

# Converting Colors

$Y_{xy}(59.2204, 0.2240, 0.3013)$

Have a look what the booklet for  
Yxy(59.2204, 0.2240, 0.3013)  
contains.

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# Color

**Yxy(59.2137, 0.2241, 0.3016)**

# Conversions

## Conversions Part 1

| Format      | Color                         |
|-------------|-------------------------------|
| Hex         | 40DDF2                        |
| RGB         | 64, 221, 242                  |
| RGB Percent | 25%, 87%, 95%                 |
| CMY         | 0.7490, 0.1333, 0.0509        |
| CMYK        | 0.74, 0.09, 0.00, 0.05        |
| HSL         | 187°, 87%, 60%                |
| HSV         | 187°, 74%, 95%                |
| XYZ         | 43.9980, 59.2137, 93.1202     |
| YIQ         | 176.4510, -100.3130, -26.7530 |

# Conversions

## Conversions Part 2

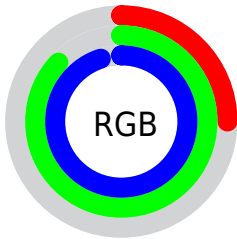
| Format                              | Color                          |
|-------------------------------------|--------------------------------|
| RYB                                 | 64, 147, 242                   |
| Decimal                             | 4251122                        |
| CIELab                              | 81.41, -33.08, -21.90          |
| CIELCh                              | 81, 39.672, 213.498            |
| Yxy                                 | 59.2137, 0.2241,<br>0.3016     |
| Android<br>(android.graphics.Color) | 4282441202<br>(0xFF40DDF2)     |
| YUV                                 | 176.4510, 32.3157,<br>-98.6195 |
| Hunter-Lab                          | 76.9504, -32.6023,<br>-17.8834 |

# Details

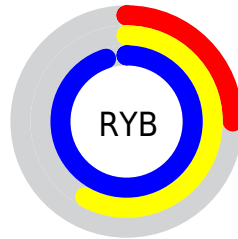
The Yxy color **59.2137, 0.2241, 0.3016** is a light color, and the websafe version is hex **33CCCC**. The color can be described as light washed cyan. A complement of this color would be **25.7465, 0.5497, 0.3469**, and the grayscale version is **43.5320, 0.3127, 0.3290**.

A 20% lighter version of the original color is **83.9742, 0.2505, 0.3288**, and **30.4554, 0.2147, 0.2930** is the 20% darker color. If you saturate the color by 10%, you get **57.0778, 0.2189, 0.2974**, and if you desaturate by 10%, it is **61.7313, 0.2313, 0.3058**.

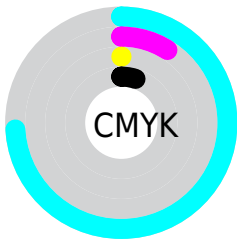
# Distribution



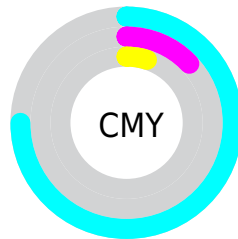
- Red (25%)
- Green (87%)
- Blue (95%)



- Red (25%)
- Yellow (58%)
- Blue (95%)



- Cyan (74%)
- Magenta (9%)
- Yellow (0%)
- Black (5%)




- Cyan (75%)
- Magenta (13%)
- Yellow (5%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 59.2137, 0.2241, 0.3016 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 59.2137, 0.2241, 0.3016 by changing the saturation by 10% instead.





