

# Converting Colors

$Y_{xy}(110.3036, 0.2848, 0.4171)$

Have a look what the booklet for  
Yxy(110.3036, 0.2848, 0.4171)  
contains.

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# Color

**Yxy(83.6967, 0.2816, 0.3800)**

# Conversions

## Conversions Part 1

Format	Color
Hex	A0FFD3
RGB	160, 255, 211
RGB Percent	63%, 100%, 83%
CMY	0.3724, 0.0000, 0.1724
CMYK	0.37, 0.00, 0.17, 0.00
HSL	152°, 100%, 81%
HSV	152°, 37%, 100%
XYZ	62.0237, 83.6967, 74.5341
YIQ	221.5790, -42.4960, -33.8240

# Conversions

## Conversions Part 2

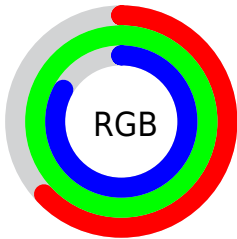
<b>Format</b>	<b>Color</b>
<a href="#">RYB</a>	<a href="#">160, 222, 255</a>
Decimal	<a href="#">10551251</a>
CIELab	<a href="#">93.32, -37.51, 12.22</a>
CIELCh	<a href="#">93, 39.453, 161.961</a>
Yxy	<a href="#">83.6967, 0.2816, 0.3800</a>
Android (android.graphics.Color)	<a href="#">4288741331 (0xFFA0FFD3)</a>
YUV	<a href="#">221.5790, -5.2154, -54.0048</a>
Hunter-Lab	<a href="#">91.4859, -39.0847, 15.7362</a>

# Details

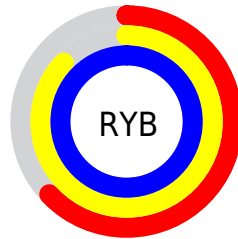
The Yxy color **83.6967, 0.2816, 0.3800** is a light color, and the websafe version is hex **99FFCC**. A complement of this color would be **50.7746, 0.3615, 0.2836**, and the grayscale version is **72.8037, 0.3127, 0.3290**.

A 20% lighter version of the original color is **93.4917, 0.2900, 0.3289**, and **45.7315, 0.2745, 0.3934** is the 20% darker color. If you saturate the color by 10%, you get **80.7645, 0.2751, 0.3967**, and if you desaturate by 10%, it is **87.2182, 0.2892, 0.3645**.

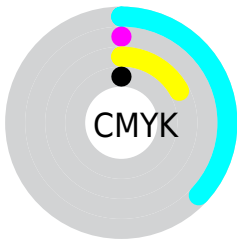
# Distribution



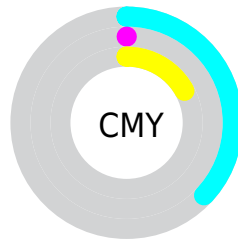
- Red (63%)
- Green (100%)
- Blue (83%)



- Red (63%)
- Yellow (87%)
- Blue (100%)



- Cyan (37%)
- Magenta (0%)
- Yellow (17%)
- Black (0%)




- Cyan (37%)
- Magenta (0%)
- Yellow (17%)

# Brightness & Saturation Gradients

These gradients show how the Yxy color 83.6967, 0.2816, 0.3800 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 83.6967, 0.2816, 0.3800 by changing the saturation by 10% instead.




