

# Converting Colors

$Y_{xy}(37.4381, 0.2414, 0.3890)$

Have a look what the booklet for  
Yxy(37.4381, 0.2414, 0.3890)  
contains.

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# Color

**Yxy(37.3848, 0.2412, 0.3882)**

# Conversions

## Conversions Part 1

Format	Color
Hex	00BA98
RGB	0, 186, 152
RGB Percent	0%, 73%, 60%
CMY	0.9986, 0.2706, 0.4040
CMYK	1.00, 0.00, 0.18, 0.27
HSL	169°, 100%, 37%
HSV	169°, 100%, 73%
XYZ	23.2283, 37.3848, 35.6899
YIQ	126.5100, -99.9420, -50.0060

# Conversions

## Conversions Part 2

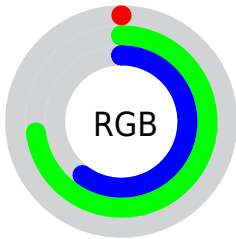
<b>Format</b>	<b>Color</b>
<b>RYB</b>	0, 102, 186
Decimal	47768
CIELab	67.56, -47.59, 6.18
CIELCh	68, 47.987, 172.602
Yxy	37.3848, 0.2412, 0.3882
Android (android.graphics.Color)	4278237848 (0xFF00BA98)
YUV	126.5100, 12.5666, -110.9493
Hunter-Lab	61.1431, -39.1883, 8.1920

# Details

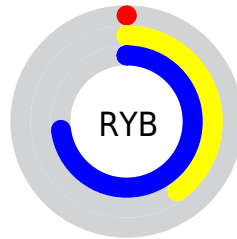
The Yxy color **37.3848, 0.2412, 0.3882** is a dark color, and the websafe version is hex **33CC99**. A complement of this color would be **10.5642, 0.6114, 0.3143**, and the grayscale version is **21.0656, 0.3127, 0.3290**.

A 20% lighter version of the original color is **71.1541, 0.2552, 0.3765**, and **17.4421, 0.2456, 0.4041** is the 20% darker color. If you saturate the color by 10%, you get **37.3819, 0.2412, 0.3883**, and if you desaturate by 10%, it is **37.6352, 0.2411, 0.3817**.

# Distribution



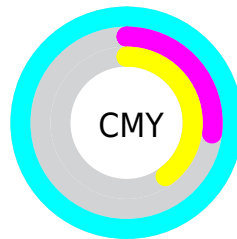
- Red (0%)
- Green (73%)
- Blue (60%)



- Red (0%)
- Yellow (40%)
- Blue (73%)



- Cyan (100%)
- Magenta (0%)
- Yellow (18%)
- Black (27%)




- Cyan (100%)
- Magenta (27%)
- Yellow (40%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 37.3848, 0.2412, 0.3882 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 37.3848, 0.2412, 0.3882 by changing the saturation by 10% instead.





