

# Converting Colors

$Y_{xy}(49.3892, 0.2136, 0.3909)$

Have a look what the booklet for  
Yxy(49.3892, 0.2136, 0.3909)  
contains.

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# Color

**Yxy(52.3261, 0.2407, 0.3864)**

# Conversions

## Conversions Part 1

Format	Color
Hex	00D8B2
RGB	0, 216, 178
RGB Percent	0%, 85%, 70%
CMY	0.9981, 0.1529, 0.3020
CMYK	1.00, 0.00, 0.18, 0.15
HSL	169°, 100%, 42%
HSV	169°, 100%, 85%
XYZ	32.5955, 52.3261, 50.4979
YIQ	147.0840, -116.5380, -57.6100

# Conversions

## Conversions Part 2

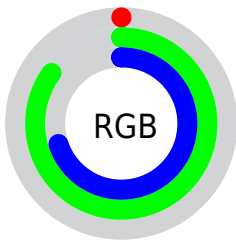
Format	Color
<a href="#">RYB</a>	<a href="#">0, 118, 216</a>
Decimal	<a href="#">55474</a>
CIELab	<a href="#">77.48, -52.93, 6.35</a>
CIELCh	<a href="#">77, 53.311, 173.155</a>
Yxy	<a href="#">52.3261, 0.2407, 0.3864</a>
Android (android.graphics.Color)	<a href="#">4278245554</a> ( <a href="#">0xFF00D8B2</a> )
YUV	<a href="#">147.0840, 15.2416, -128.9927</a>
Hunter-Lab	<a href="#">72.3368, -46.1560, 9.2457</a>

# Details

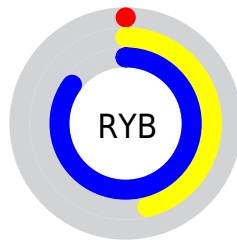
The Yxy color **52.3261, 0.2407, 0.3864** is a dark color, and the websafe version is hex **00CC99**. The color can be described as middle washed spring green. A complement of this color would be **14.7525, 0.6149, 0.3163**, and the grayscale version is **29.2494, 0.3127, 0.3290**.

A 20% lighter version of the original color is **80.5247, 0.2486, 0.3540**, and **26.6223, 0.2444, 0.3999** is the 20% darker color. If you saturate the color by 10%, you get **52.3215, 0.2407, 0.3865**, and if you desaturate by 10%, it is **52.6517, 0.2405, 0.3801**.

# Distribution



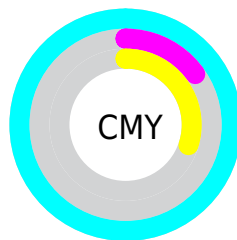
- Red (0%)
- Green (85%)
- Blue (70%)



- Red (0%)
- Yellow (46%)
- Blue (85%)



- Cyan (100%)
- Magenta (0%)
- Yellow (18%)
- Black (15%)




- Cyan (100%)
- Magenta (15%)
- Yellow (30%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 52.3261, 0.2407, 0.3864 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 52.3261, 0.2407, 0.3864 by changing the saturation by 10% instead.




 52.3261, 0.2407,  
0.3864


 52.3261, 0.2407,  
0.3864


395.6942, 0.2761,  
0.3576

 37.2651, 0.2321,  
0.3936


 93.6120, 0.2534,  
0.3759


 25.4128, 0.2212,  
0.4029


 120.6056, 0.2582,  
0.3720

 16.3849, 0.2070,  
0.4152


 152.3456, 0.2623,  
0.3686

 9.7969, 0.1878,  
0.4323

 189.2163, 0.2658,  
0.3658

 5.2645, 0.1606,  
0.4575

 231.6021, 0.2689,  
0.3633

 2.4033, 0.1140,  
0.5013

279.8875, 0.2716,

 0.8276, 0.0000,

0.3612

0.6443

334.4567, 0.2740,  
0.3593

■ 0.0000, 0.0000,  
0.0000

■ 52.3261, 0.2407,  
0.3864

■ 52.3261, 0.2407,  
0.3864

■ 52.3215, 0.2407,  
0.3865

■ 52.6517, 0.2405,  
0.3801

■ 53.1682, 0.2418,  
0.3737

■ 53.9371, 0.2451,  
0.3674

■ 54.9924, 0.2503,  
0.3611

■ 56.3629, 0.2574,  
0.3549

■ 58.0738, 0.2662,  
0.3490

■ 60.1477, 0.2764,  
0.3434

■ 62.6053, 0.2878,  
0.3381

■ 65.4658, 0.3001,  
0.3333

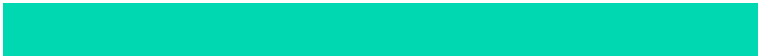
# Harmonies

## Analogous

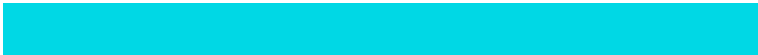
The Analogous color harmony consists of three colors that are next to each other on the color wheel.



