

# Converting Colors

$Y_{xy}(45.1922, 0.2267, 0.3115)$

Have a look what the booklet for  
Yxy(45.1922, 0.2267, 0.3115)  
contains.

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# Color

**Yxy(45.3202, 0.2265, 0.3112)**

# Conversions

## Conversions Part 1

Format	Color
Hex	36C5D1
RGB	54, 197, 209
RGB Percent	21%, 77%, 82%
CMY	0.7892, 0.2274, 0.1804
CMYK	0.74, 0.06, 0.00, 0.18
HSL	185°, 63%, 52%
HSV	185°, 74%, 82%
XYZ	32.9853, 45.3202, 67.3250
YIQ	155.6110, -89.0800, -26.5840

# Conversions

## Conversions Part 2

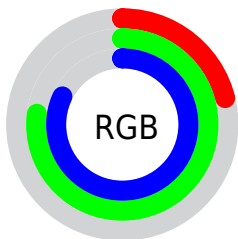
<b>Format</b>	<b>Color</b>
<b>RYB</b>	54, 128, 209
Decimal	3589585
CIELab	73.10, -32.69, -16.76
CIELCh	73, 36.739, 207.145
Yxy	45.3202, 0.2265, 0.3112
Android (android.graphics.Color)	4281779665 (0xFF36C5D1)
YUV	155.6110, 26.3208, -89.1128
Hunter-Lab	67.3203, -30.3498, -12.1699

# Details

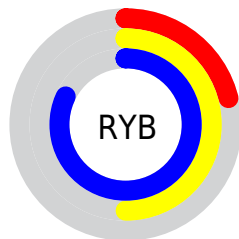
The Yxy color **45.3202, 0.2265, 0.3112** is a light color, and the websafe version is hex **33CCCC**. The color can be described as light muted cyan. A complement of this color would be **17.6836, 0.5563, 0.3406**, and the grayscale version is **32.9448, 0.3127, 0.3290**.

A 20% lighter version of the original color is **82.3887, 0.2458, 0.3277**, and **22.0115, 0.2181, 0.3050** is the 20% darker color. If you saturate the color by 10%, you get **44.1370, 0.2219, 0.3086**, and if you desaturate by 10%, it is **46.7625, 0.2330, 0.3138**.

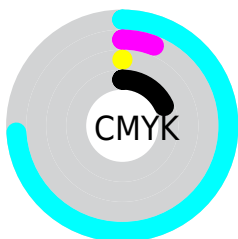
# Distribution



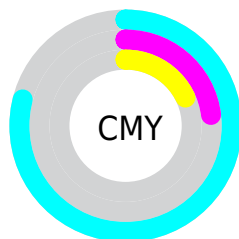
- Red (21%)
- Green (77%)
- Blue (82%)



- Red (21%)
- Yellow (50%)
- Blue (82%)



- Cyan (74%)
- Magenta (6%)
- Yellow (0%)
- Black (18%)




- Cyan (79%)
- Magenta (23%)
- Yellow (18%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 45.3202, 0.2265, 0.3112 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 45.3202, 0.2265, 0.3112 by changing the saturation by 10% instead.





