

# Converting Colors

$Yxy(31.8209, 0.2329, 0.3305)$

Have a look what the booklet for  
Yxy(31.8209, 0.2329, 0.3305)  
contains.

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# Color

**Yxy(31.8074, 0.2330, 0.3305)**

# Conversions

## Conversions Part 1

Format	Color
Hex	2FA9A8
RGB	47, 169, 168
RGB Percent	18%, 66%, 66%
CMY	0.8162, 0.3372, 0.3411
CMYK	0.72, 0.00, 0.01, 0.34
HSL	180°, 57%, 42%
HSV	180°, 72%, 66%
XYZ	22.4240, 31.8074, 42.0089
YIQ	132.4080, -72.3910, -26.1750

# Conversions

## Conversions Part 2

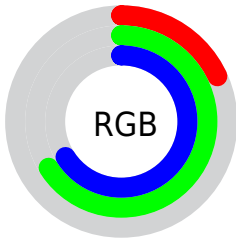
Format	Color
<b>RYB</b>	47, 108, 169
Decimal	3123624
CIELab	63.18, -32.35, -9.08
CIELCh	63, 33.602, 195.670
Yxy	31.8074, 0.2330, 0.3305
Android (android.graphics.Color)	4281313704 (0xFF2FA9A8)
YUV	132.4080, 17.5469, -74.9028
Hunter-Lab	56.3980, -27.7246, -4.6843

# Details

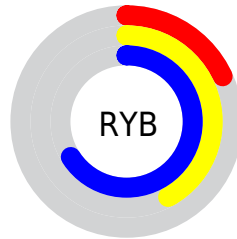
The Yxy color **31.8074, 0.2330, 0.3305** is a dark color, and the websafe version is hex **009999**. A complement of this color would be **10.6704, 0.5514, 0.3286**, and the grayscale version is **23.1713, 0.3127, 0.3290**.

A 20% lighter version of the original color is **62.6229, 0.2483, 0.3314**, and **13.7517, 0.2247, 0.3287** is the 20% darker color. If you saturate the color by 10%, you get **31.4778, 0.2289, 0.3308**, and if you desaturate by 10%, it is **32.2947, 0.2390, 0.3303**.

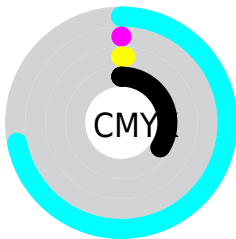
# Distribution



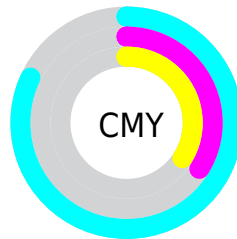
- Red (18%)
- Green (66%)
- Blue (66%)



- Red (18%)
- Yellow (42%)
- Blue (66%)



- Cyan (72%)
- Magenta (0%)
- Yellow (1%)
- Black (34%)



- Cyan (82%)
- Magenta (34%)
- Yellow (34%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 31.8074, 0.2330, 0.3305 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 31.8074, 0.2330, 0.3305 by changing the saturation by 10% instead.





