

# Converting Colors

$Y_{xy}(31.6509, 0.2477, 0.4116)$

Have a look what the booklet for  
Yxy(31.6509, 0.2477, 0.4116)  
contains.

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# Color

**Yxy(31.4988, 0.2475, 0.4108)**

# Conversions

## Conversions Part 1

Format	Color
Hex	00AD82
RGB	0, 173, 130
RGB Percent	0%, 68%, 51%
CMY	0.9981, 0.3216, 0.4902
CMYK	1.00, 0.00, 0.25, 0.32
HSL	165°, 99%, 34%
HSV	165°, 100%, 68%
XYZ	18.9775, 31.4988, 26.2004
YIQ	116.3710, -89.3050, -50.0490

# Conversions

## Conversions Part 2

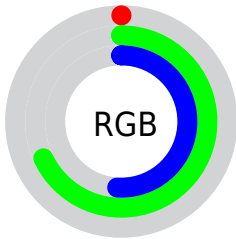
<b>Format</b>	<b>Color</b>
<b>RYB</b>	0, 99, 173
Decimal	44418
CIELab	62.93, -47.96, 11.68
CIELCh	63, 49.364, 166.311
Yxy	31.4988, 0.2475, 0.4108
Android (android.graphics.Color)	4278234498 (0xFF00AD82)
YUV	116.3710, 6.7191, -102.0574
Hunter-Lab	56.1238, -37.8593, 11.6081

# Details

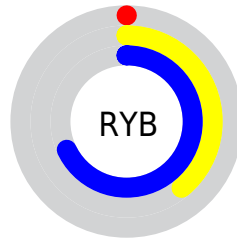
The Yxy color **31.4988, 0.2475, 0.4108** is a dark color, and the websafe version is hex **009966**. A complement of this color would be **9.0723, 0.5913, 0.3034**, and the grayscale version is **17.6313, 0.3127, 0.3290**.

A 20% lighter version of the original color is **61.7847, 0.2610, 0.3925**, and **13.7877, 0.2534, 0.4324** is the 20% darker color. If you saturate the color by 10%, you get **31.4936, 0.2475, 0.4111**, and if you desaturate by 10%, it is **31.7417, 0.2469, 0.4017**.

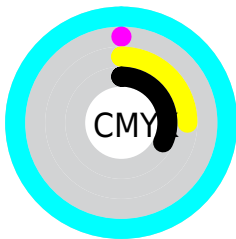
# Distribution



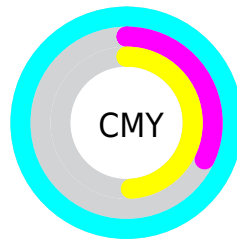
- Red (0%)
- Green (68%)
- Blue (51%)



- Red (0%)
- Yellow (39%)
- Blue (68%)



- Cyan (100%)
- Magenta (0%)
- Yellow (25%)
- Black (32%)




- Cyan (100%)
- Magenta (32%)
- Yellow (49%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 31.4988, 0.2475, 0.4108 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 31.4988, 0.2475, 0.4108 by changing the saturation by 10% instead.





