

# Converting Colors

$Y_{xy}(50.6735, 0.2443, 0.3941)$

Have a look what the booklet for  
Yxy(50.6735, 0.2443, 0.3941)  
contains.

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# Color

**$\text{Yxy}(50.6775, 0.2441, 0.3936)$**

# Conversions

## Conversions Part 1

Format	Color
Hex	14D5AB
RGB	20, 213, 171
RGB Percent	8%, 84%, 67%
CMY	0.9225, 0.1647, 0.3295
CMYK	0.91, 0.00, 0.20, 0.16
HSL	167°, 83%, 46%
HSV	167°, 91%, 84%
XYZ	31.4288, 50.6775, 46.6475
YIQ	150.5050, -101.5460, -53.9780

# Conversions

## Conversions Part 2

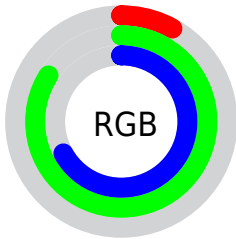
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	20, 128, 213
Decimal	1365419
CIE <sub>Lab</sub>	76.48, -52.88, 8.68
CIE <sub>LCh</sub>	76, 53.589, 170.676
Yxy	50.6775, 0.2441, 0.3936
Android (android.graphics.Color)	4279555499 (0xFF14D5AB)
YUV	150.5050, 10.1040, -114.4529
Hunter-Lab	71.1881, -45.7734, 10.9807

# Details

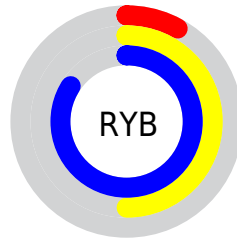
The Yxy color **50.6775, 0.2441, 0.3936** is a dark color, and the websafe version is hex **00CC99**. The color can be described as middle washed spring green. A complement of this color would be **14.9853, 0.5774, 0.3030**, and the grayscale version is **30.6846, 0.3127, 0.3290**.

A 20% lighter version of the original color is **80.2622, 0.2530, 0.3639**, and **25.4459, 0.2466, 0.4079** is the 20% darker color. If you saturate the color by 10%, you get **50.3718, 0.2447, 0.4010**, and if you desaturate by 10%, it is **51.1858, 0.2449, 0.3856**.

# Distribution



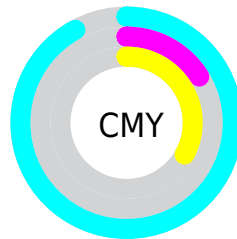
- Red (8%)
- Green (84%)
- Blue (67%)



- Red (8%)
- Yellow (50%)
- Blue (84%)



- Cyan (91%)
- Magenta (0%)
- Yellow (20%)
- Black (16%)



- Cyan (92%)
- Magenta (16%)
- Yellow (33%)

# Brightness & Saturation Gradients

These gradients show how the Yxy color 50.6775, 0.2441, 0.3936 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 50.6775, 0.2441, 0.3936 by changing the saturation by 10% instead.





