

# Converting Colors

$Y_{xy}(44.5829, 0.2141, 0.2909)$

Have a look what the booklet for  
Yxy(44.5829, 0.2141, 0.2909)  
contains.

<b>Yxy(44.7538, 0.2142, 0.2912)</b> .....	3
<b><i>Conversions</i></b> .....	4
<b><i>Details</i></b> .....	6
<b><i>Harmonies</i></b> .....	12
<b><i>Previews</i></b> .....	24
<b><i>Color Blindness Simulation</i></b> .....	27
<b><i>CSS Examples</i></b> .....	30

# Color

**Yxy(44.7538, 0.2142, 0.2912)**

# Conversions

## Conversions Part 1

Format	Color
Hex	00C4DE
RGB	0, 196, 222
RGB Percent	0%, 77%, 87%
CMY	1.0000, 0.2313, 0.1294
CMYK	1.00, 0.12, 0.00, 0.13
HSL	187°, 100%, 44%
HSV	187°, 100%, 87%
XYZ	32.9199, 44.7538, 76.0138
YIQ	140.3600, -125.1620, -33.4660

# Conversions

## Conversions Part 2

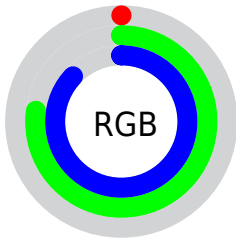
<b>Format</b>	<b>Color</b>
<b>RYB</b>	0, 104, 222
Decimal	50398
CIELab	72.73, -31.32, -24.44
CIELCh	73, 39.726, 217.968
Yxy	44.7538, 0.2142, 0.2912
Android (android.graphics.Color)	4278240478 (0xFF00C4DE)
YUV	140.3600, 40.2485, -123.0957
Hunter-Lab	66.8983, -29.2342, -20.5401

# Details

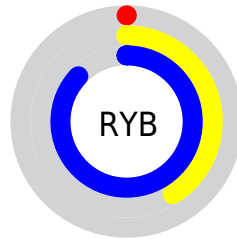
The Yxy color **44.7538, 0.2142, 0.2912** is a dark color, and the websafe version is hex **00CCFF**. The color can be described as middle washed cyan. A complement of this color would be **16.2691, 0.6314, 0.3369**, and the grayscale version is **26.2524, 0.3127, 0.3290**.

A 20% lighter version of the original color is **80.6587, 0.2403, 0.3265**, and **22.1360, 0.2114, 0.2811** is the 20% darker color. If you saturate the color by 10%, you get **44.7588, 0.2142, 0.2912**, and if you desaturate by 10%, it is **46.1147, 0.2167, 0.2952**.

# Distribution



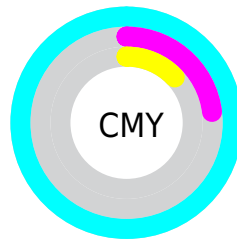
- Red (0%)
- Green (77%)
- Blue (87%)



- Red (0%)
- Yellow (41%)
- Blue (87%)



- Cyan (100%)
- Magenta (12%)
- Yellow (0%)
- Black (13%)




- Cyan (100%)
- Magenta (23%)
- Yellow (13%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 44.7538, 0.2142, 0.2912 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 44.7538, 0.2142, 0.2912 by changing the saturation by 10% instead.





