

# Converting Colors

$Y_{xy}(57.8858, 0.2203, 0.2799)$

Have a look what the booklet for  
Yxy(57.8858, 0.2203, 0.2799)  
contains.

<b>Yxy(57.8276, 0.2202, 0.2798)</b> .....	3
<b><i>Conversions</i></b> .....	4
<b><i>Details</i></b> .....	6
<b><i>Harmonies</i></b> .....	12
<b><i>Previews</i></b> .....	24
<b><i>Color Blindness Simulation</i></b> .....	27
<b><i>CSS Examples</i></b> .....	30

# Color

**Yxy(57.8276, 0.2202, 0.2798)**

# Conversions

## Conversions Part 1

Format	Color
Hex	4BD8FF
RGB	75, 216, 255
RGB Percent	29%, 85%, 100%
CMY	0.7053, 0.1529, 0.0002
CMYK	0.71, 0.15, 0.00, 0.00
HSL	193°, 100%, 65%
HSV	193°, 71%, 100%
XYZ	45.5098, 57.8276, 103.3374
YIQ	178.2870, -96.5550, -17.7630

# Conversions

## Conversions Part 2

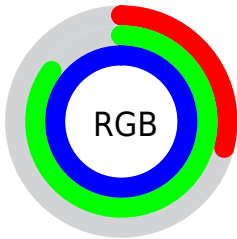
<b>Format</b>	<b>Color</b>
<a href="#">RYB</a>	<a href="#">75, 154, 255</a>
Decimal	<a href="#">4970751</a>
CIELab	<a href="#">80.64, -25.40, -29.92</a>
CIElCh	<a href="#">81, 39.247, 229.671</a>
Yxy	<a href="#">57.8276, 0.2202, 0.2798</a>
Android (android.graphics.Color)	<a href="#">4283160831 (0xFF4BD8FF)</a>
YUV	<a href="#">178.2870, 37.8195, -90.5827</a>
Hunter-Lab	<a href="#">76.0445, -26.2522, -27.3385</a>

# Details

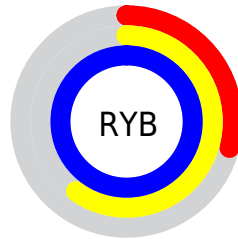
The Yxy color **57.8276, 0.2202, 0.2798** is a light color, and the websafe version is hex **33CCFF**. The color can be described as light washed cyan. A complement of this color would be **33.8204, 0.5218, 0.3637**, and the grayscale version is **44.5347, 0.3127, 0.3290**.

A 20% lighter version of the original color is **84.6693, 0.2536, 0.3288**, and **29.5670, 0.2077, 0.2677** is the 20% darker color. If you saturate the color by 10%, you get **54.2140, 0.2130, 0.2717**, and if you desaturate by 10%, it is **61.9524, 0.2293, 0.2878**.

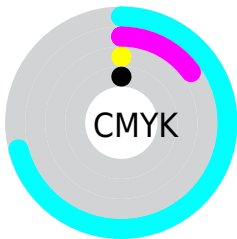
# Distribution



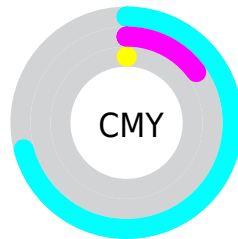
- Red (29%)
- Green (85%)
- Blue (100%)



- Red (29%)
- Yellow (60%)
- Blue (100%)



- Cyan (71%)
- Magenta (15%)
- Yellow (0%)
- Black (0%)




- Cyan (71%)
- Magenta (15%)
- Yellow (0%)

# Brightness & Saturation Gradients

These gradients show how the Yxy color 57.8276, 0.2202, 0.2798 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 57.8276, 0.2202, 0.2798 by changing the saturation by 10% instead.




