

# Converting Colors

$Y_{xy}(53.0016, 0.2240, 0.3240)$

Have a look what the booklet for  
Yxy(53.0016, 0.2240, 0.3240)  
contains.

<b>Yxy(53.1885, 0.2241, 0.3245)</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(53.1885, 0.2241, 0.3245)**

# Conversions

## Conversions Part 1

Format	Color
Hex	0CD6D9
RGB	12, 214, 217
RGB Percent	5%, 84%, 85%
CMY	0.9513, 0.1607, 0.1489
CMYK	0.94, 0.01, 0.00, 0.15
HSL	181°, 89%, 45%
HSV	181°, 94%, 85%
XYZ	36.7320, 53.1885, 73.9886
YIQ	153.9440, -121.3550, -41.8910

# Conversions

## Conversions Part 2

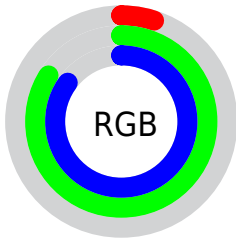
Format	Color
<a href="#">RYB</a>	<a href="#">12, 114, 217</a>
Decimal	<a href="#">841433</a>
CIELab	<a href="#">77.99, -40.91, -13.79</a>
CIELCh	<a href="#">78, 43.174, 198.623</a>
Yxy	<a href="#">53.1885, 0.2241, 0.3245</a>
Android (android.graphics.Color)	<a href="#">4279031513</a> ( <a href="#">0xFF0CD6D9</a> )
YUV	<a href="#">153.9440, 31.0866, -124.4849</a>
Hunter-Lab	<a href="#">72.9304, -37.7253, -9.0989</a>

# Details

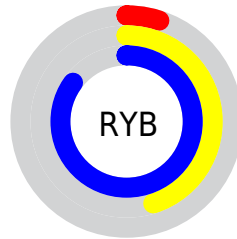
The Yxy color **53.1885, 0.2241, 0.3245** is a dark color, and the websafe version is hex **00CCCC**. The color can be described as middle washed cyan. A complement of this color would be **15.1359, 0.6308, 0.3307**, and the grayscale version is **32.2506, 0.3127, 0.3290**.

A 20% lighter version of the original color is **82.1847, 0.2420, 0.3288**, and **27.4049, 0.2231, 0.3232** is the 20% darker color. If you saturate the color by 10%, you get **53.0170, 0.2234, 0.3242**, and if you desaturate by 10%, it is **53.6130, 0.2262, 0.3250**.

# Distribution



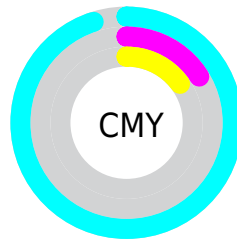
- Red (5%)
- Green (84%)
- Blue (85%)



- Red (5%)
- Yellow (45%)
- Blue (85%)



- Cyan (94%)
- Magenta (1%)
- Yellow (0%)
- Black (15%)




- Cyan (95%)
- Magenta (16%)
- Yellow (15%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 53.1885, 0.2241, 0.3245 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 53.1885, 0.2241, 0.3245 by changing the saturation by 10% instead.





