

# Converting Colors

$Y_{xy}(78.4225, 0.3076, 0.4817)$

Have a look what the booklet for  
Yxy(78.4225, 0.3076, 0.4817)  
contains.

|  |    |
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# Color

**Yxy(78.4202, 0.3076, 0.4816)**

# Conversions

## Conversions Part 1

| Format      | Color                        |
|-------------|------------------------------|
| Hex         | 88FF84                       |
| RGB         | 136, 255, 132                |
| RGB Percent | 53%, 100%, 52%               |
| CMY         | 0.4664, 0.0000, 0.4824       |
| CMYK        | 0.47, 0.00, 0.48, 0.00       |
| HSL         | 118°, 100%, 76%              |
| HSV         | 118°, 48%, 100%              |
| XYZ         | 50.0873, 78.4202, 34.3251    |
| YIQ         | 205.3970, -31.4410, -63.4810 |

# Conversions

## Conversions Part 2

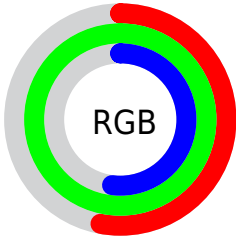
| <b>Format</b>                       | <b>Color</b>                    |
|-------------------------------------|---------------------------------|
| <b>RYB</b>                          | 132, 255, 251                   |
| Decimal                             | 8978308                         |
| CIELab                              | 90.97, -57.22, 48.32            |
| CIElCh                              | 91, 74.891, 139.823             |
| Yxy                                 | 78.4202, 0.3076,<br>0.4816      |
| Android<br>(android.graphics.Color) | 4287168388<br>(0xFF88FF84)      |
| YUV                                 | 205.3970, -36.1847,<br>-60.8612 |
| Hunter-Lab                          | 88.5552, -54.0109,<br>39.0071   |

# Details

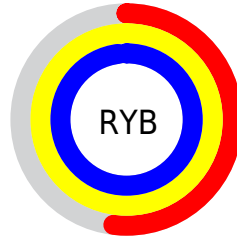
The Yxy color **78.4202, 0.3076, 0.4816** is a light color, and the websafe version is hex **99FF99**. A complement of this color would be **44.2157, 0.3147, 0.2106**, and the grayscale version is **61.5796, 0.3127, 0.3290**.

A 20% lighter version of the original color is **86.7100, 0.3140, 0.4049**, and **41.9929, 0.3016, 0.5217** is the 20% darker color. If you saturate the color by 10%, you get **75.9749, 0.3060, 0.5167**, and if you desaturate by 10%, it is **81.5174, 0.3090, 0.4456**.

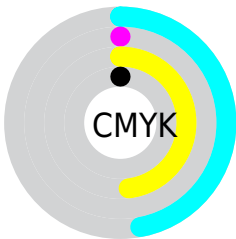
# Distribution



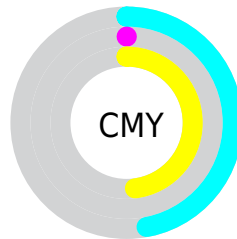
- Red (53%)
- Green (100%)
- Blue (52%)



- Red (52%)
- Yellow (100%)
- Blue (98%)



- Cyan (47%)
- Magenta (0%)
- Yellow (48%)
- Black (0%)




- Cyan (47%)
- Magenta (0%)
- Yellow (48%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 78.4202, 0.3076, 0.4816 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 78.4202, 0.3076, 0.4816 by changing the saturation by 10% instead.




 78.4202, 0.3076,  
0.4816


 78.4202, 0.3076,  
0.4816


489.5927, 0.3136,  
0.4068

 58.4192, 0.3052,  
0.4994


 131.1423, 0.3105,  
0.4550

 42.1458, 0.3016,  
0.5216


 164.6322, 0.3114,  
0.4448

 29.2155, 0.2962,  
0.5499


 203.3872, 0.3121,  
0.4362

 19.2439, 0.2875,  
0.5868

247.7918, 0.3126,  
0.4287

 11.8466, 0.2729,  
0.6363

298.2302, 0.3130,  
0.4222

 6.6393, 0.2498,  
0.7120


355.0869, 0.3132,


 3.2376, 0.2001,

0.4164

0.7999


418.7462, 0.3135,  
0.4114


 1.2570, 0.0000,  
1.0000


 0.1075, 0.0000,  
1.0000


 78.4202, 0.3076,  
0.4816


 78.4202, 0.3076,  
0.4816


 75.9749, 0.3060,  
0.5167


 81.5174, 0.3090,  
0.4456


 74.1261, 0.3044,  
0.5483

 85.2980, 0.3103,  
0.4109

 72.8253, 0.3028,  
0.5735

 89.8029, 0.3113,  
0.3789

 72.0125, 0.3015,  
0.5904

 95.0672, 0.3122,  
0.3501

■ 71.6108, 0.3005,  
0.5987

99.9968, 0.3127,  
0.3290

■ 71.5713, 0.3005,  
0.5996

# Harmonies

## Analogous

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



78.4202, 0.3895, 0.4857



78.4202, 0.3076, 0.4816



78.4202, 0.2315, 0.4108

# Triad

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



78.4202, 0.3076, 0.4816



78.4202, 0.1793, 0.2059



78.4202, 0.4616, 0.3170

# Complementary

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



78.4202, 0.3076, 0.4816



44.2157, 0.3147, 0.2106

# Split Complementary

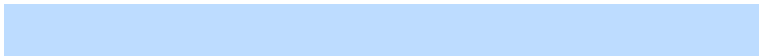
Split-complementary colors differ from the complementary color scheme. The scheme consists of three colors, the original color and two neighbors of the complement color.



