

# Converting Colors

$Yxy(78.7423, 0.2503, 0.3747)$

Have a look what the booklet for  
Yxy(78.7423, 0.2503, 0.3747)  
contains.

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# Color

**$Y_{xy}(78.7556, 0.2505, 0.3748)$**

# Conversions

## Conversions Part 1

Format	Color
Hex	5AFFDA
RGB	90, 255, 218
RGB Percent	35%, 100%, 85%
CMY	0.6466, 0.0000, 0.1452
CMYK	0.65, 0.00, 0.15, 0.00
HSL	167°, 100%, 68%
HSV	167°, 65%, 100%
XYZ	52.6368, 78.7556, 78.7346
YIQ	201.4470, -86.4630, -46.4870

# Conversions

## Conversions Part 2

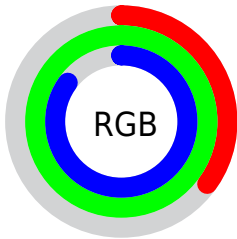
Format	Color
<a href="#">RYB</a>	<a href="#">90, 183, 255</a>
Decimal	<a href="#">5963738</a>
CIELab	<a href="#">91.12, -51.14, 5.18</a>
CIElCh	<a href="#">91, 51.400, 174.214</a>
Yxy	<a href="#">78.7556, 0.2505, 0.3748</a>
Android (android.graphics.Color)	<a href="#">4284153818 (0xFF5AFFDA)</a>
YUV	<a href="#">201.4470, 8.1606, -97.7390</a>
Hunter-Lab	<a href="#">88.7444, -49.4292, 9.5186</a>

# Details

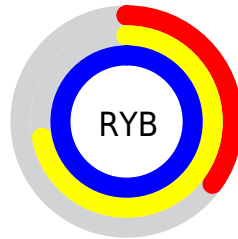
The Yxy color **78.7556, 0.2505, 0.3748** is a light color, and the websafe version is hex **66FFCC**. The color can be described as light muted cyan. A complement of this color would be **30.1300, 0.4767, 0.2947**, and the grayscale version is **58.7106, 0.3127, 0.3290**.

A 20% lighter version of the original color is **85.8079, 0.2588, 0.3288**, and **42.5768, 0.2403, 0.3849** is the 20% darker color. If you saturate the color by 10%, you get **77.3951, 0.2467, 0.3832**, and if you desaturate by 10%, it is **80.5712, 0.2563, 0.3666**.

# Distribution



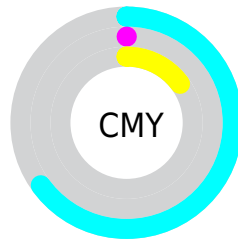
- Red (35%)
- Green (100%)
- Blue (85%)



- Red (35%)
- Yellow (72%)
- Blue (100%)



- Cyan (65%)
- Magenta (0%)
- Yellow (15%)
- Black (0%)




- Cyan (65%)
- Magenta (0%)
- Yellow (15%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 78.7556, 0.2505, 0.3748 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 78.7556, 0.2505, 0.3748 by changing the saturation by 10% instead.



