

# Converting Colors

$Y_{xy}(48.5000, 0.2202, 0.2813)$

Have a look what the booklet for  
Yxy(48.5000, 0.2202, 0.2813)  
contains.

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# Color

**Yxy(48.5000, 0.2202, 0.2813)**

# Conversions

## Conversions Part 1

Format	Color
Hex	43C8EB
RGB	67, 200, 235
RGB Percent	26%, 78%, 92%
CMY	0.7370, 0.2157, 0.0785
CMYK	0.71, 0.15, 0.00, 0.08
HSL	193°, 81%, 59%
HSV	193°, 71%, 92%
XYZ	37.9655, 48.5000, 85.9483
YIQ	164.2230, -90.5030, -17.3110

# Conversions

## Conversions Part 2

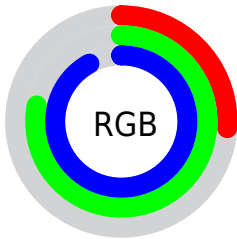
Format	Color
R <sub>Y</sub> B	67, 141, 235
Decimal	4442347
CIE Lab	75.14, -24.61, -27.70
CIE LCh	75, 37.054, 228.381
Yxy	48.5000, 0.2202, 0.2813
Android (android.graphics.Color)	4282632427 (0xFF43C8EB)
YUV	164.2230, 34.8931, -85.2646
Hunter-Lab	69.6419, -24.5636, -24.4231

# Details

The Yxy color **48.5000, 0.2202, 0.2813** is a light color, and the websafe version is hex **33CCFF**. The color can be described as light muted cyan. A complement of this color would be **27.5787, 0.5257, 0.3622**, and the grayscale version is **37.1075, 0.3127, 0.3290**.

A 20% lighter version of the original color is **83.9742, 0.2505, 0.3288**, and **23.8124, 0.2081, 0.2691** is the 20% darker color. If you saturate the color by 10%, you get **45.6004, 0.2133, 0.2736**, and if you desaturate by 10%, it is **51.8125, 0.2291, 0.2890**.

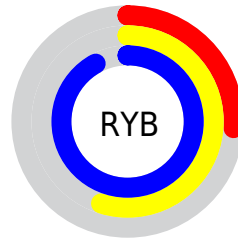
# Distribution



Red (26%)

Green (78%)

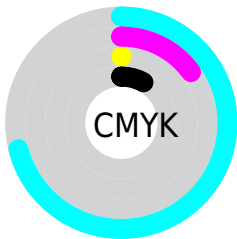
Blue (92%)



Red (26%)

Yellow (55%)

Blue (92%)

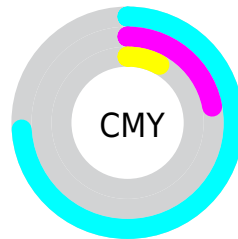


Cyan (71%)

Magenta (15%)

Yellow (0%)

Black (8%)



Cyan (74%)

Magenta (22%)


Yellow (8%)

# Brightness & Saturation Gradients

These gradients show how the Yxy color 48.5000, 0.2202, 0.2813 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 48.5000, 0.2202, 0.2813 by changing the saturation by 10% instead.





