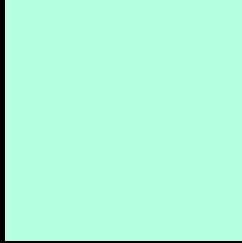
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 86.3776, 0.2860, 0.3658 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 86.3776, 0.2860, 0.3658**

## **Background**



This preview shows how black text looks on a background with the Yxy color 86.3776, 0.2860, 0.3658.

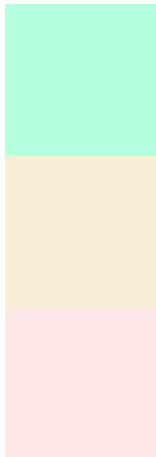


This preview shows how white text looks on a background with the Yxy color 86.3776, 0.2860, 0.3658.

# 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

86.3776, 0.2860, 0.3658

### Protanopia

85.3289, 0.3354, 0.3533

### Deuteranopia

85.3640, 0.3284, 0.3300



## Tritanopia

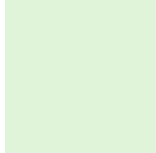
86.0675, 0.2872, 0.3176

# Trichromacy



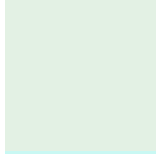
## Original Color

86.3776, 0.2860, 0.3658



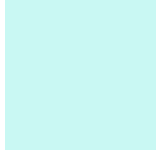
## Protanomaly

85.3472, 0.3159, 0.3586



## Deuteranomaly

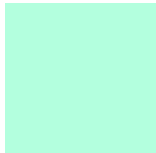
84.8429, 0.3114, 0.3425



## Tritanomaly

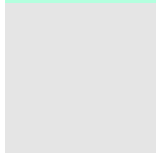
86.0234, 0.2869, 0.3342

# Monochromacy



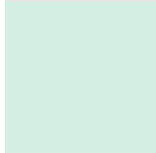
## Original Color

86.3776, 0.2860, 0.3658



## Achromatopsia

78.3538, 0.3127, 0.3290



## Achromatomaly

80.4889, 0.3023, 0.3419

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 86.3776, 0.2860, 0.3658 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(179, 255, 222)` looks like.

```
.text, #text, p{  
    color:rgb(179, 255, 222)  
}
```

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(179, 255, 222) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(179, 255, 222) }
```

## Border

The CSS property to change the border of an element to Yxy 86.3776, 0.2860, 0.3658 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(179, 255, 222) }
```

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

```
.border{ border-color:rgb(179, 255, 222) }
```

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

Here you see how a box with a 4 pixel `rgb(179, 255, 222)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px 4px rgb(179, 255, 222); -webkit-box-shadow:4px 4px 4px 4px rgb(179, 255, 222); box-shadow:4px 4px 4px 4px rgb(179, 255, 222) }
```



# Background

The CSS property to change the background color of an element to Yxy 86.3776, 0.2860, 0.3658 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(179, 255, 222) }
```

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

```
.background{ background-color: rgb(179,  
255, 222) }
```

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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