

# Converting Colors

$Y_{xy}(57.6674, 0.2174, 0.2802)$

Have a look what the booklet for  
Yxy(57.6674, 0.2174, 0.2802)  
contains.

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# Color

**Yxy(57.8698, 0.2176, 0.2807)**

# Conversions

## Conversions Part 1

Format	Color
Hex	3ED9FF
RGB	62, 217, 255
RGB Percent	24%, 85%, 100%
CMY	0.7561, 0.1491, 0.0000
CMYK	0.76, 0.15, 0.00, 0.00
HSL	192°, 100%, 62%
HSV	192°, 76%, 100%
XYZ	44.8609, 57.8698, 103.4317
YIQ	174.9870, -104.5780, -21.0420

# Conversions

## Conversions Part 2

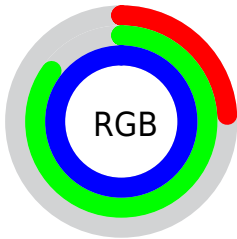
<b>Format</b>	<b>Color</b>
R <sub>YB</sub>	62, 148, 255
Decimal	4119039
CIE <sub>Lab</sub>	80.67, -27.37, -29.94
CIE <sub>LCh</sub>	81, 40.564, 227.567
Yxy	57.8698, 0.2176, 0.2807
Android (android.graphics.Color)	4282309119 (0xFF3ED9FF)
YUV	174.9870, 39.4464, -99.0896
Hunter-Lab	76.0722, -27.8622, -27.3632

# Details

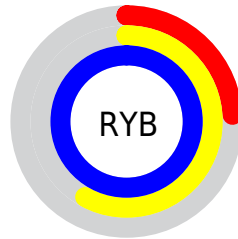
The Yxy color **57.8698, 0.2176, 0.2807** is a light color, and the websafe version is hex **00CCFF**. The color can be described as light washed cyan. A complement of this color would be **30.7653, 0.5460, 0.3597**, and the grayscale version is **42.7242, 0.3127, 0.3290**.

A 20% lighter version of the original color is **83.9742, 0.2505, 0.3288**, and **29.9179, 0.2082, 0.2695** is the 20% darker color. If you saturate the color by 10%, you get **54.6752, 0.2117, 0.2735**, and if you desaturate by 10%, it is **61.5312, 0.2255, 0.2880**.

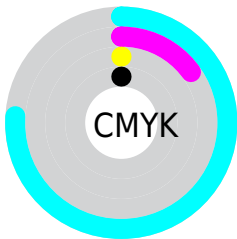
# Distribution



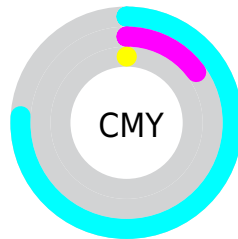
- Red (24%)
- Green (85%)
- Blue (100%)



- Red (24%)
- Yellow (58%)
- Blue (100%)



- Cyan (76%)
- Magenta (15%)
- Yellow (0%)
- Black (0%)




- Cyan (76%)
- Magenta (15%)
- Yellow (0%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 57.8698, 0.2176, 0.2807 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 57.8698, 0.2176, 0.2807 by changing the saturation by 10% instead.





 57.8698, 0.2176,  
0.2807


 57.8698, 0.2176,  
0.2807


416.7006, 0.2613,  
0.3050


 41.7040, 0.2078,  
0.2747

 101.7332, 0.2326,  
0.2895


 28.8696, 0.1960,  
0.2672


 130.1996, 0.2385,  
0.2928

 18.9822, 0.1812,  
0.2574


 163.5350, 0.2436,  
0.2956

 11.6574, 0.1626,  
0.2443

 202.1238, 0.2480,  
0.2980

 6.5108, 0.1385,  
0.2260

246.3504, 0.2520,  
0.3001

 3.1581, 0.1070,  
0.1992

296.5991, 0.2554,

 1.2148, 0.0596,

0.3020

353.2544, 0.2585,  
0.3036

0.1593

0.0738, 0.0000,  
0.0261

0.0000, 0.0000,  
0.0000

57.8698, 0.2176,  
0.2807

57.8698, 0.2176,  
0.2807

54.6752, 0.2117,  
0.2735

61.5312, 0.2255,  
0.2880

51.8859, 0.2078,  
0.2663

65.7060, 0.2352,  
0.2952

50.7511, 0.2064,  
0.2631

70.4365, 0.2467,  
0.3021

75.7594, 0.2597,  
0.3088

■ 81.7080, 0.2738,  
0.3151

■ 88.3130, 0.2886,  
0.3209

■ 95.6028, 0.3040,  
0.3262

■ 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.



