

# Converting Colors

$Y_{xy}(122.8002, 0.2813, 0.4508)$

Have a look what the booklet for  
Yxy(122.8002, 0.2813, 0.4508)  
contains.

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# Color

**Yxy(80.5028, 0.2746, 0.3985)**

# Conversions

## Conversions Part 1

Format	Color
Hex	84FFC6
RGB	132, 255, 198
RGB Percent	52%, 100%, 78%
CMY	0.4822, 0.0000, 0.2235
CMYK	0.48, 0.00, 0.22, 0.00
HSL	152°, 100%, 76%
HSV	152°, 48%, 100%
XYZ	55.4732, 80.5028, 66.0386
YIQ	211.7250, -55.0110, -43.8030

# Conversions

## Conversions Part 2

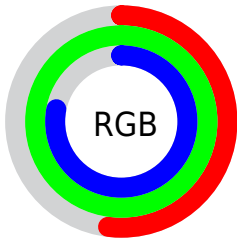
Format	Color
<a href="#">RYB</a>	<a href="#">132, 212, 255</a>
Decimal	<a href="#">8716230</a>
CIELab	<a href="#">91.91, -47.28, 16.76</a>
CIELCh	<a href="#">92, 50.163, 160.485</a>
Yxy	<a href="#">80.5028, 0.2746, 0.3985</a>
Android (android.graphics.Color)	<a href="#">4286906310 (0xFF84FFC6)</a>
YUV	<a href="#">211.7250, -6.7664, -69.9188</a>
Hunter-Lab	<a href="#">89.7234, -46.6548, 19.1675</a>

# Details

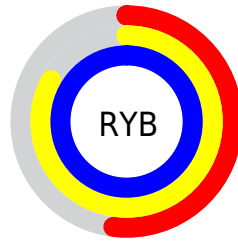
The Yxy color **80.5028, 0.2746, 0.3985** is a light color, and the websafe version is hex **66FFCC**. A complement of this color would be **41.4505, 0.3830, 0.2705**, and the grayscale version is **65.7277, 0.3127, 0.3290**.

A 20% lighter version of the original color is **89.8164, 0.2757, 0.3289**, and **43.7414, 0.2652, 0.4169** is the 20% darker color. If you saturate the color by 10%, you get **78.1701, 0.2697, 0.4163**, and if you desaturate by 10%, it is **83.3870, 0.2809, 0.3817**.

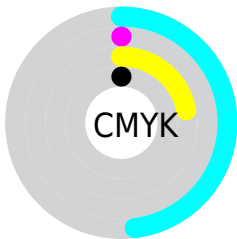
# Distribution



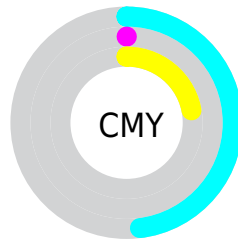
- Red (52%)
- Green (100%)
- Blue (78%)



- Red (52%)
- Yellow (83%)
- Blue (100%)



- Cyan (48%)
- Magenta (0%)
- Yellow (22%)
- Black (0%)




- Cyan (48%)
- Magenta (0%)
- Yellow (22%)

# Brightness & Saturation Gradients

These gradients show how the Yxy color 80.5028, 0.2746, 0.3985 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 80.5028, 0.2746, 0.3985 by changing the saturation by 10% instead.





