

# Converting Colors

$Y_{xy}(92.7580, 0.2828, 0.3653)$

Have a look what the booklet for  
Yxy(92.7580, 0.2828, 0.3653)  
contains.

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# Color

**Yxy(86.9928, 0.2819, 0.3554)**

# Conversions

## Conversions Part 1

Format	Color
Hex	B4FFE7
RGB	180, 255, 231
RGB Percent	71%, 100%, 91%
CMY	0.2943, 0.0000, 0.0940
CMYK	0.29, 0.00, 0.09, 0.00
HSL	161°, 100%, 85%
HSV	161°, 29%, 100%
XYZ	69.0019, 86.9928, 88.7797
YIQ	229.8390, -36.9960, -23.3640

# Conversions

## Conversions Part 2

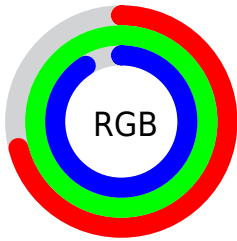
<b>Format</b>	<b>Color</b>
<b>RYB</b>	180, 225, 255
Decimal	11861991
CIELab	94.74, -27.93, 4.08
CIElCh	95, 28.226, 171.693
Yxy	86.9928, 0.2819, 0.3554
Android (android.graphics.Color)	4290052071 (0xFFB4FFE7)
YUV	229.8390, 0.5724, -43.7088
Hunter-Lab	93.2699, -31.1666, 8.8533

# Details

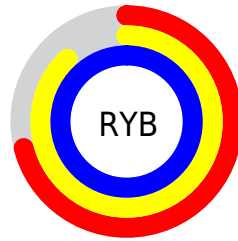
The Yxy color **86.9928, 0.2819, 0.3554** is a light color, and the websafe version is hex **99FFFF**. A complement of this color would be **58.2409, 0.3576, 0.3043**, and the grayscale version is **79.0137, 0.3127, 0.3290**.

A 20% lighter version of the original color is **96.7445, 0.3017, 0.3290**, and **47.8433, 0.2755, 0.3622** is the 20% darker color. If you saturate the color by 10%, you get **83.7567, 0.2730, 0.3660**, and if you desaturate by 10%, it is **90.8067, 0.2918, 0.3456**.

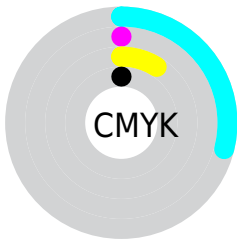
# Distribution



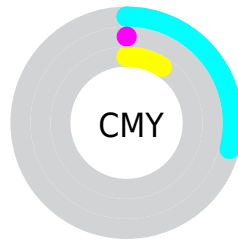
- Red (71%)
- Green (100%)
- Blue (91%)



- Red (71%)
- Yellow (88%)
- Blue (100%)



- Cyan (29%)
- Magenta (0%)
- Yellow (9%)
- Black (0%)




- Cyan (29%)
- Magenta (0%)
- Yellow (9%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 86.9928, 0.2819, 0.3554 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 86.9928, 0.2819, 0.3554 by changing the saturation by 10% instead.





