

# Converting Colors

$Yxy(54.8944, 0.2331, 0.3299)$

Have a look what the booklet for  
Yxy(54.8944, 0.2331, 0.3299)  
contains.

<b>Yxy(55.1080, 0.2333, 0.3301)</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(55.1080, 0.2333, 0.3301)**

# Conversions

## Conversions Part 1

Format	Color
Hex	40D8D7
RGB	64, 216, 215
RGB Percent	25%, 85%, 84%
CMY	0.7482, 0.1530, 0.1568
CMYK	0.70, 0.00, 0.00, 0.15
HSL	180°, 66%, 55%
HSV	180°, 70%, 85%
XYZ	38.9479, 55.1080, 72.8875
YIQ	170.4380, -90.2710, -32.5350

# Conversions

## Conversions Part 2

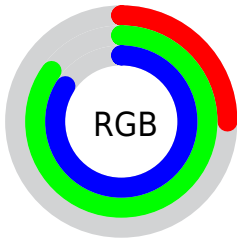
<b>Format</b>	<b>Color</b>
<b>RYB</b>	64, 140, 216
Decimal	4249815
CIELab	79.10, -38.55, -10.98
CIELCh	79, 40.083, 195.904
Yxy	55.1080, 0.2333, 0.3301
Android (android.graphics.Color)	4282439895 (0xFF40D8D7)
YUV	170.4380, 21.9691, -93.3461
Hunter-Lab	74.2348, -36.2593, -6.2496

# Details

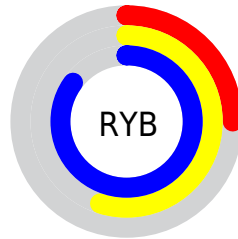
The Yxy color **55.1080, 0.2333, 0.3301** is a light color, and the websafe version is hex **33CCCC**. The color can be described as light muted cyan. A complement of this color would be **18.6718, 0.5480, 0.3288**, and the grayscale version is **40.3812, 0.3127, 0.3290**.

A 20% lighter version of the original color is **83.7265, 0.2493, 0.3288**, and **27.6797, 0.2247, 0.3287** is the 20% darker color. If you saturate the color by 10%, you get **54.5111, 0.2289, 0.3303**, and if you desaturate by 10%, it is **55.9895, 0.2396, 0.3299**.

# Distribution



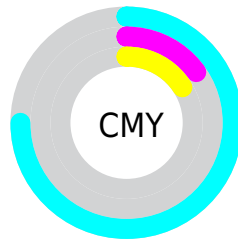
- Red (25%)
- Green (85%)
- Blue (84%)



- Red (25%)
- Yellow (55%)
- Blue (85%)



- Cyan (70%)
- Magenta (0%)
- Yellow (0%)
- Black (15%)




- Cyan (75%)
- Magenta (15%)
- Yellow (16%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 55.1080, 0.2333, 0.3301 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 55.1080, 0.2333, 0.3301 by changing the saturation by 10% instead.





 55.1080, 0.2333,  
0.3301

 55.1080, 0.2333,  
0.3301


406.3212, 0.2709,  
0.3306

 39.4882, 0.2246,  
0.3297


 97.6992, 0.2465,  
0.3305

 27.1397, 0.2137,  
0.3290


 125.4393, 0.2516,  
0.3306

 17.6782, 0.2000,  
0.3278

 157.9884, 0.2559,  
0.3307

 10.7192, 0.1820,  
0.3257

 195.7308, 0.2597,  
0.3307

 5.8783, 0.1576,  
0.3217

239.0508, 0.2630,  
0.3307

 2.7712, 0.1233,  
0.3136

288.3330, 0.2659,

 1.0135, 0.0053,

0.3307

0.3162

343.9617, 0.2685,  
0.3307

■ 0.0000, 0.0000,  
0.0000

■ 55.1080, 0.2333,  
0.3301

■ 55.1080, 0.2333,  
0.3301

■ 54.5111, 0.2289,  
0.3303

■ 55.9895, 0.2396,  
0.3299

■ 54.1584, 0.2264,  
0.3305


■ 57.1784, 0.2478,  
0.3297


■ 53.9919, 0.2252,  
0.3307

■ 58.7021, 0.2578,  
0.3296


■ 60.5832, 0.2696,  
0.3294

■ 62.8426, 0.2828,  
0.3293

 65.4992, 0.2971,  
0.3291

 68.5711, 0.3123,  
0.3290

 72.0750, 0.3281,  
0.3289

 75.3368, 0.3414,  
0.3288

# Harmonies

## Analogous

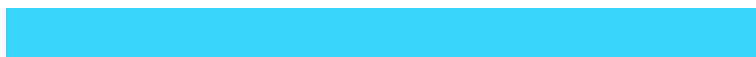
The Analogous color harmony consists of three colors that are next to each other on the color wheel.



