

# Converting Colors

$Y_{xy}(102.5867, 0.3067, 0.5068)$

Have a look what the booklet for  
Yxy(102.5867, 0.3067, 0.5068)  
contains.

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# Color

**Yxy(78.3659, 0.3084, 0.4840)**

# Conversions

## Conversions Part 1

| Format      | Color                        |
|-------------|------------------------------|
| Hex         | 88FF82                       |
| RGB         | 136, 255, 130                |
| RGB Percent | 53%, 100%, 51%               |
| CMY         | 0.4669, 0.0000, 0.4902       |
| CMYK        | 0.47, 0.00, 0.49, 0.00       |
| HSL         | 117°, 100%, 75%              |
| HSV         | 117°, 49%, 100%              |
| XYZ         | 49.9340, 78.3659, 33.6131    |
| YIQ         | 205.1690, -30.7990, -64.1030 |

# Conversions

## Conversions Part 2

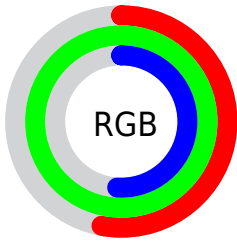
| <b>Format</b>                       | <b>Color</b>                                     |
|-------------------------------------|--|
| <a href="#">RYB</a>                 | <a href="#">130, 255, 249</a>                    |
| Decimal                             | <a href="#">8978306</a>                          |
| CIELab                              | <a href="#">90.95, -57.53, 49.22</a>             |
| CIElCh                              | <a href="#">91, 75.710, 139.449</a>              |
| Yxy                                 | <a href="#">78.3659, 0.3084,<br/>0.4840</a>      |
| Android<br>(android.graphics.Color) | <a href="#">4287168386<br/>(0xFF88FF82)</a>      |
| YUV                                 | <a href="#">205.1690, -37.0583,<br/>-60.6612</a> |
| Hunter-Lab                          | <a href="#">88.5245, -54.2315,<br/>39.4545</a>   |

# Details

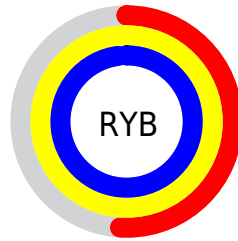
The Yxy color **78.3659, 0.3084, 0.4840** is a light color, and the websafe version is hex **99FF99**. A complement of this color would be **43.3391, 0.3131, 0.2084**, and the grayscale version is **61.4042, 0.3127, 0.3290**.

A 20% lighter version of the original color is **86.6249, 0.3151, 0.4072**, and **41.9642, 0.3025, 0.5244** is the 20% darker color. If you saturate the color by 10%, you get **75.9508, 0.3068, 0.5188**, and if you desaturate by 10%, it is **81.3998, 0.3097, 0.4481**.

# Distribution



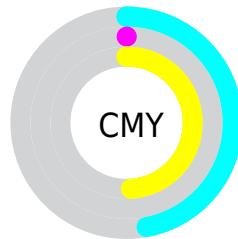
- Red (53%)
- Green (100%)
- Blue (51%)



- Red (51%)
- Yellow (100%)
- Blue (98%)



- Cyan (47%)
- Magenta (0%)
- Yellow (49%)
- Black (0%)




- Cyan (47%)
- Magenta (0%)
- Yellow (49%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 78.3659, 0.3084, 0.4840 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 78.3659, 0.3084, 0.4840 by changing the saturation by 10% instead.