 86.9928, 0.2819,  
0.3554

 86.9928, 0.2819,  
0.3554

518.1992, 0.2958,  
0.3434

 65.4892, 0.2788,  
0.3581

 143.1541, 0.2866,  
0.3513

 47.8579, 0.2750,  
0.3614


178.5806, 0.2885,  
0.3497

 33.7144, 0.2703,  
0.3656


219.4170, 0.2901,  
0.3483

 22.6743, 0.2643,  
0.3710

266.0475, 0.2915,  
0.3470

 14.3532, 0.2563,  
0.3782

318.8566, 0.2928,  
0.3460

 8.3667, 0.2450,  
0.3884

378.2286, 0.2939,

 4.3305, 0.2284,

0.3450

0.4040

444.5480, 0.2949,  
0.3442

1.8601, 0.2011,  
0.4304

0.5242, 0.0000,  
0.6473

86.9928, 0.2819,  
0.3554

86.9928, 0.2819,  
0.3554

83.7567, 0.2730,  
0.3660

90.8067, 0.2918,  
0.3456


81.0770, 0.2655,  
0.3773


95.2370, 0.3024,  
0.3366


78.9162, 0.2595,  
0.3892


100.0000, 0.3127,  
0.3290

77.2363, 0.2554,  
0.4014

 75.9938, 0.2534,  
0.4138

 75.1369, 0.2534,  
0.4262

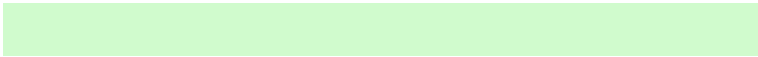
 74.5865, 0.2552,  
0.4383

 74.5590, 0.2553,  
0.4390

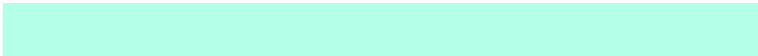
# Harmonies

## Analogous

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



86.9928, 0.3122, 0.3787



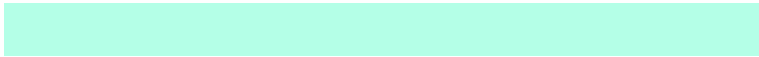
86.9928, 0.2819, 0.3554



86.9928, 0.2605, 0.3247

# Triad

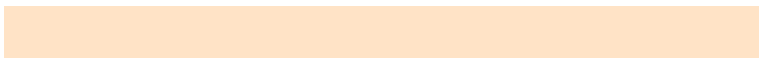
The Triadic color harmony groups three colors that are evenly spaced from another and form a triangle on the color wheel.



86.9928, 0.2819, 0.3554



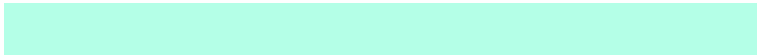
86.9928, 0.2805, 0.2765



86.9928, 0.3767, 0.3557

# Complementary

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



86.9928, 0.2819, 0.3554



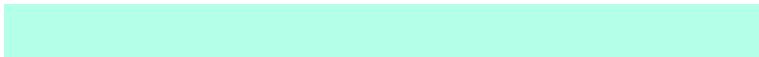
58.2409, 0.3576, 0.3043

# 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.



86.9928, 0.3676, 0.3294



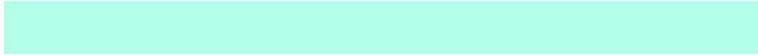
86.9928, 0.2819, 0.3554



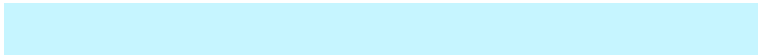
86.9928, 0.3107, 0.2853

# Square

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



86.9928, 0.2819, 0.3554



86.9928, 0.2597, 0.2804



86.9928, 0.3429, 0.3042



86.9928, 0.3676, 0.3770



# Rectangle

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



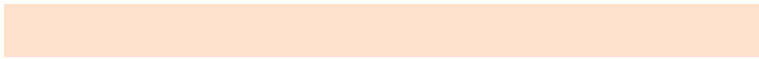
86.9928, 0.2819, 0.3554



86.9928, 0.2536, 0.3056



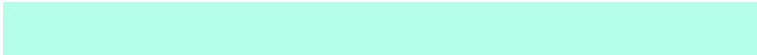
86.9928, 0.3429, 0.3042



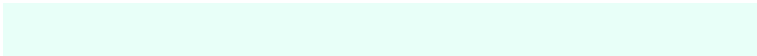
86.9928, 0.3757, 0.3472

# Sweetspot

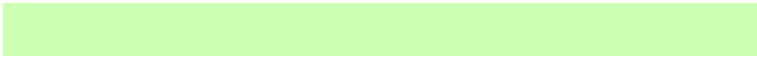
The Sweet Spot groups the original color and five complimentary colors.



