

# Converting Colors

$Y_{xy}(50.1157, 0.2199, 0.3642)$

Have a look what the booklet for  
Yxy(50.1157, 0.2199, 0.3642)  
contains.

<b>Yxy(51.8547, 0.2342, 0.3630)</b> .....	3
<b>Conversions</b> .....	4
<b>Details</b> .....	6
<b>Harmonies</b> .....	12
<b>Previews</b> .....	24
<b>Color Blindness Simulation</b> .....	27
<b>CSS Examples</b> .....	30

# Color

**Yxy(51.8547, 0.2342, 0.3630)**

# Conversions

## Conversions Part 1

Format	Color
Hex	01D6BF
RGB	1, 214, 191
RGB Percent	0%, 84%, 75%
CMY	0.9980, 0.1608, 0.2509
CMYK	1.00, 0.00, 0.11, 0.16
HSL	174°, 100%, 42%
HSV	174°, 100%, 84%
XYZ	33.4556, 51.8547, 57.5401
YIQ	147.6910, -119.5650, -52.3090

# Conversions

## Conversions Part 2

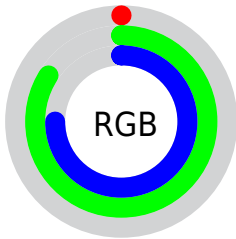
Format	Color
<b>RYB</b>	1, 114, 214
Decimal	120511
CIELab	77.19, -48.67, -1.02
CIELCh	77, 48.677, 181.197
Yxy	51.8547, 0.2342, 0.3630
Android (android.graphics.Color)	4278310591 (0xFF01D6BF)
YUV	147.6910, 21.3513, -128.6480
Hunter-Lab	72.0102, -43.0877, 3.0311

# Details

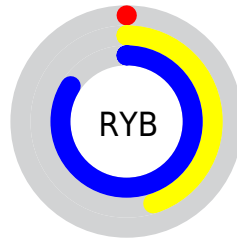
The Yxy color **51.8547, 0.2342, 0.3630** is a dark color, and the websafe version is hex **00CCCC**. The color can be described as middle washed spring green. A complement of this color would be **14.3706, 0.6282, 0.3236**, and the grayscale version is **29.3612, 0.3127, 0.3290**.

A 20% lighter version of the original color is **81.3612, 0.2436, 0.3382**, and **26.2887, 0.2357, 0.3685** is the 20% darker color. If you saturate the color by 10%, you get **51.8509, 0.2342, 0.3631**, and if you desaturate by 10%, it is **52.1252, 0.2346, 0.3593**.

# Distribution



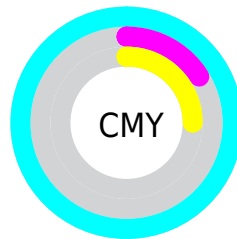
- Red (0%)
- Green (84%)
- Blue (75%)



- Red (0%)
- Yellow (45%)
- Blue (84%)



- Cyan (100%)
- Magenta (0%)
- Yellow (11%)
- Black (16%)




- Cyan (100%)
- Magenta (16%)
- Yellow (25%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 51.8547, 0.2342, 0.3630 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 51.8547, 0.2342, 0.3630 by changing the saturation by 10% instead.





 51.8547, 0.2342,  
0.3630

 51.8547, 0.2342,  
0.3630


393.8754, 0.2722,  
0.3467

 36.8893, 0.2251,  
0.3669


 92.9169, 0.2477,  
0.3572


 25.1218, 0.2137,  
0.3717


 119.7825, 0.2529,  
0.3550


 16.1678, 0.1990,  
0.3779


 151.3836, 0.2573,  
0.3531

 9.6430, 0.1794,  
0.3861

 188.1046, 0.2611,  
0.3515

 5.1629, 0.1522,  
0.3973

 230.3299, 0.2644,  
0.3500

 2.3431, 0.1099,  
0.4144

278.4438, 0.2673,

 0.7964, 0.0000,

0.3488

0.4591

332.8309, 0.2699,  
0.3477

■ 0.0000, 0.0000,  
0.0000

■ 51.8547, 0.2342,  
0.3630

■ 51.8547, 0.2342,  
0.3630

■ 51.8509, 0.2342,  
0.3631

■ 52.1252, 0.2346,  
0.3593

■ 52.5799, 0.2365,  
0.3556

■ 53.2790, 0.2403,  
0.3519

■ 54.2558, 0.2461,  
0.3482

■ 55.5384, 0.2537,  
0.3445

■ 57.1513, 0.2630,  
0.3410

■ 59.1166, 0.2739,  
0.3377

■ 61.4546, 0.2861,  
0.3345

■ 64.1839, 0.2992,  
0.3316

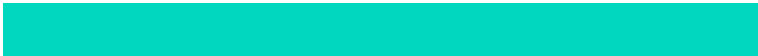
# Harmonies

## Analogous

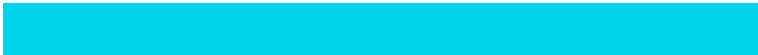
The Analogous color harmony consists of three colors that are next to each other on the color wheel.



