

# Converting Colors

$Y_{xy}(78.6089, 0.2769, 0.4020)$

Have a look what the booklet for  
Yxy(78.6089, 0.2769, 0.4020)  
contains.

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# Color

**Yxy(78.4576, 0.2770, 0.4017)**

# Conversions

## Conversions Part 1

Format	Color
Hex	85FCC1
RGB	133, 252, 193
RGB Percent	52%, 99%, 76%
CMY	0.4787, 0.0117, 0.2431
CMYK	0.47, 0.00, 0.23, 0.01
HSL	150°, 95%, 75%
HSV	150°, 47%, 99%
XYZ	54.1020, 78.4576, 62.7544
YIQ	209.6930, -51.9850, -43.5770

# Conversions

## Conversions Part 2

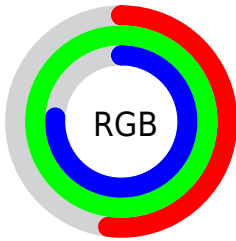
<b>Format</b>	<b>Color</b>
<b>RYB</b>	133, 212, 252
Decimal	8780993
CIELab	90.99, -46.78, 18.02
CIELCh	91, 50.132, 158.930
Yxy	78.4576, 0.2770, 0.4017
Android (android.graphics.Color)	4286971073 (0xFF85FCC1)
YUV	209.6930, -8.2296, -67.2598
Hunter-Lab	88.5763, -45.9816, 19.9977

# Details

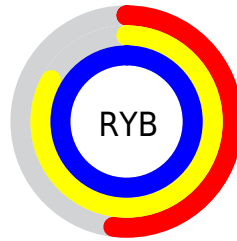
The Yxy color **78.4576, 0.2770, 0.4017** is a light color, and the websafe version is hex **99FFCC**. A complement of this color would be **41.2562, 0.3768, 0.2679**, and the grayscale version is **64.3091, 0.3127, 0.3290**.

A 20% lighter version of the original color is **89.6286, 0.2787, 0.3342**, and **42.3108, 0.2681, 0.4214** is the 20% darker color. If you saturate the color by 10%, you get **76.1171, 0.2722, 0.4207**, and if you desaturate by 10%, it is **81.3434, 0.2831, 0.3837**.

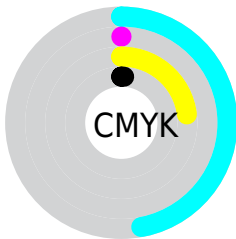
# Distribution



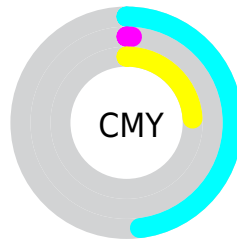
- Red (52%)
- Green (99%)
- Blue (76%)



- Red (52%)
- Yellow (83%)
- Blue (99%)



- Cyan (47%)
- Magenta (0%)
- Yellow (23%)
- Black (1%)




- Cyan (48%)
- Magenta (1%)
- Yellow (24%)

# Brightness & Saturation Gradients

These gradients show how the Yxy color 78.4576, 0.2770, 0.4017 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 78.4576, 0.2770, 0.4017 by changing the saturation by 10% instead.