 80.5028, 0.2746,  
0.3985

 80.5028, 0.2746,  
0.3985

496.6257, 0.2926,  
0.3653

 60.1322, 0.2704,  
0.4063


 134.0724, 0.2809,  
0.3868

 43.5252, 0.2651,  
0.4161

 168.0402, 0.2834,  
0.3823

 30.2974, 0.2584,  
0.4286


 207.3092, 0.2855,  
0.3785

 20.0644, 0.2495,  
0.4454

252.2638, 0.2873,  
0.3751

 12.4419, 0.2372,  
0.4687

303.2883, 0.2889,  
0.3722

 7.0454, 0.2192,  
0.5032


360.7672, 0.2903,


 3.4905, 0.1907,


0.3697


0.5590


425.0849, 0.2915,  
0.3674


 1.3929, 0.0564,  
0.7932


 0.2114, 0.0000,  
1.0000


 80.5028, 0.2746,  
0.3985


 80.5028, 0.2746,  
0.3985


 78.1701, 0.2697,  
0.4163


 83.3870, 0.2809,  
0.3817

 76.3410, 0.2666,  
0.4346

 86.8472, 0.2884,  
0.3660

 74.9752, 0.2655,  
0.4530

 90.9184, 0.2966,  
0.3516

 74.0215, 0.2664,  
0.4711

 95.6297, 0.3054,  
0.3386

■ 73.4100, 0.2693,  
0.4884

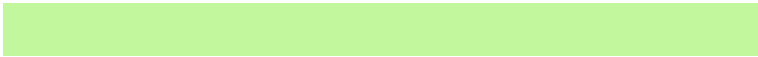
99.9998, 0.3127,  
0.3290

■ 73.3198, 0.2698,  
0.4914

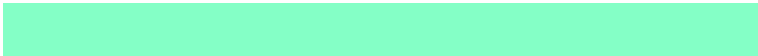
# Harmonies

## Analogous

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



80.5028, 0.3307, 0.4326



80.5028, 0.2746, 0.3985



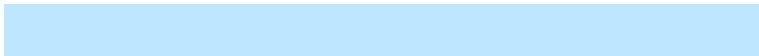
80.5028, 0.2313, 0.3406

# Triad

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



80.5028, 0.2746, 0.3985



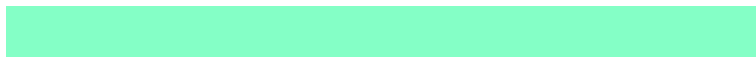
80.5028, 0.2392, 0.2374



80.5028, 0.4277, 0.3552

# Complementary

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



80.5028, 0.2746, 0.3985



41.4505, 0.3830, 0.2705

# 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.



80.5028, 0.3991, 0.3103



80.5028, 0.2746, 0.3985



80.5028, 0.2861, 0.2457

# Square

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



80.5028, 0.2746, 0.3985



80.5028, 0.2129, 0.2501



80.5028, 0.3452, 0.2717



80.5028, 0.4213, 0.3986



# Rectangle

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



80.5028, 0.2746, 0.3985



80.5028, 0.2144, 0.3022



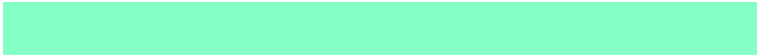
80.5028, 0.3452, 0.2717



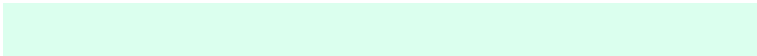
80.5028, 0.4219, 0.3400

# Sweetspot

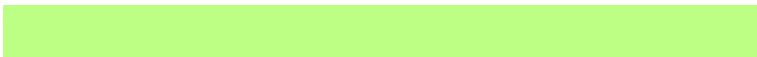
The Sweet Spot groups the original color and five complimentary colors.



80.5061, 0.2746, 0.3985



92.8262, 0.3003, 0.3460



84.0600, 0.3391, 0.4672



19.6567, 0.2984, 0.3488



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.



80.5061, 0.2746, 0.3985



78.2157, 0.2698, 0.4159



81.0617, 0.2481, 0.3241



20.3311, 0.3042, 0.3402



38.3418, 0.2691, 0.4886



3.7553, 0.2636, 0.4689



# Inverse Universe

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



41.4505, 0.3830, 0.2705



34.9176, 0.4053, 0.2606



40.5756, 0.4459, 0.3336



18.1272, 0.3221, 0.3180



11.8244, 0.5119, 0.2594

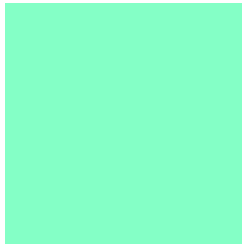


1.1731, 0.4845, 0.2443



# Previews

## White Background



This preview shows how the Yxy color 80.5028, 0.2746, 0.3985 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

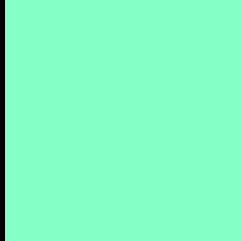
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 80.5028, 0.2746, 0.3985 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

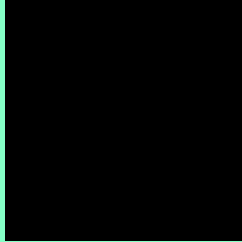
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**Yxy 80.5028, 0.2746, 0.3985**

## **Background**



This preview shows how black text looks on a background with the Yxy color 80.5028, 0.2746, 0.3985.

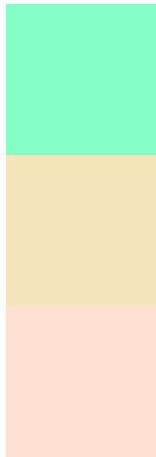


This preview shows how white text looks on a background with the Yxy color 80.5028, 0.2746, 0.3985.

# 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

80.5028, 0.2746, 0.3985

### Protanopia

79.3719, 0.3518, 0.3749

### Deuteranopia

79.2745, 0.3438, 0.3422



## Tritanopia

79.9544, 0.2689, 0.3136

# Trichromacy



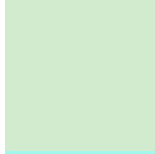
## Original Color

80.5028, 0.2746, 0.3985



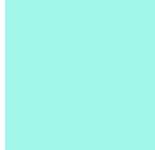
## Protanomaly

78.1472, 0.3187, 0.3844



## Deuteranomaly

77.5745, 0.3139, 0.3611



## Tritanomaly

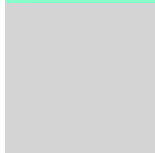
79.6386, 0.2706, 0.3426

# Monochromacy



## Original Color

80.5028, 0.2746, 0.3985



## Achromatopsia

65.8375, 0.3127, 0.3290



## Achromatomaly

70.0591, 0.2955, 0.3537

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 80.5028, 0.2746, 0.3985 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(132, 255, 198)` looks like.

```
.text, #text, p{  
    color:rgb(132, 255, 198)  
}
```

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(132, 255, 198) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(132, 255, 198) }
```

## Border

The CSS property to change the border of an element to Yxy 80.5028, 0.2746, 0.3985 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(132, 255, 198) }
```

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

```
.border{ border-color:rgb(132, 255, 198) }
```

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

Here you see how a box with a 4 pixel rgb(132, 255, 198) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(132, 255, 198); -webkit-box-  
shadow:4px 4px 4px 4px rgb(132, 255, 198);  
box-shadow:4px 4px 4px 4px rgb(132, 255,  
198) }
```



# Background

The CSS property to change the background color of an element to Yxy 80.5028, 0.2746, 0.3985 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(132, 255, 198) }
```

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

```
.background{ background-color: rgb(132,  
255, 198) }
```

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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