

# Converting Colors

$Y_{xy}(31.4797, 0.2304, 0.3493)$

Have a look what the booklet for  
Yxy(31.4797, 0.2304, 0.3493)  
contains.

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# Color

**Yxy(31.6290, 0.2307, 0.3504)**

# Conversions

## Conversions Part 1

Format	Color
Hex	00AB9F
RGB	0, 171, 159
RGB Percent	0%, 67%, 62%
CMY	0.9987, 0.3294, 0.3764
CMYK	1.00, 0.00, 0.07, 0.33
HSL	176°, 100%, 34%
HSV	176°, 100%, 67%
XYZ	20.8242, 31.6290, 37.8122
YIQ	118.5030, -98.0640, -39.9840

# Conversions

## Conversions Part 2

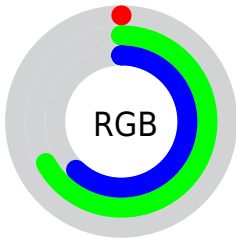
<b>Format</b>	<b>Color</b>
<b>RYB</b>	0, 89, 171
Decimal	43935
CIELab	63.04, -39.24, -4.31
CIELCh	63, 39.479, 186.270
Yxy	31.6290, 0.2307, 0.3504
Android (android.graphics.Color)	4278234015 (0xFF00AB9F)
YUV	118.5030, 19.9650, -103.9271
Hunter-Lab	56.2397, -32.3250, -0.4953

# Details

The Yxy color **31.6290, 0.2307, 0.3504** is a dark color, and the websafe version is hex **009999**. A complement of this color would be **8.6918, 0.6316, 0.3255**, and the grayscale version is **18.2734, 0.3127, 0.3290**.

A 20% lighter version of the original color is **62.2261, 0.2465, 0.3460**, and **14.0396, 0.2317, 0.3542** is the 20% darker color. If you saturate the color by 10%, you get **31.6273, 0.2307, 0.3504**, and if you desaturate by 10%, it is **31.7931, 0.2317, 0.3481**.

# Distribution



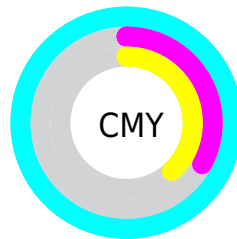
- Red (0%)
- Green (67%)
- Blue (62%)



- Red (0%)
- Yellow (35%)
- Blue (67%)



- Cyan (100%)
- Magenta (0%)
- Yellow (7%)
- Black (33%)




- Cyan (100%)
- Magenta (33%)
- Yellow (38%)

# Brightness & Saturation Gradients

These gradients show how the Yxy color 31.6290, 0.2307, 0.3504 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 31.6290, 0.2307, 0.3504 by changing the saturation by 10% instead.





