

# Converting Colors

$Y_{xy}(44.4095, 0.2075, 0.2585)$

Have a look what the booklet for  
Yxy(44.4095, 0.2075, 0.2585)  
contains.

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# Color

**Yxy(44.4937, 0.2077, 0.2592)**

# Conversions

## Conversions Part 1

Format	Color
Hex	21C0F3
RGB	33, 192, 243
RGB Percent	13%, 75%, 95%
CMY	0.8709, 0.2470, 0.0470
CMYK	0.86, 0.21, 0.00, 0.05
HSL	195°, 90%, 54%
HSV	195°, 86%, 95%
XYZ	35.6533, 44.4937, 91.5108
YIQ	150.2730, -111.1350, -17.8470

# Conversions

## Conversions Part 2

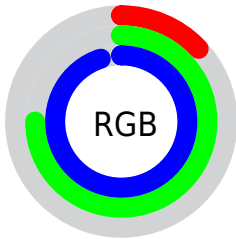
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	33, 123, 243
Decimal	2212083
CIE <sub>Lab</sub>	72.56, -21.11, -36.06
CIE <sub>LCh</sub>	73, 41.784, 239.648
Yxy	44.4937, 0.2077, 0.2592
Android (android.graphics.Color)	4280402163 (0xFF21C0F3)
YUV	150.2730, 45.7144, -102.8484
Hunter-Lab	66.7036, -21.3224, -34.6475

# Details

The Yxy color **44.4937, 0.2077, 0.2592** 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 **25.4963, 0.5762, 0.3636**, and the grayscale version is **30.4506, 0.3127, 0.3290**.

A 20% lighter version of the original color is **78.8933, 0.2429, 0.3218**, and **21.7648, 0.2005, 0.2416** is the 20% darker color. If you saturate the color by 10%, you get **41.6894, 0.2033, 0.2502**, and if you desaturate by 10%, it is **47.6930, 0.2141, 0.2683**.

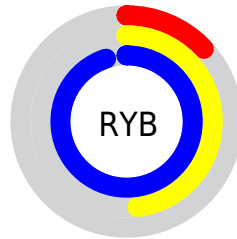
# Distribution



Red (13%)

Green (75%)

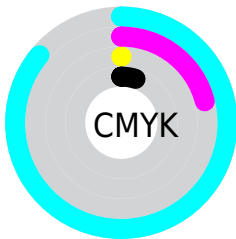
Blue (95%)



Red (13%)

Yellow (48%)

Blue (95%)

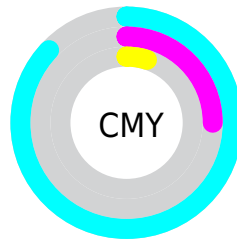


Cyan (86%)

Magenta (21%)

Yellow (0%)

Black (5%)



Cyan (87%)

Magenta (25%)

Yellow (5%)

# Brightness & Saturation Gradients

These gradients show how the Yxy color 44.4937, 0.2077, 0.2592 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 44.4937, 0.2077, 0.2592 by changing the saturation by 10% instead.