 31.8074, 0.2330,  
0.3305


 31.8074, 0.2330,  
0.3305


310.2410, 0.2744,  
0.3308


 21.2144, 0.2222,  
0.3300


 62.5090, 0.2484,  
0.3309


 13.2808, 0.2082,  
0.3291


 83.3865, 0.2540,  
0.3309

 7.6222, 0.1893,  
0.3273


 108.4609, 0.2588,  
0.3310

 3.8542, 0.1625,  
0.3235

 138.1166, 0.2628,  
0.3309

 1.5923, 0.1185,  
0.3159

 172.7381, 0.2663,  
0.3309

 0.3524, 0.0000,  
0.2569

212.7097, 0.2694,

 0.0000, 0.0000,

0.3309

0.0000

258.4159, 0.2720,  
0.3308

■ 31.8074, 0.2330,  
0.3305

■ 31.8074, 0.2330,  
0.3305

■ 31.4778, 0.2289,  
0.3308

■ 32.2947, 0.2390,  
0.3303

■ 31.2833, 0.2264,  
0.3310

■ 32.9524, 0.2469,  
0.3300

■ 31.1933, 0.2253,  
0.3312

■ 33.7956, 0.2565,  
0.3298

■ 34.8369, 0.2678,  
0.3296

■ 36.0880, 0.2806,  
0.3294

■ 37.5595, 0.2945,  
0.3292

■ 39.2612, 0.3093,  
0.3290

■ 41.2026, 0.3246,  
0.3289

■ 43.3923, 0.3404,  
0.3288

# Harmonies

## Analogous

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



31.8074, 0.2701, 0.3838



31.8074, 0.2330, 0.3305



31.8074, 0.2169, 0.2826

# Triad

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



31.8074, 0.2330, 0.3305



31.8074, 0.2975, 0.2552



31.8074, 0.4083, 0.3996

# Complementary

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



31.8074, 0.2330, 0.3305



10.6704, 0.5514, 0.3286

# 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.



31.8074, 0.4190, 0.3611



31.8074, 0.2330, 0.3305



31.8074, 0.3520, 0.2817

# Square

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



31.8074, 0.2330, 0.3305



31.8074, 0.2515, 0.2445



31.8074, 0.3981, 0.3192



31.8074, 0.3714, 0.4237



# Rectangle

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



31.8074, 0.2330, 0.3305



31.8074, 0.2188, 0.2606



31.8074, 0.3981, 0.3192



31.8074, 0.4152, 0.3877

# Sweetspot

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



31.8086, 0.2330, 0.3305



64.5932, 0.2804, 0.3294



29.2345, 0.3030, 0.5550



13.9452, 0.2770, 0.3294



84.8088, 0.3127, 0.3290



15.4872, 0.3127, 0.3290



# Same Dimension

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



31.8086, 0.2330, 0.3305



56.1222, 0.2271, 0.3309



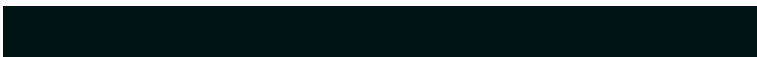
14.6119, 0.2040, 0.2144



8.5310, 0.2988, 0.3291



23.2454, 0.2253, 0.3312



0.5659, 0.2251, 0.3303



# Inverse Universe

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



10.6704, 0.5514, 0.3286



16.0556, 0.6144, 0.3292



18.9279, 0.4775, 0.4105



7.5433, 0.3284, 0.3289



6.2892, 0.6389, 0.3293



0.1533, 0.6337, 0.3265



# Previews

## White Background



This preview shows how the Yxy color 31.8074, 0.2330, 0.3305 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 31.8074, 0.2330, 0.3305 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

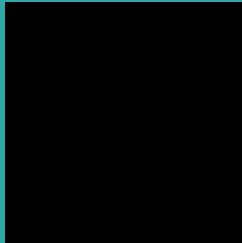
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**Yxy 31.8074, 0.2330, 0.3305**

## **Background**



This preview shows how black text looks on a background with the Yxy color 31.8074, 0.2330, 0.3305.

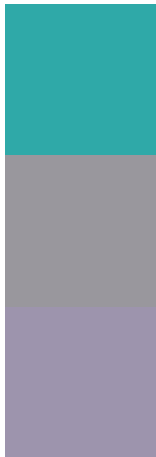


This preview shows how white text looks on a background with the Yxy color 31.8074, 0.2330, 0.3305.

# 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

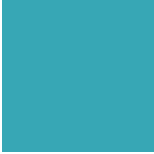
31.8074, 0.2330, 0.3305

### Protanopia

31.3398, 0.3091, 0.3199

### Deuteranopia

31.3650, 0.2986, 0.2923



## **Tritanopia**

31.7859, 0.2280, 0.3053

# Trichromacy



**Original Color**

31.8074, 0.2330, 0.3305

**Protanomaly**

30.6043, 0.2709, 0.3239

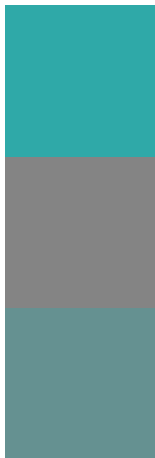
**Deuteranomaly**

30.4991, 0.2655, 0.3047

**Tritanomaly**

31.8699, 0.2300, 0.3152

# Monochromacy



**Original Color**

31.8074, 0.2330, 0.3305

**Achromatopsia**

23.0740, 0.3127, 0.3290

**Achromatomaly**

25.0618, 0.2704, 0.3289

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 31.8074, 0.2330, 0.3305 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(47, 169, 168)` looks like.

```
.text, #text, p{  
    color:rgb(47, 169, 168)  
}
```

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(47, 169, 168) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(47, 169, 168) }
```

## Border

The CSS property to change the border of an element to Yxy 31.8074, 0.2330, 0.3305 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(47, 169, 168) }
```

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

```
.border{ border-color:rgb(47, 169, 168) }
```

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

Here you see how a box with a 4 pixel `rgb(47, 169, 168)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(47, 169, 168); -webkit-box-  
shadow:4px 4px 4px 4px rgb(47, 169, 168);  
box-shadow:4px 4px 4px 4px rgb(47, 169,  
168) }
```



# Background

The CSS property to change the background color of an element to Yxy 31.8074, 0.2330, 0.3305 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(47, 169, 168) }
```

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

```
.background{ background-color: rgb(47, 169,  
168) }
```

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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