

# Converting Colors

$Y_{xy}(45.2170, 0.2115, 0.2815)$

Have a look what the booklet for  
Yxy(45.2170, 0.2115, 0.2815)  
contains.

<b>Yxy(45.1930, 0.2113, 0.2807)</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(45.1930, 0.2113, 0.2807)**

# Conversions

## Conversions Part 1

Format	Color
Hex	00C4E6
RGB	0, 196, 230
RGB Percent	0%, 77%, 90%
CMY	1.0000, 0.2313, 0.0981
CMYK	1.00, 0.15, 0.00, 0.10
HSL	189°, 100%, 45%
HSV	189°, 100%, 90%
XYZ	34.0195, 45.1930, 81.7885
YIQ	141.2720, -127.7300, -30.9780

# Conversions

## Conversions Part 2

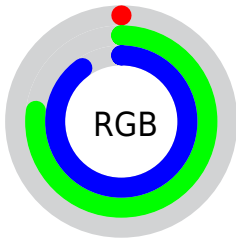
<b>Format</b>	<b>Color</b>
<b>RYB</b>	0, 106, 230
Decimal	50406
CIELab	73.02, -28.70, -28.33
CIELCh	73, 40.322, 224.626
Yxy	45.1930, 0.2113, 0.2807
Android (android.graphics.Color)	4278240486 (0xFF00C4E6)
YUV	141.2720, 43.7429, -123.8955
Hunter-Lab	67.2257, -27.3153, -25.0757

# Details

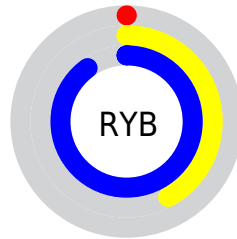
The Yxy color **45.1930, 0.2113, 0.2807** is a dark color, and the websafe version is hex **00CCFF**. The color can be described as middle washed cyan. A complement of this color would be **17.9655, 0.6278, 0.3397**, and the grayscale version is **26.6124, 0.3127, 0.3290**.

A 20% lighter version of the original color is **80.7218, 0.2406, 0.3265**, and **22.4020, 0.2082, 0.2693** is the 20% darker color. If you saturate the color by 10%, you get **45.1960, 0.2113, 0.2807**, and if you desaturate by 10%, it is **46.9290, 0.2142, 0.2859**.

# Distribution



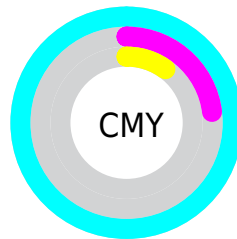
- Red (0%)
- Green (77%)
- Blue (90%)



- Red (0%)
- Yellow (42%)
- Blue (90%)



- Cyan (100%)
- Magenta (15%)
- Yellow (0%)
- Black (10%)




- Cyan (100%)
- Magenta (23%)
- Yellow (10%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 45.1930, 0.2113, 0.2807 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 45.1930, 0.2113, 0.2807 by changing the saturation by 10% instead.




