

Converting Colors

$Y_{xy}(46.6352, 0.1943, 0.2780)$

Have a look what the booklet for
Yxy(46.6352, 0.1943, 0.2780)
contains.

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Color

Yxy(48.8849, 0.2114, 0.2809)

Conversions

Conversions Part 1

Format	Color
Hex	01CBEE
RGB	1, 203, 238
RGB Percent	0%, 80%, 93%
CMY	0.9972, 0.2039, 0.0668
CMYK	1.00, 0.15, 0.00, 0.07
HSL	189°, 99%, 47%
HSV	189°, 100%, 93%
XYZ	36.7898, 48.8849, 88.3548
YIQ	146.5920, -131.6270, -31.9390

Conversions

Conversions Part 2

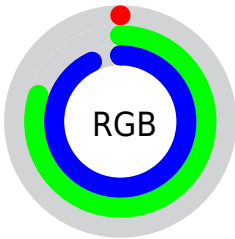
Format	Color
RYB	1, 110, 238
Decimal	117742
CIELab	75.38, -29.49, -29.00
CIELCh	75, 41.355, 224.517
Yxy	48.8849, 0.2114, 0.2809
Android (android.graphics.Color)	4278307822 (0xFF01CBEE)
YUV	146.5920, 45.0641, -127.6842
Hunter-Lab	69.9177, -28.4316, -25.9822

Details

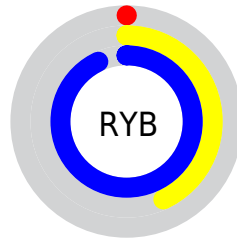
The Yxy color **48.8849, 0.2114, 0.2809** is a dark color, and the websafe version is hex **00CCFF**. The color can be described as middle washed cyan. A complement of this color would be **19.4141, 0.6275, 0.3396**, and the grayscale version is **28.8125, 0.3127, 0.3290**.

A 20% lighter version of the original color is **82.1847, 0.2420, 0.3288**, and **24.5572, 0.2078, 0.2681** is the 20% darker color. If you saturate the color by 10%, you get **48.8325, 0.2113, 0.2807**, and if you desaturate by 10%, it is **50.7576, 0.2142, 0.2861**.

Distribution



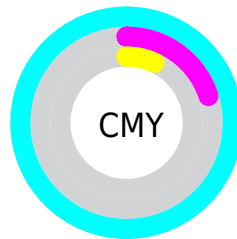
- Red (0%)
- Green (80%)
- Blue (93%)



- Red (0%)
- Yellow (43%)
- Blue (93%)



- Cyan (100%)
- Magenta (15%)
- Yellow (0%)
- Black (7%)





- Cyan (100%)
- Magenta (20%)
- Yellow (7%)

Brightness & Saturation Gradients


These gradients show how the Yxy color 48.8849, 0.2114, 0.2809 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 48.8849, 0.2114, 0.2809 by changing the saturation by 10% instead.


 48.8849, 0.2114,
0.2809


 48.8849, 0.2114,
0.2809


382.2890, 0.2592,
0.3060


 34.5282, 0.2005,
0.2745


 88.5205, 0.2280,
0.2902


 23.2997, 0.1870,
0.2662


 114.5681, 0.2345,
0.2936

 14.8149, 0.1702,
0.2552


 145.2816, 0.2401,
0.2965

 8.6896, 0.1486,
0.2401

 181.0451, 0.2449,
0.2990

 4.5393, 0.1206,
0.2183

 222.2433, 0.2491,
0.3011

 1.9796, 0.0842,
0.1852

269.2604, 0.2529,

 0.5956, 0.0000,

0.3030

0.1328

322.4808, 0.2562,
0.3046

■ 0.0000, 0.0000,
0.0000

■ 48.8849, 0.2114,
0.2809

■ 48.8849, 0.2114,
0.2809

■ 48.8325, 0.2113,
0.2807

■ 50.7576, 0.2142,
0.2861

■ 52.9058, 0.2187,
0.2913

■ 55.4023, 0.2250,
0.2966

■ 58.2909, 0.2334,
0.3019

■ 61.6082, 0.2435,
0.3070

■ 65.3865, 0.2553,
0.3120

■ 69.6546, 0.2685,
0.3168

■ 74.4389, 0.2828,
0.3212

■ 79.7639, 0.2977,
0.3253

Harmonies

Analogous

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



48.8849, 0.2291, 0.3325



48.8849, 0.2114, 0.2809



48.8849, 0.2174, 0.2491

Triad

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



48.8849, 0.2114, 0.2809



48.8849, 0.3522, 0.2775



48.8849, 0.3767, 0.4293

Complementary

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



48.8849, 0.2114, 0.2809



19.4141, 0.6275, 0.3396

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.