 31.4988, 0.2475,  
0.4108


 31.4988, 0.2475,  
0.4108


 308.8297, 0.2830,  
0.3653


 20.9790, 0.2376,  
0.4240


 62.0245, 0.2611,  
0.3930


 13.1086, 0.2243,  
0.4421


 82.7992, 0.2660,  
0.3867


 7.5034, 0.2053,  
0.4685


 107.7610, 0.2701,  
0.3815

 3.7789, 0.1767,  
0.5103

 137.2942, 0.2735,  
0.3772

 1.5506, 0.0763,  
0.6249

 171.7833, 0.2764,  
0.3735

 0.3240, 0.0000,  
1.0000

 211.6127, 0.2789,

 0.0000, 0.0000,

0.3704

0.0000

257.1667, 0.2811,  
0.3677

■ 31.4988, 0.2475,  
0.4108

■ 31.4988, 0.2475,  
0.4108

■ 31.4936, 0.2475,  
0.4111

■ 31.7417, 0.2469,  
0.4017

■ 32.0971, 0.2479,  
0.3925

■ 32.6068, 0.2508,  
0.3833

■ 33.2901, 0.2555,  
0.3742

■ 34.1634, 0.2621,  
0.3654

■ 35.2414, 0.2702,  
0.3570

■ 36.5371, 0.2797,  
0.3491

■ 38.0626, 0.2902,  
0.3417

■ 39.8289, 0.3014,  
0.3350

# Harmonies

## Analogous

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



31.4988, 0.3185, 0.4673



31.4988, 0.2475, 0.4108



31.4988, 0.1979, 0.3265

# Triad

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



31.4988, 0.2475, 0.4108



31.4988, 0.2261, 0.2110



31.4988, 0.4683, 0.3700

# Complementary

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



31.4988, 0.2475, 0.4108



9.0723, 0.5913, 0.3034

# 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.



31.4988, 0.4400, 0.3131



31.4988, 0.2475, 0.4108



31.4988, 0.2906, 0.2267

# Square

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



31.4988, 0.2475, 0.4108



31.4988, 0.1881, 0.2198



31.4988, 0.3710, 0.2628



31.4988, 0.4481, 0.4260



# Rectangle

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



31.4988, 0.2475, 0.4108



31.4988, 0.1815, 0.2773



31.4988, 0.3710, 0.2628



31.4988, 0.4645, 0.3507

# Sweetspot

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



31.5000, 0.2475, 0.4108



65.2383, 0.2789, 0.3497



30.4131, 0.3105, 0.5914



13.9649, 0.2749, 0.3529



86.8899, 0.3127, 0.3290



16.2647, 0.3127, 0.3290



# Same Dimension

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



31.5000, 0.2475, 0.4108



56.3716, 0.2480, 0.4126



18.9505, 0.2019, 0.2466



9.0375, 0.3018, 0.3347



23.1479, 0.2473, 0.4101



0.6520, 0.2396, 0.3825



# Inverse Universe

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



9.0723, 0.5913, 0.3034



16.1960, 0.5962, 0.3058



10.6577, 0.6062, 0.3565



8.0469, 0.3249, 0.3234



6.6635, 0.5895, 0.3021



0.1941, 0.5052, 0.2557



# Previews

## White Background



This preview shows how the Yxy color 31.4988, 0.2475, 0.4108 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 31.4988, 0.2475, 0.4108 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

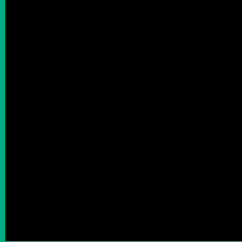
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**Yxy 31.4988, 0.2475, 0.4108**

## **Background**



This preview shows how black text looks on a background with the Yxy color 31.4988, 0.2475, 0.4108.

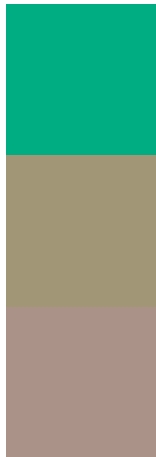


This preview shows how white text looks on a background with the Yxy color 31.4988, 0.2475, 0.4108.

# 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

31.4988, 0.2475, 0.4108

### Protanopia

31.0422, 0.3546, 0.3783

### Deuteranopia

30.9933, 0.3497, 0.3439



## Tritanopia

31.3799, 0.2280, 0.3052

# Trichromacy



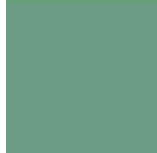
## Original Color

31.4988, 0.2475, 0.4108



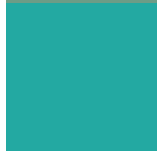
## Protanomaly

29.1099, 0.2918, 0.3939



## Deuteranomaly

28.7494, 0.2878, 0.3678



## Tritanomaly

31.3419, 0.2330, 0.3412

# Monochromacy



## Original Color

31.4988, 0.2475, 0.4108



## Achromatopsia

17.7888, 0.3127, 0.3290



## Achromatomaly

20.7923, 0.2659, 0.3599

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 31.4988, 0.2475, 0.4108 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, 173, 130)` looks like.

```
.text, #text, p{  
    color:rgb(0, 173, 130)  
}
```

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, 173, 130) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(0, 173, 130) }
```

## Border

The CSS property to change the border of an element to Yxy 31.4988, 0.2475, 0.4108 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, 173, 130) }
```

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

```
.border{ border-color:rgb(0, 173, 130) }
```

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

Here you see how a box with a 4 pixel rgb(0, 173, 130) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(0, 173, 130); -webkit-box-  
shadow:4px 4px 4px 4px rgb(0, 173, 130);  
box-shadow:4px 4px 4px 4px rgb(0, 173,  
130) }
```



# Background

The CSS property to change the background color of an element to Yxy 31.4988, 0.2475, 0.4108 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(0, 173, 130) }
```

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

```
.background{ background-color: rgb(0, 173,  
130) }
```

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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