

# Converting Colors

$Y_{xy}(160.1829, 0.2899, 0.4288)$

Have a look what the booklet for  
Yxy(160.1829, 0.2899, 0.4288)  
contains.

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# Color

**Yxy(88.7108, 0.2848, 0.3483)**

# Conversions

## Conversions Part 1

Format	Color
Hex	BFFFED
RGB	191, 255, 237
RGB Percent	75%, 100%, 93%
CMY	0.2509, 0.0000, 0.0704
CMYK	0.25, 0.00, 0.07, 0.00
HSL	163°, 100%, 87%
HSV	163°, 25%, 100%
XYZ	72.5376, 88.7108, 93.4482
YIQ	233.8120, -32.3660, -19.1660

# Conversions

## Conversions Part 2

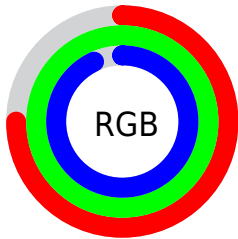
Format	Color
<a href="#">RYB</a>	<a href="#">191, 228, 255</a>
Decimal	<a href="#">12582893</a>
CIELab	<a href="#">95.46, -23.50, 2.11</a>
CIELCh	<a href="#">95, 23.598, 174.877</a>
Yxy	<a href="#">88.7108, 0.2848, 0.3483</a>
Android (android.graphics.Color)	<a href="#">4290772973</a> ( <a href="#">0xFFBFFED</a> )
YUV	<a href="#">233.8120, 1.5717, -37.5461</a>
Hunter-Lab	<a href="#">94.1864, -27.3546, 7.1052</a>

# Details

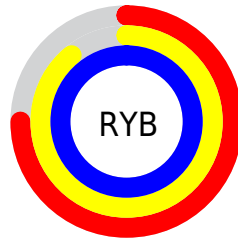
The Yxy color **88.7108, 0.2848, 0.3483** is a light color, and the websafe version is hex **CCFFFF**. A complement of this color would be **63.1281, 0.3512, 0.3106**, and the grayscale version is **82.1411, 0.3127, 0.3290**.

A 20% lighter version of the original color is **98.6965, 0.3084, 0.3290**, and **48.9586, 0.2788, 0.3528** is the 20% darker color. If you saturate the color by 10%, you get **85.2806, 0.2750, 0.3573**, and if you desaturate by 10%, it is **92.7403, 0.2955, 0.3400**.

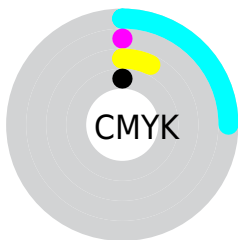
# Distribution



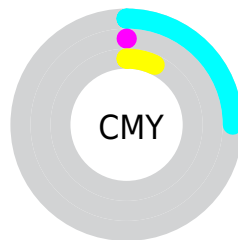
- Red (75%)
- Green (100%)
- Blue (93%)



- Red (75%)
- Yellow (89%)
- Blue (100%)



- Cyan (25%)
- Magenta (0%)
- Yellow (7%)
- Black (0%)




- Cyan (25%)
- Magenta (0%)
- Yellow (7%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 88.7108, 0.2848, 0.3483 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 88.7108, 0.2848, 0.3483 by changing the saturation by 10% instead.