 59.2137, 0.2241,  
0.3016

 59.2137, 0.2241,  
0.3016


421.6934, 0.2650,  
0.3161


 42.7852, 0.2149,  
0.2979


 103.6882, 0.2382,  
0.3070

 29.7166, 0.2036,  
0.2931


 132.5029, 0.2437,  
0.3089

 19.6236, 0.1896,  
0.2866


 166.2152, 0.2485,  
0.3106

 12.1217, 0.1716,  
0.2777

 205.2094, 0.2526,  
0.3120

 6.8266, 0.1481,  
0.2646

249.8700, 0.2563,  
0.3133

 3.3539, 0.1166,  
0.2443

300.5812, 0.2595,

 1.3192, 0.0632,

0.3143

0.2123

357.7275, 0.2624,  
0.3152

■ 0.1560, 0.0000,  
0.0757

■ 0.0000, 0.0000,  
0.0000

■ 59.2137, 0.2241,  
0.3016

■ 59.2137, 0.2241,  
0.3016

■ 57.0778, 0.2189,  
0.2974

■ 61.7313, 0.2313,  
0.3058


■ 55.2676, 0.2155,  
0.2933

■ 64.6646, 0.2403,  
0.3099


■ 54.2272, 0.2141,  
0.2907

■ 68.0508, 0.2512,  
0.3139

■ 71.9212, 0.2636,  
0.3178

 76.3041, 0.2773,  
0.3214

 81.2255, 0.2919,  
0.3248

 86.7096, 0.3072,  
0.3280

 92.2817, 0.3211,  
0.3308

 94.0122, 0.3209,  
0.3336

# Harmonies

## Analogous

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



59.2137, 0.2484, 0.3518



59.2137, 0.2241, 0.3016



59.2137, 0.2215, 0.2652

# Triad

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



59.2137, 0.2241, 0.3016



59.2137, 0.3292, 0.2715



59.2137, 0.3860, 0.4132

# Complementary

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



59.2137, 0.2241, 0.3016



25.7465, 0.5497, 0.3469

# 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.



59.2137, 0.4122, 0.3832



59.2137, 0.2241, 0.3016



59.2137, 0.3788, 0.3041

# Square

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



59.2137, 0.2241, 0.3016



59.2137, 0.2785, 0.2516



59.2137, 0.4102, 0.3437



59.2137, 0.3411, 0.4214

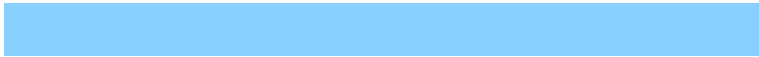


# Rectangle

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



59.2137, 0.2241, 0.3016



59.2137, 0.2318, 0.2519



59.2137, 0.4102, 0.3437



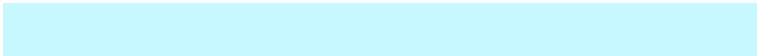
59.2137, 0.3974, 0.4050

# Sweetspot

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



59.2159, 0.2241, 0.3016



86.7173, 0.2794, 0.3219



65.2513, 0.2958, 0.5437



18.2559, 0.2755, 0.3210



0.0000, 0.0000, 0.0000



21.4041, 0.3127, 0.3290

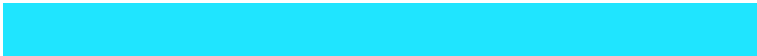


# Same Dimension

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



59.2159, 0.2241, 0.3016



63.2790, 0.2171, 0.2955



24.0679, 0.1918, 0.1747



17.5919, 0.2981, 0.3261



29.2618, 0.2143, 0.2914



2.5235, 0.2158, 0.2968



# Inverse Universe

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



27.7660, 0.3426, 0.1847



27.8496, 0.3490, 0.1742



49.4327, 0.4630, 0.4348



15.9974, 0.3156, 0.3084



12.7473, 0.3531, 0.1719

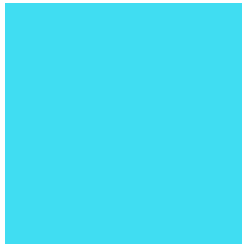


1.0695, 0.3483, 0.1692



# Previews

## White Background



This preview shows how the Yxy color 59.2137, 0.2241, 0.3016 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

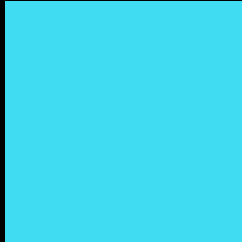
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 59.2137, 0.2241, 0.3016 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

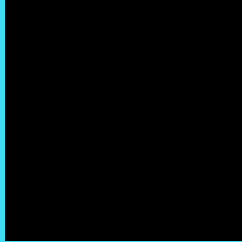
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**Yxy 59.2137, 0.2241, 0.3016**

## **Background**



This preview shows how black text looks on a background with the Yxy color 59.2137, 0.2241, 0.3016.

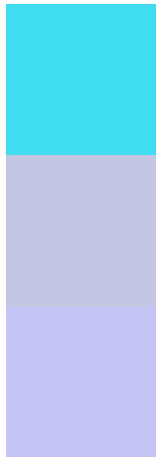


This preview shows how white text looks on a background with the Yxy color 59.2137, 0.2241, 0.3016.

# 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

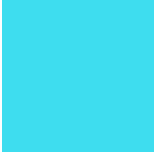
59.2137, 0.2241, 0.3016

### Protanopia

58.1287, 0.2910, 0.2965

### Deuteranopia

57.9310, 0.2780, 0.2716



## **Tritanopia**

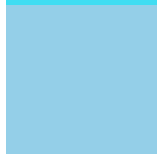
58.9690, 0.2248, 0.3053

# Trichromacy



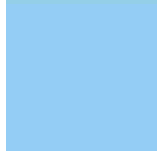
## Original Color

59.2137, 0.2241, 0.3016



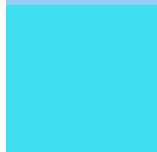
## Protanomaly

56.7477, 0.2576, 0.2978



## Deuteranomaly

56.5511, 0.2505, 0.2804



## Tritanomaly

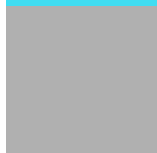
59.0609, 0.2246, 0.3041

# Monochromacy



## Original Color

59.2137, 0.2241, 0.3016



## Achromatopsia

43.4154, 0.3127, 0.3290



## Achromatomaly

47.0203, 0.2654, 0.3178

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 59.2137, 0.2241, 0.3016 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(64, 221, 242)` looks like.

```
.text, #text, p{  
    color:rgb(64, 221, 242)  
}
```

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(64, 221, 242) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(64, 221, 242) }
```

## Border

The CSS property to change the border of an element to Yxy 59.2137, 0.2241, 0.3016 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(64, 221, 242) }
```

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

```
.border{ border-color:rgb(64, 221, 242) }
```

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

Here you see how a box with a 4 pixel rgb(64, 221, 242) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(64, 221, 242); -webkit-box-  
shadow:4px 4px 4px 4px rgb(64, 221, 242);  
box-shadow:4px 4px 4px 4px rgb(64, 221,  
242) }
```



# Background

The CSS property to change the background color of an element to Yxy 59.2137, 0.2241, 0.3016 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(64, 221, 242) }
```

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

```
.background{ background-color: rgb(64, 221,  
242) }
```

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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