

# Converting Colors

$Y_{xy}(37.4190, 0.2407, 0.3866)$

Have a look what the booklet for  
Yxy(37.4190, 0.2407, 0.3866)  
contains.

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# Color

**Yxy(37.4177, 0.2406, 0.3863)**

# Conversions

## Conversions Part 1

Format	Color
Hex	00BA99
RGB	0, 186, 153
RGB Percent	0%, 73%, 60%
CMY	1.0000, 0.2706, 0.3999
CMYK	1.00, 0.00, 0.18, 0.27
HSL	169°, 100%, 36%
HSV	169°, 100%, 73%
XYZ	23.3049, 37.4177, 36.1391
YIQ	126.6240, -100.2630, -49.6950

# Conversions

## Conversions Part 2

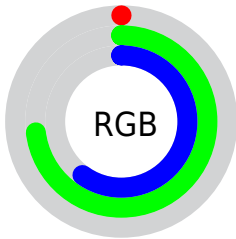
Format	Color
<b>RYB</b>	0, 102, 186
Decimal	47769
CIELab	67.59, -47.35, 5.65
CIElCh	68, 47.685, 173.201
Yxy	37.4177, 0.2406, 0.3863
Android (android.graphics.Color)	4278237849 (0xFF00BA99)
YUV	126.6240, 13.0034, -111.0492
Hunter-Lab	61.1700, -39.0414, 7.7906

# Details

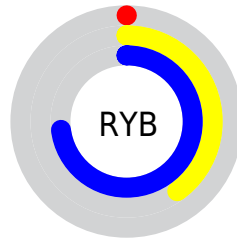
The Yxy color **37.4177, 0.2406, 0.3863** is a dark color, and the websafe version is hex **33CC99**. A complement of this color would be **10.5501, 0.6133, 0.3152**, and the grayscale version is **21.0709, 0.3127, 0.3290**.

A 20% lighter version of the original color is **71.2028, 0.2548, 0.3752**, and **17.4618, 0.2449, 0.4015** is the 20% darker color. If you saturate the color by 10%, you get **37.4224, 0.2406, 0.3863**, and if you desaturate by 10%, it is **37.6674, 0.2406, 0.3800**.

# Distribution



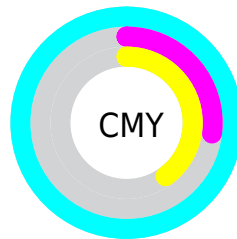
- Red (0%)
- Green (73%)
- Blue (60%)



- 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 37.4177, 0.2406, 0.3863 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 37.4177, 0.2406, 0.3863 by changing the saturation by 10% instead.





 37.4177, 0.2406,  
0.3863


 37.4177, 0.2406,  
0.3863


335.1154, 0.2781,  
0.3559


 25.5311, 0.2308,  
0.3945


 71.2147, 0.2545,  
0.3748

 16.4732, 0.2181,  
0.4053


 93.8939, 0.2597,  
0.3707


 9.8596, 0.2008,  
0.4204


 120.9394, 0.2640,  
0.3672

 5.3060, 0.1761,  
0.4426

 152.7357, 0.2676,  
0.3642

 2.4279, 0.1372,  
0.4792

 189.6670, 0.2708,  
0.3617

 0.8402, 0.0000,  
0.6176

 232.1178, 0.2735,

 0.0000, 0.0000,

0.3595

0.0000

280.4724, 0.2759,  
0.3576

■ 37.4177, 0.2406,  
0.3863

■ 37.4177, 0.2406,  
0.3863

■ 37.4224, 0.2406,  
0.3863

■ 37.6674, 0.2406,  
0.3800

■ 38.0436, 0.2420,  
0.3737

■ 38.5983, 0.2454,  
0.3673

■ 39.3549, 0.2506,  
0.3610

■ 40.3332, 0.2577,  
0.3549

■ 41.5507, 0.2664,  
0.3490

■ 43.0231, 0.2765,  
0.3434

■ 44.7647, 0.2878,  
0.3382

■ 46.7888, 0.3000,  
0.3334

# Harmonies

## Analogous

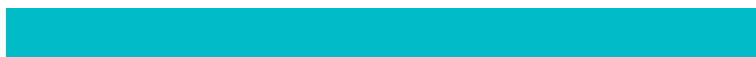
The Analogous color harmony consists of three colors that are next to each other on the color wheel.



