

# Converting Colors

$Y_{xy}(37.6345, 0.1946, 0.3231)$

Have a look what the booklet for  
Yxy(37.6345, 0.1946, 0.3231)  
contains.

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# Color

**Yxy(40.2010, 0.2233, 0.3240)**

# Conversions

## Conversions Part 1

| Format      | Color                         |
|-------------|-------------------------------|
| Hex         | 00BDC0                        |
| RGB         | 0, 189, 192                   |
| RGB Percent | 0%, 74%, 75%                  |
| CMY         | 1.0000, 0.2588, 0.2470        |
| CMYK        | 1.00, 0.02, 0.00, 0.25        |
| HSL         | 181°, 100%, 38%               |
| HSV         | 181°, 100%, 75%               |
| XYZ         | 27.7064, 40.2010, 56.1697     |
| YIQ         | 132.8310, -113.6070, -39.1350 |

# Conversions

## Conversions Part 2

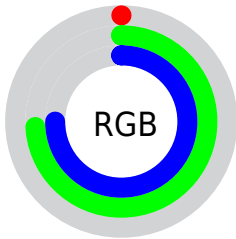
| <b>Format</b>                       | <b>Color</b>   |
|-------------------------------------|--|
| <a href="#">RYB</a>                 | <a href="#">0, 95, 192</a>                                   |
| Decimal                             | <a href="#">48576</a>  |
| CIELab                              | <a href="#">69.61, -37.49, -12.79</a>                        |
| CIELCh                              | <a href="#">70, 39.616, 198.842</a>                          |
| Yxy                                 | <a href="#">40.2010, 0.2233, 0.3240</a>                      |
| Android<br>(android.graphics.Color) | <a href="#">4278238656</a><br>( <a href="#">0xFF00BDC0</a> ) |
| YUV                                 | <a href="#">132.8310, 29.1703, -116.4928</a>                 |
| Hunter-Lab                          | <a href="#">63.4043, -32.9564, -8.1419</a>                   |

# Details

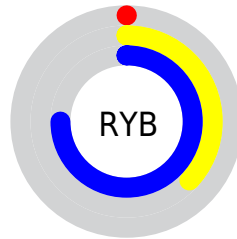
The Yxy color **40.2010, 0.2233, 0.3240** is a dark color, and the websafe version is hex **33CCCC**. The color can be described as dark washed azure. A complement of this color would be **11.2719, 0.6390, 0.3308**, and the grayscale version is **23.3165, 0.3127, 0.3290**.

A 20% lighter version of the original color is **75.5136, 0.2394, 0.3264**, and **19.1920, 0.2223, 0.3202** is the 20% darker color. If you saturate the color by 10%, you get **40.2063, 0.2233, 0.3240**, and if you desaturate by 10%, it is **40.4756, 0.2249, 0.3245**.

# Distribution



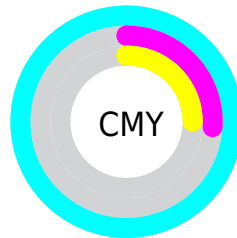
- Red (0%)
- Green (74%)
- Blue (75%)



- Red (0%)
- Yellow (37%)
- Blue (75%)



- Cyan (100%)
- Magenta (2%)
- Yellow (0%)
- Black (25%)




- Cyan (100%)
- Magenta (26%)
- Yellow (25%)

# Brightness & Saturation Gradients

These gradients show how the Yxy color 40.2010, 0.2233, 0.3240 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 40.2010, 0.2233, 0.3240 by changing the saturation by 10% instead.





