

Converting Colors

$Y_{xy}(32.2451, 0.1413, 0.2709)$

Have a look what the booklet for
Yxy(32.2451, 0.1413, 0.2709)
contains.

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Color

Yxy(38.8248, 0.2109, 0.2792)

Conversions

Conversions Part 1

Format	Color
Hex	00B7D8
RGB	0, 183, 216
RGB Percent	0%, 72%, 85%
CMY	0.9996, 0.2823, 0.1530
CMYK	1.00, 0.15, 0.00, 0.15
HSL	189°, 100%, 42%
HSV	189°, 100%, 85%
XYZ	29.3272, 38.8248, 70.9053
YIQ	132.0450, -119.6610, -28.5330

Conversions

Conversions Part 2

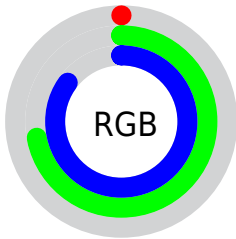
Format	Color
RYB	0, 99, 216
Decimal	47064
CIELab	68.62, -26.89, -27.45
CIELCh	69, 38.428, 225.591
Yxy	38.8248, 0.2109, 0.2792
Android (android.graphics.Color)	4278237144 (0xFF00B7D8)
YUV	132.0450, 41.3898, -115.8035
Hunter-Lab	62.3095, -25.0273, -23.8525

Details

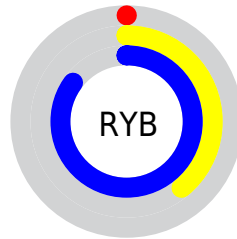
The Yxy color **38.8248, 0.2109, 0.2792** is a dark color, and the websafe version is hex **00CCFF**. The color can be described as middle washed azure. A complement of this color would be **15.6894, 0.6266, 0.3406**, and the grayscale version is **22.9825, 0.3127, 0.3290**.

A 20% lighter version of the original color is **71.9563, 0.2356, 0.3097**, and **18.5385, 0.2074, 0.2668** is the 20% darker color. If you saturate the color by 10%, you get **38.8198, 0.2109, 0.2792**, and if you desaturate by 10%, it is **40.3700, 0.2139, 0.2846**.

Distribution



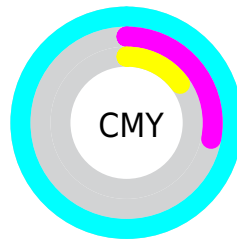
- Red (0%)
- Green (72%)
- Blue (85%)



- Red (0%)
- Yellow (39%)
- Blue (85%)



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





- Cyan (100%)
- Magenta (28%)
- Yellow (15%)

Brightness & Saturation Gradients


These gradients show how the Yxy color 38.8248, 0.2109, 0.2792 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 38.8248, 0.2109, 0.2792 by changing the saturation by 10% instead.

 38.8248, 0.2109,
0.2792


 38.8248, 0.2109,
0.2792


341.1450, 0.2609,
0.3061


 26.6235, 0.1990,
0.2720


 73.3706, 0.2287,
0.2894


 17.2906, 0.1840,
0.2625

 96.4838, 0.2355,
0.2931

 10.4419, 0.1649,
0.2496


 124.0032, 0.2413,
0.2962

 5.6929, 0.1399,
0.2312

 156.3130, 0.2463,
0.2988

 2.6593, 0.1066,
0.2036

 193.7977, 0.2506,
0.3010

 0.9566, 0.0429,
0.1633

236.8417, 0.2545,

 0.0000, 0.0000,

0.3029

0.0000

285.8293, 0.2578,
0.3046

■ 38.8248, 0.2109,
0.2792

■ 38.8248, 0.2109,
0.2792

■ 38.8198, 0.2109,
0.2792

■ 40.3700, 0.2139,
0.2846

■ 42.1323, 0.2184,
0.2900

■ 44.1744, 0.2248,
0.2955

■ 46.5304, 0.2332,
0.3009

■ 49.2295, 0.2434,
0.3062

■ 52.2970, 0.2552,
0.3114

■ 55.7559, 0.2683,
0.3163

■ 59.6269, 0.2825,
0.3209

■ 63.9295, 0.2974,
0.3251

Harmonies

Analogous

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



38.8248, 0.2278, 0.3304



38.8248, 0.2109, 0.2792



38.8248, 0.2178, 0.2481

Triad

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



38.8248, 0.2109, 0.2792



38.8248, 0.3544, 0.2786



38.8248, 0.3751, 0.4302

Complementary

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



38.8248, 0.2109, 0.2792



15.6894, 0.6266, 0.3406

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.



