

# Converting Colors

$Y_{xy}(42.1436, 0.1620, 0.3544)$

Have a look what the booklet for  
Yxy(42.1436, 0.1620, 0.3544)  
contains.

<b>Yxy(48.9620, 0.2309, 0.3514)</b> .....	3
<b><i>Conversions</i></b> .....	4
<b><i>Details</i></b> .....	6
<b><i>Harmonies</i></b> .....	12
<b><i>Previews</i></b> .....	24
<b><i>Color Blindness Simulation</i></b> .....	27
<b><i>CSS Examples</i></b> .....	30

# Color

**Yxy(48.9620, 0.2309, 0.3514)**

# Conversions

## Conversions Part 1

Format	Color
Hex	00D0C1
RGB	0, 208, 193
RGB Percent	0%, 82%, 76%
CMY	1.0000, 0.1843, 0.2432
CMYK	1.00, 0.00, 0.07, 0.18
HSL	176°, 100%, 41%
HSV	176°, 100%, 82%
XYZ	32.1722, 48.9620, 58.1999
YIQ	144.0980, -119.1530, -48.7610

# Conversions

## Conversions Part 2

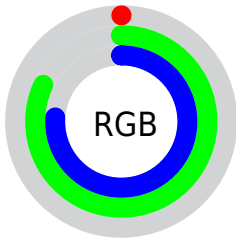
<b>Format</b>	<b>Color</b>
<b>RYB</b>	0, 108, 208
Decimal	53441
CIELab	75.43, -45.63, -4.68
CIELCh	75, 45.866, 185.854
Yxy	48.9620, 0.2309, 0.3514
Android (android.graphics.Color)	4278243521 (0xFF00D0C1)
YUV	144.0980, 24.1087, -126.3739
Hunter-Lab	69.9729, -40.3814, -0.3334

# Details

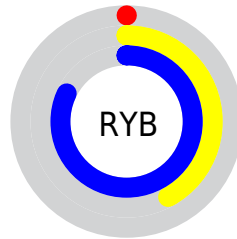
The Yxy color **48.9620, 0.2309, 0.3514** is a dark color, and the websafe version is hex **00CCCC**. The color can be described as middle washed cyan. A complement of this color would be **13.4468, 0.6332, 0.3262**, and the grayscale version is **27.8717, 0.3127, 0.3290**.

A 20% lighter version of the original color is **81.4237, 0.2425, 0.3358**, and **24.6759, 0.2319, 0.3549** is the 20% darker color. If you saturate the color by 10%, you get **48.9693, 0.2310, 0.3514**, and if you desaturate by 10%, it is **49.1939, 0.2317, 0.3490**.

# Distribution



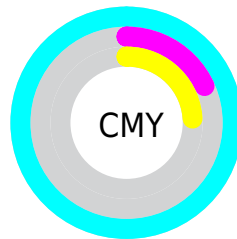
- Red (0%)
- Green (82%)
- Blue (76%)



- Red (0%)
- Yellow (42%)
- Blue (82%)



- Cyan (100%)
- Magenta (0%)
- Yellow (7%)
- Black (18%)




- Cyan (100%)
- Magenta (18%)
- Yellow (24%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 48.9620, 0.2309, 0.3514 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 48.9620, 0.2309, 0.3514 by changing the saturation by 10% instead.




