

# Converting Colors

$Y_{xy}(36.7723, 0.2094, 0.2739)$

Have a look what the booklet for  
Yxy(36.7723, 0.2094, 0.2739)  
contains.

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# Color

**Yxy(36.6958, 0.2094, 0.2739)**

# Conversions

## Conversions Part 1

Format	Color
Hex	00B2D6
RGB	0, 178, 214
RGB Percent	0%, 70%, 84%
CMY	1.0000, 0.3019, 0.1608
CMYK	1.00, 0.17, 0.00, 0.16
HSL	190°, 100%, 42%
HSV	190°, 100%, 84%
XYZ	28.0544, 36.6958, 69.2250
YIQ	128.8820, -117.6440, -26.5400

# Conversions

## Conversions Part 2

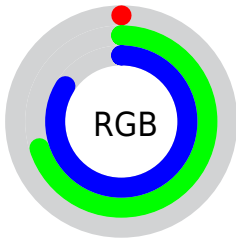
Format	Color
<a href="#">RYB</a>	0, 97, 214
Decimal	45782
CIELab	67.05, -25.06, -28.79
CIELCh	67, 38.166, 228.962
Yxy	36.6958, 0.2094, 0.2739
Android (android.graphics.Color)	4278235862 (0xFF00B2D6)
YUV	128.8820, 41.9632, -113.0295
Hunter-Lab	60.5771, -23.3431, -25.3502

# Details

The Yxy color **36.6958, 0.2094, 0.2739** is a dark color, and the websafe version is hex **00CCFF**. The color can be described as middle washed azure. A complement of this color would be **15.5583, 0.6243, 0.3425**, and the grayscale version is **21.7929, 0.3127, 0.3290**.

A 20% lighter version of the original color is **69.0087, 0.2340, 0.3036**, and **17.1704, 0.2054, 0.2595** is the 20% darker color. If you saturate the color by 10%, you get **36.6995, 0.2094, 0.2739**, and if you desaturate by 10%, it is **38.3147, 0.2126, 0.2799**.

# Distribution



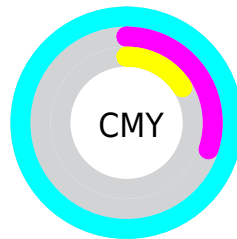
- Red (0%)
- Green (70%)
- Blue (84%)



- Red (0%)
- Yellow (38%)
- Blue (84%)



- Cyan (100%)
- Magenta (17%)
- Yellow (0%)
- Black (16%)



- Cyan (100%)
- Magenta (30%)
- Yellow (16%)

# Brightness & Saturation Gradients

These gradients show how the Yxy color 36.6958, 0.2094, 0.2739 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 36.6958, 0.2094, 0.2739 by changing the saturation by 10% instead.




