

# Converting Colors

$Y_{xy}(40.4200, 0.1833, 0.3519)$

Have a look what the booklet for  
Yxy(40.4200, 0.1833, 0.3519)  
contains.

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# Color

**Yxy(44.8537, 0.2307, 0.3506)**

# Conversions

## Conversions Part 1

Format	Color
Hex	00C8BA
RGB	0, 200, 186
RGB Percent	0%, 78%, 73%
CMY	1.0000, 0.2157, 0.2705
CMYK	1.00, 0.00, 0.07, 0.22
HSL	176°, 100%, 39%
HSV	176°, 100%, 78%
XYZ	29.5144, 44.8537, 53.5660
YIQ	138.6040, -114.7060, -46.7540

# Conversions

## Conversions Part 2

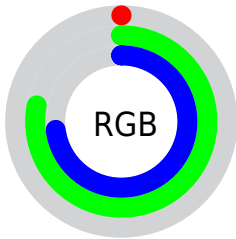
Format	Color
<b>RYB</b>	0, 104, 200
Decimal	51386
CIELab	72.80, -44.15, -4.79
CIELCh	73, 44.412, 186.190
Yxy	44.8537, 0.2307, 0.3506
Android (android.graphics.Color)	4278241466 (0xFF00C8BA)
YUV	138.6040, 23.3662, -121.5557
Hunter-Lab	66.9729, -38.5391, -0.5401

# Details

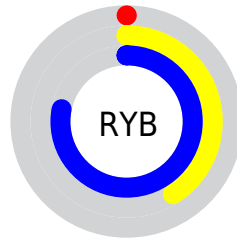
The Yxy color **44.8537, 0.2307, 0.3506** is a dark color, and the websafe version is hex **00CCCC**. The color can be described as dark washed spring green. A complement of this color would be **12.3121, 0.6332, 0.3262**, and the grayscale version is **25.6028, 0.3127, 0.3290**.

A 20% lighter version of the original color is **80.8739, 0.2447, 0.3442**, and **21.9443, 0.2317, 0.3541** is the 20% darker color. If you saturate the color by 10%, you get **44.8581, 0.2307, 0.3506**, and if you desaturate by 10%, it is **45.0666, 0.2315, 0.3483**.

# Distribution



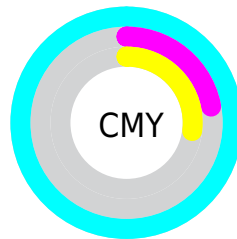
- Red (0%)
- Green (78%)
- Blue (73%)



- Red (0%)
- Yellow (41%)
- Blue (78%)



- Cyan (100%)
- Magenta (0%)
- Yellow (7%)
- Black (22%)




- Cyan (100%)
- Magenta (22%)
- Yellow (27%)

# Brightness & Saturation Gradients

These gradients show how the Yxy color 44.8537, 0.2307, 0.3506 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 44.8537, 0.2307, 0.3506 by changing the saturation by 10% instead.





 44.8537, 0.2307,  
0.3506

 44.8537, 0.2307,  
0.3506


366.1807, 0.2712,  
0.3405


 31.3422, 0.2209,  
0.3529


 82.5008, 0.2452,  
0.3471

 20.8596, 0.2084,  
0.3556


 107.4053, 0.2507,  
0.3458

 13.0214, 0.1921,  
0.3590


 136.8761, 0.2554,  
0.3446

 7.4433, 0.1702,  
0.3631

 171.2978, 0.2594,  
0.3436

 3.7408, 0.1394,  
0.3678

 211.0547, 0.2629,  
0.3427

 1.5297, 0.0672,  
0.3830

256.5312, 0.2660,

 0.3095, 0.0000,

0.3419

0.3154

308.1118, 0.2687,  
0.3412

■ 0.0000, 0.0000,  
0.0000

■ 44.8537, 0.2307,  
0.3506

■ 44.8537, 0.2307,  
0.3506

■ 44.8581, 0.2307,  
0.3506

■ 45.0666, 0.2315,  
0.3483

■ 45.4294, 0.2338,  
0.3460

■ 46.0000, 0.2378,  
0.3436

■ 46.8064, 0.2438,  
0.3413

■ 47.8725, 0.2516,  
0.3389

■ 49.2191, 0.2612,  
0.3367

■ 50.8650, 0.2724,  
0.3346

■ 52.8272, 0.2849,  
0.3326

■ 55.1216, 0.2984,  
0.3307

# Harmonies

## Analogous

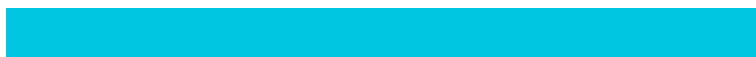
The Analogous color harmony consists of three colors that are next to each other on the color wheel.



