

# Converting Colors

$Yxy(63.9156, 0.2536, 0.4233)$

Have a look what the booklet for  
Yxy(63.9156, 0.2536, 0.4233)  
contains.

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# Color

**Yxy(63.8320, 0.2535, 0.4229)**

# Conversions

## Conversions Part 1

Format	Color
Hex	21EDAB
RGB	33, 237, 171
RGB Percent	13%, 93%, 67%
CMY	0.8707, 0.0706, 0.3293
CMYK	0.86, 0.00, 0.28, 0.07
HSL	161°, 85%, 53%
HSV	161°, 86%, 93%
XYZ	38.2630, 63.8320, 48.8438
YIQ	168.4800, -100.3980, -63.7740

# Conversions

## Conversions Part 2

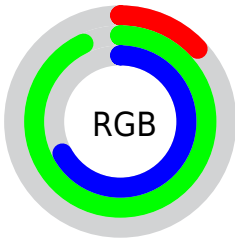
<b>Format</b>	<b>Color</b>
<b>RYB</b>	33, 155, 237
Decimal	2223531
CIELab	83.88, -61.32, 19.10
CIELCh	84, 64.226, 162.697
Yxy	63.8320, 0.2535, 0.4229
Android (android.graphics.Color)	4280413611 (0xFF21EDAB)
YUV	168.4800, 1.2424, -118.8160
Hunter-Lab	79.8949, -54.3296, 19.6795

# Details

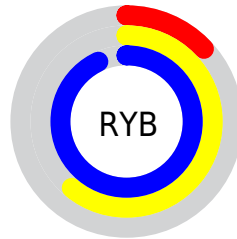
The Yxy color **63.8320, 0.2535, 0.4229** is a dark color, and the websafe version is hex **33FFCC**. The color can be described as middle washed spring green. A complement of this color would be **19.9914, 0.5285, 0.2801**, and the grayscale version is **39.4353, 0.3127, 0.3290**.

A 20% lighter version of the original color is **80.8625, 0.2561, 0.3636**, and **33.9744, 0.2565, 0.4435** is the 20% darker color. If you saturate the color by 10%, you get **63.2875, 0.2547, 0.4352**, and if you desaturate by 10%, it is **64.6728, 0.2542, 0.4104**.

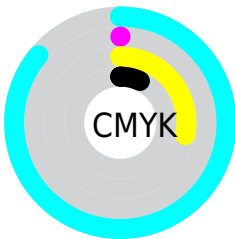
# Distribution



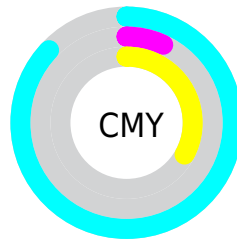
- Red (13%)
- Green (93%)
- Blue (67%)



- Red (13%)
- Yellow (61%)
- Blue (93%)



- Cyan (86%)
- Magenta (0%)
- Yellow (28%)
- Black (7%)




- Cyan (87%)
- Magenta (7%)
- Yellow (33%)

# Brightness & Saturation Gradients

These gradients show how the Yxy color 63.8320, 0.2535, 0.4229 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 63.8320, 0.2535, 0.4229 by changing the saturation by 10% instead.