 36.6958, 0.2094,  
0.2739


 36.6958, 0.2094,  
0.2739


331.9916, 0.2605,  
0.3037


 24.9721, 0.1971,  
0.2659


 70.1047, 0.2277,  
0.2851

 16.0562, 0.1817,  
0.2555


 92.5586, 0.2346,  
0.2892


 9.5640, 0.1619,  
0.2412


 119.3580, 0.2406,  
0.2927

 5.1108, 0.1359,  
0.2210

 150.8873, 0.2457,  
0.2955

 2.3124, 0.1014,  
0.1906

 187.5310, 0.2501,  
0.2980

 0.7803, 0.0246,  
0.1475

229.6733, 0.2540,

 0.0000, 0.0000,

0.3001

0.0000

277.6987, 0.2574,  
0.3020

■ 36.6958, 0.2094,  
0.2739

■ 36.6958, 0.2094,  
0.2739

■ 36.6995, 0.2094,  
0.2739

■ 38.3147, 0.2126,  
0.2799

■ 40.1495, 0.2173,  
0.2859

■ 42.2644, 0.2240,  
0.2920

■ 44.6931, 0.2326,  
0.2980

■ 47.4640, 0.2429,  
0.3039

■ 50.6021, 0.2549,  
0.3096

■ 54.1297, 0.2682,  
0.3150

■ 58.0674, 0.2824,  
0.3200

■ 62.4341, 0.2974,  
0.3247

# Harmonies

## Analogous

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



36.6958, 0.2238, 0.3238



36.6958, 0.2094, 0.2739



36.6958, 0.2190, 0.2451

# Triad

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



36.6958, 0.2094, 0.2739



36.6958, 0.3614, 0.2821



36.6958, 0.3701, 0.4328

# Complementary

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



36.6958, 0.2094, 0.2739



15.5583, 0.6243, 0.3425

# 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.



36.6958, 0.4125, 0.4085



36.6958, 0.2094, 0.2739



36.6958, 0.4093, 0.3228

# Square

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



36.6958, 0.2094, 0.2739



36.6958, 0.3023, 0.2522



36.6958, 0.4281, 0.3677



36.6958, 0.3144, 0.4254



# Rectangle

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



36.6958, 0.2094, 0.2739



36.6958, 0.2381, 0.2384



36.6958, 0.4281, 0.3677



36.6958, 0.3864, 0.4275

# Sweetspot

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



36.6995, 0.2094, 0.2739



80.3275, 0.2677, 0.3148



48.2208, 0.2962, 0.5863



16.7013, 0.2620, 0.3126



0.0000, 0.0000, 0.0000



21.4041, 0.3127, 0.3290

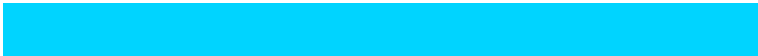


# Same Dimension

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



36.6995, 0.2094, 0.2739



54.3613, 0.2093, 0.2733



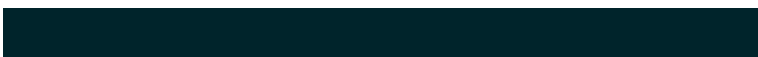
9.4045, 0.1629, 0.1063



13.7357, 0.2983, 0.3250



22.3141, 0.2097, 0.2748



1.4423, 0.2125, 0.2851



# Inverse Universe

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



17.5115, 0.3691, 0.1807



26.0190, 0.3697, 0.1810



33.8427, 0.4941, 0.4459



12.5952, 0.3163, 0.3098



10.5975, 0.3683, 0.1803



0.6489, 0.3588, 0.1750



# Previews

## White Background



This preview shows how the Yxy color 36.6958, 0.2094, 0.2739 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 36.6958, 0.2094, 0.2739 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

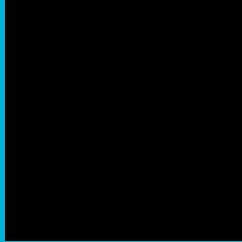
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**Yxy 36.6958, 0.2094, 0.2739**

## **Background**



This preview shows how black text looks on a background with the Yxy color 36.6958, 0.2094, 0.2739.



This preview shows how white text looks on a background with the Yxy color 36.6958, 0.2094, 0.2739.

# 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

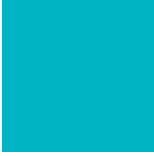
36.6958, 0.2094, 0.2739

### Protanopia

36.0341, 0.2724, 0.2721

### Deuteranopia

36.4066, 0.2569, 0.2510



## **Tritanopia**

36.5826, 0.2180, 0.3047

# Trichromacy



## Original Color

36.6958, 0.2094, 0.2739



## Protanomaly

34.6351, 0.2335, 0.2705



## Deuteranomaly

35.0269, 0.2264, 0.2561



## Tritanomaly

36.5045, 0.2146, 0.2925

# Monochromacy



## Original Color

36.6958, 0.2094, 0.2739



## Achromatopsia

21.9526, 0.3127, 0.3290



## Achromatomaly

25.1993, 0.2455, 0.3054

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 36.6958, 0.2094, 0.2739 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, 178, 214)` looks like.

```
.text, #text, p{  
    color:rgb(0, 178, 214)  
}
```

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, 178, 214) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(0, 178, 214) }
```

## Border

The CSS property to change the border of an element to Yxy 36.6958, 0.2094, 0.2739 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, 178, 214) }
```

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

```
.border{ border-color:rgb(0, 178, 214) }
```

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

Here you see how a box with a 4 pixel `rgb(0, 178, 214)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(0, 178, 214); -webkit-box-  
shadow:4px 4px 4px 4px rgb(0, 178, 214);  
box-shadow:4px 4px 4px 4px rgb(0, 178,  
214) }
```



# Background

The CSS property to change the background color of an element to Yxy 36.6958, 0.2094, 0.2739 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(0, 178, 214) }
```

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

```
.background{ background-color: rgb(0, 178,  
214) }
```

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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