

# Converting Colors

$Yxy(45.9834, 0.2361, 0.3585)$

Have a look what the booklet for  
Yxy(45.9834, 0.2361, 0.3585)  
contains.

<b>Yxy(45.9833, 0.2360, 0.3582)</b> .....	3
<b>Conversions</b> .....	4
<b>Details</b> .....	6
<b>Harmonies</b> .....	12
<b>Previews</b> .....	24
<b>Color Blindness Simulation</b> .....	27
<b>CSS Examples</b> .....	30

# Color

**Yxy(45.9833, 0.2360, 0.3582)**

# Conversions

## Conversions Part 1

Format	Color
Hex	21CAB7
RGB	33, 202, 183
RGB Percent	13%, 79%, 72%
CMY	0.8707, 0.2078, 0.2822
CMYK	0.84, 0.00, 0.09, 0.21
HSL	173°, 72%, 46%
HSV	173°, 84%, 79%
XYZ	30.2961, 45.9833, 52.0939
YIQ	149.3030, -94.6250, -41.7370

# Conversions

## Conversions Part 2

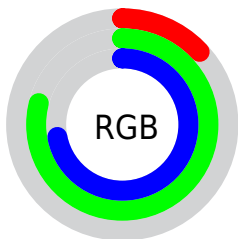
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	33, 123, 202
Decimal	2214583
CIE <sub>Lab</sub>	73.53, -44.38, -2.05
CIE <sub>LCh</sub>	74, 44.424, 182.651
Yxy	45.9833, 0.2360, 0.3582
Android (android.graphics.Color)	4280404663 (0xFF21CAB7)
YUV	149.3030, 16.6126, -101.9977
Hunter-Lab	67.8110, -38.9203, 1.9198

# Details

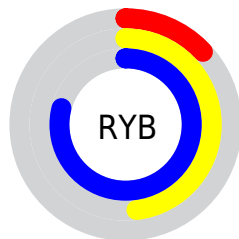
The Yxy color **45.9833, 0.2360, 0.3582** is a dark color, and the websafe version is hex **00CCCC**. The color can be described as middle muted spring green. A complement of this color would be **13.8899, 0.5802, 0.3158**, and the grayscale version is **30.1445, 0.3127, 0.3290**.

A 20% lighter version of the original color is **81.1967, 0.2485, 0.3477**, and **22.4791, 0.2346, 0.3647** is the 20% darker color. If you saturate the color by 10%, you get **45.6524, 0.2347, 0.3621**, and if you desaturate by 10%, it is **46.5188, 0.2391, 0.3543**.

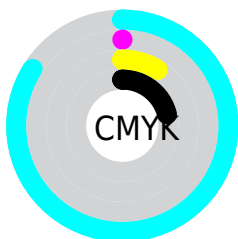
# Distribution



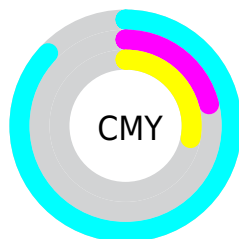
- Red (13%)
- Green (79%)
- Blue (72%)



- Red (13%)
- Yellow (48%)
- Blue (79%)



- Cyan (84%)
- Magenta (0%)
- Yellow (9%)
- Black (21%)




- Cyan (87%)
- Magenta (21%)
- Yellow (28%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 45.9833, 0.2360, 0.3582 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 45.9833, 0.2360, 0.3582 by changing the saturation by 10% instead.





 45.9833, 0.2360,  
0.3582

 45.9833, 0.2360,  
0.3582


370.7415, 0.2739,  
0.3440


 32.2326, 0.2267,  
0.3616


 84.1940, 0.2496,  
0.3532


 21.5393, 0.2150,  
0.3658

 109.4228, 0.2548,  
0.3512


 13.5187, 0.1997,  
0.3713


 139.2465, 0.2592,  
0.3496

 7.7867, 0.1788,  
0.3785

 174.0495, 0.2629,  
0.3482

 3.9588, 0.1493,  
0.3884

 214.2160, 0.2662,  
0.3469

 1.6505, 0.0849,  
0.4111

260.1306, 0.2691,

 0.3913, 0.0000,

0.3458

0.4072

312.1777, 0.2716,  
0.3449

■ 0.0000, 0.0000,  
0.0000

■ 45.9833, 0.2360,  
0.3582

■ 45.9833, 0.2360,  
0.3582

■ 45.6524, 0.2347,  
0.3621

■ 46.5188, 0.2391,  
0.3543

■ 45.5102, 0.2346,  
0.3645

■ 47.2850, 0.2440,  
0.3504

■ 48.3092, 0.2509,  
0.3466

■ 49.6139, 0.2596,  
0.3429

■ 51.2191, 0.2698,  
0.3393

■ 53.1428, 0.2814,  
0.3360

■ 55.4017, 0.2941,  
0.3329

■ 58.0114, 0.3076,  
0.3300

■ 60.9863, 0.3216,  
0.3274

# Harmonies

## Analogous

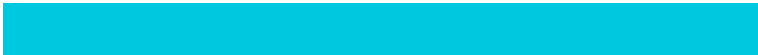
The Analogous color harmony consists of three colors that are next to each other on the color wheel.