 50.6775, 0.2441,  
0.3936


 50.6775, 0.2441,  
0.3936


389.3095, 0.2782,  
0.3607

 35.9520, 0.2357,  
0.4020


 91.1779, 0.2564,  
0.3815


 24.3971, 0.2250,  
0.4128


 117.7216, 0.2611,  
0.3770

 15.6285, 0.2109,  
0.4274


 148.9735, 0.2650,  
0.3732

 9.2616, 0.1916,  
0.4480

 185.3179, 0.2684,  
0.3700

 4.9122, 0.1638,  
0.4790

 227.1394, 0.2713,  
0.3672

 2.1959, 0.1087,  
0.5380

274.8222, 0.2739,

 0.7177, 0.0000,

0.3647


0.8044


328.7508, 0.2762,  
0.3626


 0.0000, 0.0000,  
0.0000


 50.6775, 0.2441,  
0.3936


 50.6775, 0.2441,  
0.3936


 50.3718, 0.2447,  
0.4010

 51.1858, 0.2449,  
0.3856

 51.9351, 0.2477,  
0.3776

 52.9610, 0.2524,  
0.3696

 54.2916, 0.2590,  
0.3619

 55.9516, 0.2673,  
0.3545

■ 57.9631, 0.2770,  
0.3474

■ 60.3462, 0.2879,  
0.3409

■ 63.1196, 0.2996,  
0.3349

■ 66.3007, 0.3118,  
0.3294

# Harmonies

## Analogous

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



50.6775, 0.3087, 0.4516



50.6775, 0.2441, 0.3936



50.6775, 0.2010, 0.3165

# Triad

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



50.6775, 0.2441, 0.3936



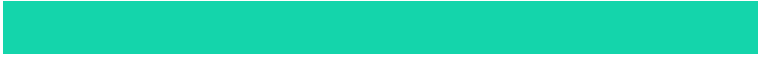
50.6775, 0.2393, 0.2191



50.6775, 0.4573, 0.3765

# Complementary

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



50.6775, 0.2441, 0.3936



14.9853, 0.5774, 0.3030

# 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.



50.6775, 0.4372, 0.3224



50.6775, 0.2441, 0.3936



50.6775, 0.3029, 0.2368

# Square

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



50.6775, 0.2441, 0.3936



50.6775, 0.1994, 0.2242



50.6775, 0.3776, 0.2734



50.6775, 0.4335, 0.4275



# Rectangle

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



50.6775, 0.2441, 0.3936



50.6775, 0.1880, 0.2732



50.6775, 0.3776, 0.2734



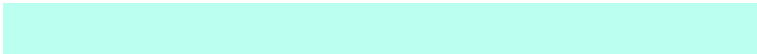
50.6775, 0.4558, 0.3584

# Sweetspot

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



50.6795, 0.2441, 0.3936



88.2709, 0.2806, 0.3451



48.7620, 0.3123, 0.5837



18.6430, 0.2770, 0.3474



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.



50.6795, 0.2441, 0.3936



75.6692, 0.2449, 0.4018



30.6084, 0.2038, 0.2483



14.0595, 0.3011, 0.3341



30.7820, 0.2444, 0.3998



1.8684, 0.2406, 0.3861



# Inverse Universe

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



14.9853, 0.5774, 0.3030



21.5402, 0.6070, 0.3117



18.7421, 0.5819, 0.3655



12.4646, 0.3257, 0.3240



8.7756, 0.6014, 0.3087

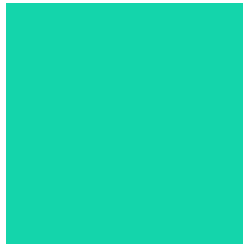


0.5418, 0.5524, 0.2817



# Previews

## White Background



This preview shows how the Yxy color 50.6775, 0.2441, 0.3936 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

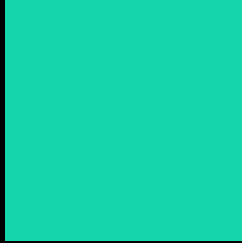
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 50.6775, 0.2441, 0.3936 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

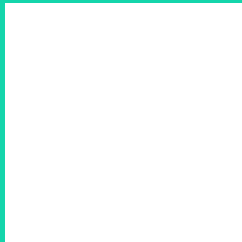
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**Yxy 50.6775, 0.2441, 0.3936**

## **Background**



This preview shows how black text looks on a background with the Yxy color 50.6775, 0.2441, 0.3936.

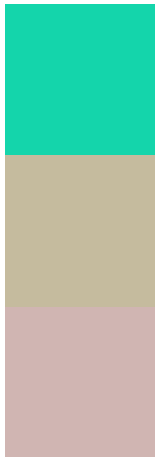


This preview shows how white text looks on a background with the Yxy color 50.6775, 0.2441, 0.3936.

# 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

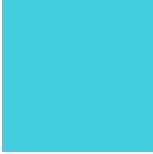
50.6775, 0.2441, 0.3936

### Protanopia

49.8796, 0.3445, 0.3658

### Deuteranopia

49.6720, 0.3388, 0.3327



## **Tritanopia**

50.6286, 0.2269, 0.3052

# Trichromacy



## Original Color

50.6775, 0.2441, 0.3936



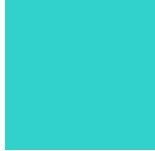
## Protanomaly

47.1107, 0.2882, 0.3769



## Deuteranomaly

46.8105, 0.2849, 0.3545



## Tritanomaly

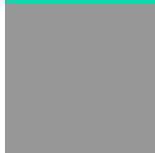
50.6135, 0.2321, 0.3360

# Monochromacy



## Original Color

50.6775, 0.2441, 0.3936



## Achromatopsia

30.4987, 0.3127, 0.3290



## Achromatomaly

35.2393, 0.2679, 0.3535

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 50.6775, 0.2441, 0.3936 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(20, 213, 171)` looks like.

```
.text, #text, p{  
    color:rgb(20, 213, 171)  
}
```

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(20, 213, 171) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(20, 213, 171) }
```

## Border

The CSS property to change the border of an element to Yxy 50.6775, 0.2441, 0.3936 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(20, 213, 171) }
```

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

```
.border{ border-color:rgb(20, 213, 171) }
```

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

Here you see how a box with a 4 pixel rgb(20, 213, 171) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(20, 213, 171); -webkit-box-  
shadow:4px 4px 4px 4px rgb(20, 213, 171);  
box-shadow:4px 4px 4px 4px rgb(20, 213,  
171) }
```



# Background

The CSS property to change the background color of an element to Yxy 50.6775, 0.2441, 0.3936 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(20, 213, 171) }
```

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

```
.background{ background-color: rgb(20, 213,  
171) }
```

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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