 37.3848, 0.2412,  
0.3882


 37.3848, 0.2412,  
0.3882


334.9735, 0.2784,  
0.3567

 25.5056, 0.2315,  
0.3967


 71.1642, 0.2550,  
0.3763


 16.4541, 0.2188,  
0.4080


 93.8332, 0.2601,  
0.3720


 9.8461, 0.2015,  
0.4237


 120.8675, 0.2644,  
0.3684

 5.2970, 0.1768,  
0.4470

 152.6516, 0.2681,  
0.3653

 2.4226, 0.1376,  
0.4856

 189.5699, 0.2712,  
0.3627

 0.8375, 0.0000,  
0.6357

 232.0067, 0.2739,

 0.0000, 0.0000,

0.3605

0.0000

280.3464, 0.2763,  
0.3585

■ 37.3848, 0.2412,  
0.3882

■ 37.3848, 0.2412,  
0.3882

■ 37.3819, 0.2412,  
0.3883

■ 37.6352, 0.2411,  
0.3817

■ 38.0173, 0.2425,  
0.3751

■ 38.5786, 0.2459,  
0.3685

■ 39.3424, 0.2511,  
0.3620

■ 40.3285, 0.2582,  
0.3557

■ 41.5542, 0.2669,  
0.3496

■ 43.0352, 0.2770,  
0.3438

■ 44.7859, 0.2882,  
0.3384

■ 46.8195, 0.3003,  
0.3334

# Harmonies

## Analogous

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



37.3848, 0.3044, 0.4480



37.3848, 0.2412, 0.3882



37.3848, 0.2001, 0.3121

# Triad

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



37.3848, 0.2412, 0.3882



37.3848, 0.2433, 0.2204



37.3848, 0.4558, 0.3797

# Complementary

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



37.3848, 0.2412, 0.3882



10.5642, 0.6114, 0.3143

# 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.



37.3848, 0.4387, 0.3259



37.3848, 0.2412, 0.3882



37.3848, 0.3077, 0.2394

# Square

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



37.3848, 0.2412, 0.3882



37.3848, 0.2021, 0.2239



37.3848, 0.3816, 0.2767



37.3848, 0.4298, 0.4297



# Rectangle

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



37.3848, 0.2412, 0.3882



37.3848, 0.1884, 0.2702



37.3848, 0.3816, 0.2767



37.3848, 0.4552, 0.3617

# Sweetspot

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



37.3862, 0.2412, 0.3882



77.8054, 0.2762, 0.3442



35.4650, 0.3060, 0.5951



16.8738, 0.2718, 0.3466



95.5105, 0.3127, 0.3290



19.5994, 0.3127, 0.3290



# Same Dimension

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



37.3862, 0.2412, 0.3882



67.7241, 0.2415, 0.3894



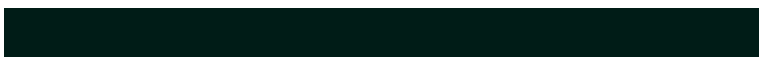
18.7806, 0.1951, 0.2223



10.1816, 0.3009, 0.3332



25.1598, 0.2410, 0.3875



0.8944, 0.2363, 0.3706



# Inverse Universe

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



10.5642, 0.6114, 0.3143



19.1063, 0.6151, 0.3162



13.5821, 0.5916, 0.3682



9.0384, 0.3260, 0.3248



7.1094, 0.6091, 0.3129

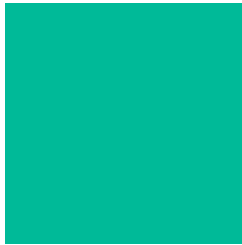


0.2588, 0.5420, 0.2760



# Previews

## White Background



This preview shows how the Yxy color 37.3848, 0.2412, 0.3882 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 37.3848, 0.2412, 0.3882 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

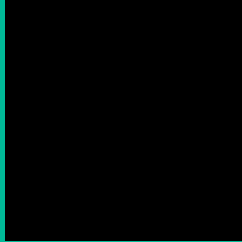
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**Yxy 37.3848, 0.2412, 0.3882**

## **Background**



This preview shows how black text looks on a background with the Yxy color 37.3848, 0.2412, 0.3882.



This preview shows how white text looks on a background with the Yxy color 37.3848, 0.2412, 0.3882.

# 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

37.3848, 0.2412, 0.3882

### Protanopia

36.8585, 0.3423, 0.3621

### Deuteranopia

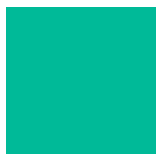
36.7461, 0.3354, 0.3291



## Tritanopia

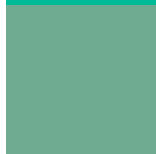
37.3949, 0.2265, 0.3052

# Trichromacy



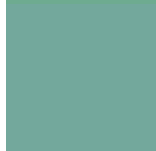
## Original Color

37.3848, 0.2412, 0.3882



## Protanomaly

34.4544, 0.2825, 0.3739



## Deuteranomaly

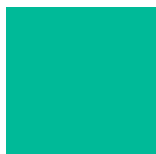
34.0504, 0.2770, 0.3484



## Tritanomaly

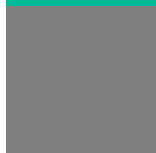
37.0679, 0.2301, 0.3337

# Monochromacy



## Original Color

37.3848, 0.2412, 0.3882



## Achromatopsia

21.2231, 0.3127, 0.3290



## Achromatomaly

24.7067, 0.2624, 0.3518

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 37.3848, 0.2412, 0.3882 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, 186, 152)` looks like.

```
.text, #text, p{  
    color:rgb(0, 186, 152)  
}
```

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, 186, 152) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(0, 186, 152) }
```

## Border

The CSS property to change the border of an element to Yxy 37.3848, 0.2412, 0.3882 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, 186, 152) }
```

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

```
.border{ border-color:rgb(0, 186, 152) }
```

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

Here you see how a box with a 4 pixel `rgb(0, 186, 152)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(0, 186, 152); -webkit-box-  
shadow:4px 4px 4px 4px rgb(0, 186, 152);  
box-shadow:4px 4px 4px 4px rgb(0, 186,  
152) }
```



# Background

The CSS property to change the background color of an element to Yxy 37.3848, 0.2412, 0.3882 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(0, 186, 152) }
```

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

```
.background{ background-color: rgb(0, 186,  
152) }
```

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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