 83.6967, 0.2816,  
0.3800

 83.6967, 0.2816,  
0.3800


507.3055, 0.2960,  
0.3561

 62.7651, 0.2783,  
0.3855


 138.5508, 0.2866,  
0.3717

 45.6512, 0.2742,  
0.3924


 173.2421, 0.2886,  
0.3684

 31.9706, 0.2690,  
0.4011


213.2887, 0.2902,  
0.3657

 21.3391, 0.2622,  
0.4126

259.0750, 0.2917,  
0.3632

 13.3721, 0.2530,  
0.4285

310.9855, 0.2930,  
0.3611

 7.6853, 0.2397,  
0.4516

369.4045, 0.2941,

 3.8942, 0.2190,

0.3593

0.4881

434.7163, 0.2951,  
0.3576

■ 1.6146, 0.1703,  
0.5662

■ 0.3674, 0.0000,  
1.0000

■ 83.6967, 0.2816,  
0.3800

■ 83.6967, 0.2816,  
0.3800

■ 80.7645, 0.2751,  
0.3967

■ 87.2182, 0.2892,  
0.3645

■ 78.3773, 0.2701,  
0.4144

■ 91.3499, 0.2975,  
0.3503

■ 76.5007, 0.2668,  
0.4326

■ 96.1244, 0.3062,  
0.3374

■ 75.0918, 0.2654,  
0.4511

99.9976, 0.3127,  
0.3290

■ 74.1005, 0.2662,  
0.4692

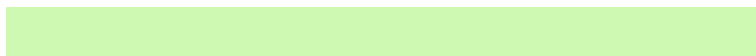
■ 73.4623, 0.2689,  
0.4866

■ 73.3219, 0.2698,  
0.4912

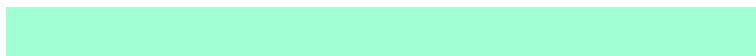
# Harmonies

## Analogous

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



83.6967, 0.3257, 0.4073



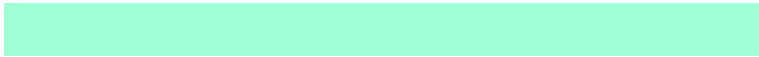
83.6967, 0.2816, 0.3800



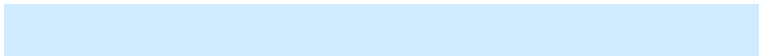
83.6967, 0.2475, 0.3364

# Triad

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



83.6967, 0.2816, 0.3800



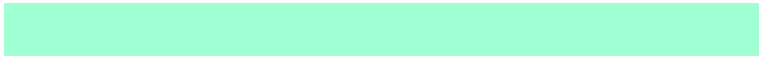
83.6967, 0.2563, 0.2561



83.6967, 0.4023, 0.3531

# Complementary

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



83.6967, 0.2816, 0.3800



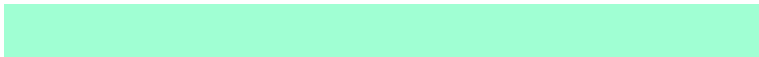
50.7746, 0.3615, 0.2836

# 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.



83.6967, 0.3813, 0.3168



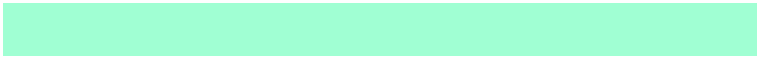
83.6967, 0.2816, 0.3800



83.6967, 0.2945, 0.2632

# Square

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



83.6967, 0.2816, 0.3800



83.6967, 0.2339, 0.2663



83.6967, 0.3407, 0.2849

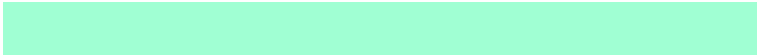


83.6967, 0.3969, 0.3867



# Rectangle

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



83.6967, 0.2816, 0.3800



83.6967, 0.2341, 0.3073



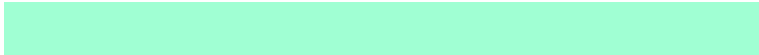
83.6967, 0.3407, 0.2849



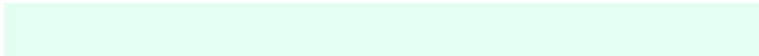
83.6967, 0.3981, 0.3409

# Sweetspot

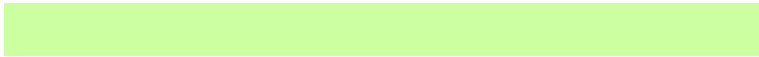
The Sweet Spot groups the original color and five complimentary colors.



83.7001, 0.2816, 0.3800



94.2544, 0.3029, 0.3421



86.9444, 0.3346, 0.4335



20.0347, 0.3017, 0.3438



0.0000, 0.0000, 0.0000

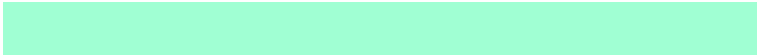


21.4041, 0.3127, 0.3290

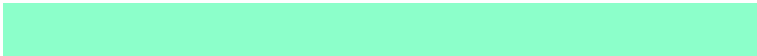


# Same Dimension

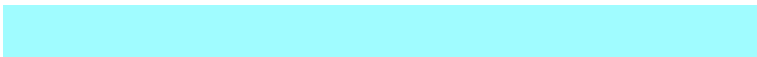
The Same Dimension uses a secret algorithm to generate beautiful new colors.