 48.5000, 0.2202,  
0.2813


 48.5000, 0.2202,  
0.2813


380.7706, 0.2642,  
0.3060


 34.2230, 0.2100,  
0.2750


 87.9484, 0.2356,  
0.2904


 23.0650, 0.1975,  
0.2670


 113.8886, 0.2415,  
0.2937

 14.6415, 0.1816,  
0.2564


 144.4853, 0.2467,  
0.2966

 8.5682, 0.1610,  
0.2417

 180.1229, 0.2511,  
0.2990

 4.4606, 0.1339,  
0.2205

221.1859, 0.2550,  
0.3011

 1.9344, 0.0975,  
0.1883

268.0586, 0.2584,

 0.5689, 0.0000,

0.3029

0.1367

321.1253, 0.2614,  
0.3045

■ 0.0000, 0.0000,  
0.0000

■ 48.5000, 0.2202,  
0.2813

■ 48.5000, 0.2202,  
0.2813

■ 45.6004, 0.2133,  
0.2736

■ 51.8125, 0.2291,  
0.2890

■ 43.0641, 0.2084,  
0.2659

■ 55.5697, 0.2397,  
0.2964

■ 41.1271, 0.2054,  
0.2595

■ 59.8056, 0.2520,  
0.3037

■ 64.5492, 0.2655,  
0.3105

■ 69.8268, 0.2800,  
0.3169

■ 75.6628, 0.2950,  
0.3229

■ 82.0799, 0.3105,  
0.3283

■ 89.0896, 0.3259,  
0.3331

■ 91.9981, 0.3254,  
0.3379

# Harmonies

## Analogous

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



48.5000, 0.2339, 0.3260



48.5000, 0.2202, 0.2813



48.5000, 0.2284, 0.2546

# Triad

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



48.5000, 0.2202, 0.2813



48.5000, 0.3550, 0.2865



48.5000, 0.3652, 0.4206

# Complementary

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



48.5000, 0.2202, 0.2813



27.5787, 0.5257, 0.3622

# 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.



48.5000, 0.4021, 0.3999



48.5000, 0.2202, 0.2813



48.5000, 0.3975, 0.3233

# Square

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



48.5000, 0.2202, 0.2813



48.5000, 0.3028, 0.2597



48.5000, 0.4149, 0.3638



48.5000, 0.3159, 0.4138



# Rectangle

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



48.5000, 0.2202, 0.2813



48.5000, 0.2455, 0.2480



48.5000, 0.4149, 0.3638



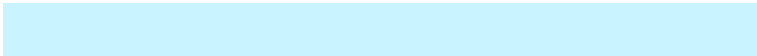
48.5000, 0.3795, 0.4162

# Sweetspot

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



48.5018, 0.2202, 0.2813



84.3067, 0.2805, 0.3172



61.5384, 0.2907, 0.5207



17.6523, 0.2764, 0.3154



0.0000, 0.0000, 0.0000



21.4041, 0.3127, 0.3290

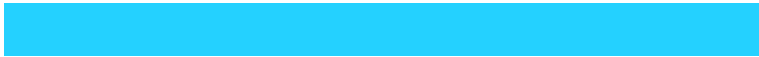


# Same Dimension

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



48.5018, 0.2202, 0.2813



53.3419, 0.2106, 0.2698



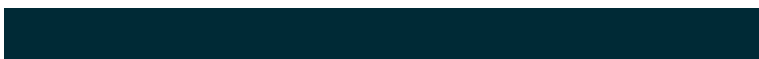
20.0182, 0.1899, 0.1602



16.5580, 0.2981, 0.3240



23.0817, 0.2058, 0.2607



1.9461, 0.2087, 0.2712



# Inverse Universe

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



25.8520, 0.3600, 0.1993



27.1224, 0.3723, 0.1890



52.6014, 0.4458, 0.4464



15.2569, 0.3170, 0.3105



11.8229, 0.3817, 0.1877

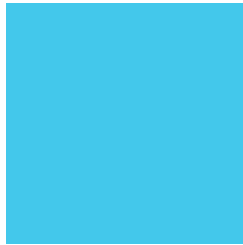


0.9419, 0.3717, 0.1821



# Previews

## White Background



This preview shows how the Yxy color 48.5000, 0.2202, 0.2813 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

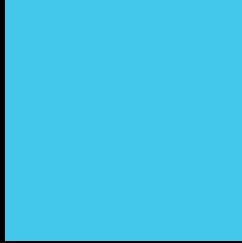
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 48.5000, 0.2202, 0.2813 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 48.5000, 0.2202, 0.2813**

## **Background**



This preview shows how black text looks on a background with the Yxy color 48.5000, 0.2202, 0.2813.

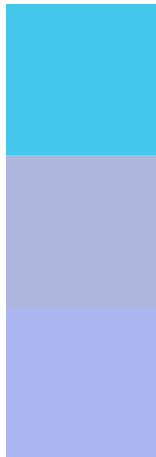


This preview shows how white text looks on a background with the Yxy color 48.5000, 0.2202, 0.2813.

# 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

48.5000, 0.2202, 0.2813

### Protanopia

47.8438, 0.2779, 0.2793

### Deuteranopia

47.9377, 0.2641, 0.2589



## Tritanopia

48.6671, 0.2250, 0.3061

# Trichromacy



**Original Color**

48.5000, 0.2202, 0.2813

**Protanomaly**

47.1755, 0.2499, 0.2792

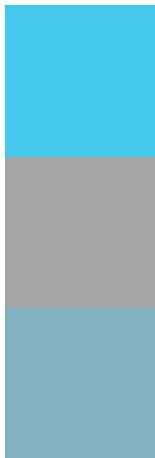
**Deuteranomaly**

47.1260, 0.2422, 0.2649

**Tritanomaly**

48.6380, 0.2231, 0.2967

# Monochromacy



**Original Color**

48.5000, 0.2202, 0.2813

**Achromatopsia**

37.1238, 0.3127, 0.3290

**Achromatomaly**

39.8291, 0.2651, 0.3099

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 48.5000, 0.2202, 0.2813 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(67, 200, 235)` looks like.

```
.text, #text, p{  
    color:rgb(67, 200, 235)  
}
```

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(67, 200, 235) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(67, 200, 235) }
```

## Border

The CSS property to change the border of an element to Yxy 48.5000, 0.2202, 0.2813 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(67, 200, 235) }
```

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

```
.border{ border-color:rgb(67, 200, 235) }
```

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

Here you see how a box with a 4 pixel rgb(67, 200, 235) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(67, 200, 235); -webkit-box-  
shadow:4px 4px 4px 4px rgb(67, 200, 235);  
box-shadow:4px 4px 4px 4px rgb(67, 200,  
235) }
```



# Background

The CSS property to change the background color of an element to Yxy 48.5000, 0.2202, 0.2813 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(67, 200, 235) }
```

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

```
.background{ background-color: rgb(67, 200,  
235) }
```

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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