 63.8320, 0.2535,  
0.4229

 63.8320, 0.2535,  
0.4229


438.5827, 0.2827,  
0.3757


 46.5146, 0.2464,  
0.4347


 110.3690, 0.2640,  
0.4057


 32.6521, 0.2373,  
0.4498


 140.3573, 0.2680,  
0.3993

 21.8601, 0.2255,  
0.4697


 175.3381, 0.2714,  
0.3939

 13.7541, 0.2095,  
0.4974

 215.6958, 0.2743,  
0.3892

 7.9499, 0.1867,  
0.5378

 261.8147, 0.2768,  
0.3851

 4.0629, 0.1521,  
0.6013

314.0792, 0.2790,

 1.7088, 0.0000,

0.3816

372.8737, 0.2810,  
0.3785

0.8351

0.4293, 0.0000,  
1.0000

0.0000, 0.0000,  
0.0000

63.8320, 0.2535,  
0.4229

63.8320, 0.2535,  
0.4229

63.2875, 0.2547,  
0.4352

64.6728, 0.2542,  
0.4104

63.1211, 0.2556,  
0.4400

65.8525, 0.2570,  
0.3979

67.4138, 0.2617,  
0.3856

69.3915, 0.2682,  
0.3738

71.8160, 0.2762,  
0.3627

74.7151, 0.2853,  
0.3522

78.1142, 0.2954,  
0.3426

82.0368, 0.3061,  
0.3339

86.5050, 0.3170,  
0.3260

# Harmonies

## Analogous

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



63.8320, 0.3276, 0.4747



63.8320, 0.2535, 0.4229



63.8320, 0.1995, 0.3365

# Triad

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



63.8320, 0.2535, 0.4229



63.8320, 0.2177, 0.2079



63.8320, 0.4718, 0.3633

# Complementary

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



63.8320, 0.2535, 0.4229



19.9914, 0.5285, 0.2801

# 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.



63.8320, 0.4368, 0.3057



63.8320, 0.2535, 0.4229



63.8320, 0.2807, 0.2212

# Square

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



63.8320, 0.2535, 0.4229



63.8320, 0.1825, 0.2200



63.8320, 0.3625, 0.2558



63.8320, 0.4562, 0.4213



# Rectangle

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



63.8320, 0.2535, 0.4229



63.8320, 0.1803, 0.2838



63.8320, 0.3625, 0.2558



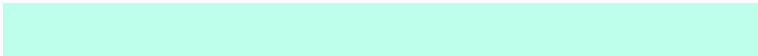
63.8320, 0.4658, 0.3437

# Sweetspot

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



63.8345, 0.2535, 0.4229



88.2157, 0.2853, 0.3522



63.4458, 0.3232, 0.5708



18.6130, 0.2820, 0.3558



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.



63.8345, 0.2535, 0.4229



74.5193, 0.2557, 0.4405



49.1488, 0.2141, 0.2824



17.0342, 0.3024, 0.3367



34.4857, 0.2550, 0.4380



2.7254, 0.2503, 0.4210



# Inverse Universe

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



19.9914, 0.5285, 0.2801



21.8762, 0.5727, 0.2929



22.1267, 0.5898, 0.3508



15.1343, 0.3242, 0.3214



10.1409, 0.5674, 0.2900

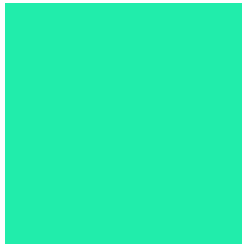


0.8133, 0.5283, 0.2684



# Previews

## White Background



This preview shows how the Yxy color 63.8320, 0.2535, 0.4229 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 63.8320, 0.2535, 0.4229 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

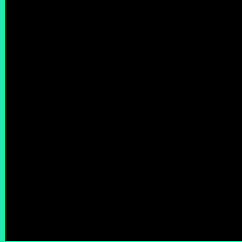
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**Yxy 63.8320, 0.2535, 0.4229**

## **Background**



This preview shows how black text looks on a background with the Yxy color 63.8320, 0.2535, 0.4229.



This preview shows how white text looks on a background with the Yxy color 63.8320, 0.2535, 0.4229.

# 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

63.8320, 0.2535, 0.4229

### Protanopia

62.5896, 0.3612, 0.3863

### Deuteranopia

62.1060, 0.3589, 0.3511



## Tritanopia

63.4310, 0.2292, 0.3049

# Trichromacy



## Original Color

63.8320, 0.2535, 0.4229



## Protanomaly

59.5237, 0.3031, 0.4034



## Deuteranomaly

58.5096, 0.3012, 0.3771



## Tritanomaly

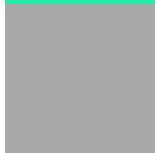
63.3901, 0.2368, 0.3447

# Monochromacy



## Original Color

63.8320, 0.2535, 0.4229



## Achromatopsia

39.1572, 0.3127, 0.3290



## Achromatomaly

44.9264, 0.2747, 0.3647

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 63.8320, 0.2535, 0.4229 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(33, 237, 171)` looks like.

```
.text, #text, p{  
    color:rgb(33, 237, 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(33, 237, 171) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(33, 237, 171) }
```

## Border

The CSS property to change the border of an element to Yxy 63.8320, 0.2535, 0.4229 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(33, 237, 171) }
```

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

```
.border{ border-color:rgb(33, 237, 171) }
```

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

Here you see how a box with a 4 pixel `rgb(33, 237, 171)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(33, 237, 171); -webkit-box-  
shadow:4px 4px 4px 4px rgb(33, 237, 171);  
box-shadow:4px 4px 4px 4px rgb(33, 237,  
171) }
```



# Background

The CSS property to change the background color of an element to Yxy 63.8320, 0.2535, 0.4229 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(33, 237, 171) }
```

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

```
.background{ background-color: rgb(33, 237,  
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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