57.8698, 0.2322, 0.3272



57.8698, 0.2176, 0.2807



57.8698, 0.2255, 0.2528

# Triad

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



57.8698, 0.2176, 0.2807



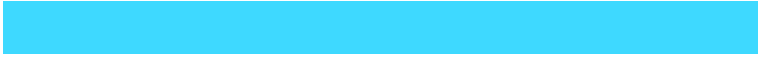
57.8698, 0.3549, 0.2843



57.8698, 0.3679, 0.4233

# Complementary

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



57.8698, 0.2176, 0.2807



30.7653, 0.5460, 0.3597

# 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.



57.8698, 0.4056, 0.4010



57.8698, 0.2176, 0.2807



57.8698, 0.3993, 0.3219

# Square

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



57.8698, 0.2176, 0.2807



57.8698, 0.3010, 0.2572



57.8698, 0.4181, 0.3634



57.8698, 0.3172, 0.4174



# Rectangle

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



57.8698, 0.2176, 0.2807



57.8698, 0.2426, 0.2457



57.8698, 0.4181, 0.3634



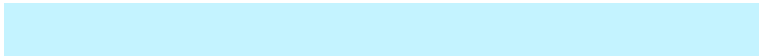
57.8698, 0.3826, 0.4184

# Sweetspot

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



57.8704, 0.2176, 0.2807



83.3657, 0.2776, 0.3166



73.4240, 0.2918, 0.5364



17.3546, 0.2723, 0.3144



0.0000, 0.0000, 0.0000



21.4041, 0.3127, 0.3290

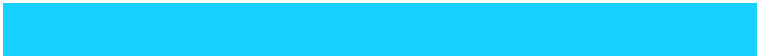


# Same Dimension

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



57.8704, 0.2176, 0.2807



53.1251, 0.2094, 0.2696



22.4798, 0.1846, 0.1528



19.8370, 0.2980, 0.3242



26.7335, 0.2068, 0.2643



2.7508, 0.2090, 0.2725



# Inverse Universe

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



29.7364, 0.3611, 0.1935



26.4866, 0.3729, 0.1860



60.1701, 0.4564, 0.4473



18.2354, 0.3168, 0.3101



13.4267, 0.3782, 0.1857

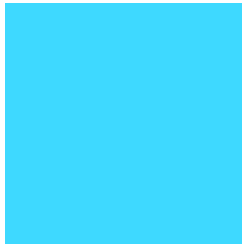


1.3222, 0.3704, 0.1814



# Previews

## White Background



This preview shows how the Yxy color 57.8698, 0.2176, 0.2807 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

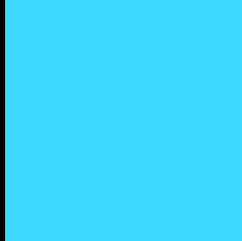
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 57.8698, 0.2176, 0.2807 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

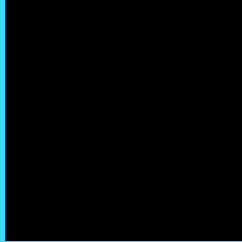
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**Yxy 57.8698, 0.2176, 0.2807**

## **Background**



This preview shows how black text looks on a background with the Yxy color 57.8698, 0.2176, 0.2807.



This preview shows how white text looks on a background with the Yxy color 57.8698, 0.2176, 0.2807.

# 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

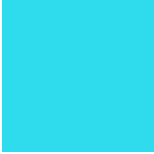
57.8698, 0.2176, 0.2807

### Protanopia

57.1022, 0.2770, 0.2783

### Deuteranopia

57.1390, 0.2665, 0.2624



## **Tritanopia**

57.9638, 0.2221, 0.3050

# Trichromacy



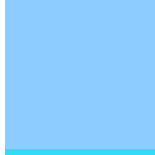
## Original Color

57.8698, 0.2176, 0.2807



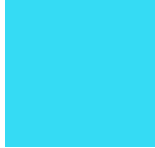
## Protanomaly

55.6792, 0.2471, 0.2776



## Deuteranomaly

56.0685, 0.2417, 0.2677



## Tritanomaly

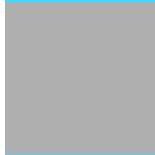
57.9516, 0.2205, 0.2963

# Monochromacy



## Original Color

57.8698, 0.2176, 0.2807



## Achromatopsia

42.8690, 0.3127, 0.3290



## Achromatomaly

46.2549, 0.2620, 0.3096

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 57.8698, 0.2176, 0.2807 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(62, 217, 255)` looks like.

```
.text, #text, p{  
    color:rgb(62, 217, 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(62, 217, 255) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(62, 217, 255) }
```

## Border

The CSS property to change the border of an element to Yxy 57.8698, 0.2176, 0.2807 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(62, 217, 255) }
```

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

```
.border{ border-color:rgb(62, 217, 255) }
```

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

Here you see how a box with a 4 pixel rgb(62, 217, 255) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(62, 217, 255); -webkit-box-  
shadow:4px 4px 4px 4px rgb(62, 217, 255);  
box-shadow:4px 4px 4px 4px rgb(62, 217,  
255) }
```



# Background

The CSS property to change the background color of an element to Yxy 57.8698, 0.2176, 0.2807 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(62, 217, 255) }
```

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

```
.background{ background-color: rgb(62, 217,  
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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