

# Converting Colors

$Y_{xy}(58.5949, 0.2356, 0.3529)$

Have a look what the booklet for  
Yxy(58.5949, 0.2356, 0.3529)  
contains.

<b>Yxy(58.3742, 0.2355, 0.3525)</b> .....	3
<b><i>Conversions</i></b> .....	4
<b><i>Details</i></b> .....	6
<b><i>Harmonies</i></b> .....	12
<b><i>Previews</i></b> .....	24
<b><i>Color Blindness Simulation</i></b> .....	27
<b><i>CSS Examples</i></b> .....	30

# Color

**Yxy(58.3742, 0.2355, 0.3525)**

# Conversions

## Conversions Part 1

Format	Color
Hex	2DE0CF
RGB	45, 224, 207
RGB Percent	18%, 88%, 81%
CMY	0.8234, 0.1216, 0.1883
CMYK	0.80, 0.00, 0.08, 0.12
HSL	174°, 74%, 53%
HSV	174°, 80%, 88%
XYZ	38.9989, 58.3742, 68.2274
YIQ	168.5410, -101.2270, -43.2350

# Conversions

## Conversions Part 2

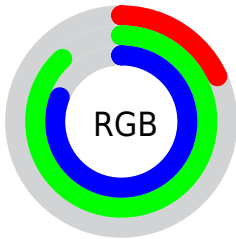
Format	Color
R <sub>Y</sub> B	45, 139, 224
Decimal	3006671
CIE Lab	80.95, -46.33, -4.00
CIE LCh	81, 46.502, 184.929
Yxy	58.3742, 0.2355, 0.3525
Android (android.graphics.Color)	4281196751 (0xFF2DE0CF)
YUV	168.5410, 18.9603, -108.3455
Hunter-Lab	76.4030, -42.5922, 0.5365

# Details

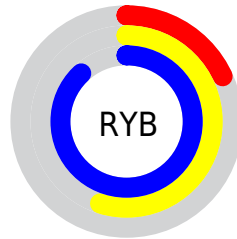
The Yxy color **58.3742, 0.2355, 0.3525** is a light color, and the websafe version is hex **00CCCC**. The color can be described as light washed cyan. A complement of this color would be **18.0768, 0.5714, 0.3173**, and the grayscale version is **39.3866, 0.3127, 0.3290**.

A 20% lighter version of the original color is **82.9510, 0.2457, 0.3288**, and **30.3052, 0.2324, 0.3565** is the 20% darker color. If you saturate the color by 10%, you get **57.8920, 0.2335, 0.3558**, and if you desaturate by 10%, it is **59.1316, 0.2393, 0.3492**.

# Distribution



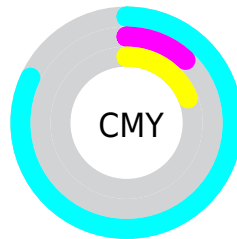
- Red (18%)
- Green (88%)
- Blue (81%)



- Red (18%)
- Yellow (55%)
- Blue (88%)



- Cyan (80%)
- Magenta (0%)
- Yellow (8%)
- Black (12%)




- Cyan (82%)
- Magenta (12%)
- Yellow (19%)

# Brightness & Saturation Gradients

These gradients show how the Yxy color 58.3742, 0.2355, 0.3525 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 58.3742, 0.2355, 0.3525 by changing the saturation by 10% instead.




