

# Converting Colors

$Y_{xy}(119.2423, 0.2963, 0.4587)$

Have a look what the booklet for  
Yxy(119.2423, 0.2963, 0.4587)  
contains.

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# Color

**Yxy(82.3098, 0.2952, 0.4146)**

# Conversions

## Conversions Part 1

Format	Color
Hex	9FFFB7
RGB	159, 255, 183
RGB Percent	62%, 100%, 72%
CMY	0.3765, 0.0000, 0.2822
CMYK	0.38, 0.00, 0.28, 0.00
HSL	135°, 100%, 81%
HSV	135°, 38%, 100%
XYZ	58.6055, 82.3098, 57.6129
YIQ	218.0880, -34.1040, -42.7440

# Conversions

## Conversions Part 2

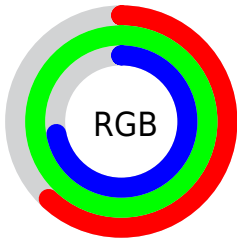
Format	Color
<a href="#">RYB</a>	<a href="#">159, 236, 255</a>
Decimal	<a href="#">10485687</a>
CIELab	<a href="#">92.71, -43.01, 25.67</a>
CIElCh	<a href="#">93, 50.091, 149.173</a>
Yxy	<a href="#">82.3098, 0.2952, 0.4146</a>
Android (android.graphics.Color)	<a href="#">4288675767</a> ( <a href="#">0xFF9FFFB7</a> )
YUV	<a href="#">218.0880, -17.2984, -51.8202</a>
Hunter-Lab	<a href="#">90.7247, -43.4625, 25.8564</a>

# Details

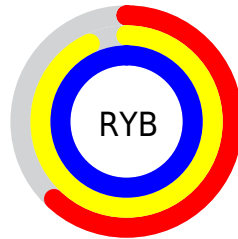
The Yxy color **82.3098, 0.2952, 0.4146** is a light color, and the websafe version is hex **99FFCC**. A complement of this color would be **51.8194, 0.3371, 0.2567**, and the grayscale version is **70.3131, 0.3127, 0.3290**.

A 20% lighter version of the original color is **92.3509, 0.2980, 0.3455**, and **44.8834, 0.2897, 0.4361** is the 20% darker color. If you saturate the color by 10%, you get **79.2236, 0.2916, 0.4425**, and if you desaturate by 10%, it is **86.0418, 0.2995, 0.3886**.

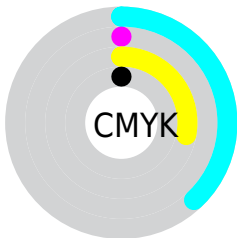
# Distribution



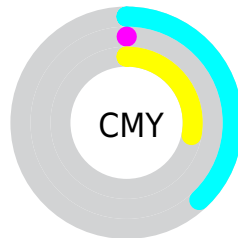
- Red (62%)
- Green (100%)
- Blue (72%)



- Red (62%)
- Yellow (93%)
- Blue (100%)



- Cyan (38%)
- Magenta (0%)
- Yellow (28%)
- Black (0%)




- Cyan (38%)
- Magenta (0%)
- Yellow (28%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 82.3098, 0.2952, 0.4146 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 82.3098, 0.2952, 0.4146 by changing the saturation by 10% instead.