 78.3659, 0.3084,  
0.4840

 78.3659, 0.3084,  
0.4840


489.4086, 0.3142,  
0.4080

 58.3746, 0.3060,  
0.5020


 131.0658, 0.3113,  
0.4570

 42.1099, 0.3024,  
0.5245


 164.5432, 0.3121,  
0.4467

 29.1873, 0.2969,  
0.5532


 203.2847, 0.3128,  
0.4379

 19.2226, 0.2881,  
0.5906

247.6748, 0.3132,  
0.4303

 11.8312, 0.2732,  
0.6404

298.0979, 0.3136,  
0.4236

 6.6289, 0.2503,  
0.7184


354.9382, 0.3139,


 3.2311, 0.1984,


0.4178


0.8016


418.5803, 0.3141,  
0.4126


 1.2535, 0.0000,  
1.0000


 0.1048, 0.0000,  
1.0000


 78.3659, 0.3084,  
0.4840


 78.3659, 0.3084,  
0.4840


 75.9508, 0.3068,  
0.5188


 81.3998, 0.3097,  
0.4481

 74.1276, 0.3052,  
0.5499

 85.1099, 0.3108,  
0.4134

 72.8403, 0.3034,  
0.5746

 89.5272, 0.3117,  
0.3812

 72.0306, 0.3019,  
0.5909

 94.6857, 0.3123,  
0.3522

■ 71.6227, 0.3007,  
0.5989

100.0000, 0.3127,  
0.3290

■ 71.5988, 0.3007,  
0.5995

# Harmonies

## Analogous

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



78.3659, 0.3910, 0.4870



78.3659, 0.3084, 0.4840



78.3659, 0.2314, 0.4129

# Triad

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



78.3659, 0.3084, 0.4840



78.3659, 0.1778, 0.2050



78.3659, 0.4626, 0.3160

# Complementary

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



78.3659, 0.3084, 0.4840



43.3391, 0.3131, 0.2084

# 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.



78.3659, 0.3876, 0.2602



78.3659, 0.3084, 0.4840



78.3659, 0.2221, 0.1991

# Square

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



78.3659, 0.3084, 0.4840



78.3659, 0.1638, 0.2418



78.3659, 0.2962, 0.2190



78.3659, 0.4875, 0.3783



# Rectangle

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



78.3659, 0.3084, 0.4840



78.3659, 0.1940, 0.3468



78.3659, 0.2962, 0.2190



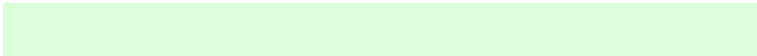
78.3659, 0.4419, 0.2963

# Sweetspot

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



78.3601, 0.3084, 0.4840



91.5092, 0.3119, 0.3691



90.4688, 0.3877, 0.4436



19.3610, 0.3118, 0.3754



0.0000, 0.0000, 0.0000



21.4041, 0.3127, 0.3290



# Same Dimension

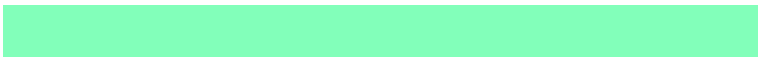
The Same Dimension uses a secret algorithm to generate beautiful new colors.



78.3601, 0.3084, 0.4840



75.9547, 0.3068, 0.5187



79.8219, 0.2793, 0.4139



20.2092, 0.3123, 0.3535



37.4293, 0.3010, 0.5992



3.6582, 0.3033, 0.5974



# Inverse Universe

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



43.3391, 0.3131, 0.2084



37.1637, 0.3126, 0.1883



41.3379, 0.3729, 0.2591



18.2539, 0.3130, 0.3055



13.7398, 0.3091, 0.1476

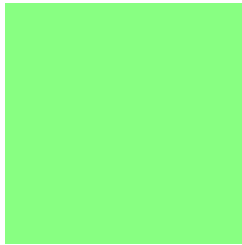


1.3508, 0.3105, 0.1484



# Previews

## White Background



This preview shows how the Yxy color 78.3659, 0.3084, 0.4840 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

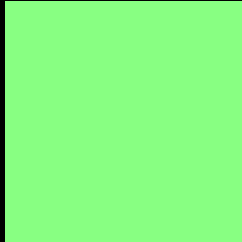
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 78.3659, 0.3084, 0.4840 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

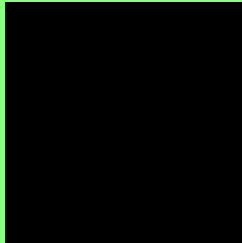
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

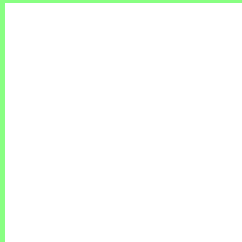
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**Yxy 78.3659, 0.3084, 0.4840**

## **Background**



This preview shows how black text looks on a background with the Yxy color 78.3659, 0.3084, 0.4840.

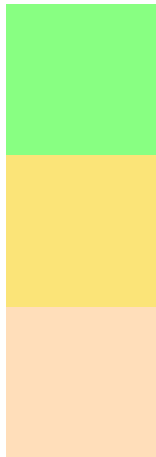


This preview shows how white text looks on a background with the Yxy color 78.3659, 0.3084, 0.4840.

# 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

78.3659, 0.3084, 0.4840

### Protanopia

77.3521, 0.4001, 0.4364

### Deuteranopia

77.0477, 0.3620, 0.3659



## Tritanopia

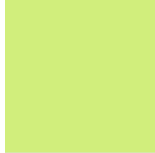
78.0670, 0.2655, 0.3112

# Trichromacy



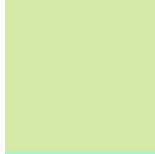
## Original Color

78.3659, 0.3084, 0.4840



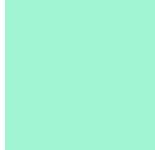
## Protanomaly

76.1596, 0.3618, 0.4554



## Deuteranomaly

75.5959, 0.3405, 0.4056



## Tritanomaly

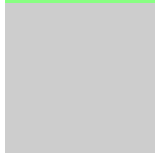
77.5350, 0.2817, 0.3704

# Monochromacy



## Original Color

78.3659, 0.3084, 0.4840



## Achromatopsia

61.0496, 0.3127, 0.3290



## Achromatomaly

65.6930, 0.3115, 0.3843

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 78.3659, 0.3084, 0.4840 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(136, 255, 130)` looks like.

```
.text, #text, p{  
    color:rgb(136, 255, 130)  
}
```

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(136, 255, 130) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(136, 255, 130) }
```

## Border

The CSS property to change the border of an element to Yxy 78.3659, 0.3084, 0.4840 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(136, 255, 130) }
```

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

```
.border{ border-color:rgb(136, 255, 130) }
```

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

Here you see how a box with a 4 pixel `rgb(136, 255, 130)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(136, 255, 130); -webkit-box-  
shadow:4px 4px 4px 4px rgb(136, 255, 130);  
box-shadow:4px 4px 4px 4px rgb(136, 255,  
130) }
```



# Background

The CSS property to change the background color of an element to Yxy 78.3659, 0.3084, 0.4840 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(136, 255, 130) }
```

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

```
.background{ background-color: rgb(136,  
255, 130) }
```

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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