 58.3742, 0.2355,  
0.3525


 58.3742, 0.2355,  
0.3525


418.5788, 0.2720,  
0.3418

 42.1096, 0.2270,  
0.3549


 102.4676, 0.2483,  
0.3488


 29.1871, 0.2165,  
0.3577


 131.0651, 0.2532,  
0.3474

 19.2224, 0.2031,  
0.3613


 164.5424, 0.2575,  
0.3462

 11.8311, 0.1856,  
0.3657

 203.2838, 0.2611,  
0.3451

 6.6288, 0.1617,  
0.3712

 247.6738, 0.2644,  
0.3441

 3.2310, 0.1281,  
0.3780

298.0967, 0.2672,

 1.2535, 0.0069,

0.3433

0.4147

354.9369, 0.2697,  
0.3425

■ 0.1048, 0.0000,  
0.2103

■ 0.0000, 0.0000,  
0.0000

■ 58.3742, 0.2355,  
0.3525

■ 58.3742, 0.2355,  
0.3525

■ 57.8920, 0.2335,  
0.3558

■ 59.1316, 0.2393,  
0.3492


■ 57.6134, 0.2331,  
0.3590


■ 60.1948, 0.2451,  
0.3460

■ 57.6107, 0.2331,  
0.3590

■ 61.5975, 0.2528,  
0.3427

■ 63.3674, 0.2622,  
0.3396

 65.5293, 0.2732,  
0.3367

 68.1056, 0.2855,  
0.3339

 71.1174, 0.2988,  
0.3313

 74.5840, 0.3129,  
0.3290

 78.5238, 0.3273,  
0.3269

# Harmonies

## Analogous

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



58.3742, 0.2834, 0.4101



58.3742, 0.2355, 0.3525



58.3742, 0.2092, 0.2933

# Triad

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



58.3742, 0.2355, 0.3525



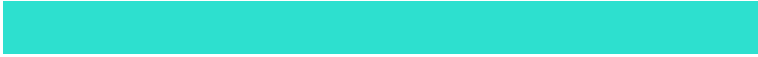
58.3742, 0.2749, 0.2403



58.3742, 0.4285, 0.3926

# Complementary

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



58.3742, 0.2355, 0.3525



18.0768, 0.5714, 0.3173

# 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.



58.3742, 0.4285, 0.3470



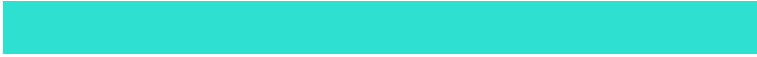
58.3742, 0.2355, 0.3525



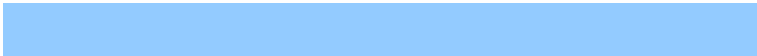
58.3742, 0.3346, 0.2639

# Square

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



58.3742, 0.2355, 0.3525



58.3742, 0.2303, 0.2355



58.3742, 0.3930, 0.3016



58.3742, 0.3955, 0.4283

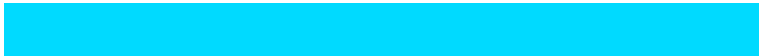


# Rectangle

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



58.3742, 0.2355, 0.3525



58.3742, 0.2055, 0.2635



58.3742, 0.3930, 0.3016



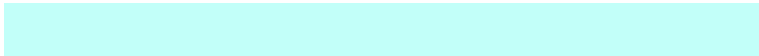
58.3742, 0.4326, 0.3779

# Sweetspot

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



58.3764, 0.2355, 0.3525



89.8135, 0.2801, 0.3351



54.5583, 0.3064, 0.5730



18.9631, 0.2757, 0.3361



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.



58.3764, 0.2355, 0.3525



77.3954, 0.2332, 0.3580



28.5342, 0.2002, 0.2211



15.5487, 0.2995, 0.3312



33.5415, 0.2329, 0.3585



2.3315, 0.2315, 0.3535



# Inverse Universe

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



18.0768, 0.5714, 0.3173



21.5940, 0.6244, 0.3239



28.6740, 0.5195, 0.3969



13.7216, 0.3277, 0.3268



9.2639, 0.6288, 0.3237

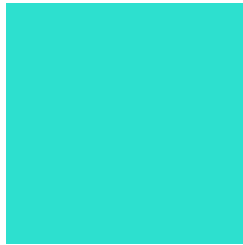


0.6495, 0.6009, 0.3084



# Previews

## White Background



This preview shows how the Yxy color 58.3742, 0.2355, 0.3525 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

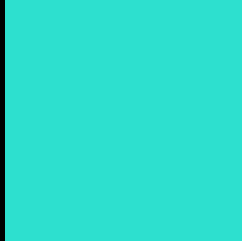
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 58.3742, 0.2355, 0.3525 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

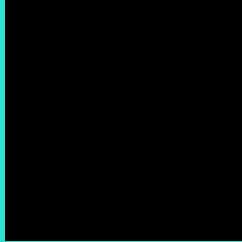
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

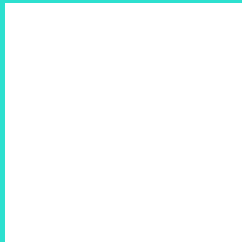
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**Yxy 58.3742, 0.2355, 0.3525**

## **Background**



This preview shows how black text looks on a background with the Yxy color 58.3742, 0.2355, 0.3525.

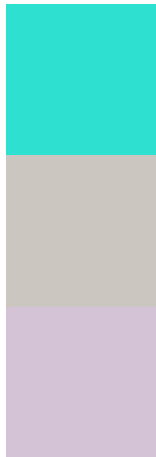


This preview shows how white text looks on a background with the Yxy color 58.3742, 0.2355, 0.3525.

# 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

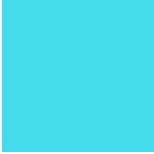
58.3742, 0.2355, 0.3525

### Protanopia

57.0313, 0.3219, 0.3362

### Deuteranopia

57.4357, 0.3122, 0.3061



## **Tritanopia**

58.5298, 0.2266, 0.3065

# Trichromacy



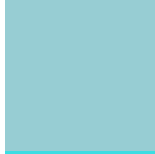
## Original Color

58.3742, 0.2355, 0.3525



## Protanomaly

54.7679, 0.2764, 0.3421



## Deuteranomaly

54.9451, 0.2709, 0.3212



## Tritanomaly

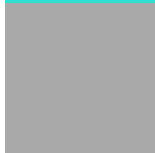
58.1645, 0.2295, 0.3221

# Monochromacy



## Original Color

58.3742, 0.2355, 0.3525



## Achromatopsia

39.6755, 0.3127, 0.3290



## Achromatomaly

44.0992, 0.2684, 0.3376

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 58.3742, 0.2355, 0.3525 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(45, 224, 207)` looks like.

```
.text, #text, p{  
    color:rgb(45, 224, 207)  
}
```

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(45, 224, 207) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(45, 224, 207) }
```

## Border

The CSS property to change the border of an element to Yxy 58.3742, 0.2355, 0.3525 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(45, 224, 207) }
```

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

```
.border{ border-color:rgb(45, 224, 207) }
```

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

Here you see how a box with a 4 pixel `rgb(45, 224, 207)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(45, 224, 207); -webkit-box-  
shadow:4px 4px 4px 4px rgb(45, 224, 207);  
box-shadow:4px 4px 4px 4px rgb(45, 224,  
207) }
```



# Background

The CSS property to change the background color of an element to Yxy 58.3742, 0.2355, 0.3525 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(45, 224, 207) }
```

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

```
.background{ background-color: rgb(45, 224,  
207) }
```

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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