 78.4576, 0.2770,  
0.4017


 78.4576, 0.2770,  
0.4017


489.7195, 0.2941,  
0.3668

 58.4500, 0.2730,  
0.4100


 131.1950, 0.2830,  
0.3893

 42.1705, 0.2679,  
0.4204

 164.6935, 0.2854,  
0.3846

 29.2348, 0.2614,  
0.4338


 203.4578, 0.2874,  
0.3806

 19.2585, 0.2526,  
0.4517

247.8723, 0.2891,  
0.3771

 11.8572, 0.2405,  
0.4768

298.3213, 0.2906,  
0.3740

 6.6465, 0.2224,  
0.5144

355.1892, 0.2919,

 3.2420, 0.1930,

0.3713

418.8605, 0.2931,  
0.3689

0.5756

1.2594, 0.0106,  
0.9411

0.1094, 0.0000,  
1.0000

78.4576, 0.2770,  
0.4017

78.4576, 0.2770,  
0.4017

76.1171, 0.2722,  
0.4207

81.3434, 0.2831,  
0.3837

74.2754, 0.2692,  
0.4403

84.7983, 0.2903,  
0.3670

72.8939, 0.2681,  
0.4600

88.8561, 0.2982,  
0.3518

71.9235, 0.2691,  
0.4793

93.5450, 0.3066,  
0.3380

■ 71.3012, 0.2719,  
0.4975

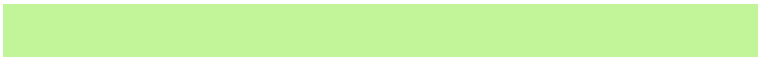
■ 98.1088, 0.3128,  
0.3262

■ 71.1654, 0.2729,  
0.5024

# Harmonies

## Analogous

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



78.4576, 0.3338, 0.4343



78.4576, 0.2770, 0.4017



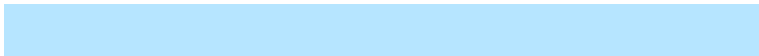
78.4576, 0.2324, 0.3438

# Triad

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



78.4576, 0.2770, 0.4017



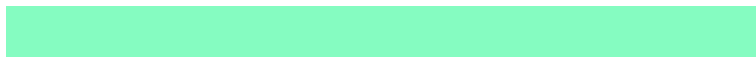
78.4576, 0.2367, 0.2369



78.4576, 0.4280, 0.3529

# Complementary

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



78.4576, 0.2770, 0.4017



41.2562, 0.3768, 0.2679

# 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.



78.4576, 0.3975, 0.3079



78.4576, 0.2770, 0.4017



78.4576, 0.2830, 0.2442

# Square

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



78.4576, 0.2770, 0.4017



78.4576, 0.2114, 0.2507



78.4576, 0.3423, 0.2695

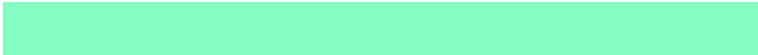


78.4576, 0.4233, 0.3970



# Rectangle

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



78.4576, 0.2770, 0.4017



78.4576, 0.2146, 0.3048



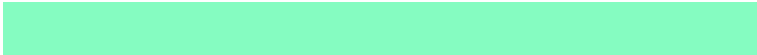
78.4576, 0.3423, 0.2695



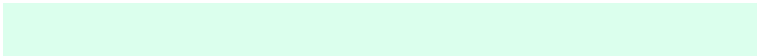
78.4576, 0.4215, 0.3376

# Sweetspot

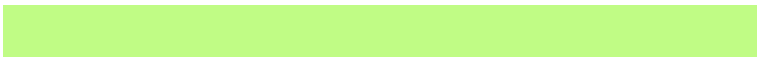
The Sweet Spot groups the original color and five complimentary colors.



78.4608, 0.2770, 0.4017



92.7594, 0.3009, 0.3472



82.5885, 0.3414, 0.4630



19.6404, 0.2991, 0.3502



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.



78.4608, 0.2770, 0.4017



78.2312, 0.2723, 0.4203



81.6388, 0.2499, 0.3288



19.4554, 0.3047, 0.3410



37.0964, 0.2721, 0.4994



3.4572, 0.2660, 0.4778



# Inverse Universe

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



41.2562, 0.3768, 0.2679



35.6997, 0.3972, 0.2569



39.1454, 0.4439, 0.3294



17.3686, 0.3216, 0.3173



11.5794, 0.4982, 0.2518

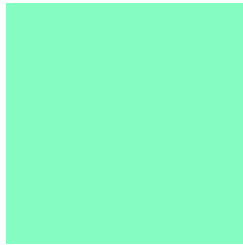


1.0938, 0.4713, 0.2370



# Previews

## White Background



This preview shows how the Yxy color 78.4576, 0.2770, 0.4017 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

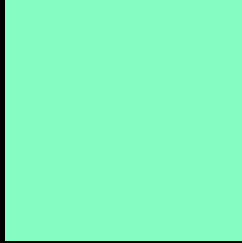
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 78.4576, 0.2770, 0.4017 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 78.4576, 0.2770, 0.4017**

## **Background**



This preview shows how black text looks on a background with the Yxy color 78.4576, 0.2770, 0.4017.

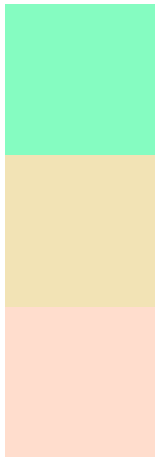


This preview shows how white text looks on a background with the Yxy color 78.4576, 0.2770, 0.4017.

# 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

78.4576, 0.2770, 0.4017

### Protanopia

77.1516, 0.3544, 0.3775

### Deuteranopia

77.3807, 0.3486, 0.3453



## Tritanopia

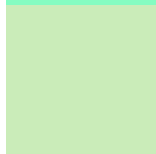
77.7237, 0.2639, 0.3112

# Trichromacy



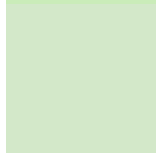
## Original Color

78.4576, 0.2770, 0.4017



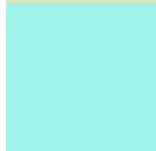
## Protanomaly

76.0502, 0.3213, 0.3872



## Deuteranomaly

75.7792, 0.3179, 0.3636



## Tritanomaly

77.7967, 0.2688, 0.3428

# Monochromacy



## Original Color

78.4576, 0.2770, 0.4017



## Achromatopsia

64.4480, 0.3127, 0.3290



## Achromatomaly

68.1551, 0.2966, 0.3540

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 78.4576, 0.2770, 0.4017 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(133, 252, 193)` looks like.

```
.text, #text, p{  
    color:rgb(133, 252, 193)  
}
```

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(133, 252, 193) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(133, 252, 193) }
```

## Border

The CSS property to change the border of an element to Yxy 78.4576, 0.2770, 0.4017 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(133, 252, 193) }
```

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

```
.border{ border-color:rgb(133, 252, 193) }
```

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

Here you see how a box with a 4 pixel `rgb(133, 252, 193)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(133, 252, 193); -webkit-box-  
shadow:4px 4px 4px 4px rgb(133, 252, 193);  
box-shadow:4px 4px 4px 4px rgb(133, 252,  
193) }
```



# Background

The CSS property to change the background color of an element to Yxy 78.4576, 0.2770, 0.4017 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(133, 252, 193) }
```

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

```
.background{ background-color: rgb(133,  
252, 193) }
```

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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