

Converting Colors

$Y_{xy}(47.7271, 0.1965, 0.2707)$

Have a look what the booklet for
Yxy(47.7271, 0.1965, 0.2707)
contains.

Yxy(49.3044, 0.2090, 0.2723)	3
<i>Conversions</i>	4
<i>Details</i>	6
<i>Harmonies</i>	12
<i>Previews</i>	24
<i>Color Blindness Simulation</i>	27
<i>CSS Examples</i>	30

Color

Yxy(49.3044, 0.2090, 0.2723)

Conversions

Conversions Part 1

Format	Color
Hex	00CBF5
RGB	0, 203, 245
RGB Percent	0%, 80%, 96%
CMY	0.9981, 0.2039, 0.0392
CMYK	1.00, 0.17, 0.00, 0.04
HSL	190°, 100%, 48%
HSV	190°, 100%, 96%
XYZ	37.8429, 49.3044, 93.9192
YIQ	147.0910, -134.4700, -29.9740

Conversions

Conversions Part 2

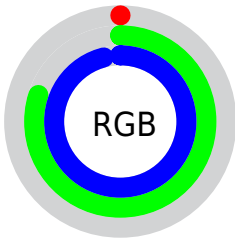
Format	Color
RYB	0, 111, 245
Decimal	52213
CIELab	75.64, -27.17, -32.38
CIELCh	76, 42.269, 230.005
Yxy	49.3044, 0.2090, 0.2723
Android (android.graphics.Color)	4278242293 (0xFF00CBF5)
YUV	147.0910, 48.2691, -128.9988
Hunter-Lab	70.2171, -26.6789, -30.1516

Details

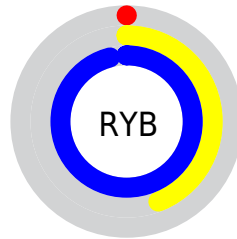
The Yxy color **49.3044, 0.2090, 0.2723** is a light color, and the websafe version is hex **00CCFF**. The color can be described as light saturated cyan. A complement of this color would be **21.1085, 0.6244, 0.3422**, and the grayscale version is **29.1186, 0.3127, 0.3290**.

A 20% lighter version of the original color is **82.2507, 0.2423, 0.3288**, and **25.1690, 0.2054, 0.2593** is the 20% darker color. If you saturate the color by 10%, you get **49.2633, 0.2089, 0.2722**, and if you desaturate by 10%, it is **51.5252, 0.2121, 0.2784**.

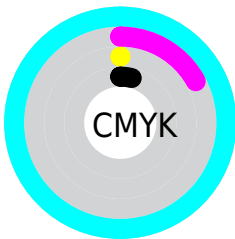
Distribution



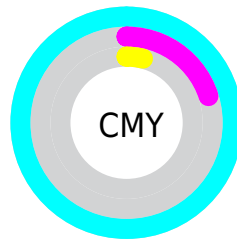
- Red (0%)
- Green (80%)
- Blue (96%)



- Red (0%)
- Yellow (44%)
- Blue (96%)



- Cyan (100%)
- Magenta (17%)
- Yellow (0%)
- Black (4%)





- Cyan (100%)
- Magenta (20%)
- Yellow (4%)

Brightness & Saturation Gradients


These gradients show how the Yxy color 49.3044, 0.2090, 0.2723 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 49.3044, 0.2090, 0.2723 by changing the saturation by 10% instead.


 49.3044, 0.2090,
0.2723

 49.3044, 0.2090,
0.2723


383.9394, 0.2577,
0.3014


 34.8610, 0.1979,
0.2650


 89.1434, 0.2259,
0.2829

 23.5558, 0.1844,
0.2557


 115.3078, 0.2325,
0.2869

 15.0045, 0.1675,
0.2436


 146.1479, 0.2381,
0.2903

 8.8225, 0.1460,
0.2270

 182.0483, 0.2431,
0.2932

 4.6256, 0.1184,
0.2038

 223.3932, 0.2474,
0.2956

 2.0293, 0.0828,
0.1696

270.5671, 0.2512,

 0.6244, 0.0000,

0.2978

0.1194

323.9544, 0.2546,
0.2997

■ 0.0000, 0.0000,
0.0000

■ 49.3044, 0.2090,
0.2723

■ 49.3044, 0.2090,
0.2723

■ 49.2633, 0.2089,
0.2722

■ 51.5252, 0.2121,
0.2784

■ 54.0541, 0.2168,
0.2847

■ 56.9694, 0.2235,
0.2909

■ 60.3184, 0.2321,
0.2971

■ 64.1407, 0.2426,
0.3032

■ 68.4711, 0.2547,
0.3091

■ 73.3409, 0.2681,
0.3147

■ 78.7786, 0.2825,
0.3199

■ 84.8106, 0.2976,
0.3247

Harmonies

Analogous

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



49.3044, 0.2226, 0.3218



49.3044, 0.2090, 0.2723



49.3044, 0.2194, 0.2442

Triad

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



49.3044, 0.2090, 0.2723



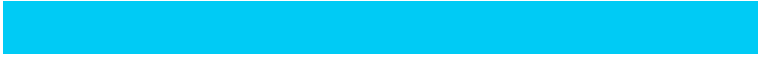
49.3044, 0.3635, 0.2832



49.3044, 0.3684, 0.4335

Complementary

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



49.3044, 0.2090, 0.2723



21.1085, 0.6244, 0.3422

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.



