

# Converting Colors

$Yxy(46.9337, 0.1810, 0.2886)$

Have a look what the booklet for  
Yxy(46.9337, 0.1810, 0.2886)  
contains.

<b>Yxy(51.1099, 0.2144, 0.2918)</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(51.1099, 0.2144, 0.2918)**

# Conversions

## Conversions Part 1

Format	Color
Hex	00D0EB
RGB	0, 208, 235
RGB Percent	0%, 82%, 92%
CMY	0.9995, 0.1843, 0.0784
CMYK	1.00, 0.11, 0.00, 0.08
HSL	187°, 100%, 46%
HSV	187°, 100%, 92%
XYZ	37.5530, 51.1099, 86.4910
YIQ	148.8860, -132.6350, -35.6990

# Conversions

## Conversions Part 2

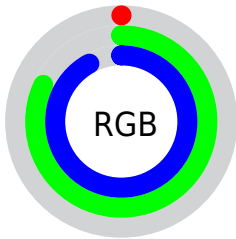
Format	Color
<b>RYB</b>	0, 110, 235
Decimal	53483
CIELab	76.75, -32.87, -25.32
CIELCh	77, 41.493, 217.604
Yxy	51.1099, 0.2144, 0.2918
Android (android.graphics.Color)	4278243563 (0xFF00D0EB)
YUV	148.8860, 42.4542, -130.5730
Hunter-Lab	71.4912, -31.3469, -21.6860

# Details

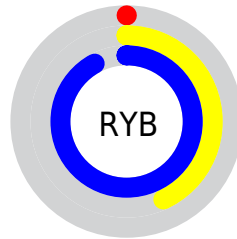
The Yxy color **51.1099, 0.2144, 0.2918** is a light color, and the websafe version is hex **00CCFF**. The color can be described as light washed cyan. A complement of this color would be **18.4543, 0.6319, 0.3364**, and the grayscale version is **29.8813, 0.3127, 0.3290**.

A 20% lighter version of the original color is **82.1847, 0.2420, 0.3288**, and **26.0371, 0.2118, 0.2824** is the 20% darker color. If you saturate the color by 10%, you get **51.1042, 0.2144, 0.2918**, and if you desaturate by 10%, it is **52.6296, 0.2168, 0.2958**.

# Distribution



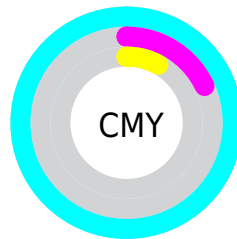
- Red (0%)
- Green (82%)
- Blue (92%)



- Red (0%)
- Yellow (43%)
- Blue (92%)



- Cyan (100%)
- Magenta (11%)
- Yellow (0%)
- Black (8%)




- Cyan (100%)
- Magenta (18%)
- Yellow (8%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 51.1099, 0.2144, 0.2918 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 51.1099, 0.2144, 0.2918 by changing the saturation by 10% instead.