37.4177, 0.3031, 0.4463



37.4177, 0.2406, 0.3863



37.4177, 0.2002, 0.3109

# Triad

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



37.4177, 0.2406, 0.3863



37.4177, 0.2448, 0.2211



37.4177, 0.4548, 0.3806

# Complementary

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



37.4177, 0.2406, 0.3863



10.5501, 0.6133, 0.3152

# 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.



37.4177, 0.4387, 0.3271



37.4177, 0.2406, 0.3863



37.4177, 0.3092, 0.2405

# Square

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



37.4177, 0.2406, 0.3863



37.4177, 0.2033, 0.2242



37.4177, 0.3826, 0.2779



37.4177, 0.4282, 0.4300



# Rectangle

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



37.4177, 0.2406, 0.3863



37.4177, 0.1890, 0.2695



37.4177, 0.3826, 0.2779



37.4177, 0.4545, 0.3627

# Sweetspot

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



37.4224, 0.2406, 0.3863



77.8293, 0.2760, 0.3437



35.4637, 0.3059, 0.5953



16.8797, 0.2716, 0.3460



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.



37.4224, 0.2406, 0.3863



67.7900, 0.2409, 0.3873



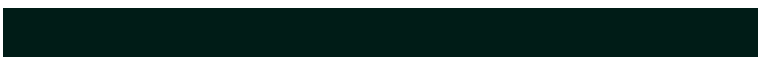
18.7519, 0.1950, 0.2221



10.1826, 0.3008, 0.3331



25.1837, 0.2404, 0.3855



0.8950, 0.2359, 0.3692



# Inverse Universe

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



10.5501, 0.6133, 0.3152



19.0957, 0.6165, 0.3170



13.5583, 0.5921, 0.3681



9.0375, 0.3261, 0.3250



7.1050, 0.6106, 0.3137

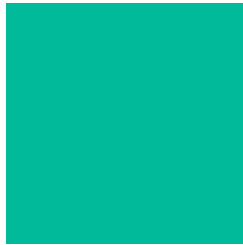


0.2585, 0.5445, 0.2773



# Previews

## White Background



This preview shows how the Yxy color 37.4177, 0.2406, 0.3863 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

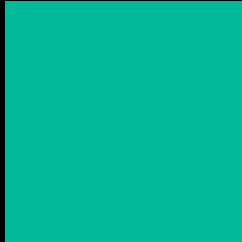
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 37.4177, 0.2406, 0.3863 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

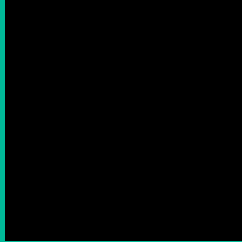
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**Yxy 37.4177, 0.2406, 0.3863**

## **Background**



This preview shows how black text looks on a background with the Yxy color 37.4177, 0.2406, 0.3863.

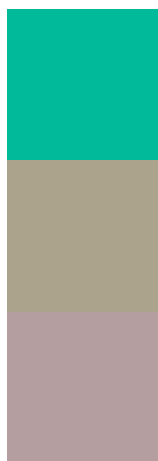


This preview shows how white text looks on a background with the Yxy color 37.4177, 0.2406, 0.3863.

# 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

37.4177, 0.2406, 0.3863

### Protanopia

36.8881, 0.3414, 0.3606

### Deuteranopia

36.7807, 0.3345, 0.3277



## **Tritanopia**

37.3669, 0.2262, 0.3052

# Trichromacy



## Original Color

37.4177, 0.2406, 0.3863



## Protanomaly

34.4214, 0.2810, 0.3723



## Deuteranomaly

34.0844, 0.2763, 0.3468



## Tritanomaly

37.0913, 0.2294, 0.3320

# Monochromacy



## Original Color

37.4177, 0.2406, 0.3863



## 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 37.4177, 0.2406, 0.3863 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, 153)` looks like.

```
.text, #text, p{  
    color:rgb(0, 186, 153)  
}
```

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, 153) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(0, 186, 153) }
```

## Border

The CSS property to change the border of an element to Yxy 37.4177, 0.2406, 0.3863 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, 153) }
```

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

```
.border{ border-color:rgb(0, 186, 153) }
```

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, 153) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(0, 186, 153); -webkit-box-  
shadow:4px 4px 4px 4px rgb(0, 186, 153);  
box-shadow:4px 4px 4px 4px rgb(0, 186,  
153) }
```



# Background

The CSS property to change the background color of an element to Yxy 37.4177, 0.2406, 0.3863 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, 153) }
```

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

```
.background{ background-color: rgb(0, 186,  
153) }
```

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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