

# Converting Colors

$Yxy(38.6423, 0.2116, 0.2774)$

Have a look what the booklet for  
Yxy(38.6423, 0.2116, 0.2774)  
contains.

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# Color

**Yxy(38.5522, 0.2117, 0.2778)**

# Conversions

## Conversions Part 1

Format	Color
Hex	12B6D8
RGB	18, 182, 216
RGB Percent	7%, 71%, 85%
CMY	0.9281, 0.2862, 0.1530
CMYK	0.92, 0.16, 0.00, 0.15
HSL	190°, 84%, 46%
HSV	190°, 92%, 85%
XYZ	29.3791, 38.5522, 70.8456
YIQ	136.8400, -108.6580, -24.1940

# Conversions

## Conversions Part 2

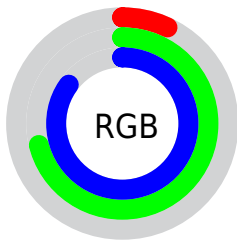
<b>Format</b>	<b>Color</b>
<b>RYB</b>	18, 108, 216
Decimal	1226456
CIELab	68.43, -25.84, -27.74
CIELCh	68, 37.912, 227.040
Yxy	38.5522, 0.2117, 0.2778
Android (android.graphics.Color)	4279416536 (0xFF12B6D8)
YUV	136.8400, 39.0259, -104.2227
Hunter-Lab	62.0904, -24.1982, -24.1870

# Details

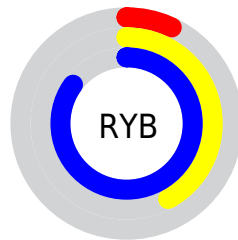
The Yxy color **38.5522, 0.2117, 0.2778** is a dark color, and the websafe version is hex **00CCFF**. The color can be described as middle washed azure. A complement of this color would be **17.1224, 0.6040, 0.3486**, and the grayscale version is **24.8763, 0.3127, 0.3290**.

A 20% lighter version of the original color is **71.5572, 0.2364, 0.3086**, and **18.2737, 0.2069, 0.2646** is the 20% darker color. If you saturate the color by 10%, you get **37.1464, 0.2091, 0.2726**, and if you desaturate by 10%, it is **40.4118, 0.2162, 0.2840**.

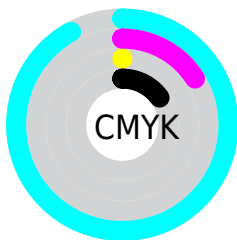
# Distribution



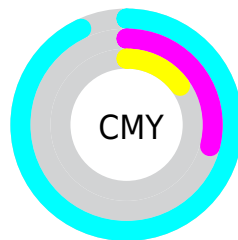
- Red (7%)
- Green (71%)
- Blue (85%)



- Red (7%)
- Yellow (42%)
- Blue (85%)



- Cyan (92%)
- Magenta (16%)
- Yellow (0%)
- Black (15%)




- Cyan (93%)
- Magenta (29%)
- Yellow (15%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 38.5522, 0.2117, 0.2778 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 38.5522, 0.2117, 0.2778 by changing the saturation by 10% instead.