 78.7556, 0.2505,  
0.3748


 78.7556, 0.2505,  
0.3748

490.7292, 0.2789,  
0.3535


 58.6949, 0.2441,  
0.3797

 131.6147, 0.2603,  
0.3674

 42.3676, 0.2363,  
0.3857


 165.1820, 0.2641,  
0.3645

 29.3892, 0.2265,  
0.3933


 204.0201, 0.2674,  
0.3621

 19.3754, 0.2139,  
0.4033

 248.5137, 0.2703,  
0.3599

 11.9419, 0.1971,  
0.4169

299.0469, 0.2728,  
0.3580

 6.7041, 0.1737,  
0.4364


356.0043, 0.2751,


 3.2778, 0.1396,


0.3563


0.4663


419.7703, 0.2771,  
0.3548


 1.2784, 0.0000,  
0.5664

 0.1244, 0.0000,  
1.0000

 78.7556, 0.2505,  
0.3748


 78.7556, 0.2505,  
0.3748


 77.3951, 0.2467,  
0.3832

 80.5712, 0.2563,  
0.3666


 76.4334, 0.2449,  
0.3916

 82.8730, 0.2639,  
0.3587


 75.8157, 0.2450,  
0.3999

 85.7001, 0.2730,  
0.3511

 75.5828, 0.2457,  
0.4043

 89.0849, 0.2834,  
0.3441

 93.0573, 0.2948,  
0.3375

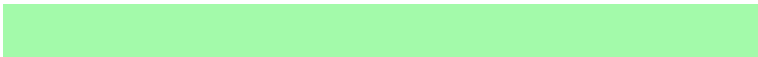
 97.6448, 0.3069,  
0.3316

99.9982, 0.3127,  
0.3290

# Harmonies

## Analogous

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



78.7556, 0.3039, 0.4247



78.7556, 0.2505, 0.3748



78.7556, 0.2158, 0.3130

# Triad

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



78.7556, 0.2505, 0.3748



78.7556, 0.2567, 0.2362



78.7556, 0.4328, 0.3768

# Complementary

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



78.7556, 0.2505, 0.3748



30.1300, 0.4767, 0.2947

# 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.



78.7556, 0.4196, 0.3303



78.7556, 0.2505, 0.3748



78.7556, 0.3124, 0.2536

# Square

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



78.7556, 0.2505, 0.3748



78.7556, 0.2195, 0.2389



78.7556, 0.3737, 0.2869

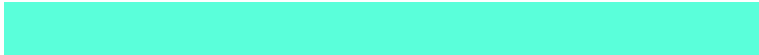


78.7556, 0.4104, 0.4176



# Rectangle

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



78.7556, 0.2505, 0.3748



78.7556, 0.2061, 0.2782



78.7556, 0.3737, 0.2869



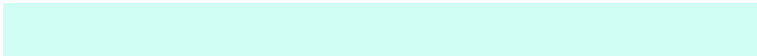
78.7556, 0.4325, 0.3615

# Sweetspot

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



78.7587, 0.2505, 0.3748



91.2595, 0.2898, 0.3403



76.8943, 0.3201, 0.5282



19.2930, 0.2865, 0.3422



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.



78.7587, 0.2505, 0.3748



77.0332, 0.2459, 0.3860



56.0046, 0.2228, 0.2737



20.4075, 0.3010, 0.3344



39.5183, 0.2453, 0.4029



3.8641, 0.2426, 0.3934



# Inverse Universe

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



30.1300, 0.4767, 0.2947



25.0331, 0.5310, 0.2954



39.0760, 0.4906, 0.3713



18.0539, 0.3259, 0.3237



11.2829, 0.6012, 0.3086

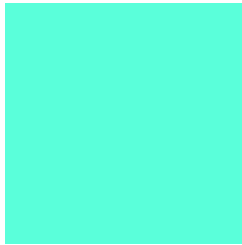


1.1142, 0.5704, 0.2916



# Previews

## White Background



This preview shows how the Yxy color 78.7556, 0.2505, 0.3748 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

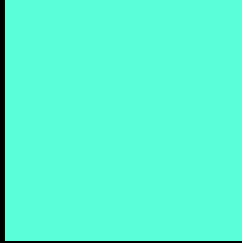
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 78.7556, 0.2505, 0.3748 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

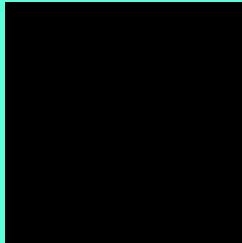
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**Yxy 78.7556, 0.2505, 0.3748**

## **Background**



This preview shows how black text looks on a background with the Yxy color 78.7556, 0.2505, 0.3748.

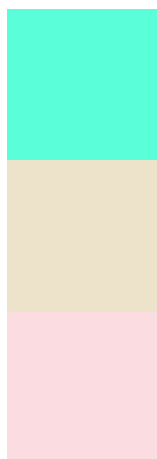


This preview shows how white text looks on a background with the Yxy color 78.7556, 0.2505, 0.3748.

# 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

78.7556, 0.2505, 0.3748

### Protanopia

77.2545, 0.3357, 0.3544

### Deuteranopia

76.9466, 0.3310, 0.3240



## Tritanopia

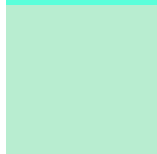
77.9171, 0.2597, 0.3132

# Trichromacy



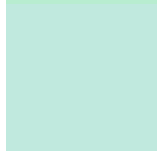
## Original Color

78.7556, 0.2505, 0.3748



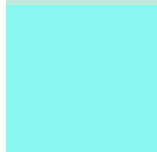
## Protanomaly

75.3128, 0.2958, 0.3626



## Deuteranomaly

74.7582, 0.2925, 0.3414



## Tritanomaly

77.6407, 0.2547, 0.3335

# Monochromacy



## Original Color

78.7556, 0.2505, 0.3748



## Achromatopsia

58.4078, 0.3127, 0.3290



## Achromatomaly

63.7950, 0.2813, 0.3463

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 78.7556, 0.2505, 0.3748 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(90, 255, 218)` looks like.

```
.text, #text, p{  
    color:rgb(90, 255, 218)  
}
```

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(90, 255, 218) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(90, 255, 218) }
```

## Border

The CSS property to change the border of an element to Yxy 78.7556, 0.2505, 0.3748 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(90, 255, 218) }
```

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

```
.border{ border-color:rgb(90, 255, 218) }
```

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

Here you see how a box with a 4 pixel `rgb(90, 255, 218)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(90, 255, 218); -webkit-box-  
shadow:4px 4px 4px 4px rgb(90, 255, 218);  
box-shadow:4px 4px 4px 4px rgb(90, 255,  
218) }
```



# Background

The CSS property to change the background color of an element to Yxy 78.7556, 0.2505, 0.3748 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(90, 255, 218) }
```

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

```
.background{ background-color: rgb(90, 255,  
218) }
```

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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