44.8537, 0.2795, 0.4118



44.8537, 0.2307, 0.3506



44.8537, 0.2047, 0.2892

# Triad

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



44.8537, 0.2307, 0.3506



44.8537, 0.2757, 0.2377



44.8537, 0.4324, 0.3965

# Complementary

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



44.8537, 0.2307, 0.3506



12.3121, 0.6332, 0.3262

# 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.



44.8537, 0.4343, 0.3493



44.8537, 0.2307, 0.3506



44.8537, 0.3382, 0.2629

# Square

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



44.8537, 0.2307, 0.3506



44.8537, 0.2286, 0.2317



44.8537, 0.3986, 0.3022



44.8537, 0.3966, 0.4334



# Rectangle

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



44.8537, 0.2307, 0.3506



44.8537, 0.2016, 0.2591



44.8537, 0.3986, 0.3022



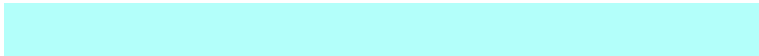
44.8537, 0.4372, 0.3813

# Sweetspot

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



44.8581, 0.2307, 0.3506



87.9244, 0.2719, 0.3347



41.4283, 0.3017, 0.5986



18.5468, 0.2670, 0.3356



0.0000, 0.0000, 0.0000



21.4041, 0.3127, 0.3290



# Same Dimension

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



44.8581, 0.2307, 0.3506



77.6441, 0.2308, 0.3509



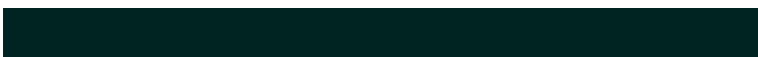
16.8166, 0.1849, 0.1857



12.0543, 0.2993, 0.3306



28.5254, 0.2306, 0.3503



1.3546, 0.2293, 0.3454



# Inverse Universe

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



12.3121, 0.6332, 0.3262



21.3031, 0.6347, 0.3270



18.5186, 0.5658, 0.3889



10.6488, 0.3279, 0.3274



7.8328, 0.6316, 0.3253

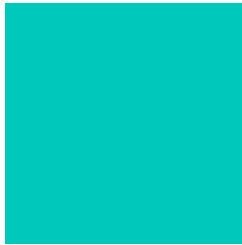


0.3752, 0.6032, 0.3097



# Previews

## White Background



This preview shows how the Yxy color 44.8537, 0.2307, 0.3506 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 44.8537, 0.2307, 0.3506 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

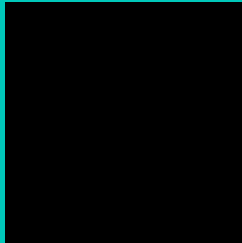
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

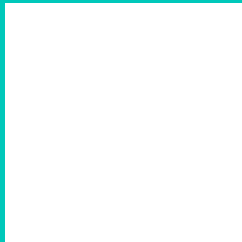
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**Yxy 44.8537, 0.2307, 0.3506**

## **Background**



This preview shows how black text looks on a background with the Yxy color 44.8537, 0.2307, 0.3506.

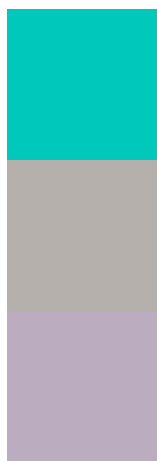


This preview shows how white text looks on a background with the Yxy color 44.8537, 0.2307, 0.3506.

# 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

44.8537, 0.2307, 0.3506

### Protanopia

43.9743, 0.3213, 0.3343

### Deuteranopia

44.0022, 0.3104, 0.3035



## Tritanopia

44.8377, 0.2233, 0.3053

# Trichromacy



## Original Color

44.8537, 0.2307, 0.3506



## Protanomaly

41.5853, 0.2663, 0.3409



## Deuteranomaly

41.1667, 0.2601, 0.3171



## Tritanomaly

44.5203, 0.2246, 0.3197

# Monochromacy



## Original Color

44.8537, 0.2307, 0.3506



## Achromatopsia

25.8183, 0.3127, 0.3290



## Achromatomaly

29.9647, 0.2565, 0.3376

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 44.8537, 0.2307, 0.3506 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, 200, 186)` looks like.

```
.text, #text, p{  
    color:rgb(0, 200, 186)  
}
```

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, 200, 186) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(0, 200, 186) }
```

## Border

The CSS property to change the border of an element to Yxy 44.8537, 0.2307, 0.3506 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, 200, 186) }
```

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

```
.border{ border-color:rgb(0, 200, 186) }
```

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

Here you see how a box with a 4 pixel rgb(0, 200, 186) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(0, 200, 186); -webkit-box-  
shadow:4px 4px 4px 4px rgb(0, 200, 186);  
box-shadow:4px 4px 4px 4px rgb(0, 200,  
186) }
```



# Background

The CSS property to change the background color of an element to Yxy 44.8537, 0.2307, 0.3506 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(0, 200, 186) }
```

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

```
.background{ background-color: rgb(0, 200,  
186) }
```

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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