78.4202, 0.3879, 0.2615



78.4202, 0.3076, 0.4816



78.4202, 0.2237, 0.2004

# Square

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



78.4202, 0.3076, 0.4816



78.4202, 0.1651, 0.2421



78.4202, 0.2975, 0.2203



78.4202, 0.4857, 0.3789



# Rectangle

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



78.4202, 0.3076, 0.4816



78.4202, 0.1946, 0.3455



78.4202, 0.2975, 0.2203



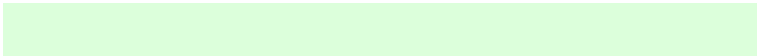
78.4202, 0.4414, 0.2975

# Sweetspot

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



78.4235, 0.3076, 0.4816



91.9415, 0.3117, 0.3662



91.8538, 0.3857, 0.4436



19.4428, 0.3115, 0.3726



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.



78.4235, 0.3076, 0.4816



76.0287, 0.3061, 0.5159



80.1137, 0.2787, 0.4096



20.1968, 0.3121, 0.3535



37.4117, 0.3007, 0.5995



3.6523, 0.3023, 0.5982



# Inverse Universe

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



44.2157, 0.3147, 0.2106



38.0979, 0.3146, 0.1909



41.8201, 0.3737, 0.2621



18.2679, 0.3133, 0.3056



14.0754, 0.3126, 0.1496

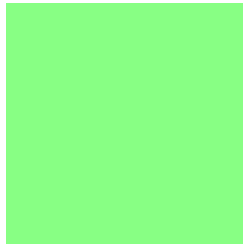


1.3797, 0.3136, 0.1501



# Previews

## White Background



This preview shows how the Yxy color 78.4202, 0.3076, 0.4816 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

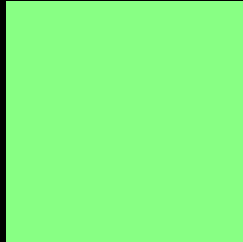
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 78.4202, 0.3076, 0.4816 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

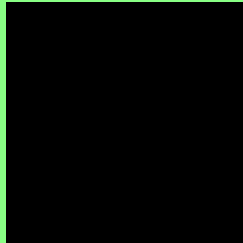
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

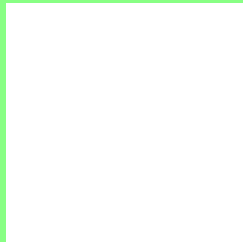
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**Yxy 78.4202, 0.3076, 0.4816**

## Background



This preview shows how black text looks on a background with the Yxy color 78.4202, 0.3076, 0.4816.

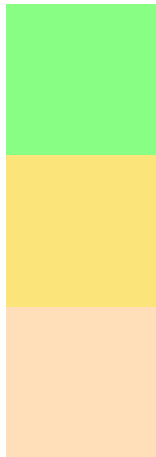


This preview shows how white text looks on a background with the Yxy color 78.4202, 0.3076, 0.4816.

# 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

78.4202, 0.3076, 0.4816

### Protanopia

77.4012, 0.3990, 0.4347

### Deuteranopia

77.0477, 0.3620, 0.3659



## Tritanopia

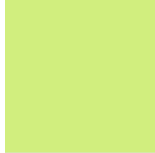
78.0670, 0.2655, 0.3112

# Trichromacy



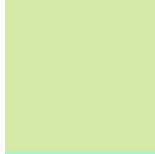
## Original Color

78.4202, 0.3076, 0.4816



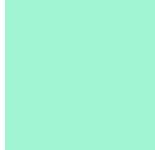
## Protanomaly

76.2107, 0.3607, 0.4534



## Deuteranomaly

75.5959, 0.3405, 0.4056



## Tritanomaly

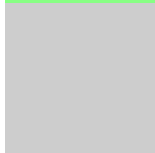
77.5350, 0.2817, 0.3704

# Monochromacy



## Original Color

78.4202, 0.3076, 0.4816



## 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 78.4202, 0.3076, 0.4816 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, 132)` looks like.

```
.text, #text, p{  
    color:rgb(136, 255, 132)  
}
```

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, 132) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(136, 255, 132) }
```

## Border

The CSS property to change the border of an element to Yxy 78.4202, 0.3076, 0.4816 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, 132) }
```

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

```
.border{ border-color:rgb(136, 255, 132) }
```

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, 132)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(136, 255, 132); -webkit-box-  
shadow:4px 4px 4px 4px rgb(136, 255, 132);  
box-shadow:4px 4px 4px 4px rgb(136, 255,  
132) }
```



# Background

The CSS property to change the background color of an element to Yxy 78.4202, 0.3076, 0.4816 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, 132) }
```

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

```
.background{ background-color: rgb(136,  
255, 132) }
```

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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