 51.1099, 0.2144,  
0.2918

 51.1099, 0.2144,  
0.2918


390.9906, 0.2606,  
0.3116


 36.2961, 0.2038,  
0.2866

 91.8172, 0.2305,  
0.2992

 24.6629, 0.1909,  
0.2799


 118.4795, 0.2367,  
0.3019


 15.8261, 0.1746,  
0.2710


 149.8600, 0.2421,  
0.3042

 9.4012, 0.1537,  
0.2584

 186.3432, 0.2468,  
0.3061

 5.0038, 0.1265,  
0.2399

 228.3135, 0.2509,  
0.3078

 2.2495, 0.0906,  
0.2111

276.1552, 0.2545,

 0.7468, 0.0000,

0.3092

0.1695

330.2528, 0.2577,  
0.3105

■ 0.0000, 0.0000,  
0.0000

■ 51.1099, 0.2144,  
0.2918

■ 51.1099, 0.2144,  
0.2918

■ 51.1042, 0.2144,  
0.2918

■ 52.6296, 0.2168,  
0.2958

■ 54.3990, 0.2208,  
0.2998

■ 56.4915, 0.2267,  
0.3038

■ 58.9495, 0.2345,  
0.3079

■ 61.8086, 0.2442,  
0.3118

■ 65.1001, 0.2556,  
0.3157

■ 68.8518, 0.2685,  
0.3194

■ 73.0894, 0.2825,  
0.3228

■ 77.8364, 0.2974,  
0.3261

# Harmonies

## Analogous

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



51.1099, 0.2374, 0.3459



51.1099, 0.2144, 0.2918



51.1099, 0.2150, 0.2553

# Triad

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



51.1099, 0.2144, 0.2918



51.1099, 0.3385, 0.2706



51.1099, 0.3867, 0.4241

# Complementary

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



51.1099, 0.2144, 0.2918



18.4543, 0.6319, 0.3364

# 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.



51.1099, 0.4194, 0.3928



51.1099, 0.2144, 0.2918



51.1099, 0.3917, 0.3072

# Square

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



51.1099, 0.2144, 0.2918



51.1099, 0.2821, 0.2469



51.1099, 0.4221, 0.3504



51.1099, 0.3357, 0.4297

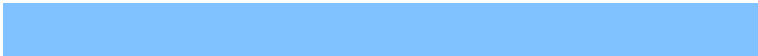


# Rectangle

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



51.1099, 0.2144, 0.2918



51.1099, 0.2281, 0.2432



51.1099, 0.4221, 0.3504



51.1099, 0.4003, 0.4157

# Sweetspot

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



51.1117, 0.2144, 0.2918



82.7793, 0.2683, 0.3193



59.4884, 0.2984, 0.5942



17.2949, 0.2627, 0.3178



0.0000, 0.0000, 0.0000



21.4041, 0.3127, 0.3290

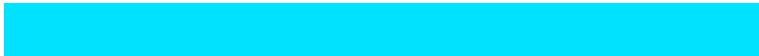


# Same Dimension

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



51.1117, 0.2144, 0.2918



61.4371, 0.2143, 0.2916



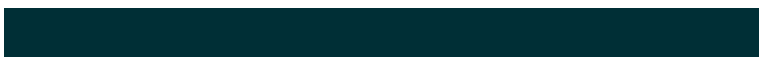
14.0188, 0.1677, 0.1237



16.8088, 0.2981, 0.3262



28.5598, 0.2146, 0.2924



2.3267, 0.2161, 0.2979



# Inverse Universe

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



22.2209, 0.3527, 0.1717



26.7333, 0.3529, 0.1718



36.7305, 0.5134, 0.4305



15.2822, 0.3155, 0.3084



12.3759, 0.3522, 0.1714

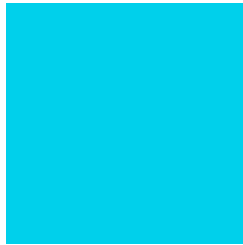


0.9803, 0.3472, 0.1687



# Previews

## White Background



This preview shows how the Yxy color 51.1099, 0.2144, 0.2918 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

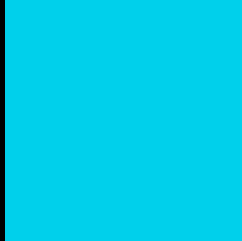
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 51.1099, 0.2144, 0.2918 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

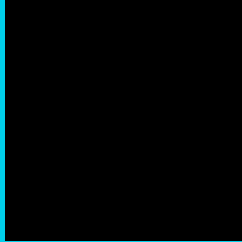
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**Yxy 51.1099, 0.2144, 0.2918**

## **Background**



This preview shows how black text looks on a background with the Yxy color 51.1099, 0.2144, 0.2918.



This preview shows how white text looks on a background with the Yxy color 51.1099, 0.2144, 0.2918.

# 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

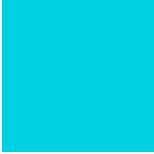
51.1099, 0.2144, 0.2918

### Protanopia

50.1089, 0.2840, 0.2873

### Deuteranopia

50.5729, 0.2695, 0.2638



## **Tritanopia**

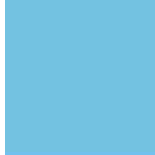
51.0919, 0.2181, 0.3050

# Trichromacy



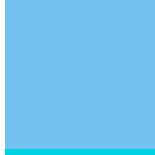
## Original Color

51.1099, 0.2144, 0.2918



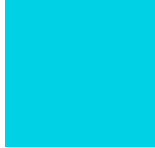
## Protanomaly

47.6647, 0.2408, 0.2872



## Deuteranomaly

47.8904, 0.2338, 0.2701



## Tritanomaly

51.2581, 0.2170, 0.3010

# Monochromacy



## Original Color

51.1099, 0.2144, 0.2918



## Achromatopsia

30.0544, 0.3127, 0.3290



## Achromatomaly

34.4776, 0.2480, 0.3129

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 51.1099, 0.2144, 0.2918 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, 208, 235)` looks like.

```
.text, #text, p{  
    color:rgb(0, 208, 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(0, 208, 235) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(0, 208, 235) }
```

## Border

The CSS property to change the border of an element to Yxy 51.1099, 0.2144, 0.2918 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, 208, 235) }
```

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

```
.border{ border-color:rgb(0, 208, 235) }
```

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

Here you see how a box with a 4 pixel rgb(0, 208, 235) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(0, 208, 235); -webkit-box-  
shadow:4px 4px 4px 4px rgb(0, 208, 235);  
box-shadow:4px 4px 4px 4px rgb(0, 208,  
235) }
```



# Background

The CSS property to change the background color of an element to Yxy 51.1099, 0.2144, 0.2918 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(0, 208, 235) }
```

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

```
.background{ background-color: rgb(0, 208,  
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](#).

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