

# Converting Colors

$Yxy(80.8908, 0.2547, 0.3610)$

Have a look what the booklet for  
Yxy(80.8908, 0.2547, 0.3610)  
contains.

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# Color

**Yxy(80.9033, 0.2549, 0.3612)**

# Conversions

## Conversions Part 1

Format	Color
Hex	75FFE4
RGB	117, 255, 228
RGB Percent	46%, 100%, 89%
CMY	0.5413, 0.0000, 0.1060
CMYK	0.54, 0.00, 0.11, 0.00
HSL	168°, 100%, 73%
HSV	168°, 54%, 100%
XYZ	57.0937, 80.9033, 85.9878
YIQ	210.6600, -73.5810, -37.6530

# Conversions

## Conversions Part 2

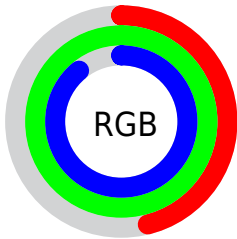
<b>Format</b>	<b>Color</b>
<b>RYB</b>	117, 193, 255
Decimal	7733220
CIELab	92.09, -44.02, 1.49
CIELCh	92, 44.047, 178.056
Yxy	80.9033, 0.2549, 0.3612
Android (android.graphics.Color)	4285923300 (0xFF75FFE4)
YUV	210.6600, 8.5486, -82.1398
Hunter-Lab	89.9463, -44.1024, 6.2817

# Details

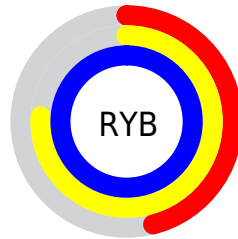
The Yxy color **80.9033, 0.2549, 0.3612** is a light color, and the websafe version is hex **66FFCC**. A complement of this color would be **35.9896, 0.4416, 0.3020**, and the grayscale version is **64.8763, 0.3127, 0.3290**.

A 20% lighter version of the original color is **88.2050, 0.2691, 0.3289**, and **44.0096, 0.2421, 0.3685** is the 20% darker color. If you saturate the color by 10%, you get **79.0951, 0.2488, 0.3683**, and if you desaturate by 10%, it is **83.1941, 0.2628, 0.3544**.

# Distribution



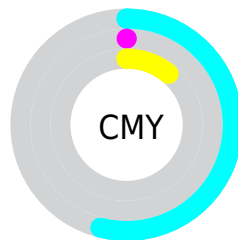
- Red (46%)
- Green (100%)
- Blue (89%)



- Red (46%)
- Yellow (76%)
- Blue (100%)



- Cyan (54%)
- Magenta (0%)
- Yellow (11%)
- Black (0%)




- Cyan (54%)
- Magenta (0%)
- Yellow (11%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 80.9033, 0.2549, 0.3612 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 80.9033, 0.2549, 0.3612 by changing the saturation by 10% instead.