 57.8276, 0.2202,  
0.2798


 57.8276, 0.2202,  
0.2798


416.5432, 0.2628,  
0.3044

 41.6701, 0.2107,  
0.2738


 101.6718, 0.2348,  
0.2887


 28.8430, 0.1990,  
0.2662


 130.1272, 0.2406,  
0.2920

 18.9621, 0.1846,  
0.2564


 163.4507, 0.2455,  
0.2949

 11.6429, 0.1663,  
0.2432

 202.0267, 0.2499,  
0.2973

 6.5010, 0.1426,  
0.2249

246.2395, 0.2537,  
0.2994

 3.1521, 0.1113,  
0.1982

296.4736, 0.2571,

 1.2116, 0.0653,

0.3013

0.1583

353.1134, 0.2601,  
0.3030

0.0712, 0.0000,  
0.0253

0.0000, 0.0000,  
0.0000

57.8276, 0.2202,  
0.2798

57.8276, 0.2202,  
0.2798

54.2140, 0.2130,  
0.2717

61.9524, 0.2293,  
0.2878

51.0518, 0.2079,  
0.2637

66.6269, 0.2403,  
0.2956

48.3951, 0.2045,  
0.2562

71.8924, 0.2528,  
0.3032

77.7840, 0.2665,  
0.3103

■ 84.3338, 0.2812,  
0.3170

■ 91.5713, 0.2964,  
0.3231

99.5243, 0.3119,  
0.3287

99.9975, 0.3127,  
0.3290

# Harmonies

## Analogous

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



57.8276, 0.2329, 0.3238



57.8276, 0.2202, 0.2798



57.8276, 0.2293, 0.2539

# Triad

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



57.8276, 0.2202, 0.2798



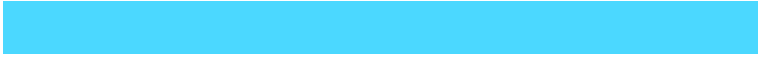
57.8276, 0.3571, 0.2880



57.8276, 0.3632, 0.4209

# Complementary

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



57.8276, 0.2202, 0.2798



33.8204, 0.5218, 0.3637

# 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.



57.8276, 0.4009, 0.4011



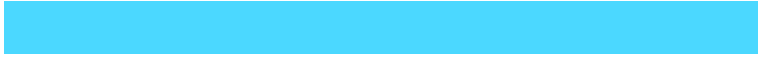
57.8276, 0.2202, 0.2798



57.8276, 0.3987, 0.3251

# Square

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



57.8276, 0.2202, 0.2798



57.8276, 0.3050, 0.2606



57.8276, 0.4148, 0.3654



57.8276, 0.3137, 0.4127



# Rectangle

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



57.8276, 0.2202, 0.2798



57.8276, 0.2470, 0.2479



57.8276, 0.4148, 0.3654



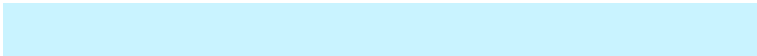
57.8276, 0.3777, 0.4169

# Sweetspot

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



57.8297, 0.2202, 0.2798



84.0390, 0.2805, 0.3167



74.2141, 0.2896, 0.5154



17.5880, 0.2764, 0.3149



0.0000, 0.0000, 0.0000



21.4041, 0.3127, 0.3290

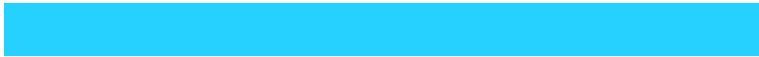


# Same Dimension

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



57.8297, 0.2202, 0.2798



52.7657, 0.2105, 0.2681



23.6634, 0.1899, 0.1580



19.7741, 0.2980, 0.3237



25.5248, 0.2049, 0.2575



2.6431, 0.2074, 0.2666



# Inverse Universe

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



31.2615, 0.3612, 0.2011



27.2181, 0.3738, 0.1908



64.9540, 0.4424, 0.4483



18.2290, 0.3171, 0.3106



13.3047, 0.3848, 0.1894

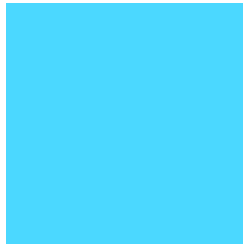


1.3114, 0.3761, 0.1845



# Previews

## White Background



This preview shows how the Yxy color 57.8276, 0.2202, 0.2798 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

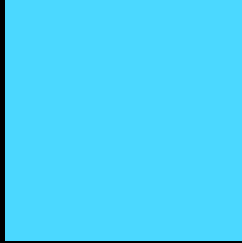
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 57.8276, 0.2202, 0.2798 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 57.8276, 0.2202, 0.2798**

## **Background**



This preview shows how black text looks on a background with the Yxy color 57.8276, 0.2202, 0.2798.



This preview shows how white text looks on a background with the Yxy color 57.8276, 0.2202, 0.2798.

# 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

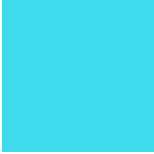
57.8276, 0.2202, 0.2798

### Protanopia

57.1022, 0.2770, 0.2783

### Deuteranopia

57.1390, 0.2665, 0.2624



## **Tritanopia**

57.8342, 0.2251, 0.3051

# Trichromacy



## Original Color

57.8276, 0.2202, 0.2798



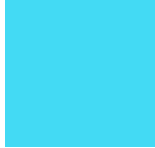
## Protanomaly

56.1355, 0.2498, 0.2780



## Deuteranomaly

56.0429, 0.2441, 0.2668



## Tritanomaly

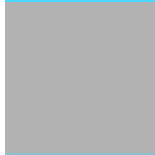
57.8678, 0.2230, 0.2952

# Monochromacy



## Original Color

57.8276, 0.2202, 0.2798



## Achromatopsia

44.5201, 0.3127, 0.3290



## Achromatomaly

47.8182, 0.2656, 0.3100

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 57.8276, 0.2202, 0.2798 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(75, 216, 255)` looks like.

```
.text, #text, p{  
    color:rgb(75, 216, 255)  
}
```

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(75, 216, 255) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(75, 216, 255) }
```

## Border

The CSS property to change the border of an element to Yxy 57.8276, 0.2202, 0.2798 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(75, 216, 255) }
```

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

```
.border{ border-color:rgb(75, 216, 255) }
```

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

Here you see how a box with a 4 pixel rgb(75, 216, 255) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(75, 216, 255); -webkit-box-  
shadow:4px 4px 4px 4px rgb(75, 216, 255);  
box-shadow:4px 4px 4px 4px rgb(75, 216,  
255) }
```



# Background

The CSS property to change the background color of an element to Yxy 57.8276, 0.2202, 0.2798 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(75, 216, 255) }
```

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

```
.background{ background-color: rgb(75, 216,  
255) }
```

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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