 31.6290, 0.2307,  
0.3504


 31.6290, 0.2307,  
0.3504


 309.4257, 0.2735,  
0.3398

 21.0783, 0.2195,  
0.3529


 62.2290, 0.2467,  
0.3466


 13.1812, 0.2048,  
0.3561


 83.0471, 0.2526,  
0.3452


 7.5535, 0.1848,  
0.3601


 108.0565, 0.2575,  
0.3439

 3.8106, 0.1564,  
0.3649

 137.6415, 0.2617,  
0.3429

 1.5682, 0.0992,  
0.3761

 172.1865, 0.2653,  
0.3420

 0.3360, 0.0000,  
0.3349

 212.0759, 0.2684,

 0.0000, 0.0000,

0.3411

0.0000

257.6942, 0.2711,  
0.3404

■ 31.6290, 0.2307,  
0.3504

■ 31.6290, 0.2307,  
0.3504

■ 31.6273, 0.2307,  
0.3504

■ 31.7931, 0.2317,  
0.3481

■ 32.0613, 0.2341,  
0.3458

■ 32.4751, 0.2383,  
0.3434

■ 33.0532, 0.2444,  
0.3411

■ 33.8116, 0.2523,  
0.3388

■ 34.7645, 0.2619,  
0.3366

■ 35.9244, 0.2730,  
0.3345

■ 37.3032, 0.2854,  
0.3325

■ 38.9114, 0.2989,  
0.3307

# Harmonies

## Analogous

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



31.6290, 0.2794, 0.4116



31.6290, 0.2307, 0.3504



31.6290, 0.2048, 0.2892

# Triad

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



31.6290, 0.2307, 0.3504



31.6290, 0.2759, 0.2379



31.6290, 0.4321, 0.3966

# Complementary

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



31.6290, 0.2307, 0.3504



8.6918, 0.6316, 0.3255

# 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.



31.6290, 0.4342, 0.3494



31.6290, 0.2307, 0.3504



31.6290, 0.3383, 0.2630

# Square

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



31.6290, 0.2307, 0.3504



31.6290, 0.2288, 0.2318



31.6290, 0.3986, 0.3024



31.6290, 0.3964, 0.4333



# Rectangle

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



31.6290, 0.2307, 0.3504



31.6290, 0.2017, 0.2591



31.6290, 0.3986, 0.3024



31.6290, 0.4370, 0.3814

# Sweetspot

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



31.6302, 0.2307, 0.3504



64.1796, 0.2722, 0.3346



29.2231, 0.3020, 0.5982



14.1148, 0.2675, 0.3355



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.



31.6302, 0.2307, 0.3504



56.6322, 0.2308, 0.3508



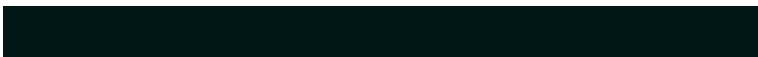
12.0339, 0.1855, 0.1876



9.0622, 0.2995, 0.3306



23.8466, 0.2306, 0.3502



0.6662, 0.2287, 0.3432



# Inverse Universe

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



8.6918, 0.6316, 0.3255



15.5421, 0.6339, 0.3266



13.2204, 0.5635, 0.3905



8.0241, 0.3276, 0.3274



6.5500, 0.6307, 0.3248



0.1851, 0.5927, 0.3039



# Previews

## White Background



This preview shows how the Yxy color 31.6290, 0.2307, 0.3504 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 31.6290, 0.2307, 0.3504 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

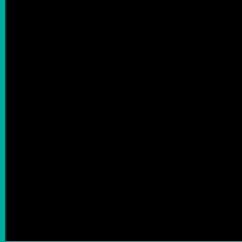
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**Yxy 31.6290, 0.2307, 0.3504**

## **Background**



This preview shows how black text looks on a background with the Yxy color 31.6290, 0.2307, 0.3504.

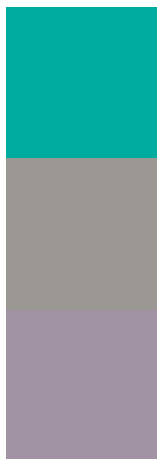


This preview shows how white text looks on a background with the Yxy color 31.6290, 0.2307, 0.3504.

# 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

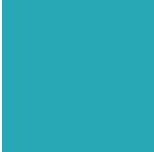
31.6290, 0.2307, 0.3504

### Protanopia

31.2084, 0.3206, 0.3352

### Deuteranopia

31.1248, 0.3108, 0.3039



## Tritanopia

31.7926, 0.2240, 0.3068

# Trichromacy



## Original Color

31.6290, 0.2307, 0.3504



## Protanomaly

29.3407, 0.2669, 0.3411



## Deuteranomaly

29.2691, 0.2614, 0.3187



## Tritanomaly

31.6127, 0.2255, 0.3218

# Monochromacy



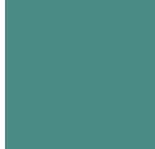
## Original Color

31.6290, 0.2307, 0.3504



## Achromatopsia

18.4475, 0.3127, 0.3290



## Achromatomaly

21.4347, 0.2573, 0.3368

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 31.6290, 0.2307, 0.3504 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, 171, 159)` looks like.

```
.text, #text, p{  
    color:rgb(0, 171, 159)  
}
```

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, 171, 159) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(0, 171, 159) }
```

## Border

The CSS property to change the border of an element to Yxy 31.6290, 0.2307, 0.3504 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, 171, 159) }
```

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

```
.border{ border-color:rgb(0, 171, 159) }
```

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

Here you see how a box with a 4 pixel rgb(0, 171, 159) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(0, 171, 159); -webkit-box-  
shadow:4px 4px 4px 4px rgb(0, 171, 159);  
box-shadow:4px 4px 4px 4px rgb(0, 171,  
159) }
```



# Background

The CSS property to change the background color of an element to Yxy 31.6290, 0.2307, 0.3504 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(0, 171, 159) }
```

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

```
.background{ background-color: rgb(0, 171,  
159) }
```

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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