 88.7108, 0.2848,  
0.3483

 88.7108, 0.2848,  
0.3483


523.8282, 0.2973,  
0.3396

 66.9119, 0.2820,  
0.3502

 145.5463, 0.2891,  
0.3453

 49.0130, 0.2787,  
0.3526


181.3518, 0.2907,  
0.3442

 34.6298, 0.2745,  
0.3555


222.5948, 0.2922,  
0.3432

 23.3779, 0.2692,  
0.3593

269.6598, 0.2935,  
0.3423

 14.8728, 0.2621,  
0.3644

322.9313, 0.2946,  
0.3415

 8.7301, 0.2523,  
0.3714


382.7936, 0.2956,


 4.5656, 0.2378,


0.3408

0.3820

449.6311, 0.2965,  
0.3402

 1.9947, 0.2145,  
0.3994


 0.6044, 0.0006,  
0.5416


 88.7108, 0.2848,  
0.3483


 88.7108, 0.2848,  
0.3483

 85.2806, 0.2750,  
0.3573


 92.7403, 0.2955,  
0.3400

 82.4091, 0.2665,  
0.3669

 97.3864, 0.3068,  
0.3325

 80.0671, 0.2594,  
0.3770

100.0000, 0.3127,  
0.3290

 78.2184, 0.2542,  
0.3875

■ 76.8224, 0.2509,  
0.3982

■ 75.8314, 0.2497,  
0.4090

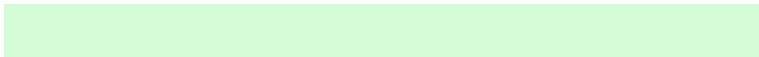
■ 75.1869, 0.2505,  
0.4196

■ 74.9565, 0.2513,  
0.4248

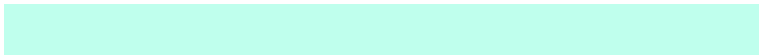
# Harmonies

## Analogous

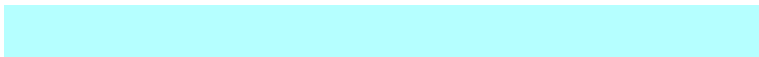
The Analogous color harmony consists of three colors that are next to each other on the color wheel.



88.7108, 0.3096, 0.3684



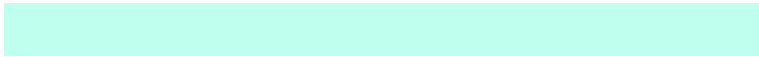
88.7108, 0.2848, 0.3483



88.7108, 0.2678, 0.3231

# Triad

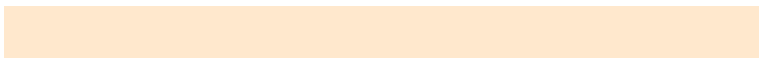
The Triadic color harmony groups three colors that are evenly spaced from another and form a triangle on the color wheel.



88.7108, 0.2848, 0.3483



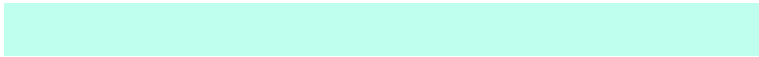
88.7108, 0.2883, 0.2853



88.7108, 0.3657, 0.3539

# Complementary

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



88.7108, 0.2848, 0.3483



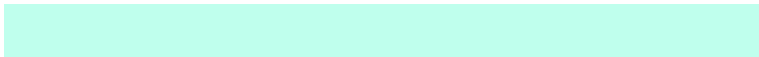
63.1281, 0.3512, 0.3106

# 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.



88.7108, 0.3597, 0.3320



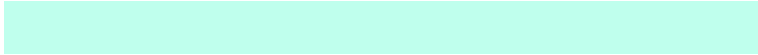
88.7108, 0.2848, 0.3483



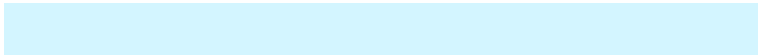
88.7108, 0.3141, 0.2936

# Square

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



88.7108, 0.2848, 0.3483



88.7108, 0.2698, 0.2876



88.7108, 0.3404, 0.3104

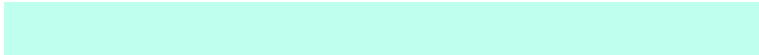


88.7108, 0.3568, 0.3705



# Rectangle

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



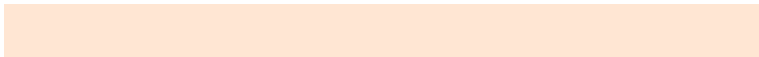
88.7108, 0.2848, 0.3483



88.7108, 0.2628, 0.3075



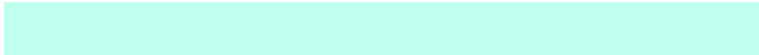
88.7108, 0.3404, 0.3104



88.7108, 0.3653, 0.3469

# Sweetspot

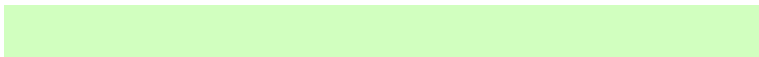
The Sweet Spot groups the original color and five complimentary colors.