38.8248, 0.4147, 0.4037



38.8248, 0.2109, 0.2792



38.8248, 0.4040, 0.3181

Square

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



38.8248, 0.2109, 0.2792



38.8248, 0.2961, 0.2506



38.8248, 0.4264, 0.3624



38.8248, 0.3209, 0.4269

Rectangle

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



38.8248, 0.2109, 0.2792



38.8248, 0.2351, 0.2399



38.8248, 0.4264, 0.3624



38.8248, 0.3906, 0.4239

Sweetspot

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



38.8262, 0.2109, 0.2792



81.0324, 0.2679, 0.3161



49.2133, 0.2968, 0.5885



16.8718, 0.2622, 0.3141



0.0000, 0.0000, 0.0000



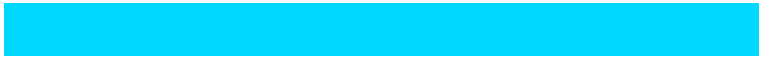
21.4041, 0.3127, 0.3290

Same Dimension

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



38.8262, 0.2109, 0.2792



56.3525, 0.2108, 0.2787



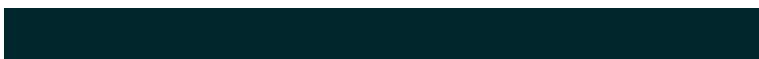
10.0795, 0.1641, 0.1106



13.7695, 0.2983, 0.3253



23.1082, 0.2111, 0.2800



1.4832, 0.2137, 0.2893

Inverse Universe

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



18.0182, 0.3642, 0.1780



26.2200, 0.3647, 0.1783



33.4779, 0.4987, 0.4422



12.5986, 0.3161, 0.3095



10.6776, 0.3635, 0.1776



0.6531, 0.3550, 0.1729

Previews

White Background



This preview shows how the Yxy color 38.8248, 0.2109, 0.2792 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 38.8248, 0.2109, 0.2792 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

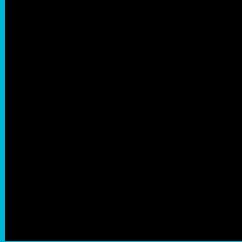
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

Yxy 38.8248, 0.2109, 0.2792

Background



This preview shows how black text looks on a background with the Yxy color 38.8248, 0.2109, 0.2792.



This preview shows how white text looks on a background with the Yxy color 38.8248, 0.2109, 0.2792.

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

38.8248, 0.2109, 0.2792

Protanopia

38.4912, 0.2763, 0.2774

Deuteranopia

38.4905, 0.2607, 0.2551



Tritanopia

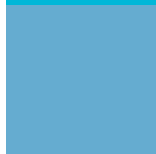
38.8681, 0.2181, 0.3053

Trichromacy



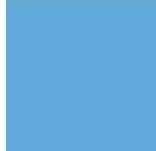
Original Color

38.8248, 0.2109, 0.2792



Protanomaly

36.8258, 0.2361, 0.2759



Deuteranomaly

36.7817, 0.2282, 0.2600



Tritanomaly

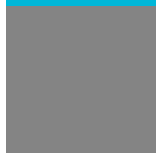
38.7372, 0.2152, 0.2948

Monochromacy



Original Color

38.8248, 0.2109, 0.2792



Achromatopsia

23.0740, 0.3127, 0.3290



Achromatomaly

26.6624, 0.2462, 0.3076

CSS Examples

Text

The CSS property to change the color of the text to Yxy 38.8248, 0.2109, 0.2792 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, 183, 216)` looks like.

```
.text, #text, p{  
    color:rgb(0, 183, 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(0, 183, 216) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(0, 183, 216) }
```

Border

The CSS property to change the border of an element to Yxy 38.8248, 0.2109, 0.2792 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, 183, 216) }
```

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

```
.border{ border-color:rgb(0, 183, 216) }
```

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

Here you see how a box with a 4 pixel `rgb(0, 183, 216)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(0, 183, 216); -webkit-box-  
shadow:4px 4px 4px 4px rgb(0, 183, 216);  
box-shadow:4px 4px 4px 4px rgb(0, 183,  
216) }
```


Background

The CSS property to change the background color of an element to Yxy 38.8248, 0.2109, 0.2792 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(0, 183, 216) }
```

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

```
.background{ background-color: rgb(0, 183,  
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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