

# Converting Colors

$Y_{xy}(54.5609, 0.2167, 0.2916)$

Have a look what the booklet for  
Yxy(54.5609, 0.2167, 0.2916)  
contains.

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# **Color**

**Yxy(54.2967, 0.2167, 0.2916)**

# Conversions

## Conversions Part 1

Format	Color
Hex	23D5F1
RGB	35, 213, 241
RGB Percent	14%, 84%, 95%
CMY	0.8645, 0.1646, 0.0550
CMYK	0.86, 0.12, 0.00, 0.05
HSL	188°, 88%, 54%
HSV	188°, 86%, 95%
XYZ	40.3501, 54.2967, 91.5559
YIQ	162.9700, -115.0760, -29.0280

# Conversions

## Conversions Part 2

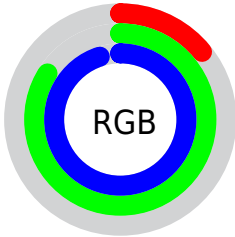
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	35, 130, 241
Decimal	2348529
CIE <sub>Lab</sub>	78.63, -32.12, -25.61
CIE <sub>LCh</sub>	79, 41.082, 218.564
Yxy	54.2967, 0.2167, 0.2916
Android (android.graphics.Color)	4280538609 (0xFF23D5F1)
YUV	162.9700, 38.4688, -112.2297
Hunter-Lab	73.6863, -31.2056, -22.0879

# Details

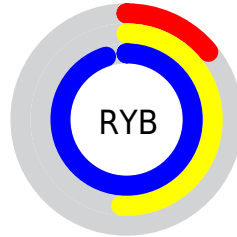
The Yxy color **54.2967, 0.2167, 0.2916** is a light color, and the websafe version is hex **00CCFF**. The color can be described as light washed cyan. A complement of this color would be **22.3167, 0.5943, 0.3461**, and the grayscale version is **36.4050, 0.3127, 0.3290**.

A 20% lighter version of the original color is **82.8049, 0.2450, 0.3288**, and **27.9565, 0.2117, 0.2820** is the 20% darker color. If you saturate the color by 10%, you get **52.3910, 0.2135, 0.2868**, and if you desaturate by 10%, it is **56.5269, 0.2217, 0.2964**.

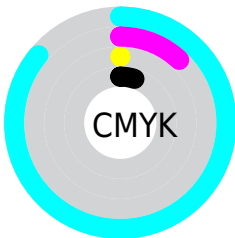
# Distribution



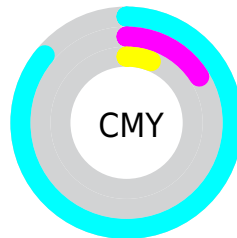
- Red (14%)
- Green (84%)
- Blue (95%)



- Red (14%)
- Yellow (51%)
- Blue (95%)



- Cyan (86%)
- Magenta (12%)
- Yellow (0%)
- Black (5%)




- Cyan (86%)
- Magenta (16%)
- Yellow (6%)

# Brightness & Saturation Gradients

These gradients show how the Yxy color 54.2967, 0.2167, 0.2916 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 54.2967, 0.2167, 0.2916 by changing the saturation by 10% instead.