88.7143, 0.2848, 0.3483



95.9708, 0.3035, 0.3346



88.8579, 0.3206, 0.3984



20.3894, 0.3018, 0.3358



0.0000, 0.0000, 0.0000

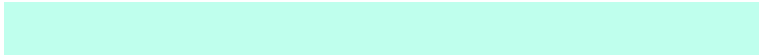


21.4041, 0.3127, 0.3290

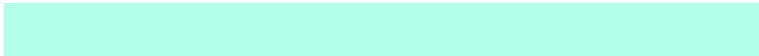


# Same Dimension

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



88.7143, 0.2848, 0.3483



86.9576, 0.2799, 0.3526



81.2886, 0.2744, 0.3140



20.3894, 0.3018, 0.3358



39.1932, 0.2508, 0.4230



3.8348, 0.2475, 0.4109



# Inverse Universe

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



63.1281, 0.3512, 0.3106



57.4690, 0.3613, 0.3068



68.6247, 0.3626, 0.3435



18.0709, 0.3250, 0.3224



11.3722, 0.5836, 0.2988

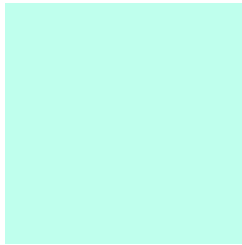


1.1250, 0.5516, 0.2812



# Previews

## White Background



This preview shows how the Yxy color 88.7108, 0.2848, 0.3483 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

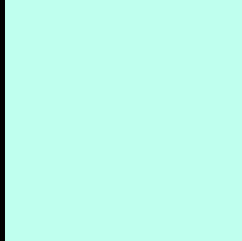
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 88.7108, 0.2848, 0.3483 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

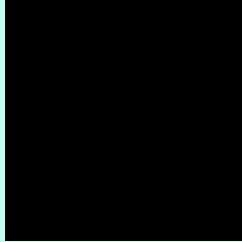
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**Yxy 88.7108, 0.2848, 0.3483**

## **Background**



This preview shows how black text looks on a background with the Yxy color 88.7108, 0.2848, 0.3483.

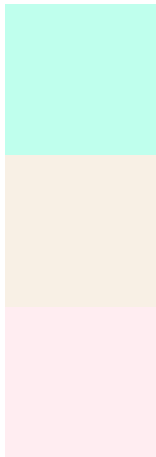


This preview shows how white text looks on a background with the Yxy color 88.7108, 0.2848, 0.3483.

# 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

88.7108, 0.2848, 0.3483

### Protanopia

87.9338, 0.3249, 0.3400

### Deuteranopia

88.1792, 0.3223, 0.3251



## Tritanopia

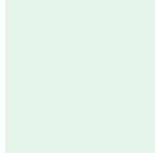
88.0544, 0.2926, 0.3188

# Trichromacy



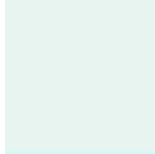
## Original Color

88.7108, 0.2848, 0.3483



## Protanomaly

87.4619, 0.3089, 0.3424



## Deuteranomaly

88.1484, 0.3074, 0.3330



## Tritanomaly

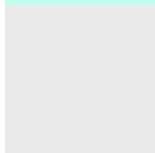
88.3776, 0.2900, 0.3300

# Monochromacy



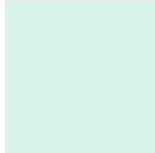
## Original Color

88.7108, 0.2848, 0.3483



## Achromatopsia

82.2786, 0.3127, 0.3290



## Achromatomaly

84.4078, 0.3015, 0.3363

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 88.7108, 0.2848, 0.3483 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(191, 255, 237)` looks like.

```
.text, #text, p{  
    color:rgb(191, 255, 237)  
}
```

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(191, 255, 237) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(191, 255, 237) }
```

## Border

The CSS property to change the border of an element to Yxy 88.7108, 0.2848, 0.3483 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(191, 255, 237) }
```

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

```
.border{ border-color:rgb(191, 255, 237) }
```

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

Here you see how a box with a 4 pixel `rgb(191, 255, 237)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(191, 255, 237); -webkit-box-  
shadow:4px 4px 4px 4px rgb(191, 255, 237);  
box-shadow:4px 4px 4px 4px rgb(191, 255,  
237) }
```



# Background

The CSS property to change the background color of an element to Yxy 88.7108, 0.2848, 0.3483 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(191, 255, 237) }
```

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

```
.background{ background-color: rgb(191,  
255, 237) }
```

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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