 38.5522, 0.2117,  
0.2778


 38.5522, 0.2117,  
0.2778


339.9829, 0.2613,  
0.3054


 26.4115, 0.1998,  
0.2704


 72.9537, 0.2294,  
0.2882

 17.1318, 0.1849,  
0.2608


 95.9834, 0.2362,  
0.2920

 10.3285, 0.1659,  
0.2476


 123.4115, 0.2419,  
0.2952

 5.6173, 0.1409,  
0.2290

 155.6225, 0.2469,  
0.2978

 2.6138, 0.1076,  
0.2010

 193.0007, 0.2512,  
0.3001

 0.9336, 0.0439,  
0.1602

235.9306, 0.2550,

 0.0000, 0.0000,

0.3021

0.0000

284.7965, 0.2584,  
0.3039

■ 38.5522, 0.2117,  
0.2778

■ 38.5522, 0.2117,  
0.2778

■ 37.1464, 0.2091,  
0.2726

■ 40.4118, 0.2162,  
0.2840

■ 42.5520, 0.2226,  
0.2902

■ 45.0096, 0.2309,  
0.2964

■ 47.8145, 0.2411,  
0.3024

■ 50.9925, 0.2529,  
0.3083

■ 54.5671, 0.2660,  
0.3138

■ 58.5594, 0.2802,  
0.3191

■ 62.9890, 0.2951,  
0.3239

■ 67.8743, 0.3104,  
0.3284

# Harmonies

## Analogous

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



38.5522, 0.2274, 0.3277



38.5522, 0.2117, 0.2778



38.5522, 0.2196, 0.2480

# Triad

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



38.5522, 0.2117, 0.2778



38.5522, 0.3567, 0.2808



38.5522, 0.3721, 0.4297

# Complementary

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



38.5522, 0.2117, 0.2778



17.1224, 0.6040, 0.3486

# 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.



38.5522, 0.4122, 0.4047



38.5522, 0.2117, 0.2778



38.5522, 0.4048, 0.3203

# Square

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



38.5522, 0.2117, 0.2778



38.5522, 0.2990, 0.2524



38.5522, 0.4254, 0.3643



38.5522, 0.3181, 0.4246



# Rectangle

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



38.5522, 0.2117, 0.2778



38.5522, 0.2375, 0.2405



38.5522, 0.4254, 0.3643



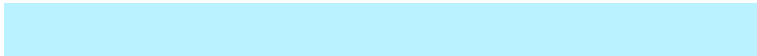
38.5522, 0.3878, 0.4240

# Sweetspot

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



38.5536, 0.2117, 0.2778



81.8813, 0.2719, 0.3161



49.4756, 0.2946, 0.5736



17.1083, 0.2671, 0.3143



0.0000, 0.0000, 0.0000



21.4041, 0.3127, 0.3290

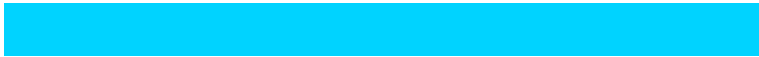


# Same Dimension

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



38.5536, 0.2117, 0.2778



53.9019, 0.2089, 0.2721



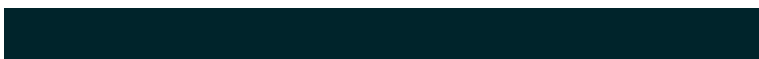
11.4621, 0.1691, 0.1224



13.7278, 0.2983, 0.3249



22.1309, 0.2093, 0.2736



1.4328, 0.2123, 0.2841



# Inverse Universe

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



18.4177, 0.3652, 0.1819



25.9726, 0.3709, 0.1817



36.4843, 0.4835, 0.4483



12.5944, 0.3164, 0.3099



10.5790, 0.3695, 0.1809



0.6480, 0.3597, 0.1755



# Previews

## White Background



This preview shows how the Yxy color 38.5522, 0.2117, 0.2778 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

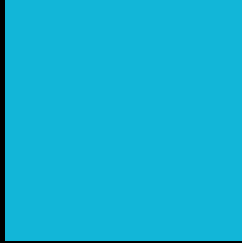
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 38.5522, 0.2117, 0.2778 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

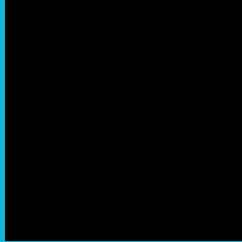
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**Yxy 38.5522, 0.2117, 0.2778**

## **Background**



This preview shows how black text looks on a background with the Yxy color 38.5522, 0.2117, 0.2778.

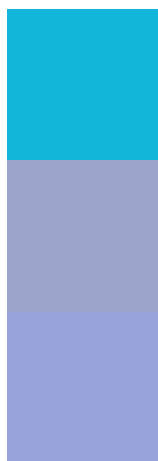


This preview shows how white text looks on a background with the Yxy color 38.5522, 0.2117, 0.2778.

# 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

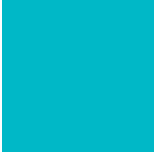
38.5424, 0.2117, 0.2777

### Protanopia

38.0308, 0.2754, 0.2759

### Deuteranopia

38.0371, 0.2598, 0.2536



## **Tritanopia**

38.4045, 0.2181, 0.3052

# Trichromacy



## Original Color

38.5424, 0.2117, 0.2777



## Protanomaly

36.8057, 0.2391, 0.2749



## Deuteranomaly

36.7475, 0.2308, 0.2590



## Tritanomaly

38.3199, 0.2156, 0.2947

# Monochromacy



## Original Color

38.5424, 0.2117, 0.2777



## Achromatopsia

25.0158, 0.3127, 0.3290



## Achromatomaly

27.9153, 0.2514, 0.3065

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 38.5522, 0.2117, 0.2778 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(18, 182, 216)` looks like.

```
.text, #text, p{  
    color:rgb(18, 182, 216)  
}
```

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(18, 182, 216) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(18, 182, 216) }
```

## Border

The CSS property to change the border of an element to Yxy 38.5522, 0.2117, 0.2778 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(18, 182, 216) }
```

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

```
.border{ border-color:rgb(18, 182, 216) }
```

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

Here you see how a box with a 4 pixel `rgb(18, 182, 216)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(18, 182, 216); -webkit-box-  
shadow:4px 4px 4px 4px rgb(18, 182, 216);  
box-shadow:4px 4px 4px 4px rgb(18, 182,  
216) }
```



# Background

The CSS property to change the background color of an element to Yxy 38.5522, 0.2117, 0.2778 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(18, 182, 216) }
```

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

```
.background{ background-color: rgb(18, 182,  
216) }
```

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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