86.9895, 0.2819, 0.3554



95.4411, 0.3028, 0.3363



87.7885, 0.3241, 0.4114



20.2811, 0.3012, 0.3375



0.0000, 0.0000, 0.0000

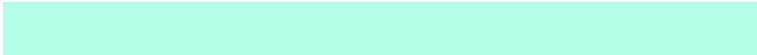


21.4041, 0.3127, 0.3290

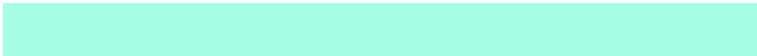


# Same Dimension

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



86.9895, 0.2819, 0.3554



85.1183, 0.2768, 0.3612



80.7161, 0.2686, 0.3152



20.3769, 0.3023, 0.3367



38.9871, 0.2547, 0.4370



3.8160, 0.2509, 0.4231



# Inverse Universe

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



58.2409, 0.3576, 0.3043



52.3480, 0.3695, 0.2994



62.4568, 0.3750, 0.3423



18.0827, 0.3244, 0.3214



11.4466, 0.5699, 0.2913

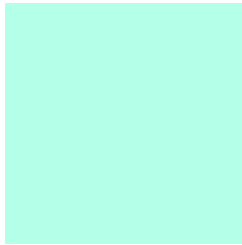


1.1334, 0.5379, 0.2737



# Previews

## White Background



This preview shows how the Yxy color 86.9928, 0.2819, 0.3554 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

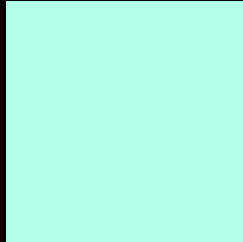
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 86.9928, 0.2819, 0.3554 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

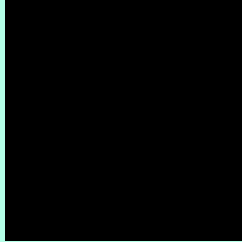
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

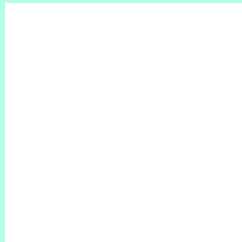
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**Yxy 86.9928, 0.2819, 0.3554**

## **Background**



This preview shows how black text looks on a background with the Yxy color 86.9928, 0.2819, 0.3554.

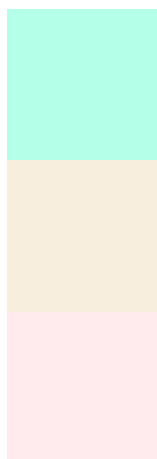


This preview shows how white text looks on a background with the Yxy color 86.9928, 0.2819, 0.3554.

# 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

86.9928, 0.2819, 0.3554

### Protanopia

86.1972, 0.3288, 0.3452

### Deuteranopia

86.2201, 0.3251, 0.3261



## Tritanopia

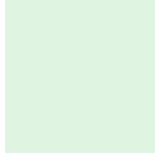
86.3684, 0.2884, 0.3176

# Trichromacy



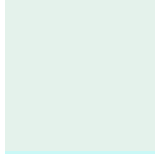
## Original Color

86.9928, 0.2819, 0.3554



## Protanomaly

85.8256, 0.3105, 0.3489



## Deuteranomaly

85.9964, 0.3078, 0.3362



## Tritanomaly

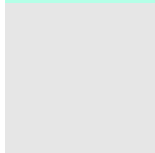
86.3452, 0.2859, 0.3310

# Monochromacy



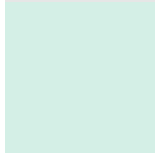
## Original Color

86.9928, 0.2819, 0.3554



## Achromatopsia

79.1298, 0.3127, 0.3290



## Achromatomaly

81.4432, 0.3006, 0.3386

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 86.9928, 0.2819, 0.3554 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(180, 255, 231)` looks like.

```
.text, #text, p{  
    color:rgb(180, 255, 231)  
}
```

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(180, 255, 231) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(180, 255, 231) }
```

## Border

The CSS property to change the border of an element to Yxy 86.9928, 0.2819, 0.3554 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(180, 255, 231) }
```

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

```
.border{ border-color:rgb(180, 255, 231) }
```

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

Here you see how a box with a 4 pixel `rgb(180, 255, 231)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(180, 255, 231); -webkit-box-  
shadow:4px 4px 4px 4px rgb(180, 255, 231);  
box-shadow:4px 4px 4px 4px rgb(180, 255,  
231) }
```



# Background

The CSS property to change the background color of an element to Yxy 86.9928, 0.2819, 0.3554 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(180, 255, 231) }
```

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

```
.background{ background-color: rgb(180,  
255, 231) }
```

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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