52.3261, 0.3033, 0.4464



52.3261, 0.2407, 0.3864



52.3261, 0.2003, 0.3110

# Triad

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



52.3261, 0.2407, 0.3864



52.3261, 0.2447, 0.2212



52.3261, 0.4548, 0.3805

# Complementary

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



52.3261, 0.2407, 0.3864



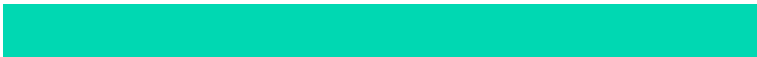
14.7525, 0.6149, 0.3163

# 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.



52.3261, 0.4386, 0.3270



52.3261, 0.2407, 0.3864



52.3261, 0.3091, 0.2404

# Square

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



52.3261, 0.2407, 0.3864



52.3261, 0.2032, 0.2243



52.3261, 0.3824, 0.2778



52.3261, 0.4283, 0.4299

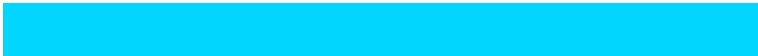


# Rectangle

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



52.3261, 0.2407, 0.3864



52.3261, 0.1890, 0.2696



52.3261, 0.3824, 0.2778



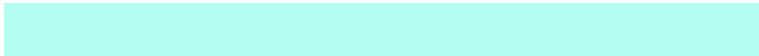
52.3261, 0.4544, 0.3626

# Sweetspot

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



52.3281, 0.2407, 0.3864



87.4256, 0.2759, 0.3436



49.5630, 0.3056, 0.5954



18.4259, 0.2714, 0.3460



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.



52.3281, 0.2407, 0.3864



76.1748, 0.2409, 0.3871



26.0639, 0.1948, 0.2213



14.0685, 0.3006, 0.3331



30.9840, 0.2404, 0.3856



1.8789, 0.2374, 0.3747



# Inverse Universe

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



14.7525, 0.6149, 0.3163



21.4492, 0.6172, 0.3174



18.8236, 0.5932, 0.3669



12.4562, 0.3264, 0.3249



8.7355, 0.6123, 0.3147

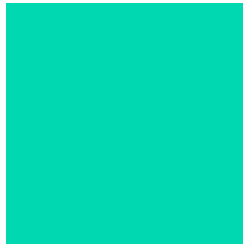


0.5379, 0.5665, 0.2894



# Previews

## White Background



This preview shows how the Yxy color 52.3261, 0.2407, 0.3864 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 52.3261, 0.2407, 0.3864 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

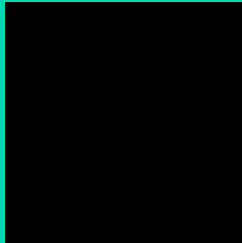
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

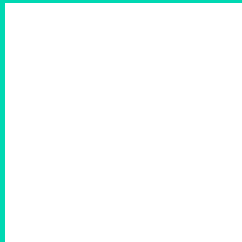
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**Yxy 52.3261, 0.2407, 0.3864**

## **Background**



This preview shows how black text looks on a background with the Yxy color 52.3261, 0.2407, 0.3864.

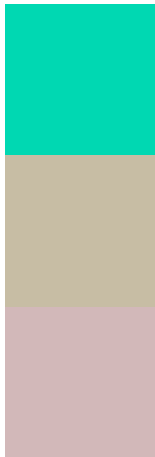


This preview shows how white text looks on a background with the Yxy color 52.3261, 0.2407, 0.3864.

# 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

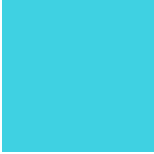
52.3261, 0.2407, 0.3864

### Protanopia

51.2176, 0.3409, 0.3604

### Deuteranopia

51.4854, 0.3342, 0.3279



## **Tritanopia**

52.1487, 0.2260, 0.3055

# Trichromacy



## Original Color

52.3261, 0.2407, 0.3864



## Protanomaly

48.2234, 0.2806, 0.3724



## Deuteranomaly

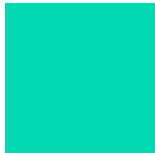
47.9256, 0.2766, 0.3487



## Tritanomaly

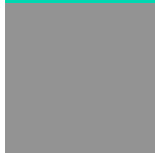
52.1415, 0.2295, 0.3330

# Monochromacy



## Original Color

52.3261, 0.2407, 0.3864



## Achromatopsia

29.1771, 0.3127, 0.3290



## Achromatomaly

34.3534, 0.2619, 0.3522

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 52.3261, 0.2407, 0.3864 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, 216, 178)` looks like.

```
.text, #text, p{  
    color:rgb(0, 216, 178)  
}
```

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, 216, 178) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(0, 216, 178) }
```

## Border

The CSS property to change the border of an element to Yxy 52.3261, 0.2407, 0.3864 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, 216, 178) }
```

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

```
.border{ border-color:rgb(0, 216, 178) }
```

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

Here you see how a box with a 4 pixel rgb(0, 216, 178) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(0, 216, 178); -webkit-box-  
shadow:4px 4px 4px 4px rgb(0, 216, 178);  
box-shadow:4px 4px 4px 4px rgb(0, 216,  
178) }
```



# Background

The CSS property to change the background color of an element to Yxy 52.3261, 0.2407, 0.3864 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(0, 216, 178) }
```

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

```
.background{ background-color: rgb(0, 216,  
178) }
```

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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