

# Converting Colors

$Y_{xy}(33.0086, 0.2489, 0.4218)$

Have a look what the booklet for  
Yxy(33.0086, 0.2489, 0.4218)  
contains.

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# Color

**Yxy(33.0028, 0.2503, 0.4211)**

# Conversions

## Conversions Part 1

Format	Color
Hex	00B180
RGB	0, 177, 128
RGB Percent	0%, 69%, 50%
CMY	1.0000, 0.3059, 0.4981
CMYK	1.00, 0.00, 0.28, 0.31
HSL	163°, 100%, 35%
HSV	163°, 100%, 69%
XYZ	19.6167, 33.0028, 25.7533
YIQ	118.4910, -89.7630, -52.7630

# Conversions

## Conversions Part 2

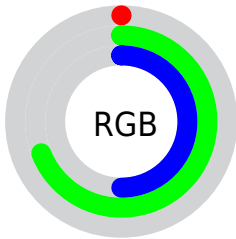
<b>Format</b>	<b>Color</b>
<b>RYB</b>	0, 103, 177
Decimal	45440
CIELab	64.16, -50.05, 14.53
CIELCh	64, 52.113, 163.815
Yxy	33.0028, 0.2503, 0.4211
Android (android.graphics.Color)	4278235520 (0xFF00B180)
YUV	118.4910, 4.6879, -103.9166
Hunter-Lab	57.4481, -39.5819, 13.6346

# Details

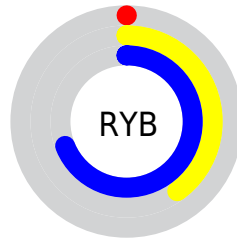
The Yxy color **33.0028, 0.2503, 0.4211** is a dark color, and the websafe version is hex **009966**. A complement of this color would be **9.5697, 0.5835, 0.2988**, and the grayscale version is **18.2854, 0.3127, 0.3290**.

A 20% lighter version of the original color is **64.5615, 0.2634, 0.4013**, and **14.7304, 0.2573, 0.4461** is the 20% darker color. If you saturate the color by 10%, you get **33.0046, 0.2503, 0.4211**, and if you desaturate by 10%, it is **33.2626, 0.2494, 0.4108**.

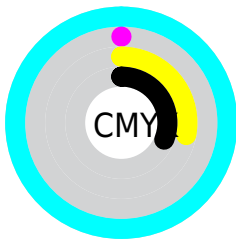
# Distribution



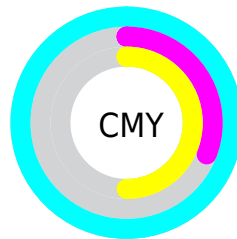
- Red (0%)
- Green (69%)
- Blue (50%)



- Red (0%)
- Yellow (40%)
- Blue (69%)



- Cyan (100%)
- Magenta (0%)
- Yellow (28%)
- Black (31%)




- Cyan (100%)
- Magenta (31%)
- Yellow (50%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 33.0028, 0.2503, 0.4211 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 33.0028, 0.2503, 0.4211 by changing the saturation by 10% instead.