 80.9033, 0.2549,  
0.3612

 80.9033, 0.2549,  
0.3612


497.9718, 0.2810,  
0.3466


 60.4620, 0.2491,  
0.3645


 134.6350, 0.2638,  
0.3562

 43.7911, 0.2420,  
0.3685

 168.6941, 0.2673,  
0.3542

 30.5063, 0.2332,  
0.3735


 208.0613, 0.2704,  
0.3525

 20.2232, 0.2218,  
0.3800

253.1209, 0.2731,  
0.3510

 12.5574, 0.2068,  
0.3887

304.2574, 0.2754,  
0.3497

 7.1245, 0.1861,  
0.4007


361.8551, 0.2775,


 3.5401, 0.1560,


0.3485


0.4186


426.2985, 0.2793,  
0.3475


 1.4198, 0.0653,  
0.4695


 0.2312, 0.0000,  
0.6109


 80.9033, 0.2549,  
0.3612


 80.9033, 0.2549,  
0.3612


 79.0951, 0.2488,  
0.3683


 83.1941, 0.2628,  
0.3544


 77.7389, 0.2447,  
0.3754


 86.0126, 0.2723,  
0.3479

 76.7848, 0.2425,  
0.3827

 89.3880, 0.2831,  
0.3418

 76.1758, 0.2423,  
0.3898

 93.3498, 0.2949,  
0.3361

 75.9315, 0.2428,  
0.3940

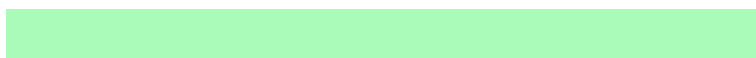
 97.9257, 0.3074,  
0.3310

100.0000, 0.3127,  
0.3290

# Harmonies

## Analogous

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



80.9033, 0.2996, 0.4050



80.9033, 0.2549, 0.3612



80.9033, 0.2269, 0.3100

# Triad

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



80.9033, 0.2549, 0.3612



80.9033, 0.2704, 0.2497



80.9033, 0.4142, 0.3764

# Complementary

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



80.9033, 0.2549, 0.3612



35.9896, 0.4416, 0.3020

# 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.



80.9033, 0.4065, 0.3363



80.9033, 0.2549, 0.3612



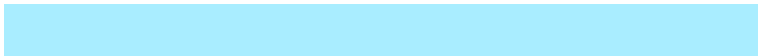
80.9033, 0.3196, 0.2668

# Square

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



80.9033, 0.2549, 0.3612



80.9033, 0.2354, 0.2501



80.9033, 0.3707, 0.2975

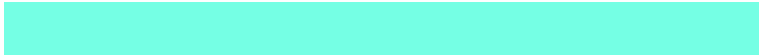


80.9033, 0.3925, 0.4090



# Rectangle

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



80.9033, 0.2549, 0.3612



80.9033, 0.2200, 0.2816



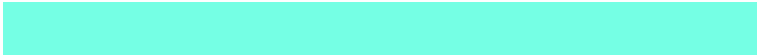
80.9033, 0.3707, 0.2975



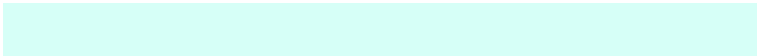
80.9033, 0.4151, 0.3634

# Sweetspot

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



80.9002, 0.2549, 0.3612



92.5624, 0.2926, 0.3372



78.7852, 0.3186, 0.4964



19.6321, 0.2902, 0.3383



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.



80.9002, 0.2549, 0.3612



78.9597, 0.2484, 0.3689



58.8867, 0.2331, 0.2783



20.4169, 0.3006, 0.3337



39.6974, 0.2425, 0.3928



3.8801, 0.2402, 0.3846



# Inverse Universe

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



35.9896, 0.4416, 0.3020



29.8441, 0.4847, 0.2993



47.1275, 0.4475, 0.3717



18.0452, 0.3263, 0.3244



11.2452, 0.6091, 0.3129

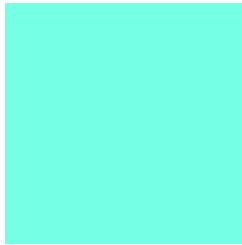


1.1094, 0.5795, 0.2966



# Previews

## White Background



This preview shows how the Yxy color 80.9033, 0.2549, 0.3612 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

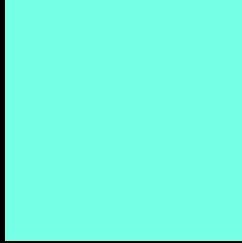
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 80.9033, 0.2549, 0.3612 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

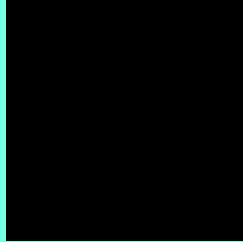
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

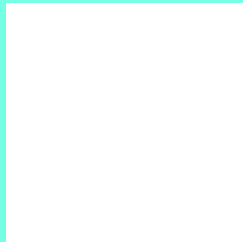
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**Yxy 80.9033, 0.2549, 0.3612**

## **Background**



This preview shows how black text looks on a background with the Yxy color 80.9033, 0.2549, 0.3612.



This preview shows how white text looks on a background with the Yxy color 80.9033, 0.2549, 0.3612.

# 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

80.9033, 0.2549, 0.3612

### Protanopia

79.7994, 0.3294, 0.3457

### Deuteranopia

79.2827, 0.3246, 0.3170



## Tritanopia

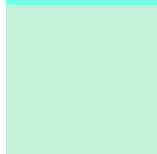
80.1892, 0.2675, 0.3147

# Trichromacy



## Original Color

80.9033, 0.2549, 0.3612



## Protanomaly

78.4496, 0.2963, 0.3513



## Deuteranomaly

77.7994, 0.2931, 0.3322



## Tritanomaly

80.1820, 0.2620, 0.3311

# Monochromacy



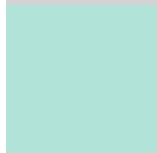
## Original Color

80.9033, 0.2549, 0.3612



## Achromatopsia

65.1406, 0.3127, 0.3290



## Achromatomaly

69.2950, 0.2858, 0.3407

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 80.9033, 0.2549, 0.3612 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(117, 255, 228)` looks like.

```
.text, #text, p{  
    color:rgb(117, 255, 228)  
}
```

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(117, 255, 228) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(117, 255, 228) }
```

## Border

The CSS property to change the border of an element to Yxy 80.9033, 0.2549, 0.3612 is called "border". The border property can be set on classes, ids or directly on the HTML element.

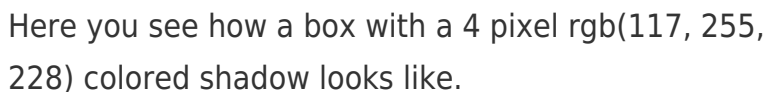
This example shows the color as border, it can be applied via the CSS property "border" or "border-color".

```
.border, #border, table{ border:4px solid rgb(117, 255, 228) }
```

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

```
.border{ border-color:rgb(117, 255, 228) }
```

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



Here you see how a box with a 4 pixel `rgb(117, 255, 228)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px 4px rgb(117, 255, 228); -webkit-box-shadow:4px 4px 4px 4px rgb(117, 255, 228); box-shadow:4px 4px 4px 4px rgb(117, 255, 228) }
```



# Background

The CSS property to change the background color of an element to Yxy 80.9033, 0.2549, 0.3612 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(117, 255, 228) }
```

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

```
.background{ background-color: rgb(117,  
255, 228) }
```

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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