

# Converting Colors

$Yxy(45.5034, 0.2362, 0.3676)$

Have a look what the booklet for  
Yxy(45.5034, 0.2362, 0.3676)  
contains.

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# Color

**Yxy(45.4865, 0.2364, 0.3683)**

# Conversions

## Conversions Part 1

Format	Color
Hex	0BCAB1
RGB	11, 202, 177
RGB Percent	4%, 79%, 69%
CMY	0.9551, 0.2078, 0.3060
CMYK	0.94, 0.00, 0.12, 0.21
HSL	172°, 89%, 42%
HSV	172°, 94%, 79%
XYZ	29.1963, 45.4865, 48.8211
YIQ	142.0410, -105.8110, -48.2670

# Conversions

## Conversions Part 2

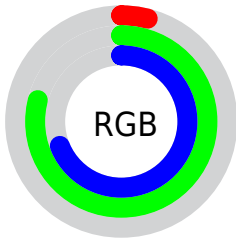
Format	Color
<a href="#">RYB</a>	<a href="#">11, 113, 202</a>
Decimal	<a href="#">772785</a>
CIELab	<a href="#">73.21, -47.17, 0.73</a>
CIELCh	<a href="#">73, 47.171, 179.108</a>
Yxy	<a href="#">45.4865, 0.2364, 0.3683</a>
Android (android.graphics.Color)	<a href="#">4278962865 (0xFF0BCAB1)</a>
YUV	<a href="#">142.0410, 17.2348, -114.9230</a>
Hunter-Lab	<a href="#">67.4437, -40.7539, 4.2918</a>

# Details

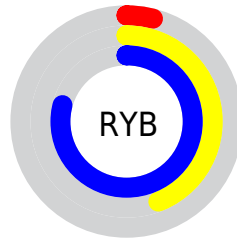
The Yxy color **45.4865, 0.2364, 0.3683** is a dark color, and the websafe version is hex **33CC99**. The color can be described as dark washed spring green. A complement of this color would be **12.9368, 0.6104, 0.3183**, and the grayscale version is **27.0849, 0.3127, 0.3290**.

A 20% lighter version of the original color is **80.4064, 0.2487, 0.3552**, and **22.3481, 0.2378, 0.3759** is the 20% darker color. If you saturate the color by 10%, you get **45.3542, 0.2364, 0.3709**, and if you desaturate by 10%, it is **45.8224, 0.2374, 0.3637**.

# Distribution



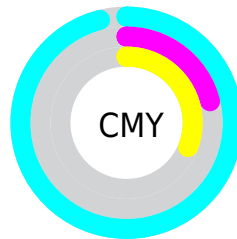
- Red (4%)
- Green (79%)
- Blue (69%)



- Red (4%)
- Yellow (44%)
- Blue (79%)



- Cyan (94%)
- Magenta (0%)
- Yellow (12%)
- Black (21%)




- Cyan (96%)
- Magenta (21%)
- Yellow (31%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 45.4865, 0.2364, 0.3683 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 45.4865, 0.2364, 0.3683 by changing the saturation by 10% instead.





 45.4865, 0.2364,  
0.3683


 45.4865, 0.2364,  
0.3683


368.7403, 0.2743,  
0.3487

 31.8408, 0.2271,  
0.3732


 83.4500, 0.2501,  
0.3612


 21.2399, 0.2152,  
0.3794


 108.5365, 0.2553,  
0.3585

 13.2995, 0.1995,  
0.3875


 138.2055, 0.2597,  
0.3563

 7.6351, 0.1782,  
0.3988

 172.8413, 0.2634,  
0.3543

 3.8624, 0.1478,  
0.4150

 212.8283, 0.2667,  
0.3526

 1.5969, 0.0682,  
0.4563

258.5508, 0.2696,

 0.3555, 0.0000,

0.3512

0.5143

310.3934, 0.2721,  
0.3498

■ 0.0000, 0.0000,  
0.0000

■ 45.4865, 0.2364,  
0.3683

■ 45.4865, 0.2364,  
0.3683

■ 45.3542, 0.2364,  
0.3709

■ 45.8224, 0.2374,  
0.3637

■ 46.3560, 0.2402,  
0.3591

■ 47.1206, 0.2449,  
0.3545

■ 48.1423, 0.2515,  
0.3500

■ 49.4437, 0.2599,  
0.3456

■ 51.0449, 0.2699,  
0.3414

■ 52.9640, 0.2812,  
0.3374

■ 55.2179, 0.2937,  
0.3338

■ 57.8221, 0.3068,  
0.3304

# Harmonies

## Analogous

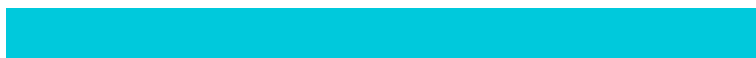
The Analogous color harmony consists of three colors that are next to each other on the color wheel.