48.8849, 0.4153, 0.4022



48.8849, 0.2114, 0.2809



48.8849, 0.4023, 0.3166

Square

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



48.8849, 0.2114, 0.2809



48.8849, 0.2942, 0.2501



48.8849, 0.4258, 0.3608



48.8849, 0.3229, 0.4273

Rectangle

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



48.8849, 0.2114, 0.2809



48.8849, 0.2341, 0.2403



48.8849, 0.4258, 0.3608



48.8849, 0.3919, 0.4228

Sweetspot

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



48.8866, 0.2114, 0.2809



81.2811, 0.2679, 0.3166



61.2373, 0.2975, 0.5907



16.9320, 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.



48.8866, 0.2114, 0.2809



57.0634, 0.2113, 0.2806



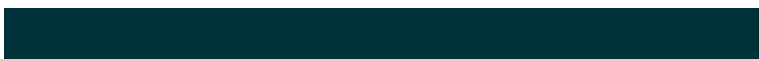
13.1062, 0.1652, 0.1146



17.5087, 0.2981, 0.3254



27.4037, 0.2116, 0.2816



2.3868, 0.2135, 0.2884

Inverse Universe

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



22.4976, 0.3626, 0.1772



26.2917, 0.3630, 0.1773



40.2955, 0.5036, 0.4382



15.9890, 0.3160, 0.3091



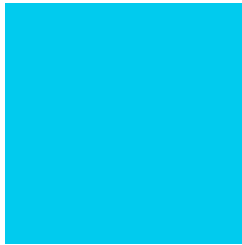
12.5598, 0.3620, 0.1768



1.0557, 0.3558, 0.1733

Previews

White Background



This preview shows how the Yxy color 48.8849, 0.2114, 0.2809 looks on a white background.

Color Contrast Check

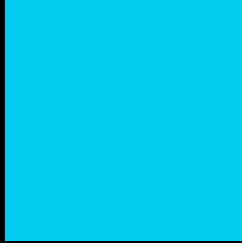
Large Text (above 18pt) WCAG AA × Fail

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 48.8849, 0.2114, 0.2809 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

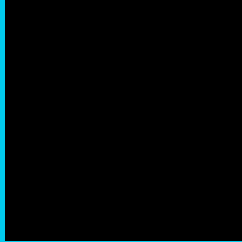
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

Yxy 48.8849, 0.2114, 0.2809

Background



This preview shows how black text looks on a background with the Yxy color 48.8849, 0.2114, 0.2809.

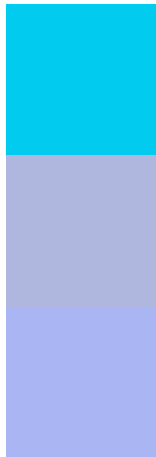


This preview shows how white text looks on a background with the Yxy color 48.8849, 0.2114, 0.2809.

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

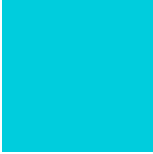
48.8914, 0.2114, 0.2809

Protanopia

48.3086, 0.2773, 0.2795

Deuteranopia

48.0649, 0.2610, 0.2546



Tritanopia

48.8831, 0.2183, 0.3060

Trichromacy



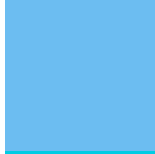
Original Color

48.8914, 0.2114, 0.2809



Protanomaly

45.8731, 0.2367, 0.2777



Deuteranomaly

45.9342, 0.2285, 0.2608



Tritanomaly

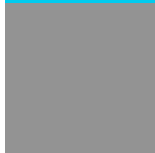
48.7318, 0.2157, 0.2964

Monochromacy



Original Color

48.8914, 0.2114, 0.2809



Achromatopsia

29.1771, 0.3127, 0.3290



Achromatomaly

33.3124, 0.2465, 0.3079

CSS Examples

Text

The CSS property to change the color of the text to Yxy 48.8849, 0.2114, 0.2809 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(1, 203, 238)` looks like.

```
.text, #text, p{  
    color:rgb(1, 203, 238)  
}
```

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(1, 203, 238) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(1, 203, 238) }
```

Border

The CSS property to change the border of an element to Yxy 48.8849, 0.2114, 0.2809 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(1, 203, 238) }
```

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

```
.border{ border-color:rgb(1, 203, 238) }
```

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

Here you see how a box with a 4 pixel `rgb(1, 203, 238)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(1, 203, 238); -webkit-box-  
shadow:4px 4px 4px 4px rgb(1, 203, 238);  
box-shadow:4px 4px 4px 4px rgb(1, 203,  
238) }
```


Background

The CSS property to change the background color of an element to Yxy 48.8849, 0.2114, 0.2809 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(1, 203, 238) }
```

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

```
.background{ background-color: rgb(1, 203,  
238) }
```

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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