

# Converting Colors

$Y_{xy}(45.7691, 0.2337, 0.3560)$

Have a look what the booklet for  
Yxy(45.7691, 0.2337, 0.3560)  
contains.

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# Color

**Yxy(45.8505, 0.2339, 0.3567)**

# Conversions

## Conversions Part 1

Format	Color
Hex	14CAB8
RGB	20, 202, 184
RGB Percent	8%, 79%, 72%
CMY	0.9207, 0.2079, 0.2783
CMYK	0.90, 0.00, 0.09, 0.21
HSL	174°, 82%, 44%
HSV	174°, 90%, 79%
XYZ	30.0657, 45.8505, 52.6246
YIQ	145.5300, -102.6940, -44.1820

# Conversions

## Conversions Part 2

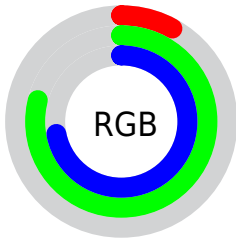
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	20, 116, 202
Decimal	1362616
CIE <sub>Lab</sub>	73.45, -44.87, -2.73
CIE <sub>LCh</sub>	73, 44.956, 183.485
Yxy	45.8505, 0.2339, 0.3567
Android (android.graphics.Color)	4279552696 (0xFF14CAB8)
YUV	145.5300, 18.9657, -110.0898
Hunter-Lab	67.7130, -39.2408, 1.3206

# Details

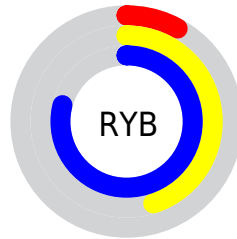
The Yxy color **45.8505, 0.2339, 0.3567** is a dark color, and the websafe version is hex **00CCCC**. The color can be described as middle washed spring green. A complement of this color would be **13.2057, 0.6051, 0.3201**, and the grayscale version is **28.5243, 0.3127, 0.3290**.

A 20% lighter version of the original color is **80.9994, 0.2468, 0.3466**, and **22.5061, 0.2340, 0.3625** is the 20% darker color. If you saturate the color by 10%, you get **45.6181, 0.2334, 0.3600**, and if you desaturate by 10%, it is **46.2452, 0.2359, 0.3533**.

# Distribution



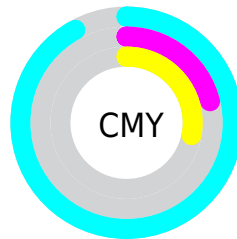
- Red (8%)
- Green (79%)
- Blue (72%)



- Red (8%)
- Yellow (45%)
- Blue (79%)



- Cyan (90%)
- Magenta (0%)
- Yellow (9%)
- Black (21%)




- Cyan (92%)
- Magenta (21%)
- Yellow (28%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 45.8505, 0.2339, 0.3567 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 45.8505, 0.2339, 0.3567 by changing the saturation by 10% instead.