 44.7538, 0.2142,  
0.2912

 44.7538, 0.2142,  
0.2912


365.7755, 0.2616,  
0.3117

 31.2635, 0.2031,  
0.2857


 82.3508, 0.2309,  
0.2990

 20.7996, 0.1893,  
0.2785


 107.2264, 0.2373,  
0.3018

 12.9776, 0.1718,  
0.2686


 136.6659, 0.2428,  
0.3041

 7.4131, 0.1491,  
0.2546

 171.0537, 0.2476,  
0.3061

 3.7218, 0.1189,  
0.2334

 210.7741, 0.2518,  
0.3078

 1.5192, 0.0756,  
0.1998

256.2116, 0.2554,

 0.3022, 0.0000,

0.3093

0.1084

307.7506, 0.2587,  
0.3106

■ 0.0000, 0.0000,  
0.0000

■ 44.7538, 0.2142,  
0.2912

■ 44.7538, 0.2142,  
0.2912

■ 44.7588, 0.2142,  
0.2912

■ 46.1147, 0.2167,  
0.2952

■ 47.6897, 0.2208,  
0.2993

■ 49.5485, 0.2267,  
0.3034

■ 51.7279, 0.2346,  
0.3075

■ 54.2589, 0.2443,  
0.3116

■ 57.1684, 0.2557,  
0.3155

■ 60.4810, 0.2685,  
0.3192

■ 64.2187, 0.2825,  
0.3227

■ 68.4022, 0.2974,  
0.3260

# Harmonies

## Analogous

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



44.7538, 0.2369, 0.3452



44.7538, 0.2142, 0.2912



44.7538, 0.2150, 0.2549

# Triad

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



44.7538, 0.2142, 0.2912



44.7538, 0.3393, 0.2709



44.7538, 0.3862, 0.4244

# Complementary

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



44.7538, 0.2142, 0.2912



16.2691, 0.6314, 0.3369

# 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.



44.7538, 0.4192, 0.3933



44.7538, 0.2142, 0.2912



44.7538, 0.3923, 0.3077

# Square

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



44.7538, 0.2142, 0.2912



44.7538, 0.2827, 0.2470



44.7538, 0.4224, 0.3509



44.7538, 0.3350, 0.4297



# Rectangle

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



44.7538, 0.2142, 0.2912



44.7538, 0.2284, 0.2430



44.7538, 0.4224, 0.3509



44.7538, 0.3999, 0.4161

# Sweetspot

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



44.7588, 0.2142, 0.2912



82.6815, 0.2682, 0.3191



52.3198, 0.2979, 0.5924



17.2712, 0.2626, 0.3176



0.0000, 0.0000, 0.0000



21.4041, 0.3127, 0.3290

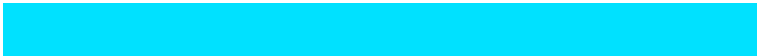


# Same Dimension

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



44.7588, 0.2142, 0.2912



61.1467, 0.2141, 0.2909



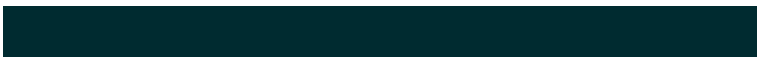
11.7874, 0.1665, 0.1194



15.2839, 0.2982, 0.3262



26.6911, 0.2144, 0.2918



1.9287, 0.2161, 0.2980



# Inverse Universe

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



19.5165, 0.3532, 0.1720



26.7039, 0.3535, 0.1721



33.3945, 0.5083, 0.4346



13.9065, 0.3156, 0.3086



11.6025, 0.3527, 0.1717

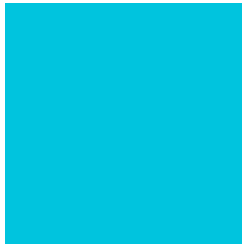


0.8122, 0.3471, 0.1686



# Previews

## White Background



This preview shows how the Yxy color 44.7538, 0.2142, 0.2912 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

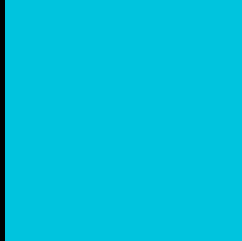
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 44.7538, 0.2142, 0.2912 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

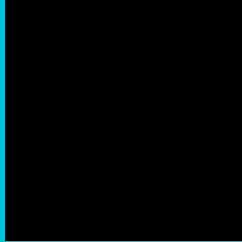
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**Yxy 44.7538, 0.2142, 0.2912**

## **Background**



This preview shows how black text looks on a background with the Yxy color 44.7538, 0.2142, 0.2912.



This preview shows how white text looks on a background with the Yxy color 44.7538, 0.2142, 0.2912.

# 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

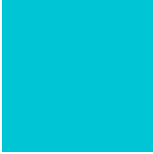
44.7538, 0.2142, 0.2912

### Protanopia

44.2627, 0.2840, 0.2876

### Deuteranopia

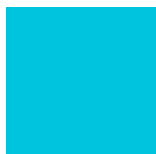
44.1430, 0.2686, 0.2626



## Tritanopia

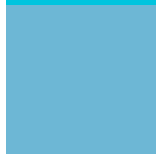
44.7366, 0.2181, 0.3051

# Trichromacy



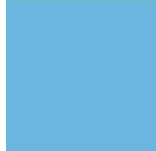
## Original Color

44.7538, 0.2142, 0.2912



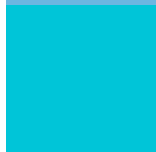
## Protanomaly

41.9223, 0.2409, 0.2864



## Deuteranomaly

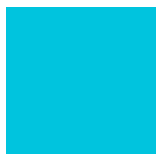
42.0179, 0.2335, 0.2696



## Tritanomaly

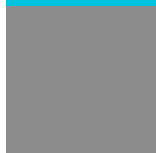
44.8904, 0.2169, 0.3009

# Monochromacy



## Original Color

44.7538, 0.2142, 0.2912



## Achromatopsia

26.2251, 0.3127, 0.3290



## Achromatomaly

30.1677, 0.2476, 0.3120

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 44.7538, 0.2142, 0.2912 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(0, 196, 222)` looks like.

```
.text, #text, p{  
  color:rgb(0, 196, 222)  
}
```

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(0, 196, 222) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(0, 196, 222) }
```

## Border

The CSS property to change the border of an element to Yxy 44.7538, 0.2142, 0.2912 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(0, 196, 222) }
```

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

```
.border{ border-color:rgb(0, 196, 222) }
```

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

Here you see how a box with a 4 pixel `rgb(0, 196, 222)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(0, 196, 222); -webkit-box-  
shadow:4px 4px 4px 4px rgb(0, 196, 222);  
box-shadow:4px 4px 4px 4px rgb(0, 196,  
222) }
```



# Background

The CSS property to change the background color of an element to Yxy 44.7538, 0.2142, 0.2912 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(0, 196, 222) }
```

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

```
.background{ background-color: rgb(0, 196,  
222) }
```

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](#).

Hey! You found this booklet interesting? Support Converting Colors with the new Membership Option!

The pro membership hides all ads, plus gives you double the colors in the color bucket, and more awesome pro features!

**[Learn more, Memberships starting at \\$2.50/m!](#)**

**Follow me  
on Twitter!**

@ConvertingColor