

# Converting Colors

$Y_{xy}(50.7221, 0.2542, 0.4171)$

Have a look what the booklet for  
Yxy(50.7221, 0.2542, 0.4171)  
contains.

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# Color

**Yxy(50.5151, 0.2540, 0.4162)**

# Conversions

## Conversions Part 1

Format	Color
Hex	2AD59D
RGB	42, 213, 157
RGB Percent	16%, 84%, 62%
CMY	0.8362, 0.1647, 0.3843
CMYK	0.80, 0.00, 0.26, 0.16
HSL	160°, 67%, 50%
HSV	160°, 80%, 84%
XYZ	30.8285, 50.5151, 40.0285
YIQ	155.4870, -83.9400, -53.6680

# Conversions

## Conversions Part 2

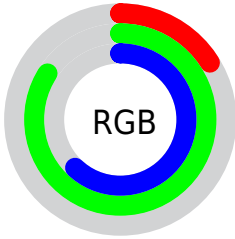
Format	Color
<b>RYB</b>	42, 144, 213
Decimal	2807197
CIELab	76.38, -54.67, 16.01
CIELCh	76, 56.966, 163.678
Yxy	50.5151, 0.2540, 0.4162
Android (android.graphics.Color)	4280997277 (0xFF2AD59D)
YUV	155.4870, 0.7459, -99.5281
Hunter-Lab	71.0740, -46.9546, 16.3599

# Details

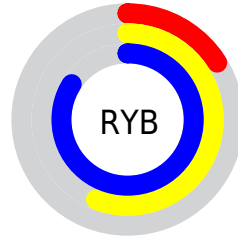
The Yxy color **50.5151, 0.2540, 0.4162** is a dark color, and the websafe version is hex **00CC99**. The color can be described as middle washed spring green. A complement of this color would be **16.6655, 0.5057, 0.2767**, and the grayscale version is **33.0020, 0.3127, 0.3290**.

A 20% lighter version of the original color is **80.0554, 0.2620, 0.3814**, and **25.1545, 0.2548, 0.4372** is the 20% darker color. If you saturate the color by 10%, you get **49.9521, 0.2541, 0.4287**, and if you desaturate by 10%, it is **51.3336, 0.2559, 0.4036**.

# Distribution



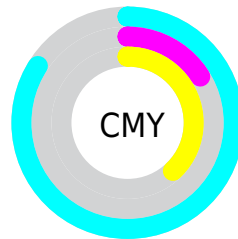
- Red (16%)
- Green (84%)
- Blue (62%)



- Red (16%)
- Yellow (56%)
- Blue (84%)



- Cyan (80%)
- Magenta (0%)
- Yellow (26%)
- Black (16%)




- Cyan (84%)
- Magenta (16%)
- Yellow (38%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 50.5151, 0.2540, 0.4162 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 50.5151, 0.2540, 0.4162 by changing the saturation by 10% instead.




 50.5151, 0.2540,  
0.4162

 50.5151, 0.2540,  
0.4162

388.6769, 0.2839,  
0.3709

 35.8229, 0.2464,  
0.4280


 90.9376, 0.2650,  
0.3993


 24.2974, 0.2365,  
0.4436


 117.4367, 0.2691,  
0.3931

 15.5544, 0.2233,  
0.4647


 148.6401, 0.2725,  
0.3879

 9.2094, 0.2048,  
0.4950

 184.9323, 0.2755,  
0.3835

 4.8780, 0.1772,  
0.5418

 226.6977, 0.2780,  
0.3796

 2.1759, 0.1138,  
0.6360

274.3207, 0.2803,

 0.7068, 0.0000,

0.3763

1.0000

328.1856, 0.2822,  
0.3734

■ 0.0000, 0.0000,  
0.0000

■ 50.5151, 0.2540,  
0.4162

■ 50.5151, 0.2540,  
0.4162

■ 49.9521, 0.2541,  
0.4287

■ 51.3336, 0.2559,  
0.4036


■ 49.5887, 0.2557,  
0.4406


■ 52.4352, 0.2598,  
0.3912


■ 53.8501, 0.2656,  
0.3791


■ 55.6028, 0.2729,  
0.3675

■ 57.7157, 0.2816,  
0.3567

 60.2089, 0.2912,  
0.3467

 63.1013, 0.3015,  
0.3376

 66.4102, 0.3123,  
0.3293

 70.1520, 0.3232,  
0.3219

# Harmonies

## Analogous

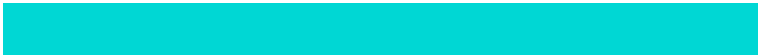
The Analogous color harmony consists of three colors that are next to each other on the color wheel.