44.4937, 0.2077,  
0.2592

44.4937, 0.2077,  
0.2592

364.7191, 0.2577,  
0.2948

31.0588, 0.1962,  
0.2504

81.9601, 0.2252,  
0.2721

20.6436, 0.1820,  
0.2392

106.7605, 0.2320,  
0.2770

12.8638, 0.1642,  
0.2246

136.1181, 0.2378,  
0.2811

7.3348, 0.1416,  
0.2049

170.4174, 0.2429,  
0.2846

3.6724, 0.1124,  
0.1777

210.0427, 0.2473,  
0.2877

1.4920, 0.0750,  
0.1389

255.3785, 0.2512,

0.2831, 0.0000,

0.2904

0.0619

306.8092, 0.2546,  
0.2927

0.0000, 0.0000,  
0.0000

44.4937, 0.2077,  
0.2592

44.4937, 0.2077,  
0.2592

41.6894, 0.2033,  
0.2502

47.6930, 0.2141,  
0.2683

40.7571, 0.2020,  
0.2470

51.3376, 0.2225,  
0.2774

55.4731, 0.2327,  
0.2864

60.1375, 0.2447,  
0.2951

65.3642, 0.2580,  
0.3034

■ 71.1837, 0.2723,  
0.3112

■ 77.6238, 0.2873,  
0.3184

■ 84.7104, 0.3027,  
0.3251

■ 92.4678, 0.3182,  
0.3311

# Harmonies

## Analogous

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



44.4937, 0.2135, 0.3032



44.4937, 0.2077, 0.2592



44.4937, 0.2259, 0.2382

# Triad

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



44.4937, 0.2077, 0.2592



44.4937, 0.3826, 0.2948



44.4937, 0.3518, 0.4374

# Complementary

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



44.4937, 0.2077, 0.2592



25.4963, 0.5762, 0.3636

# 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.



44.4937, 0.4019, 0.4220



44.4937, 0.2077, 0.2592



44.4937, 0.4229, 0.3387

# Square

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



44.4937, 0.2077, 0.2592



44.4937, 0.3235, 0.2596



44.4937, 0.4293, 0.3843



44.4937, 0.2938, 0.4162



# Rectangle

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



44.4937, 0.2077, 0.2592



44.4937, 0.2507, 0.2367



44.4937, 0.4293, 0.3843



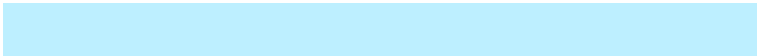
44.4937, 0.3701, 0.4358

# Sweetspot

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



44.4952, 0.2077, 0.2592



79.6768, 0.2729, 0.3115



65.0382, 0.2899, 0.5514



16.5531, 0.2678, 0.3089



0.0000, 0.0000, 0.0000



21.4041, 0.3127, 0.3290

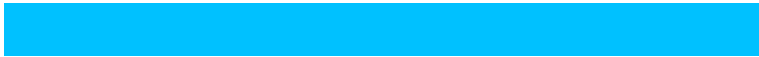


# Same Dimension

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



44.4952, 0.2077, 0.2592



45.3992, 0.2019, 0.2468



13.9302, 0.1688, 0.1154



18.0362, 0.2980, 0.3231



22.5880, 0.2024, 0.2485



2.1442, 0.2055, 0.2597



# Inverse Universe

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



23.9463, 0.3823, 0.1947



25.1142, 0.3954, 0.1952



54.7018, 0.4630, 0.4604



16.6955, 0.3175, 0.3113



12.3796, 0.3938, 0.1943

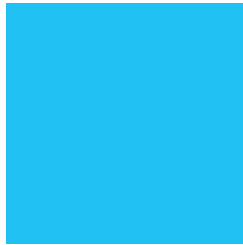


1.1041, 0.3827, 0.1882



# Previews

## White Background



This preview shows how the Yxy color 44.4937, 0.2077, 0.2592 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

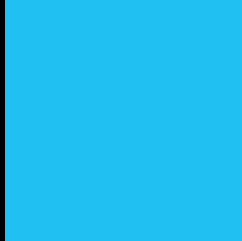
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 44.4937, 0.2077, 0.2592 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 44.4937, 0.2077, 0.2592**

## **Background**



This preview shows how black text looks on a background with the Yxy color 44.4937, 0.2077, 0.2592.



This preview shows how white text looks on a background with the Yxy color 44.4937, 0.2077, 0.2592.

# 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

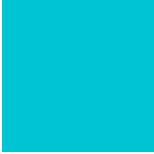
44.4937, 0.2077, 0.2592

### Protanopia

44.0545, 0.2625, 0.2598

### Deuteranopia

44.0507, 0.2459, 0.2404



## Tritanopia

44.2333, 0.2181, 0.3050

# Trichromacy



## Original Color

44.4937, 0.2077, 0.2592



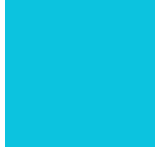
## Protanomaly

42.6907, 0.2323, 0.2570



## Deuteranomaly

42.9528, 0.2245, 0.2443



## Tritanomaly

44.4361, 0.2141, 0.2884

# Monochromacy



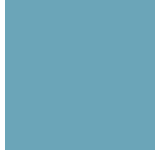
## Original Color

44.4937, 0.2077, 0.2592



## Achromatopsia

30.4987, 0.3127, 0.3290



## Achromatomaly

33.4968, 0.2515, 0.2991

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 44.4937, 0.2077, 0.2592 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(33, 192, 243)` looks like.

```
.text, #text, p{  
    color:rgb(33, 192, 243)  
}
```

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(33, 192, 243) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(33, 192, 243) }
```

## Border

The CSS property to change the border of an element to Yxy 44.4937, 0.2077, 0.2592 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(33, 192, 243) }
```

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

```
.border{ border-color:rgb(33, 192, 243) }
```

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

Here you see how a box with a 4 pixel `rgb(33, 192, 243)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(33, 192, 243); -webkit-box-  
shadow:4px 4px 4px 4px rgb(33, 192, 243);  
box-shadow:4px 4px 4px 4px rgb(33, 192,  
243) }
```



# Background

The CSS property to change the background color of an element to Yxy 44.4937, 0.2077, 0.2592 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(33, 192, 243) }
```

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

```
.background{ background-color: rgb(33, 192,  
243) }
```

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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