83.7001, 0.2816, 0.3800



81.3754, 0.2765, 0.3929



84.2122, 0.2601, 0.3254



20.3313, 0.3042, 0.3402



38.3441, 0.2690, 0.4884



3.7555, 0.2635, 0.4688



# Inverse Universe

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



50.7746, 0.3615, 0.2836



43.9565, 0.3764, 0.2743



50.0660, 0.4034, 0.3326



18.1270, 0.3221, 0.3180



11.8225, 0.5121, 0.2595

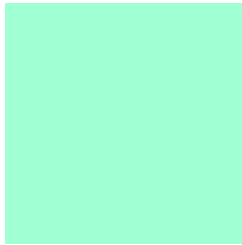


1.1729, 0.4847, 0.2444



# Previews

## White Background



This preview shows how the Yxy color 83.6967, 0.2816, 0.3800 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

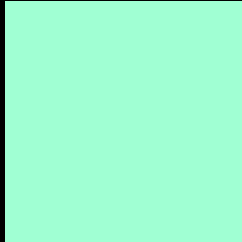
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 83.6967, 0.2816, 0.3800 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 83.6967, 0.2816, 0.3800**

## **Background**



This preview shows how black text looks on a background with the Yxy color 83.6967, 0.2816, 0.3800.

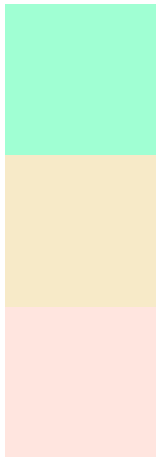


This preview shows how white text looks on a background with the Yxy color 83.6967, 0.2816, 0.3800.

# 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

83.6967, 0.2816, 0.3800

### Protanopia

82.7899, 0.3438, 0.3639

### Deuteranopia

82.6263, 0.3349, 0.3350



## Tritanopia

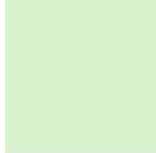
83.0036, 0.2795, 0.3152

# Trichromacy



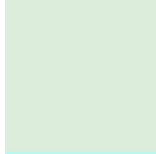
## Original Color

83.6967, 0.2816, 0.3800



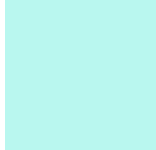
## Protanomaly

82.3110, 0.3180, 0.3703



## Deuteranomaly

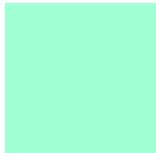
81.4792, 0.3124, 0.3493



## Tritanomaly

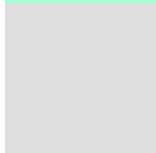
83.0678, 0.2799, 0.3377

# Monochromacy



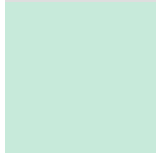
## Original Color

83.6967, 0.2816, 0.3800



## Achromatopsia

73.0461, 0.3127, 0.3290



## Achromatomaly

76.0497, 0.2994, 0.3469

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 83.6967, 0.2816, 0.3800 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(160, 255, 211)` looks like.

```
.text, #text, p{  
    color:rgb(160, 255, 211)  
}
```

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(160, 255, 211) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(160, 255, 211) }
```

## Border

The CSS property to change the border of an element to Yxy 83.6967, 0.2816, 0.3800 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(160, 255, 211) }
```

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

```
.border{ border-color:rgb(160, 255, 211) }
```

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

Here you see how a box with a 4 pixel `rgb(160, 255, 211)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(160, 255, 211); -webkit-box-  
shadow:4px 4px 4px 4px rgb(160, 255, 211);  
box-shadow:4px 4px 4px 4px rgb(160, 255,  
211) }
```



# Background

The CSS property to change the background color of an element to Yxy 83.6967, 0.2816, 0.3800 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(160, 255, 211) }
```

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

```
.background{ background-color: rgb(160,  
255, 211) }
```

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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