 48.9620, 0.2309,  
0.3514


 48.9620, 0.2309,  
0.3514


382.5927, 0.2707,  
0.3411

 34.5893, 0.2214,  
0.3537


 88.6350, 0.2451,  
0.3478

 23.3467, 0.2094,  
0.3565


 114.7042, 0.2505,  
0.3465

 14.8497, 0.1940,  
0.3599


 145.4409, 0.2551,  
0.3452

 8.7140, 0.1733,  
0.3641

 181.2297, 0.2591,  
0.3442

 4.5551, 0.1448,  
0.3691

 222.4548, 0.2625,  
0.3433

 1.9887, 0.0966,  
0.3771

269.5008, 0.2656,

 0.6009, 0.0000,

0.3424

0.3798

322.7520, 0.2683,  
0.3417

0.0000, 0.0000,  
0.0000

48.9620, 0.2309,  
0.3514

48.9620, 0.2309,  
0.3514

48.9693, 0.2310,  
0.3514

49.1939, 0.2317,  
0.3490

49.5887, 0.2339,  
0.3466

50.2108, 0.2379,  
0.3441

51.0914, 0.2438,  
0.3417

52.2567, 0.2516,  
0.3393

■ 53.7297, 0.2612,  
0.3370

■ 55.5309, 0.2724,  
0.3348

■ 57.6794, 0.2849,  
0.3327

■ 60.1925, 0.2984,  
0.3308

# Harmonies

## Analogous

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



48.9620, 0.2801, 0.4127



48.9620, 0.2309, 0.3514



48.9620, 0.2045, 0.2897

# Triad

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



48.9620, 0.2309, 0.3514



48.9620, 0.2749, 0.2373



48.9620, 0.4329, 0.3962

# Complementary

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



48.9620, 0.2309, 0.3514



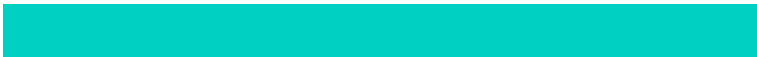
13.4468, 0.6332, 0.3262

# 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.



48.9620, 0.4344, 0.3488



48.9620, 0.2309, 0.3514



48.9620, 0.3375, 0.2623

# Square

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



48.9620, 0.2309, 0.3514



48.9620, 0.2280, 0.2315



48.9620, 0.3983, 0.3017



48.9620, 0.3974, 0.4333

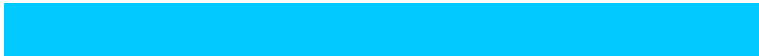


# Rectangle

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



48.9620, 0.2309, 0.3514



48.9620, 0.2013, 0.2593



48.9620, 0.3983, 0.3017



48.9620, 0.4377, 0.3809

# Sweetspot

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



48.9693, 0.2310, 0.3514



87.9134, 0.2720, 0.3349



45.2418, 0.3017, 0.5987



18.5441, 0.2671, 0.3358



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.



48.9693, 0.2310, 0.3514



77.6099, 0.2310, 0.3517



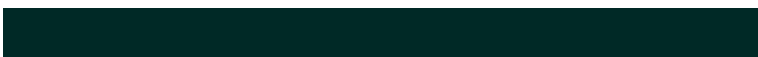
18.3130, 0.1848, 0.1853



13.3917, 0.2993, 0.3307



30.5213, 0.2309, 0.3511



1.7111, 0.2296, 0.3466



# Inverse Universe

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



13.4468, 0.6332, 0.3262



21.3051, 0.6344, 0.3269



20.1758, 0.5662, 0.3886



11.8219, 0.3279, 0.3274



8.3847, 0.6315, 0.3253

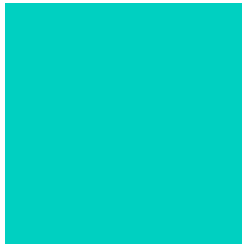


0.4738, 0.6055, 0.3109



# Previews

## White Background



This preview shows how the Yxy color 48.9620, 0.2309, 0.3514 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 48.9620, 0.2309, 0.3514 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

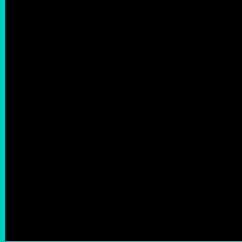
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**Yxy 48.9620, 0.2309, 0.3514**

## **Background**



This preview shows how black text looks on a background with the Yxy color 48.9620, 0.2309, 0.3514.

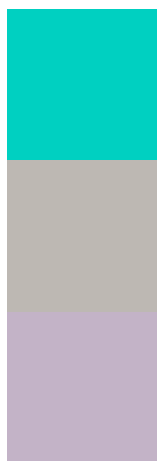


This preview shows how white text looks on a background with the Yxy color 48.9620, 0.2309, 0.3514.

# 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

48.9620, 0.2309, 0.3514

### Protanopia

48.3545, 0.3209, 0.3354

### Deuteranopia

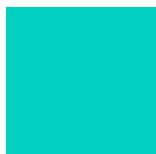
47.9658, 0.3105, 0.3043



## Tritanopia

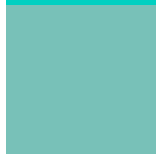
49.0592, 0.2231, 0.3048

# Trichromacy



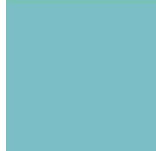
## Original Color

48.9620, 0.2309, 0.3514



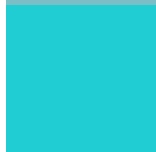
## Protanomaly

45.5937, 0.2660, 0.3419



## Deuteranomaly

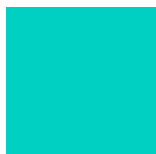
45.1432, 0.2600, 0.3189



## Tritanomaly

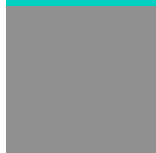
48.6571, 0.2247, 0.3200

# Monochromacy



## Original Color

48.9620, 0.2309, 0.3514



## Achromatopsia

27.8894, 0.3127, 0.3290



## Achromatomaly

32.5214, 0.2567, 0.3373

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 48.9620, 0.2309, 0.3514 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, 208, 193)` looks like.

```
.text, #text, p{  
    color:rgb(0, 208, 193)  
}
```

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, 208, 193) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(0, 208, 193) }
```

## Border

The CSS property to change the border of an element to Yxy 48.9620, 0.2309, 0.3514 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, 208, 193) }
```

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

```
.border{ border-color:rgb(0, 208, 193) }
```

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

Here you see how a box with a 4 pixel `rgb(0, 208, 193)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(0, 208, 193); -webkit-box-  
shadow:4px 4px 4px 4px rgb(0, 208, 193);  
box-shadow:4px 4px 4px 4px rgb(0, 208,  
193) }
```



# Background

The CSS property to change the background color of an element to Yxy 48.9620, 0.2309, 0.3514 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(0, 208, 193) }
```

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

```
.background{ background-color: rgb(0, 208,  
193) }
```

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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