49.3044, 0.4117, 0.4099



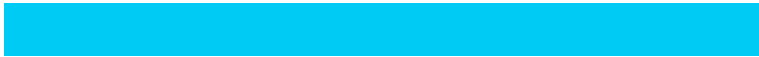
49.3044, 0.2090, 0.2723



49.3044, 0.4109, 0.3243

Square

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



49.3044, 0.2090, 0.2723



49.3044, 0.3043, 0.2527



49.3044, 0.4286, 0.3693



49.3044, 0.3124, 0.4249

Rectangle

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



49.3044, 0.2090, 0.2723



49.3044, 0.2391, 0.2381



49.3044, 0.4286, 0.3693



49.3044, 0.3850, 0.4285

Sweetspot

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



49.3061, 0.2090, 0.2723



80.1617, 0.2677, 0.3145



65.4787, 0.2964, 0.5869



16.6612, 0.2619, 0.3122



0.0000, 0.0000, 0.0000



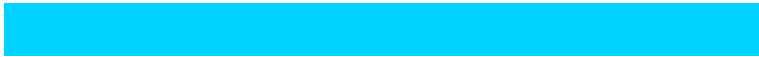
21.4041, 0.3127, 0.3290

Same Dimension

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



49.3061, 0.2090, 0.2723



53.8982, 0.2089, 0.2721



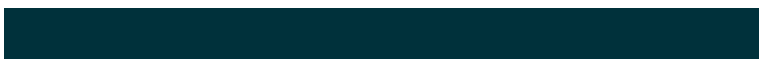
12.6309, 0.1626, 0.1053



18.2448, 0.2980, 0.3248



26.7161, 0.2092, 0.2732



2.4731, 0.2114, 0.2809

Inverse Universe

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



23.7373, 0.3706, 0.1816



25.9722, 0.3709, 0.1817



45.7907, 0.4946, 0.4454



16.7165, 0.3164, 0.3096



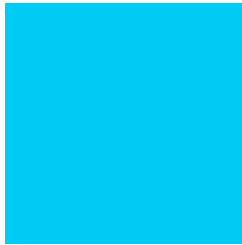
12.7964, 0.3698, 0.1811



1.1373, 0.3626, 0.1771

Previews

White Background



This preview shows how the Yxy color 49.3044, 0.2090, 0.2723 looks on a white background.

Color Contrast Check

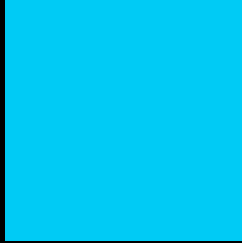
Large Text (above 18pt) WCAG AA × Fail

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 49.3044, 0.2090, 0.2723 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

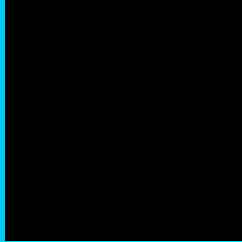
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

Yxy 49.3044, 0.2090, 0.2723

Background



This preview shows how black text looks on a background with the Yxy color 49.3044, 0.2090, 0.2723.



This preview shows how white text looks on a background with the Yxy color 49.3044, 0.2090, 0.2723.

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

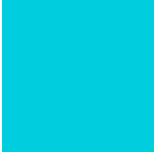
49.3044, 0.2090, 0.2723

Protanopia

48.6352, 0.2714, 0.2704

Deuteranopia

48.5735, 0.2551, 0.2482



Tritanopia

49.4165, 0.2184, 0.3061

Trichromacy



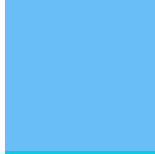
Original Color

49.3044, 0.2090, 0.2723



Protanomaly

46.2625, 0.2325, 0.2681



Deuteranomaly

46.6684, 0.2249, 0.2542



Tritanomaly

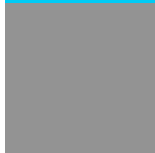
49.3758, 0.2150, 0.2939

Monochromacy



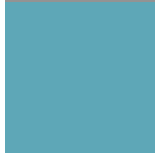
Original Color

49.3044, 0.2090, 0.2723



Achromatopsia

29.1771, 0.3127, 0.3290



Achromatomaly

33.4360, 0.2447, 0.3033

CSS Examples

Text

The CSS property to change the color of the text to Yxy 49.3044, 0.2090, 0.2723 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, 203, 245)` looks like.

```
.text, #text, p{  
    color:rgb(0, 203, 245)  
}
```

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, 203, 245) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(0, 203, 245) }
```

Border

The CSS property to change the border of an element to Yxy 49.3044, 0.2090, 0.2723 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, 203, 245) }
```

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

```
.border{ border-color:rgb(0, 203, 245) }
```

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

Here you see how a box with a 4 pixel `rgb(0, 203, 245)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(0, 203, 245); -webkit-box-  
shadow:4px 4px 4px 4px rgb(0, 203, 245);  
box-shadow:4px 4px 4px 4px rgb(0, 203,  
245) }
```


Background

The CSS property to change the background color of an element to Yxy 49.3044, 0.2090, 0.2723 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(0, 203, 245) }
```

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

```
.background{ background-color: rgb(0, 203,  
245) }
```

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