 33.0028, 0.2503,  
0.4211


 33.0028, 0.2503,  
0.4211


315.6623, 0.2844,  
0.3698


 22.1286, 0.2408,  
0.4359


 64.3799, 0.2634,  
0.4011


 13.9514, 0.2279,  
0.4562


 85.6516, 0.2681,  
0.3940


 8.0869, 0.2096,  
0.4858


 111.1579, 0.2720,  
0.3882

 4.1506, 0.1818,  
0.5323

 141.2832, 0.2753,  
0.3833

 1.7582, 0.0988,  
0.6468

 176.4119, 0.2780,  
0.3792

 0.4609, 0.0000,  
1.0000

 216.9284, 0.2804,

 0.0000, 0.0000,

0.3756

0.0000

263.2171, 0.2825,  
0.3725

■ 33.0028, 0.2503,  
0.4211

■ 33.0028, 0.2503,  
0.4211

■ 33.0046, 0.2503,  
0.4211

■ 33.2626, 0.2494,  
0.4108

■ 33.6398, 0.2500,  
0.4005

■ 34.1800, 0.2526,  
0.3902

■ 34.9039, 0.2571,  
0.3799

■ 35.8291, 0.2634,  
0.3700

■ 36.9711, 0.2713,  
0.3606

■ 38.3437, 0.2804,  
0.3517

■ 39.9598, 0.2905,  
0.3434

■ 41.8312, 0.3014,  
0.3359

# Harmonies

## Analogous

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



33.0028, 0.3247, 0.4756



33.0028, 0.2503, 0.4211



33.0028, 0.1969, 0.3332

# Triad

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



33.0028, 0.2503, 0.4211



33.0028, 0.2187, 0.2069



33.0028, 0.4738, 0.3656

# Complementary

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



33.0028, 0.2503, 0.4211



9.5697, 0.5835, 0.2988

# 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.



33.0028, 0.4403, 0.3074



33.0028, 0.2503, 0.4211



33.0028, 0.2832, 0.2212

# Square

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



33.0028, 0.2503, 0.4211



33.0028, 0.1822, 0.2180



33.0028, 0.3661, 0.2567



33.0028, 0.4561, 0.4241



# Rectangle

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



33.0028, 0.2503, 0.4211



33.0028, 0.1785, 0.2806



33.0028, 0.3661, 0.2567



33.0028, 0.4684, 0.3458

# Sweetspot

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



33.0046, 0.2503, 0.4211



68.5312, 0.2799, 0.3521



32.1284, 0.3129, 0.5898



14.6238, 0.2760, 0.3557



89.0005, 0.3127, 0.3290



17.0645, 0.3127, 0.3290



# Same Dimension

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



33.0046, 0.2503, 0.4211



59.0669, 0.2508, 0.4228



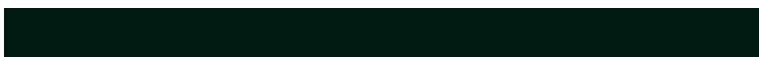
21.5398, 0.2050, 0.2579



9.5906, 0.3021, 0.3354



23.9220, 0.2500, 0.4200



0.7620, 0.2421, 0.3914



# Inverse Universe

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



9.5697, 0.5835, 0.2988



17.1055, 0.5876, 0.3011



10.7566, 0.6140, 0.3506



8.5427, 0.3245, 0.3227



6.9421, 0.5807, 0.2973



0.2286, 0.5002, 0.2529



# Previews

## White Background



This preview shows how the Yxy color 33.0028, 0.2503, 0.4211 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 33.0028, 0.2503, 0.4211 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 33.0028, 0.2503, 0.4211**

## Background



This preview shows how black text looks on a background with the Yxy color 33.0028, 0.2503, 0.4211.



This preview shows how white text looks on a background with the Yxy color 33.0028, 0.2503, 0.4211.

# 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

33.0028, 0.2503, 0.4211

### Protanopia

32.3949, 0.3598, 0.3849

### Deuteranopia

32.5632, 0.3574, 0.3508



## Tritanopia

33.1097, 0.2287, 0.3057

# Trichromacy



## Original Color

33.0028, 0.2503, 0.4211



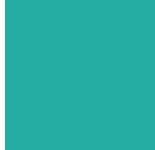
## Protanomaly

30.2244, 0.2953, 0.4021



## Deuteranomaly

29.9729, 0.2932, 0.3759



## Tritanomaly

32.9608, 0.2342, 0.3445

# Monochromacy



## Original Color

33.0028, 0.2503, 0.4211



## Achromatopsia

18.1164, 0.3127, 0.3290



## Achromatomaly

21.3662, 0.2664, 0.3638

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 33.0028, 0.2503, 0.4211 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, 177, 128)` looks like.

```
.text, #text, p{  
    color:rgb(0, 177, 128)  
}
```

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, 177, 128) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(0, 177, 128) }
```

## Border

The CSS property to change the border of an element to Yxy 33.0028, 0.2503, 0.4211 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, 177, 128) }
```

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

```
.border{ border-color:rgb(0, 177, 128) }
```

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

Here you see how a box with a 4 pixel rgb(0, 177, 128) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(0, 177, 128); -webkit-box-  
shadow:4px 4px 4px 4px rgb(0, 177, 128);  
box-shadow:4px 4px 4px 4px rgb(0, 177,  
128) }
```



# Background

The CSS property to change the background color of an element to Yxy 33.0028, 0.2503, 0.4211 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(0, 177, 128) }
```

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

```
.background{ background-color: rgb(0, 177,  
128) }
```

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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