45.4865, 0.2919, 0.4288



45.4865, 0.2364, 0.3683



45.4865, 0.2032, 0.3004

# Triad

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



45.4865, 0.2364, 0.3683



45.4865, 0.2600, 0.2299



45.4865, 0.4430, 0.3880

# Complementary

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



45.4865, 0.2364, 0.3683



12.9368, 0.6104, 0.3183

# 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.



45.4865, 0.4357, 0.3378



45.4865, 0.2364, 0.3683



45.4865, 0.3231, 0.2518

# Square

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



45.4865, 0.2364, 0.3683



45.4865, 0.2161, 0.2286



45.4865, 0.3899, 0.2899



45.4865, 0.4122, 0.4312



# Rectangle

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



45.4865, 0.2364, 0.3683



45.4865, 0.1959, 0.2649



45.4865, 0.3899, 0.2899



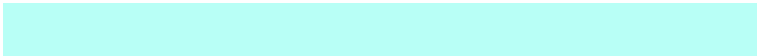
45.4865, 0.4452, 0.3715

# Sweetspot

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



45.4882, 0.2364, 0.3683



88.2917, 0.2765, 0.3390



42.6567, 0.3047, 0.5924



18.6003, 0.2716, 0.3408



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.



45.4882, 0.2364, 0.3683



76.7676, 0.2365, 0.3715



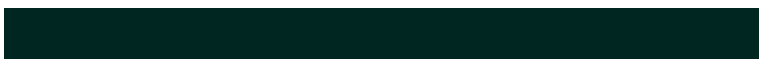
20.8776, 0.1930, 0.2112



12.7007, 0.3001, 0.3320



29.1946, 0.2362, 0.3703



1.5133, 0.2337, 0.3613



# Inverse Universe

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



12.9368, 0.6104, 0.3183



21.3726, 0.6262, 0.3223



18.5148, 0.5663, 0.3828



11.2373, 0.3270, 0.3260



8.1370, 0.6218, 0.3199

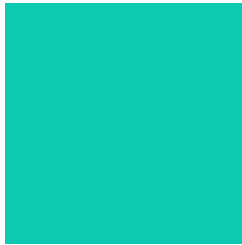


0.4278, 0.5779, 0.2957



# Previews

## White Background



This preview shows how the Yxy color 45.4865, 0.2364, 0.3683 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

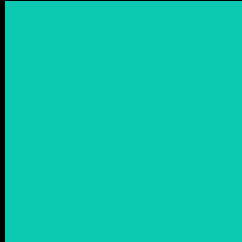
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 45.4865, 0.2364, 0.3683 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

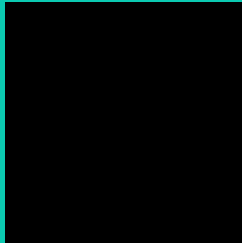
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

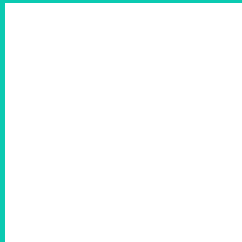
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**Yxy 45.4865, 0.2364, 0.3683**

## **Background**



This preview shows how black text looks on a background with the Yxy color 45.4865, 0.2364, 0.3683.

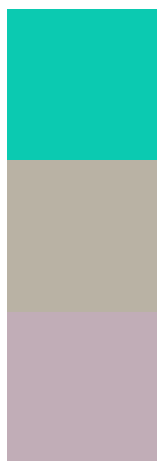


This preview shows how white text looks on a background with the Yxy color 45.4865, 0.2364, 0.3683.

# 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

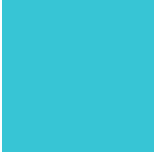
45.4865, 0.2364, 0.3683

### Protanopia

44.8354, 0.3305, 0.3476

### Deuteranopia

44.6435, 0.3222, 0.3163



## **Tritanopia**

45.5488, 0.2251, 0.3055

# Trichromacy



## Original Color

45.4865, 0.2364, 0.3683



## Protanomaly

42.5428, 0.2758, 0.3560



## Deuteranomaly

42.1292, 0.2708, 0.3333



## Tritanomaly

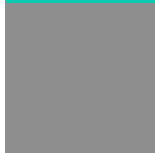
45.4483, 0.2282, 0.3272

# Monochromacy



## Original Color

45.4865, 0.2364, 0.3683



## Achromatopsia

27.0498, 0.3127, 0.3290



## Achromatomaly

31.3504, 0.2626, 0.3443

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 45.4865, 0.2364, 0.3683 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(11, 202, 177)` looks like.

```
.text, #text, p{  
    color:rgb(11, 202, 177)  
}
```

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(11, 202, 177) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(11, 202, 177) }
```

## Border

The CSS property to change the border of an element to Yxy 45.4865, 0.2364, 0.3683 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(11, 202, 177) }
```

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

```
.border{ border-color:rgb(11, 202, 177) }
```

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

Here you see how a box with a 4 pixel rgb(11, 202, 177) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(11, 202, 177); -webkit-box-  
shadow:4px 4px 4px 4px rgb(11, 202, 177);  
box-shadow:4px 4px 4px 4px rgb(11, 202,  
177) }
```



# Background

The CSS property to change the background color of an element to Yxy 45.4865, 0.2364, 0.3683 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(11, 202, 177) }
```

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

```
.background{ background-color: rgb(11, 202,  
177) }
```

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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