 45.1930, 0.2113,  
0.2807

 45.1930, 0.2113,  
0.2807


 367.5547, 0.2598,  
0.3063


 31.6095, 0.2000,  
0.2741


 83.0100, 0.2283,  
0.2902


 21.0634, 0.1861,  
0.2654


 108.0122, 0.2349,  
0.2937


 13.1703, 0.1685,  
0.2539


 137.5894, 0.2405,  
0.2967

 7.5460, 0.1459,  
0.2378

 172.1260, 0.2454,  
0.2992

 3.8058, 0.1162,  
0.2143

 212.0065, 0.2497,  
0.3013

 1.5655, 0.0762,  
0.1782

257.6152, 0.2535,

 0.3342, 0.0000,

0.3032

0.0971

309.3364, 0.2568,  
0.3048

■ 0.0000, 0.0000,  
0.0000

■ 45.1930, 0.2113,  
0.2807

■ 45.1930, 0.2113,  
0.2807

■ 45.1960, 0.2113,  
0.2807

■ 46.9290, 0.2142,  
0.2859

■ 48.9135, 0.2186,  
0.2912

■ 51.2188, 0.2249,  
0.2965

■ 53.8852, 0.2332,  
0.3017

■ 56.9467, 0.2433,  
0.3069

■ 60.4329, 0.2550,  
0.3119

■ 64.3704, 0.2682,  
0.3166

■ 68.7838, 0.2824,  
0.3211

■ 73.6953, 0.2973,  
0.3252

# Harmonies

## Analogous

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



45.1930, 0.2290, 0.3323



45.1930, 0.2113, 0.2807



45.1930, 0.2174, 0.2490

# Triad

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



45.1930, 0.2113, 0.2807



45.1930, 0.3525, 0.2776



45.1930, 0.3766, 0.4295

# Complementary

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



45.1930, 0.2113, 0.2807



17.9655, 0.6278, 0.3397

# 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.



45.1930, 0.4153, 0.4023



45.1930, 0.2113, 0.2807



45.1930, 0.4026, 0.3167

# Square

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



45.1930, 0.2113, 0.2807



45.1930, 0.2944, 0.2501



45.1930, 0.4259, 0.3609



45.1930, 0.3227, 0.4273

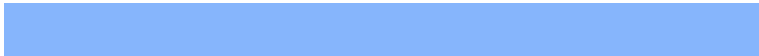


# Rectangle

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



45.1930, 0.2113, 0.2807



45.1930, 0.2342, 0.2402



45.1930, 0.4259, 0.3609



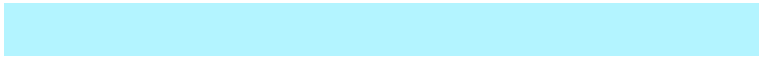
45.1930, 0.3919, 0.4229

# Sweetspot

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



45.1960, 0.2113, 0.2807



81.2623, 0.2679, 0.3165



56.6881, 0.2975, 0.5909



16.9274, 0.2622, 0.3146



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.



45.1960, 0.2113, 0.2807



57.0093, 0.2112, 0.2804



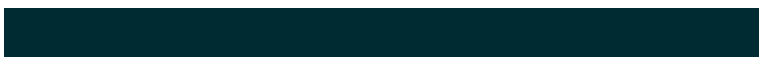
12.1051, 0.1651, 0.1144



15.9543, 0.2981, 0.3254



25.7305, 0.2115, 0.2815



2.0007, 0.2137, 0.2891



# Inverse Universe

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



20.8080, 0.3628, 0.1772



26.2863, 0.3631, 0.1774



37.2764, 0.5038, 0.4382



14.5767, 0.3160, 0.3092



11.7952, 0.3621, 0.1768



0.8816, 0.3551, 0.1730



# Previews

## White Background



This preview shows how the Yxy color 45.1930, 0.2113, 0.2807 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

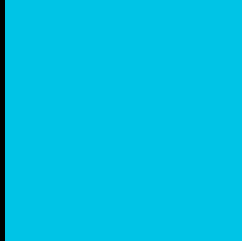
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 45.1930, 0.2113, 0.2807 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

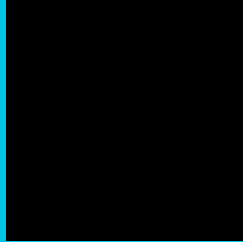
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**Yxy 45.1930, 0.2113, 0.2807**

## **Background**



This preview shows how black text looks on a background with the Yxy color 45.1930, 0.2113, 0.2807.

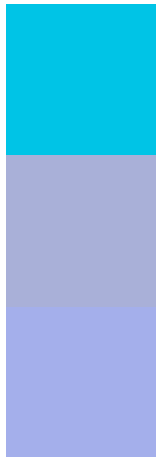


This preview shows how white text looks on a background with the Yxy color 45.1930, 0.2113, 0.2807.

# 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

45.1930, 0.2113, 0.2807

### Protanopia

44.4436, 0.2769, 0.2779

### Deuteranopia

44.5506, 0.2608, 0.2546



## Tritanopia

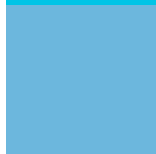
45.2432, 0.2181, 0.3052

# Trichromacy



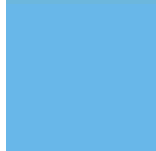
## Original Color

45.1930, 0.2113, 0.2807



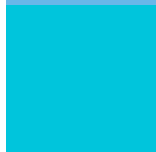
## Protanomaly

42.2756, 0.2362, 0.2761



## Deuteranomaly

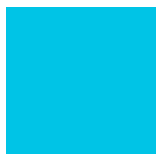
42.6932, 0.2286, 0.2613



## Tritanomaly

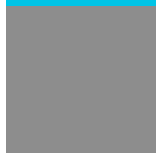
45.0998, 0.2154, 0.2954

# Monochromacy



## Original Color

45.1930, 0.2113, 0.2807



## Achromatopsia

26.6356, 0.3127, 0.3290



## Achromatomaly

30.6805, 0.2466, 0.3088

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 45.1930, 0.2113, 0.2807 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, 230)` looks like.

```
.text, #text, p{  
    color:rgb(0, 196, 230)  
}
```

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, 230) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(0, 196, 230) }
```

## Border

The CSS property to change the border of an element to Yxy 45.1930, 0.2113, 0.2807 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, 230) }
```

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

```
.border{ border-color:rgb(0, 196, 230) }
```

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, 230)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(0, 196, 230); -webkit-box-  
shadow:4px 4px 4px 4px rgb(0, 196, 230);  
box-shadow:4px 4px 4px 4px rgb(0, 196,  
230) }
```



# Background

The CSS property to change the background color of an element to Yxy 45.1930, 0.2113, 0.2807 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, 230) }
```

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

```
.background{ background-color: rgb(0, 196,  
230) }
```

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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