 40.2010, 0.2233,  
0.3240


 40.2010, 0.2233,  
0.3240


346.9700, 0.2677,  
0.3280


 27.6953, 0.2125,  
0.3225


 75.4695, 0.2393,  
0.3258


 18.0961, 0.1987,  
0.3203


 99.0011, 0.2453,  
0.3264


 11.0190, 0.1808,  
0.3169


 126.9767, 0.2505,  
0.3268

 6.0796, 0.1567,  
0.3110

 159.7809, 0.2549,  
0.3272

 2.8936, 0.1231,  
0.3002

 197.7979, 0.2587,  
0.3274

 1.0764, 0.0261,  
0.2919

241.4121, 0.2621,

 0.0000, 0.0000,

0.3277

0.0000

291.0080, 0.2650,  
0.3278

■ 40.2010, 0.2233,  
0.3240

■ 40.2010, 0.2233,  
0.3240

■ 40.2063, 0.2233,  
0.3240

■ 40.4756, 0.2249,  
0.3245

■ 40.8840, 0.2278,  
0.3250

■ 41.4812, 0.2325,  
0.3255

■ 42.2928, 0.2391,  
0.3261

■ 43.3401, 0.2476,  
0.3266

■ 44.6419, 0.2579,  
0.3271

■ 46.2153, 0.2698,  
0.3276

■ 48.0756, 0.2831,  
0.3281

■ 50.2373, 0.2975,  
0.3286

# Harmonies

## Analogous

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



40.2010, 0.2609, 0.3834



40.2010, 0.2233, 0.3240



40.2010, 0.2088, 0.2737

# Triad

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



40.2010, 0.2233, 0.3240



40.2010, 0.3020, 0.2516



40.2010, 0.4133, 0.4088

# Complementary

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



40.2010, 0.2233, 0.3240



11.2719, 0.6390, 0.3308

# 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.



40.2010, 0.4289, 0.3677



40.2010, 0.2233, 0.3240



40.2010, 0.3615, 0.2816

# Square

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



40.2010, 0.2233, 0.3240



40.2010, 0.2507, 0.2381



40.2010, 0.4099, 0.3226



40.2010, 0.3706, 0.4335



# Rectangle

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



40.2010, 0.2233, 0.3240



40.2010, 0.2125, 0.2517



40.2010, 0.4099, 0.3226



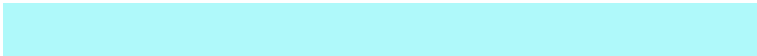
40.2010, 0.4220, 0.3962

# Sweetspot

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



40.2063, 0.2233, 0.3240



83.5875, 0.2692, 0.3276



37.7008, 0.3000, 0.6000



17.6613, 0.2640, 0.3274



97.7402, 0.3127, 0.3290



20.4902, 0.3127, 0.3290



# Same Dimension

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



40.2063, 0.2233, 0.3240



72.8113, 0.2233, 0.3239



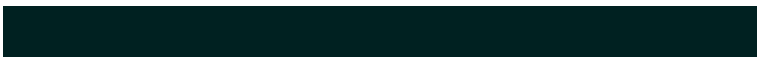
12.1720, 0.1770, 0.1573



11.4006, 0.2984, 0.3286



27.0648, 0.2234, 0.3241



1.1781, 0.2237, 0.3252



# Inverse Universe

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



14.8816, 0.3248, 0.1563



26.9597, 0.3249, 0.1564



19.5730, 0.5411, 0.4086



10.2447, 0.3140, 0.3067



10.0144, 0.3248, 0.1563

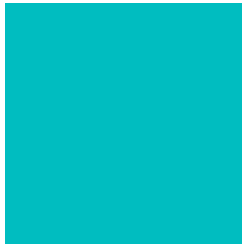


0.4336, 0.3239, 0.1558



# Previews

## White Background



This preview shows how the Yxy color 40.2010, 0.2233, 0.3240 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 40.2010, 0.2233, 0.3240 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

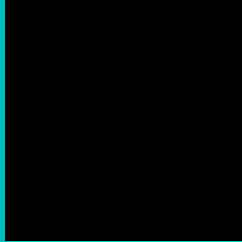
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

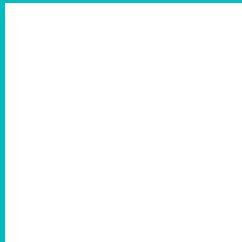
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**Yxy 40.2010, 0.2233, 0.3240**

## **Background**



This preview shows how black text looks on a background with the Yxy color 40.2010, 0.2233, 0.3240.



This preview shows how white text looks on a background with the Yxy color 40.2010, 0.2233, 0.3240.

# 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

40.2010, 0.2233, 0.3240

### Protanopia

39.6950, 0.3044, 0.3139

### Deuteranopia

39.7121, 0.2925, 0.2865



## Tritanopia

40.1438, 0.2206, 0.3042

# Trichromacy



## Original Color

40.2010, 0.2233, 0.3240



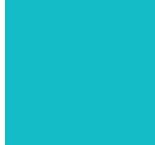
## Protanomaly

37.6995, 0.2550, 0.3166



## Deuteranomaly

37.4634, 0.2484, 0.2974



## Tritanomaly

40.2387, 0.2214, 0.3117

# Monochromacy



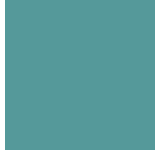
## Original Color

40.2010, 0.2233, 0.3240



## Achromatopsia

23.4551, 0.3127, 0.3290



## Achromatomaly

27.0469, 0.2536, 0.3270

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 40.2010, 0.2233, 0.3240 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, 189, 192)` looks like.

```
.text, #text, p{  
    color:rgb(0, 189, 192)  
}
```

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, 189, 192) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(0, 189, 192) }
```

## Border

The CSS property to change the border of an element to Yxy 40.2010, 0.2233, 0.3240 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, 189, 192) }
```

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

```
.border{ border-color:rgb(0, 189, 192) }
```

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

Here you see how a box with a 4 pixel `rgb(0, 189, 192)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(0, 189, 192); -webkit-box-  
shadow:4px 4px 4px 4px rgb(0, 189, 192);  
box-shadow:4px 4px 4px 4px rgb(0, 189,  
192) }
```



# Background

The CSS property to change the background color of an element to Yxy 40.2010, 0.2233, 0.3240 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(0, 189, 192) }
```

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

```
.background{ background-color: rgb(0, 189,  
192) }
```

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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