 53.1885, 0.2241,  
0.3245


 53.1885, 0.2241,  
0.3245


399.0079, 0.2660,  
0.3281


 37.9533, 0.2144,  
0.3232


 94.8817, 0.2388,  
0.3261


 25.9464, 0.2024,  
0.3214


 122.1084, 0.2444,  
0.3266


 16.7836, 0.1871,  
0.3187


 154.1011, 0.2493,  
0.3270

 10.0803, 0.1673,  
0.3145

 191.2442, 0.2535,  
0.3273

 5.4522, 0.1408,  
0.3072

 233.9220, 0.2572,  
0.3276

 2.5150, 0.1044,  
0.2934

282.5190, 0.2605,

 0.8841, 0.0000,

0.3278

0.2792

337.4195, 0.2634,  
0.3280

0.0000, 0.0000,  
0.0000

53.1885, 0.2241,  
0.3245

53.1885, 0.2241,  
0.3245

53.0170, 0.2234,  
0.3242

53.6130, 0.2262,  
0.3250

54.2685, 0.2301,  
0.3255

55.1948, 0.2358,  
0.3260

56.4231, 0.2434,  
0.3265

57.9804, 0.2530,  
0.3270

■ 59.8905, 0.2642,  
0.3275

■ 62.1752, 0.2770,  
0.3279

■ 64.8545, 0.2911,  
0.3284

■ 67.9469, 0.3061,  
0.3288

# Harmonies

## Analogous

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



53.1885, 0.2617, 0.3833



53.1885, 0.2241, 0.3245



53.1885, 0.2095, 0.2744

# Triad

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



53.1885, 0.2241, 0.3245



53.1885, 0.3017, 0.2520



53.1885, 0.4128, 0.4080

# Complementary

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



53.1885, 0.2241, 0.3245



15.1359, 0.6308, 0.3307

# 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.



53.1885, 0.4281, 0.3672



53.1885, 0.2241, 0.3245



53.1885, 0.3607, 0.2817

# Square

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



53.1885, 0.2241, 0.3245



53.1885, 0.2508, 0.2387



53.1885, 0.4089, 0.3223

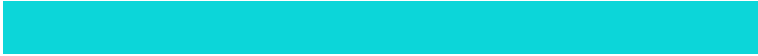


53.1885, 0.3706, 0.4326



# Rectangle

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



53.1885, 0.2241, 0.3245



53.1885, 0.2131, 0.2525



53.1885, 0.4089, 0.3223



53.1885, 0.4214, 0.3955

# Sweetspot

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



53.1905, 0.2241, 0.3245



88.2129, 0.2718, 0.3278



49.7446, 0.3002, 0.5962



18.5804, 0.2663, 0.3276



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.



53.1905, 0.2241, 0.3245



76.3705, 0.2234, 0.3242



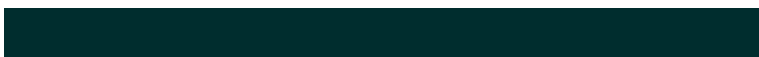
17.2886, 0.1805, 0.1661



14.7950, 0.2982, 0.3286



32.1018, 0.2234, 0.3243



2.0905, 0.2236, 0.3251



# Inverse Universe

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



19.8834, 0.3244, 0.1577



28.2408, 0.3247, 0.1562



26.9790, 0.5311, 0.4119



13.2714, 0.3140, 0.3063



11.8645, 0.3246, 0.1562

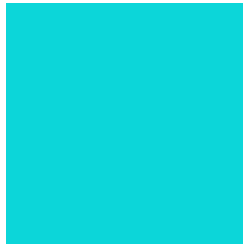


0.7697, 0.3240, 0.1558



# Previews

## White Background



This preview shows how the Yxy color 53.1885, 0.2241, 0.3245 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

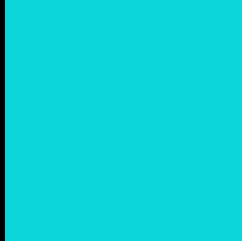
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 53.1885, 0.2241, 0.3245 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

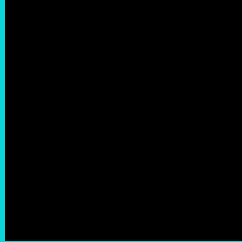
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**Yxy 53.1885, 0.2241, 0.3245**

## **Background**



This preview shows how black text looks on a background with the Yxy color 53.1885, 0.2241, 0.3245.

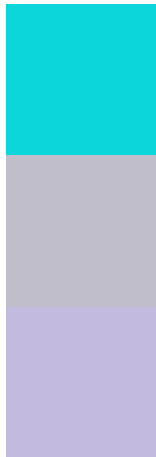


This preview shows how white text looks on a background with the Yxy color 53.1885, 0.2241, 0.3245.

# 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

53.1811, 0.2241, 0.3245

### Protanopia

52.1675, 0.3046, 0.3142

### Deuteranopia

52.3377, 0.2918, 0.2863



## Tritanopia

53.1374, 0.2210, 0.3055

# Trichromacy



## Original Color

53.1811, 0.2241, 0.3245



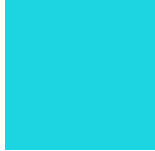
## Protanomaly

49.7875, 0.2573, 0.3179



## Deuteranomaly

49.7422, 0.2503, 0.2970



## Tritanomaly

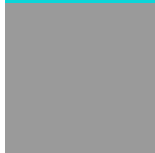
53.2716, 0.2219, 0.3122

# Monochromacy



## Original Color

53.1811, 0.2241, 0.3245



## Achromatopsia

32.3143, 0.3127, 0.3290



## Achromatomaly

37.1086, 0.2562, 0.3273

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 53.1885, 0.2241, 0.3245 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(12, 214, 217)` looks like.

```
.text, #text, p{  
  color:rgb(12, 214, 217)  
}
```

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(12, 214, 217) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(12, 214, 217) }
```

## Border

The CSS property to change the border of an element to Yxy 53.1885, 0.2241, 0.3245 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(12, 214, 217) }
```

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

```
.border{ border-color:rgb(12, 214, 217) }
```

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

Here you see how a box with a 4 pixel `rgb(12, 214, 217)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(12, 214, 217); -webkit-box-  
shadow:4px 4px 4px 4px rgb(12, 214, 217);  
box-shadow:4px 4px 4px 4px rgb(12, 214,  
217) }
```



# Background

The CSS property to change the background color of an element to Yxy 53.1885, 0.2241, 0.3245 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(12, 214, 217) }
```

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

```
.background{ background-color: rgb(12, 214,  
217) }
```

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