 82.3098, 0.2952,  
0.4146


 82.3098, 0.2952,  
0.4146


502.6834, 0.3043,  
0.3736

 61.6209, 0.2929,  
0.4243


 136.6084, 0.2985,  
0.4001

 44.7265, 0.2899,  
0.4363

 170.9868, 0.2998,  
0.3946

 31.2420, 0.2859,  
0.4518


210.6973, 0.3008,  
0.3898

 20.7832, 0.2804,  
0.4724

256.1242, 0.3017,  
0.3857

 12.9656, 0.2723,  
0.5009

307.6518, 0.3025,  
0.3821

 7.4049, 0.2594,  
0.5428

365.6646, 0.3032,

 3.7166, 0.2366,

0.3790

0.6089

430.5470, 0.3038,  
0.3762

■ 1.5163, 0.1594,  
0.8406

■ 0.3002, 0.0000,  
1.0000

■ 82.3098, 0.2952,  
0.4146

■ 82.3098, 0.2952,  
0.4146

■ 79.2236, 0.2916,  
0.4425

■ 86.0418, 0.2995,  
0.3886

■ 76.7455, 0.2889,  
0.4713

■ 90.4542, 0.3042,  
0.3648

■ 74.8340, 0.2875,  
0.5000

■ 95.5789, 0.3090,  
0.3436

■ 73.4420, 0.2876,  
0.5269

100.0000, 0.3127,  
0.3290

■ 72.5145, 0.2891,  
0.5506

■ 71.9802, 0.2920,  
0.5697

■ 71.8885, 0.2927,  
0.5735

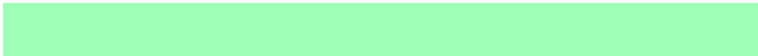
# Harmonies

## Analogous

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



82.3098, 0.3519, 0.4348



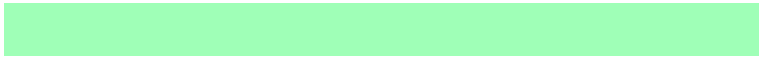
82.3098, 0.2952, 0.4146



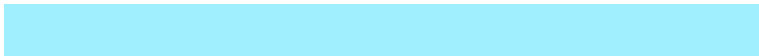
82.3098, 0.2459, 0.3632

# Triad

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



82.3098, 0.2952, 0.4146



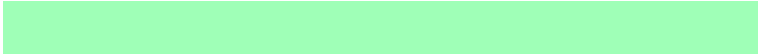
82.3098, 0.2273, 0.2403



82.3098, 0.4199, 0.3380

# Complementary

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



82.3098, 0.2952, 0.4146



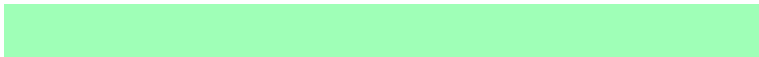
51.8194, 0.3371, 0.2567

# 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.



82.3098, 0.3802, 0.2949



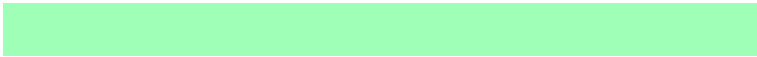
82.3098, 0.2952, 0.4146



82.3098, 0.2668, 0.2410

# Square

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



82.3098, 0.2952, 0.4146



82.3098, 0.2098, 0.2613



82.3098, 0.3224, 0.2606

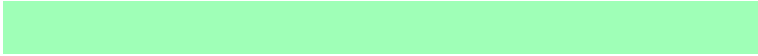


82.3098, 0.4268, 0.3826



# Rectangle

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



82.3098, 0.2952, 0.4146



82.3098, 0.2234, 0.3234



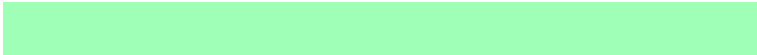
82.3098, 0.3224, 0.2606



82.3098, 0.4098, 0.3231

# Sweetspot

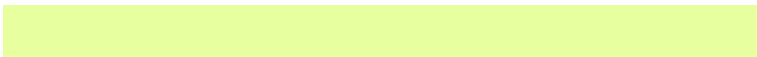
The Sweet Spot groups the original color and five complimentary colors.



82.3098, 0.2952, 0.4146



93.7818, 0.3074, 0.3504



91.0112, 0.3530, 0.4285



19.9224, 0.3067, 0.3532



0.0000, 0.0000, 0.0000

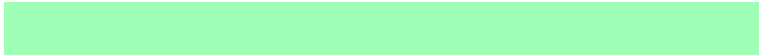


21.4041, 0.3127, 0.3290

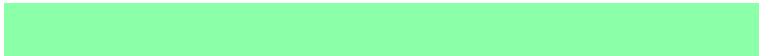


# Same Dimension

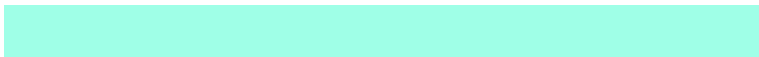
The Same Dimension uses a secret algorithm to generate beautiful new colors.