55.1080, 0.2700, 0.3831



55.1080, 0.2333, 0.3301



55.1080, 0.2174, 0.2826

# Triad

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



55.1080, 0.2333, 0.3301



55.1080, 0.2980, 0.2558



55.1080, 0.4074, 0.3994

# Complementary

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



55.1080, 0.2333, 0.3301



18.6718, 0.5480, 0.3288

# 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.



55.1080, 0.4183, 0.3613



55.1080, 0.2333, 0.3301



55.1080, 0.3521, 0.2823

# Square

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



55.1080, 0.2333, 0.3301



55.1080, 0.2522, 0.2451



55.1080, 0.3978, 0.3196



55.1080, 0.3707, 0.4231



# Rectangle

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



55.1080, 0.2333, 0.3301



55.1080, 0.2194, 0.2608



55.1080, 0.3978, 0.3196



55.1080, 0.4144, 0.3877

# Sweetspot

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



55.1101, 0.2333, 0.3301



91.1980, 0.2815, 0.3293



50.6624, 0.3032, 0.5528



19.3148, 0.2777, 0.3293



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.



55.1101, 0.2333, 0.3301



79.1198, 0.2276, 0.3304



25.5886, 0.2050, 0.2159



14.1065, 0.2984, 0.3291



31.9625, 0.2252, 0.3307



1.9283, 0.2251, 0.3303



# Inverse Universe

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



18.6718, 0.5480, 0.3288



23.0004, 0.6076, 0.3293



33.0239, 0.4752, 0.4100



12.4221, 0.3290, 0.3289



8.6435, 0.6393, 0.3296

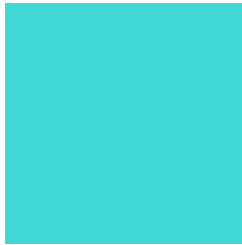


0.5218, 0.6370, 0.3283



# Previews

## White Background



This preview shows how the Yxy color 55.1080, 0.2333, 0.3301 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

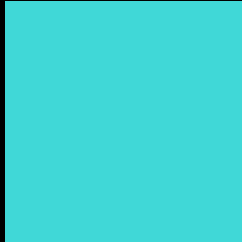
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 55.1080, 0.2333, 0.3301 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

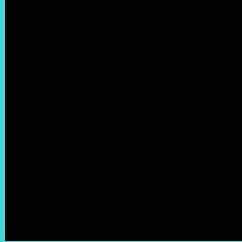
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

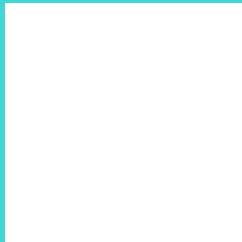
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**Yxy 55.1080, 0.2333, 0.3301**

## **Background**



This preview shows how black text looks on a background with the Yxy color 55.1080, 0.2333, 0.3301.

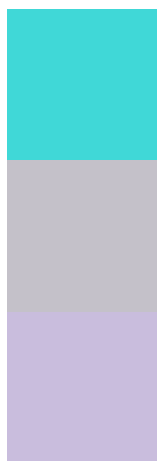


This preview shows how white text looks on a background with the Yxy color 55.1080, 0.2333, 0.3301.

# 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

55.1080, 0.2333, 0.3301

### Protanopia

54.0927, 0.3092, 0.3193

### Deuteranopia

54.0332, 0.2986, 0.2916



## Tritanopia

55.3185, 0.2285, 0.3061

# Trichromacy



## Original Color

55.1080, 0.2333, 0.3301



## Protanomaly

52.5254, 0.2715, 0.3223



## Deuteranomaly

52.5406, 0.2654, 0.3033



## Tritanomaly

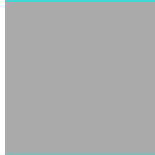
55.3392, 0.2302, 0.3152

# Monochromacy



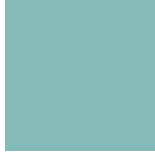
## Original Color

55.1080, 0.2333, 0.3301



## Achromatopsia

40.1978, 0.3127, 0.3290



## Achromatomaly

43.9914, 0.2714, 0.3303

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 55.1080, 0.2333, 0.3301 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(64, 216, 215)` looks like.

```
.text, #text, p{  
    color:rgb(64, 216, 215)  
}
```

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(64, 216, 215) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(64, 216, 215) }
```

## Border

The CSS property to change the border of an element to Yxy 55.1080, 0.2333, 0.3301 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(64, 216, 215) }
```

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

```
.border{ border-color:rgb(64, 216, 215) }
```

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

Here you see how a box with a 4 pixel `rgb(64, 216, 215)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(64, 216, 215); -webkit-box-  
shadow:4px 4px 4px 4px rgb(64, 216, 215);  
box-shadow:4px 4px 4px 4px rgb(64, 216,  
215) }
```



# Background

The CSS property to change the background color of an element to Yxy 55.1080, 0.2333, 0.3301 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(64, 216, 215) }
```

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

```
.background{ background-color: rgb(64, 216,  
215) }
```

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](#).

Hey! You found this booklet interesting? Support Converting Colors with the new Membership Option!

The pro membership hides all ads, plus gives you double the colors in the color bucket, and more awesome pro features!

**[Learn more, Memberships starting at \\$2.50/m!](#)**

**Follow me  
on Twitter!**

@ConvertingColor