 45.3202, 0.2265,  
0.3112

 45.3202, 0.2265,  
0.3112


368.0688, 0.2684,  
0.3215

 31.7097, 0.2165,  
0.3083


 83.2007, 0.2414,  
0.3152

 21.1399, 0.2040,  
0.3043


 108.2395, 0.2471,  
0.3167

 13.2263, 0.1880,  
0.2986


 137.8565, 0.2519,  
0.3178

 7.5845, 0.1667,  
0.2901

 172.4362, 0.2561,  
0.3188

 3.8303, 0.1376,  
0.2764

 212.3628, 0.2598,  
0.3196

 1.5791, 0.0930,  
0.2530

258.0209, 0.2630,

 0.3434, 0.0000,

0.3203

0.1705

309.7948, 0.2658,  
0.3209

0.0000, 0.0000,  
0.0000

45.3202, 0.2265,  
0.3112

45.3202, 0.2265,  
0.3112

44.1370, 0.2219,  
0.3086

46.7625, 0.2330,  
0.3138

43.1734, 0.2190,  
0.3060

48.4872, 0.2415,  
0.3165

42.6867, 0.2179,  
0.3045

50.5205, 0.2517,  
0.3191

52.8844, 0.2636,  
0.3215

55.5986, 0.2768,  
0.3239

■ 58.6813, 0.2911,  
0.3261

■ 62.1495, 0.3061,  
0.3282

■ 66.0191, 0.3216,  
0.3301

■ 70.3050, 0.3374,  
0.3317

# Harmonies

## Analogous

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



45.3202, 0.2554, 0.3632



45.3202, 0.2265, 0.3112



45.3202, 0.2192, 0.2706

# Triad

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



45.3202, 0.2265, 0.3112



45.3202, 0.3180, 0.2654



45.3202, 0.3944, 0.4091

# Complementary

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



45.3202, 0.2265, 0.3112



17.6836, 0.5563, 0.3406

# 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.



45.3202, 0.4156, 0.3757



45.3202, 0.2265, 0.3112



45.3202, 0.3700, 0.2960

# Square

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



45.3202, 0.2265, 0.3112



45.3202, 0.2686, 0.2486



45.3202, 0.4069, 0.3351



45.3202, 0.3519, 0.4233



# Rectangle

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



45.3202, 0.2265, 0.3112



45.3202, 0.2266, 0.2543



45.3202, 0.4069, 0.3351



45.3202, 0.4044, 0.3994

# Sweetspot

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



45.3219, 0.2265, 0.3112



88.1386, 0.2796, 0.3244



46.7462, 0.2985, 0.5529



18.5964, 0.2758, 0.3237



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.



45.3219, 0.2265, 0.3112



68.3231, 0.2200, 0.3071



19.0620, 0.1949, 0.1871



13.2445, 0.2983, 0.3271



26.3873, 0.2180, 0.3049



1.5228, 0.2193, 0.3096



# Inverse Universe

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



20.2023, 0.3345, 0.1794



28.2363, 0.3390, 0.1679



33.0825, 0.4715, 0.4264



11.9927, 0.3149, 0.3078



10.7351, 0.3411, 0.1653

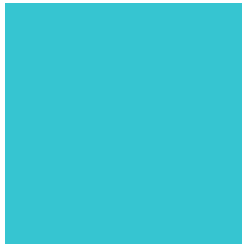


0.6050, 0.3370, 0.1630



# Previews

## White Background



This preview shows how the Yxy color 45.3202, 0.2265, 0.3112 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

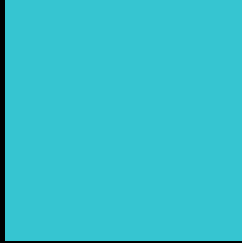
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 45.3202, 0.2265, 0.3112 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 45.3202, 0.2265, 0.3112**

## **Background**



This preview shows how black text looks on a background with the Yxy color 45.3202, 0.2265, 0.3112.



This preview shows how white text looks on a background with the Yxy color 45.3202, 0.2265, 0.3112.

# 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

45.3202, 0.2265, 0.3112

### Protanopia

44.6599, 0.2969, 0.3042

### Deuteranopia

44.5921, 0.2851, 0.2786



## Tritanopia

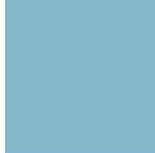
45.0741, 0.2254, 0.3055

# Trichromacy



## Original Color

45.3202, 0.2265, 0.3112



## Protanomaly

43.4036, 0.2615, 0.3051



## Deuteranomaly

43.1959, 0.2551, 0.2878



## Tritanomaly

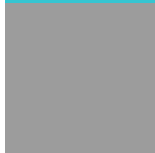
44.9952, 0.2255, 0.3068

# Monochromacy



## Original Color

45.3202, 0.2265, 0.3112



## Achromatopsia

33.2452, 0.3127, 0.3290



## Achromatomaly

36.1429, 0.2670, 0.3227

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 45.3202, 0.2265, 0.3112 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(54, 197, 209)` looks like.

```
.text, #text, p{  
    color:rgb(54, 197, 209)  
}
```

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(54, 197, 209) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(54, 197, 209) }
```

## Border

The CSS property to change the border of an element to Yxy 45.3202, 0.2265, 0.3112 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(54, 197, 209) }
```

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

```
.border{ border-color:rgb(54, 197, 209) }
```

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

Here you see how a box with a 4 pixel `rgb(54, 197, 209)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(54, 197, 209); -webkit-box-  
shadow:4px 4px 4px 4px rgb(54, 197, 209);  
box-shadow:4px 4px 4px 4px rgb(54, 197,  
209) }
```



# Background

The CSS property to change the background color of an element to Yxy 45.3202, 0.2265, 0.3112 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(54, 197, 209) }
```

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

```
.background{ background-color: rgb(54, 197,  
209) }
```

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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