51.8547, 0.2880, 0.4243



51.8547, 0.2342, 0.3630



51.8547, 0.2031, 0.2967

# Triad

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



51.8547, 0.2342, 0.3630



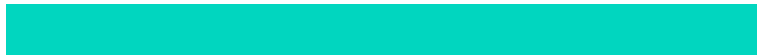
51.8547, 0.2644, 0.2318



51.8547, 0.4405, 0.3909

# Complementary

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



51.8547, 0.2342, 0.3630



14.3706, 0.6282, 0.3236

# 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.



51.8547, 0.4361, 0.3413



51.8547, 0.2342, 0.3630



51.8547, 0.3278, 0.2548

# Square

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



51.8547, 0.2342, 0.3630



51.8547, 0.2194, 0.2291



51.8547, 0.3931, 0.2934



51.8547, 0.4080, 0.4325

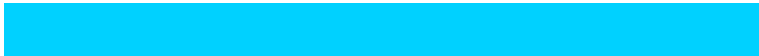


# Rectangle

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



51.8547, 0.2342, 0.3630



51.8547, 0.1970, 0.2627



51.8547, 0.3931, 0.2934



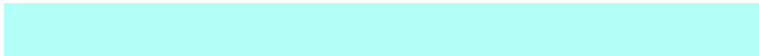
51.8547, 0.4435, 0.3746

# Sweetspot

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



51.8567, 0.2342, 0.3630



87.7450, 0.2733, 0.3378



48.3045, 0.3027, 0.5977



18.5032, 0.2685, 0.3392



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.



51.8567, 0.2342, 0.3630



77.0960, 0.2343, 0.3634



21.4044, 0.1882, 0.1973



14.0838, 0.2997, 0.3315



31.3511, 0.2340, 0.3625



1.8977, 0.2323, 0.3562



# Inverse Universe

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



14.3706, 0.6282, 0.3236



21.3413, 0.6300, 0.3244



20.3839, 0.5754, 0.3811



12.4423, 0.3274, 0.3265



8.6861, 0.6264, 0.3225

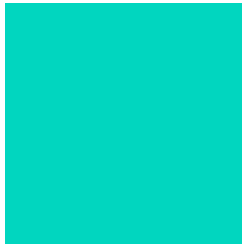


0.5314, 0.5923, 0.3037



# Previews

## White Background



This preview shows how the Yxy color 51.8547, 0.2342, 0.3630 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

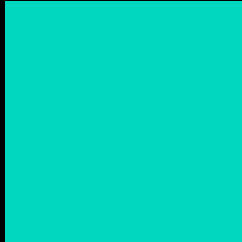
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 51.8547, 0.2342, 0.3630 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

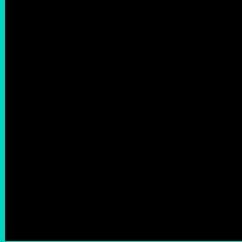
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

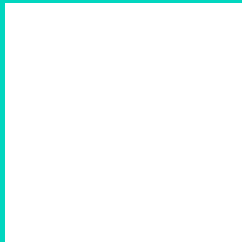
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**Yxy 51.8547, 0.2342, 0.3630**

## **Background**



This preview shows how black text looks on a background with the Yxy color 51.8547, 0.2342, 0.3630.

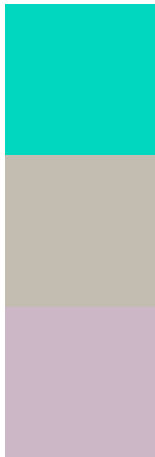


This preview shows how white text looks on a background with the Yxy color 51.8547, 0.2342, 0.3630.

# 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

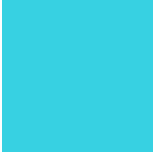
51.8612, 0.2342, 0.3630

### Protanopia

50.7429, 0.3272, 0.3428

### Deuteranopia

50.7816, 0.3186, 0.3110



## **Tritanopia**

51.9041, 0.2242, 0.3054

# Trichromacy



## Original Color

51.8612, 0.2342, 0.3630



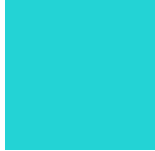
## Protanomaly

47.5950, 0.2704, 0.3504



## Deuteranomaly

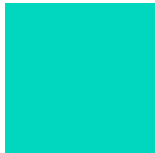
47.2695, 0.2657, 0.3275



## Tritanomaly

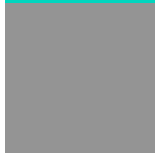
51.7500, 0.2267, 0.3259

# Monochromacy



## Original Color

51.8612, 0.2342, 0.3630



## Achromatopsia

29.6138, 0.3127, 0.3290



## Achromatomaly

34.5651, 0.2580, 0.3420

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 51.8547, 0.2342, 0.3630 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(1, 214, 191)` looks like.

```
.text, #text, p{  
    color:rgb(1, 214, 191)  
}
```

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(1, 214, 191) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(1, 214, 191) }
```

## Border

The CSS property to change the border of an element to Yxy 51.8547, 0.2342, 0.3630 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(1, 214, 191) }
```

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

```
.border{ border-color:rgb(1, 214, 191) }
```

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

Here you see how a box with a 4 pixel rgb(1, 214, 191) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(1, 214, 191); -webkit-box-  
shadow:4px 4px 4px 4px rgb(1, 214, 191);  
box-shadow:4px 4px 4px 4px rgb(1, 214,  
191) }
```



# Background

The CSS property to change the background color of an element to Yxy 51.8547, 0.2342, 0.3630 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(1, 214, 191) }
```

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

```
.background{ background-color: rgb(1, 214,  
191) }
```

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