 45.8505, 0.2339,  
0.3567


 45.8505, 0.2339,  
0.3567


370.2073, 0.2728,  
0.3434


 32.1279, 0.2244,  
0.3598


 83.9952, 0.2479,  
0.3520


 21.4592, 0.2124,  
0.3638


 109.1861, 0.2532,  
0.3502

 13.4601, 0.1967,  
0.3688


 138.9685, 0.2577,  
0.3486

 7.7461, 0.1755,  
0.3753

 173.7268, 0.2615,  
0.3473

 3.9329, 0.1456,  
0.3839

 213.8455, 0.2649,  
0.3461

 1.6361, 0.0791,  
0.4049

259.7088, 0.2679,

 0.3818, 0.0000,

0.3451

0.3862

311.7013, 0.2705,  
0.3442

■ 0.0000, 0.0000,  
0.0000

■ 45.8505, 0.2339,  
0.3567

■ 45.8505, 0.2339,  
0.3567

■ 45.6181, 0.2334,  
0.3600

■ 46.2452, 0.2359,  
0.3533

■ 45.6178, 0.2334,  
0.3600

■ 46.8514, 0.2398,  
0.3499

■ 47.6995, 0.2455,  
0.3465

■ 48.8140, 0.2532,  
0.3432

■ 50.2163, 0.2626,  
0.3400

■ 51.9255, 0.2735,  
0.3370

■ 53.9592, 0.2857,  
0.3341

■ 56.3336, 0.2988,  
0.3314

■ 59.0638, 0.3127,  
0.3290

# Harmonies

## Analogous

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



45.8505, 0.2846, 0.4167



45.8505, 0.2339, 0.3567



45.8505, 0.2055, 0.2939

# Triad

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



45.8505, 0.2339, 0.3567



45.8505, 0.2704, 0.2360



45.8505, 0.4346, 0.3927

# Complementary

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



45.8505, 0.2339, 0.3567



13.2057, 0.6051, 0.3201

# 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.



45.8505, 0.4331, 0.3449



45.8505, 0.2339, 0.3567



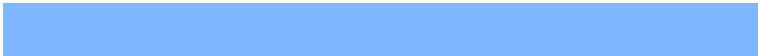
45.8505, 0.3323, 0.2596

# Square

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



45.8505, 0.2339, 0.3567



45.8505, 0.2251, 0.2318



45.8505, 0.3942, 0.2981



45.8505, 0.4013, 0.4313



# Rectangle

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



45.8505, 0.2339, 0.3567



45.8505, 0.2009, 0.2622



45.8505, 0.3942, 0.2981



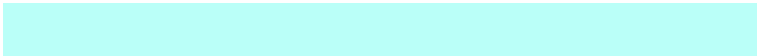
45.8505, 0.4384, 0.3772

# Sweetspot

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



45.8522, 0.2339, 0.3567



88.7671, 0.2766, 0.3362



42.7106, 0.3042, 0.5889



18.7618, 0.2725, 0.3372



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.



45.8522, 0.2339, 0.3567



77.2211, 0.2335, 0.3605



20.1921, 0.1926, 0.2064



12.7072, 0.2996, 0.3313



29.3631, 0.2332, 0.3596



1.5205, 0.2314, 0.3530



# Inverse Universe

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



13.2057, 0.6051, 0.3201



21.3311, 0.6312, 0.3251



20.4248, 0.5467, 0.3933



11.2314, 0.3275, 0.3267



8.1186, 0.6275, 0.3231

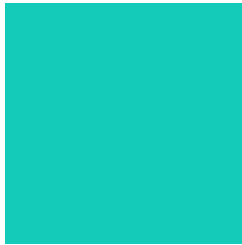


0.4251, 0.5918, 0.3034



# Previews

## White Background



This preview shows how the Yxy color 45.8505, 0.2339, 0.3567 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

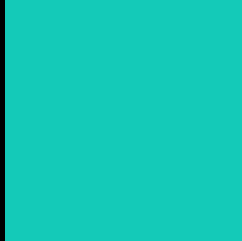
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 45.8505, 0.2339, 0.3567 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

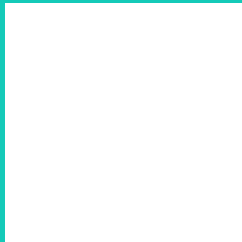
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**Yxy 45.8505, 0.2339, 0.3567**

## **Background**



This preview shows how black text looks on a background with the Yxy color 45.8505, 0.2339, 0.3567.

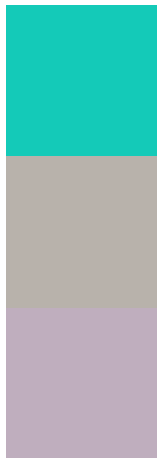


This preview shows how white text looks on a background with the Yxy color 45.8505, 0.2339, 0.3567.

# 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

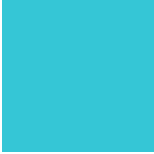
45.8505, 0.2339, 0.3567

### Protanopia

44.9714, 0.3237, 0.3383

### Deuteranopia

45.0662, 0.3145, 0.3087



## **Tritanopia**

46.0001, 0.2246, 0.3056

# Trichromacy



## Original Color

45.8505, 0.2339, 0.3567



## Protanomaly

42.9603, 0.2725, 0.3452



## Deuteranomaly

42.5789, 0.2676, 0.3231



## Tritanomaly

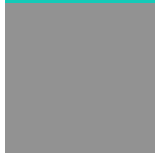
45.6301, 0.2272, 0.3228

# Monochromacy



## Original Color

45.8505, 0.2339, 0.3567



## Achromatopsia

28.7441, 0.3127, 0.3290



## Achromatomaly

32.5198, 0.2630, 0.3389

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 45.8505, 0.2339, 0.3567 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(20, 202, 184)` looks like.

```
.text, #text, p{  
    color:rgb(20, 202, 184)  
}
```

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(20, 202, 184) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(20, 202, 184) }
```

## Border

The CSS property to change the border of an element to Yxy 45.8505, 0.2339, 0.3567 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(20, 202, 184) }
```

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

```
.border{ border-color:rgb(20, 202, 184) }
```

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

Here you see how a box with a 4 pixel `rgb(20, 202, 184)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(20, 202, 184); -webkit-box-  
shadow:4px 4px 4px 4px rgb(20, 202, 184);  
box-shadow:4px 4px 4px 4px rgb(20, 202,  
184) }
```



# Background

The CSS property to change the background color of an element to Yxy 45.8505, 0.2339, 0.3567 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(20, 202, 184) }
```

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

```
.background{ background-color: rgb(20, 202,  
184) }
```

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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