 54.2967, 0.2167,  
0.2916


 54.2967, 0.2167,  
0.2916


403.2404, 0.2614,  
0.3112


 38.8389, 0.2066,  
0.2866


 96.5097, 0.2322,  
0.2988


 26.6344, 0.1942,  
0.2801

 124.0338, 0.2382,  
0.3015


 17.2989, 0.1787,  
0.2715


 156.3487, 0.2434,  
0.3038

 10.4478, 0.1589,  
0.2596

 193.8389, 0.2479,  
0.3057

 5.6969, 0.1331,  
0.2423

 236.8888, 0.2519,  
0.3074

 2.6616, 0.0991,  
0.2157

285.8828, 0.2554,

 0.9578, 0.0231,

0.3088

0.1781

341.2052, 0.2586,  
0.3101

■ 0.0000, 0.0000,  
0.0000

■ 54.2967, 0.2167,  
0.2916

■ 54.2967, 0.2167,  
0.2916

■ 52.3910, 0.2135,  
0.2868

■ 56.5269, 0.2217,  
0.2964

■ 51.6286, 0.2125,  
0.2848

■ 59.1273, 0.2287,  
0.3013

■ 62.1413, 0.2377,  
0.3060

■ 65.6048, 0.2484,  
0.3107

■ 69.5494, 0.2606,  
0.3152

■ 74.0038, 0.2742,  
0.3194

■ 78.9942, 0.2887,  
0.3234

■ 84.5450, 0.3039,  
0.3271

■ 90.6791, 0.3195,  
0.3304

# Harmonies

## Analogous

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



54.2967, 0.2384, 0.3437



54.2967, 0.2167, 0.2916



54.2967, 0.2179, 0.2566

# Triad

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



54.2967, 0.2167, 0.2916



54.2967, 0.3396, 0.2731



54.2967, 0.3833, 0.4220

# Complementary

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



54.2967, 0.2167, 0.2916



22.3167, 0.5943, 0.3461

# 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.



54.2967, 0.4157, 0.3925



54.2967, 0.2167, 0.2916



54.2967, 0.3907, 0.3092

# Square

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



54.2967, 0.2167, 0.2916



54.2967, 0.2847, 0.2495



54.2967, 0.4193, 0.3514



54.2967, 0.3335, 0.4262

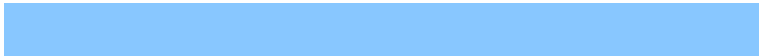


# Rectangle

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



54.2967, 0.2167, 0.2916



54.2967, 0.2313, 0.2452



54.2967, 0.4193, 0.3514



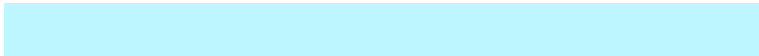
54.2967, 0.3967, 0.4143

# Sweetspot

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



54.2987, 0.2167, 0.2916



83.9246, 0.2736, 0.3193



63.5968, 0.2954, 0.5694



17.5740, 0.2688, 0.3178



0.0000, 0.0000, 0.0000



21.4041, 0.3127, 0.3290

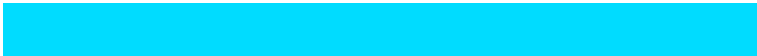


# Same Dimension

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



54.2987, 0.2167, 0.2916



58.6502, 0.2124, 0.2847



17.9031, 0.1765, 0.1426



17.5425, 0.2981, 0.3257



28.1488, 0.2127, 0.2856



2.4417, 0.2144, 0.2918



# Inverse Universe

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



24.6782, 0.3523, 0.1779



26.4519, 0.3592, 0.1752



45.8305, 0.4830, 0.4421



15.9924, 0.3159, 0.3088



12.6350, 0.3583, 0.1748

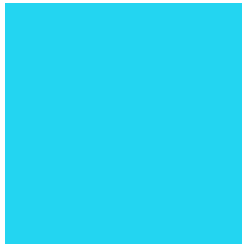


1.0612, 0.3527, 0.1716



# Previews

## White Background



This preview shows how the Yxy color 54.2967, 0.2167, 0.2916 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

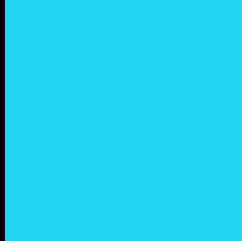
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 54.2967, 0.2167, 0.2916 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

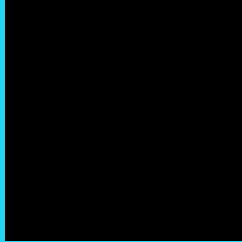
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**Yxy 54.2967, 0.2167, 0.2916**

## **Background**



This preview shows how black text looks on a background with the Yxy color 54.2967, 0.2167, 0.2916.



This preview shows how white text looks on a background with the Yxy color 54.2967, 0.2167, 0.2916.

# 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

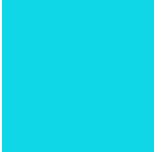
54.2967, 0.2167, 0.2916

### Protanopia

53.1917, 0.2840, 0.2871

### Deuteranopia

53.2394, 0.2697, 0.2630



## Tritanopia

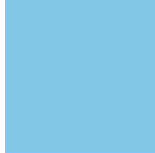
54.5286, 0.2190, 0.3057

# Trichromacy



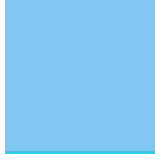
## Original Color

54.2967, 0.2167, 0.2916



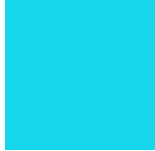
## Protanomaly

51.4417, 0.2472, 0.2876



## Deuteranomaly

51.6656, 0.2400, 0.2711



## Tritanomaly

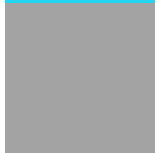
54.2619, 0.2180, 0.3004

# Monochromacy



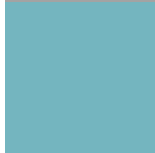
## Original Color

54.2967, 0.2167, 0.2916



## Achromatopsia

36.6253, 0.3127, 0.3290



## Achromatomaly

40.5223, 0.2568, 0.3141

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 54.2967, 0.2167, 0.2916 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(35, 213, 241)` looks like.

```
.text, #text, p{  
  color:rgb(35, 213, 241)  
}
```

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(35, 213, 241) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(35, 213, 241) }
```

## Border

The CSS property to change the border of an element to Yxy 54.2967, 0.2167, 0.2916 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(35, 213, 241) }
```

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

```
.border{ border-color:rgb(35, 213, 241) }
```

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

Here you see how a box with a 4 pixel `rgb(35, 213, 241)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(35, 213, 241); -webkit-box-  
shadow:4px 4px 4px 4px rgb(35, 213, 241);  
box-shadow:4px 4px 4px 4px rgb(35, 213,  
241) }
```



# Background

The CSS property to change the background color of an element to Yxy 54.2967, 0.2167, 0.2916 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(35, 213, 241) }
```

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

```
.background{ background-color: rgb(35, 213,  
241) }
```

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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