82.3098, 0.2952, 0.4146



79.9811, 0.2924, 0.4349



84.6591, 0.2713, 0.3562



20.2428, 0.3081, 0.3473



37.5832, 0.2919, 0.5710



3.6760, 0.2861, 0.5498



# Inverse Universe

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



51.8194, 0.3371, 0.2567



45.5950, 0.3435, 0.2431



49.4707, 0.3821, 0.3040



18.2181, 0.3177, 0.3114



13.1030, 0.3966, 0.1959

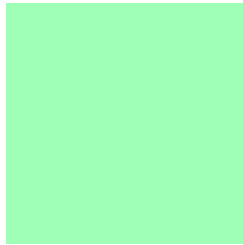


1.2933, 0.3861, 0.1900



# Previews

## White Background



This preview shows how the Yxy color 82.3098, 0.2952, 0.4146 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

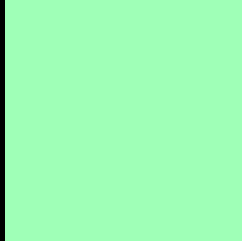
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 82.3098, 0.2952, 0.4146 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

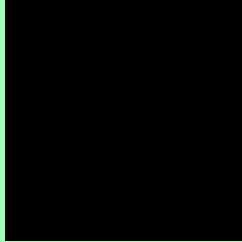
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**Yxy 82.3098, 0.2952, 0.4146**

## **Background**



This preview shows how black text looks on a background with the Yxy color 82.3098, 0.2952, 0.4146.

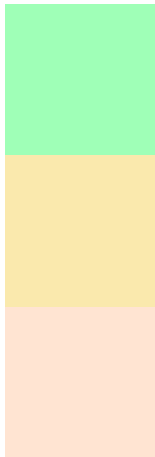


This preview shows how white text looks on a background with the Yxy color 82.3098, 0.2952, 0.4146.

# 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

82.3098, 0.2952, 0.4146

### Protanopia

81.6190, 0.3641, 0.3905

### Deuteranopia

81.3999, 0.3439, 0.3472



## Tritanopia

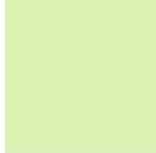
81.8664, 0.2772, 0.3140

# Trichromacy



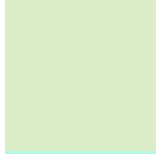
## Original Color

82.3098, 0.2952, 0.4146



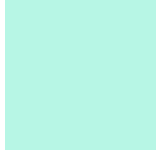
## Protanomaly

80.8366, 0.3359, 0.3993



## Deuteranomaly

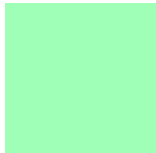
80.5348, 0.3242, 0.3702



## Tritanomaly

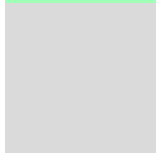
81.6360, 0.2840, 0.3479

# Monochromacy



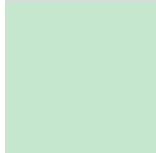
## Original Color

82.3098, 0.2952, 0.4146



## Achromatopsia

70.1102, 0.3127, 0.3290



## Achromatomaly

73.4299, 0.3059, 0.3588

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 82.3098, 0.2952, 0.4146 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(159, 255, 183)` looks like.

```
.text, #text, p{  
    color:rgb(159, 255, 183)  
}
```

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(159, 255, 183) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(159, 255, 183) }
```

## Border

The CSS property to change the border of an element to Yxy 82.3098, 0.2952, 0.4146 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(159, 255, 183) }
```

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

```
.border{ border-color:rgb(159, 255, 183) }
```

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

Here you see how a box with a 4 pixel `rgb(159, 255, 183)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(159, 255, 183); -webkit-box-  
shadow:4px 4px 4px 4px rgb(159, 255, 183);  
box-shadow:4px 4px 4px 4px rgb(159, 255,  
183) }
```



# Background

The CSS property to change the background color of an element to Yxy 82.3098, 0.2952, 0.4146 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(159, 255, 183) }
```

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

```
.background{ background-color: rgb(159,  
255, 183) }
```

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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