

# Converting Colors

$Yxy(80.0089, 0.2813, 0.4154)$

Have a look what the booklet for  
Yxy(80.0089, 0.2813, 0.4154)  
contains.

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# Color

**Yxy(80.0093, 0.2812, 0.4152)**

# Conversions

## Conversions Part 1

Format	Color
Hex	85FFB9
RGB	133, 255, 185
RGB Percent	52%, 100%, 73%
CMY	0.4786, 0.0000, 0.2744
CMYK	0.48, 0.00, 0.27, 0.00
HSL	146°, 100%, 76%
HSV	146°, 48%, 100%
XYZ	54.1874, 80.0093, 58.5039
YIQ	210.5420, -50.2420, -47.6340

# Conversions

## Conversions Part 2

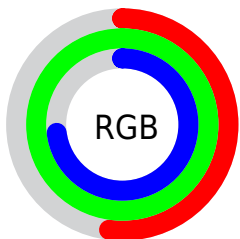
Format	Color
<a href="#">RYB</a>	<a href="#">133, 219, 255</a>
Decimal	<a href="#">8781753</a>
CIELab	<a href="#">91.69, -49.58, 23.08</a>
CIElCh	<a href="#">92, 54.690, 155.042</a>
Yxy	<a href="#">80.0093, 0.2812, 0.4152</a>
Android (android.graphics.Color)	<a href="#">4286971833 (0xFF85FFB9)</a>
YUV	<a href="#">210.5420, -12.5922, -68.0043</a>
Hunter-Lab	<a href="#">89.4479, -48.3988, 23.8346</a>

# Details

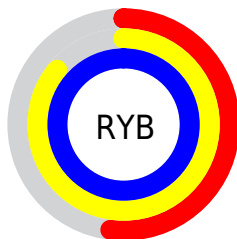
The Yxy color **80.0093, 0.2812, 0.4152** is a light color, and the websafe version is hex **66FFCC**. A complement of this color would be **42.3321, 0.3679, 0.2579**, and the grayscale version is **64.9264, 0.3127, 0.3290**.

A 20% lighter version of the original color is **89.0773, 0.2833, 0.3439**, and **43.0149, 0.2726, 0.4362** is the 20% darker color. If you saturate the color by 10%, you get **77.5923, 0.2772, 0.4374**, and if you desaturate by 10%, it is **82.9897, 0.2865, 0.3941**.

# Distribution



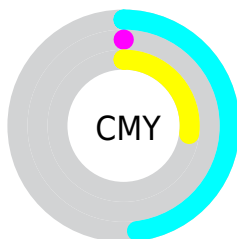
- Red (52%)
- Green (100%)
- Blue (73%)



- Red (52%)
- Yellow (86%)
- Blue (100%)



- Cyan (48%)
- Magenta (0%)
- Yellow (27%)
- Black (0%)




- Cyan (48%)
- Magenta (0%)
- Yellow (27%)

# Brightness & Saturation Gradients

These gradients show how the Yxy color 80.0093, 0.2812, 0.4152 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 80.0093, 0.2812, 0.4152 by changing the saturation by 10% instead.