45.9833, 0.2866, 0.4168



45.9833, 0.2360, 0.3582



45.9833, 0.2072, 0.2960

# Triad

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



45.9833, 0.2360, 0.3582



45.9833, 0.2694, 0.2366



45.9833, 0.4336, 0.3909

# Complementary

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



45.9833, 0.2360, 0.3582



13.8899, 0.5802, 0.3158

# 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.



45.9833, 0.4310, 0.3435



45.9833, 0.2360, 0.3582



45.9833, 0.3303, 0.2595

# Square

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



45.9833, 0.2360, 0.3582



45.9833, 0.2251, 0.2331



45.9833, 0.3917, 0.2973



45.9833, 0.4016, 0.4293



# Rectangle

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



45.9833, 0.2360, 0.3582



45.9833, 0.2021, 0.2642



45.9833, 0.3917, 0.2973



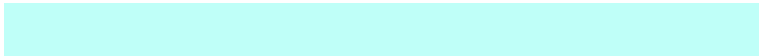
45.9833, 0.4370, 0.3755

# Sweetspot

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



45.9851, 0.2360, 0.3582



89.3965, 0.2794, 0.3365



43.1002, 0.3067, 0.5785



18.8797, 0.2752, 0.3377



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.



45.9851, 0.2360, 0.3582



77.0318, 0.2347, 0.3650



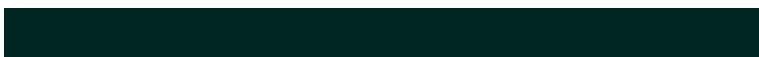
22.5365, 0.1987, 0.2210



12.7045, 0.2998, 0.3316



29.2928, 0.2344, 0.3640



1.5175, 0.2323, 0.3564



# Inverse Universe

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



13.8899, 0.5802, 0.3158



21.3468, 0.6293, 0.3240



21.3573, 0.5330, 0.3928



11.2338, 0.3273, 0.3264



8.1257, 0.6253, 0.3218

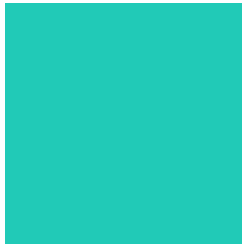


0.4262, 0.5860, 0.3002



# Previews

## White Background



This preview shows how the Yxy color 45.9833, 0.2360, 0.3582 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 45.9833, 0.2360, 0.3582 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

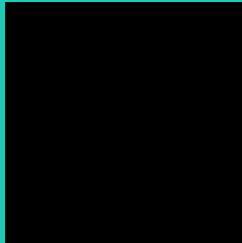
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

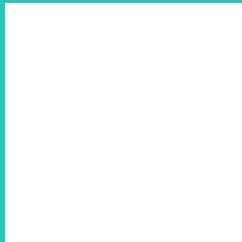
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**Yxy 45.9833, 0.2360, 0.3582**

## **Background**



This preview shows how black text looks on a background with the Yxy color 45.9833, 0.2360, 0.3582.

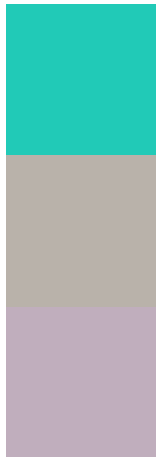


This preview shows how white text looks on a background with the Yxy color 45.9833, 0.2360, 0.3582.

# 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

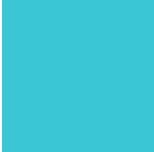
45.9833, 0.2360, 0.3582

### Protanopia

45.0574, 0.3254, 0.3396

### Deuteranopia

45.1527, 0.3162, 0.3100



## **Tritanopia**

46.1730, 0.2260, 0.3057

# Trichromacy



## Original Color

45.9833, 0.2360, 0.3582



## Protanomaly

43.3816, 0.2773, 0.3465



## Deuteranomaly

42.9372, 0.2717, 0.3246



## Tritanomaly

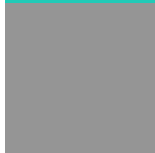
45.8368, 0.2290, 0.3228

# Monochromacy



## Original Color

45.9833, 0.2360, 0.3582



## Achromatopsia

30.0544, 0.3127, 0.3290



## Achromatomaly

33.7043, 0.2676, 0.3403

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 45.9833, 0.2360, 0.3582 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(33, 202, 183)` looks like.

```
.text, #text, p{  
    color:rgb(33, 202, 183)  
}
```

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(33, 202, 183) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(33, 202, 183) }
```

## Border

The CSS property to change the border of an element to Yxy 45.9833, 0.2360, 0.3582 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(33, 202, 183) }
```

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

```
.border{ border-color:rgb(33, 202, 183) }
```

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

Here you see how a box with a 4 pixel `rgb(33, 202, 183)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(33, 202, 183); -webkit-box-  
shadow:4px 4px 4px 4px rgb(33, 202, 183);  
box-shadow:4px 4px 4px 4px rgb(33, 202,  
183) }
```



# Background

The CSS property to change the background color of an element to Yxy 45.9833, 0.2360, 0.3582 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(33, 202, 183) }
```

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

```
.background{ background-color: rgb(33, 202,  
183) }
```

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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