50.5151, 0.3252, 0.4674



50.5151, 0.2540, 0.4162



50.5151, 0.2025, 0.3338

# Triad

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



50.5151, 0.2540, 0.4162



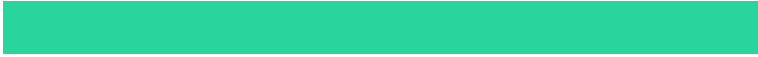
50.5151, 0.2228, 0.2121



50.5151, 0.4657, 0.3647

# Complementary

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



50.5151, 0.2540, 0.4162



16.6655, 0.5057, 0.2767

# 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.



50.5151, 0.4335, 0.3087



50.5151, 0.2540, 0.4162



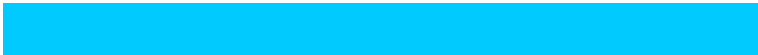
50.5151, 0.2845, 0.2256

# Square

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



50.5151, 0.2540, 0.4162



50.5151, 0.1876, 0.2233



50.5151, 0.3632, 0.2598



50.5151, 0.4498, 0.4205



# Rectangle

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



50.5151, 0.2540, 0.4162



50.5151, 0.1844, 0.2838



50.5151, 0.3632, 0.2598



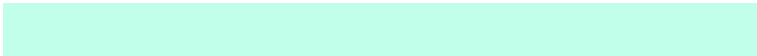
50.5151, 0.4604, 0.3457

# Sweetspot

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



50.5171, 0.2540, 0.4162



88.9602, 0.2874, 0.3505



50.4048, 0.3257, 0.5594



18.7555, 0.2840, 0.3541



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.



50.5171, 0.2540, 0.4162



74.6787, 0.2552, 0.4369



39.7699, 0.2172, 0.2861



14.0356, 0.3026, 0.3367



30.3065, 0.2552, 0.4388



1.8429, 0.2493, 0.4174



# Inverse Universe

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



16.6655, 0.5057, 0.2767



22.2240, 0.5599, 0.2880



18.7332, 0.5673, 0.3534



12.4871, 0.3240, 0.3214



8.9254, 0.5650, 0.2886

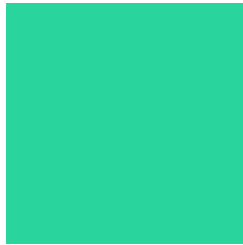


0.5534, 0.5158, 0.2615



# Previews

## White Background



This preview shows how the Yxy color 50.5151, 0.2540, 0.4162 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 50.5151, 0.2540, 0.4162 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

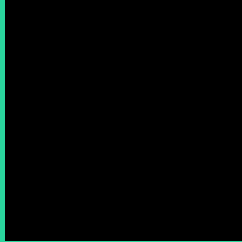
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**Yxy 50.5151, 0.2540, 0.4162**

## **Background**



This preview shows how black text looks on a background with the Yxy color 50.5151, 0.2540, 0.4162.

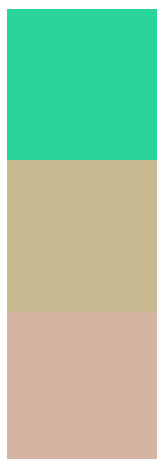


This preview shows how white text looks on a background with the Yxy color 50.5151, 0.2540, 0.4162.

# 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

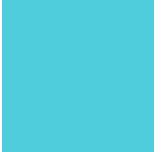
50.5151, 0.2540, 0.4162

### Protanopia

49.2735, 0.3580, 0.3823

### Deuteranopia

49.4690, 0.3555, 0.3485



## **Tritanopia**

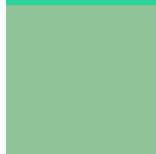
50.5454, 0.2312, 0.3067

# Trichromacy



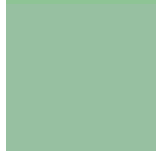
## Original Color

50.5151, 0.2540, 0.4162



## Protanomaly

47.4006, 0.3042, 0.3970



## Deuteranomaly

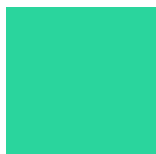
46.8518, 0.3028, 0.3729



## Tritanomaly

50.3128, 0.2384, 0.3433

# Monochromacy



## Original Color

50.5151, 0.2540, 0.4162



## Achromatopsia

32.7778, 0.3127, 0.3290



## Achromatomaly

37.0284, 0.2775, 0.3609

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 50.5151, 0.2540, 0.4162 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(42, 213, 157)` looks like.

```
.text, #text, p{  
    color:rgb(42, 213, 157)  
}
```

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(42, 213, 157) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(42, 213, 157) }
```

## Border

The CSS property to change the border of an element to Yxy 50.5151, 0.2540, 0.4162 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(42, 213, 157) }
```

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

```
.border{ border-color:rgb(42, 213, 157) }
```

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

Here you see how a box with a 4 pixel `rgb(42, 213, 157)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(42, 213, 157); -webkit-box-  
shadow:4px 4px 4px 4px rgb(42, 213, 157);  
box-shadow:4px 4px 4px 4px rgb(42, 213,  
157) }
```



# Background

The CSS property to change the background color of an element to Yxy 50.5151, 0.2540, 0.4162 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(42, 213, 157) }
```

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

```
.background{ background-color: rgb(42, 213,  
157) }
```

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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