 80.0093, 0.2812,  
0.4152

 80.0093, 0.2812,  
0.4152


494.9642, 0.2967,  
0.3736


 59.7260, 0.2774,  
0.4251


 133.3788, 0.2867,  
0.4005

 43.1978, 0.2727,  
0.4375

 167.2338, 0.2889,  
0.3948

 30.0404, 0.2665,  
0.4535

 206.3815, 0.2906,  
0.3900

 19.8692, 0.2581,  
0.4749

251.2063, 0.2922,  
0.3858

 12.3000, 0.2462,  
0.5048

302.0926, 0.2935,  
0.3822

 6.9483, 0.2281,  
0.5493


359.4247, 0.2947,


 3.4298, 0.1979,


0.3790

0.6208


423.5871, 0.2958,  
0.3762

 1.3600, 0.0142,  
0.9858


 0.1870, 0.0000,  
1.0000

 80.0093, 0.2812,  
0.4152


 80.0093, 0.2812,  
0.4152


 77.5923, 0.2772,  
0.4374


 82.9897, 0.2865,  
0.3941

 75.7054, 0.2749,  
0.4602

 86.5743, 0.2928,  
0.3744

 74.3024, 0.2744,  
0.4827

 90.7935, 0.2997,  
0.3565

 73.3315, 0.2759,  
0.5043

 95.6772, 0.3069,  
0.3404

■ 72.7237, 0.2792,  
0.5240

100.0000, 0.3127,  
0.3290

■ 72.6200, 0.2800,  
0.5280

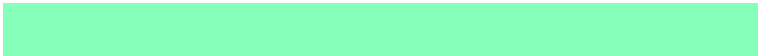
# Harmonies

## Analogous

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



80.0093, 0.3430, 0.4452



80.0093, 0.2812, 0.4152



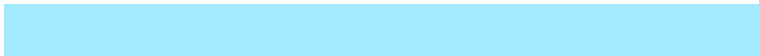
80.0093, 0.2310, 0.3535

# Triad

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



80.0093, 0.2812, 0.4152



80.0093, 0.2261, 0.2306



80.0093, 0.4354, 0.3475

# Complementary

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



80.0093, 0.2812, 0.4152



42.3321, 0.3679, 0.2579

# 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.



80.0093, 0.3979, 0.3001



80.0093, 0.2812, 0.4152



80.0093, 0.2729, 0.2359

# Square

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



80.0093, 0.2812, 0.4152



80.0093, 0.2024, 0.2481



80.0093, 0.3360, 0.2607

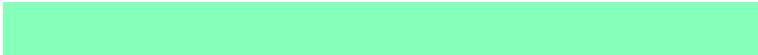


80.0093, 0.4349, 0.3955



# Rectangle

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



80.0093, 0.2812, 0.4152



80.0093, 0.2100, 0.3099



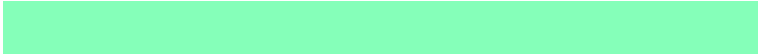
80.0093, 0.3360, 0.2607



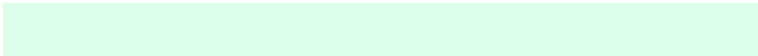
80.0093, 0.4268, 0.3313

# Sweetspot

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



80.0074, 0.2812, 0.4152



92.5979, 0.3024, 0.3501



86.0708, 0.3484, 0.4618



19.6012, 0.3009, 0.3537



0.0000, 0.0000, 0.0000

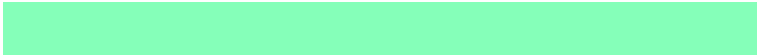


21.4041, 0.3127, 0.3290



# Same Dimension

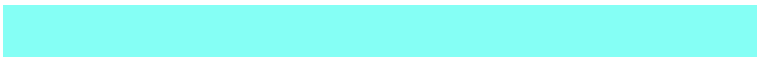
The Same Dimension uses a secret algorithm to generate beautiful new colors.



80.0074, 0.2812, 0.4152



77.7785, 0.2775, 0.4355



83.0854, 0.2536, 0.3405



20.2968, 0.3057, 0.3429



37.9740, 0.2792, 0.5250



3.7187, 0.2730, 0.5026



# Inverse Universe

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



42.3321, 0.3679, 0.2579



36.1858, 0.3836, 0.2461



40.0109, 0.4350, 0.3189



18.1617, 0.3204, 0.3155



12.2268, 0.4655, 0.2338

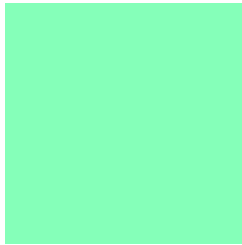


1.2124, 0.4444, 0.2222



# Previews

## White Background



This preview shows how the Yxy color 80.0093, 0.2812, 0.4152 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

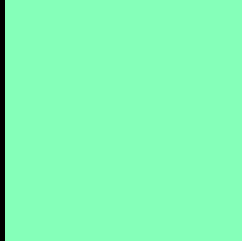
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 80.0093, 0.2812, 0.4152 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

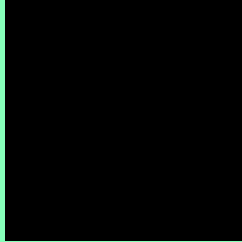
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**Yxy 80.0093, 0.2812, 0.4152**

## **Background**



This preview shows how black text looks on a background with the Yxy color 80.0093, 0.2812, 0.4152.

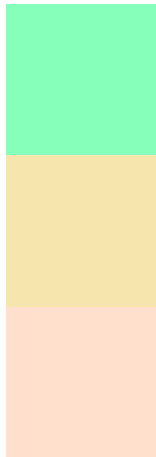


This preview shows how white text looks on a background with the Yxy color 80.0093, 0.2812, 0.4152.

# 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

80.0093, 0.2812, 0.4152

### Protanopia

78.6486, 0.3623, 0.3873

### Deuteranopia

78.9309, 0.3488, 0.3494



## Tritanopia

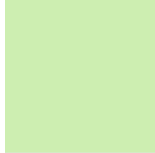
79.7143, 0.2679, 0.3136

# Trichromacy



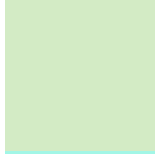
## Original Color

80.0093, 0.2812, 0.4152



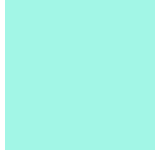
## Protanomaly

77.3025, 0.3280, 0.3982



## Deuteranomaly

77.2968, 0.3202, 0.3713



## Tritanomaly

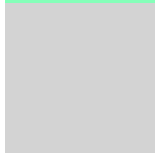
79.3061, 0.2721, 0.3473

# Monochromacy



## Original Color

80.0093, 0.2812, 0.4152



## Achromatopsia

65.1406, 0.3127, 0.3290



## Achromatomaly

69.2697, 0.2985, 0.3587

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 80.0093, 0.2812, 0.4152 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, 255, 185)` looks like.

```
.text, #text, p{  
    color:rgb(133, 255, 185)  
}
```

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, 255, 185) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(133, 255, 185) }
```

## Border

The CSS property to change the border of an element to Yxy 80.0093, 0.2812, 0.4152 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, 255, 185) }
```

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

```
.border{ border-color:rgb(133, 255, 185) }
```

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

Here you see how a box with a 4 pixel rgb(133, 255, 185) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(133, 255, 185); -webkit-box-  
shadow:4px 4px 4px 4px rgb(133, 255, 185);  
box-shadow:4px 4px 4px 4px rgb(133, 255,  
185) }
```



# Background

The CSS property to change the background color of an element to Yxy 80.0093, 0.2812, 0.4152 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(133, 255, 185) }
```

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

```
.background{ background-color: rgb(133,  
255, 185) }
```

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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