

# Converting Colors

$Y_{xy}(63.5238, 0.2489, 0.3989)$

Have a look what the booklet for  
Yxy(63.5238, 0.2489, 0.3989)  
contains.

<b>Yxy(63.5238, 0.2489, 0.3989)</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(63.5238, 0.2489, 0.3989)**

# Conversions

## Conversions Part 1

Format	Color
Hex	2FEBB9
RGB	47, 235, 185
RGB Percent	18%, 92%, 73%
CMY	0.8160, 0.0784, 0.2744
CMYK	0.80, 0.00, 0.21, 0.08
HSL	164°, 82%, 55%
HSV	164°, 80%, 92%
XYZ	39.6367, 63.5238, 56.0869
YIQ	173.0880, -95.9980, -55.4060

# Conversions

## Conversions Part 2

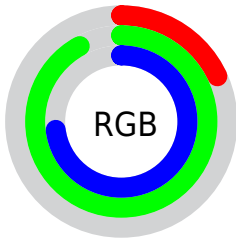
<b>Format</b>	<b>Color</b>
<b>RYB</b>	47, 155, 235
Decimal	3140537
CIELab	83.72, -56.26, 11.60
CIELCh	84, 57.443, 168.347
Yxy	63.5238, 0.2489, 0.3989
Android (android.graphics.Color)	4281330617 (0xFF2FEBB9)
YUV	173.0880, 5.8726, -110.5792
Hunter-Lab	79.7018, -50.7080, 14.0683

# Details

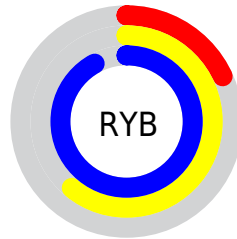
The Yxy color **63.5238, 0.2489, 0.3989** is a light color, and the websafe version is hex **33FFCC**. The color can be described as light washed spring green. A complement of this color would be **20.5502, 0.5253, 0.2884**, and the grayscale version is **41.8318, 0.3127, 0.3290**.

A 20% lighter version of the original color is **82.2308, 0.2522, 0.3451**, and **33.5067, 0.2485, 0.4145** is the 20% darker color. If you saturate the color by 10%, you get **62.8530, 0.2485, 0.4089**, and if you desaturate by 10%, it is **64.5112, 0.2513, 0.3888**.

# Distribution



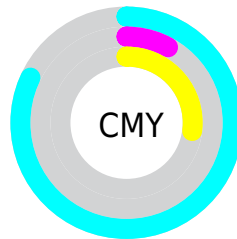
- Red (18%)
- Green (92%)
- Blue (73%)



- Red (18%)
- Yellow (61%)
- Blue (92%)



- Cyan (80%)
- Magenta (0%)
- Yellow (21%)
- Black (8%)




- Cyan (82%)
- Magenta (8%)
- Yellow (27%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 63.5238, 0.2489, 0.3989 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 63.5238, 0.2489, 0.3989 by changing the saturation by 10% instead.





 63.5238, 0.2489,  
0.3989


 63.5238, 0.2489,  
0.3989

437.4680, 0.2796,  
0.3644


 46.2651, 0.2416,  
0.4074

 109.9248, 0.2598,  
0.3865


 32.4551, 0.2324,  
0.4181


 139.8360, 0.2640,  
0.3818

 21.7093, 0.2206,  
0.4323


 174.7334, 0.2675,  
0.3778

 13.6435, 0.2048,  
0.4516

 215.0014, 0.2706,  
0.3743

 7.8731, 0.1828,  
0.4796

 261.0245, 0.2733,  
0.3713

 4.0139, 0.1505,  
0.5232

313.1870, 0.2757,

 1.6813, 0.0270,

0.3687

0.6483

371.8734, 0.2778,  
0.3664

■ 0.4115, 0.0000,  
1.0000

■ 0.0000, 0.0000,  
0.0000

■ 63.5238, 0.2489,  
0.3989

■ 63.5238, 0.2489,  
0.3989

■ 62.8530, 0.2485,  
0.4089


■ 64.5112, 0.2513,  
0.3888

■ 62.4203, 0.2497,  
0.4188


■ 65.8501, 0.2558,  
0.3789

■ 67.5789, 0.2621,  
0.3692


■ 69.7287, 0.2700,  
0.3599

 72.3276, 0.2794,  
0.3512

 75.4012, 0.2898,  
0.3431

 78.9731, 0.3010,  
0.3357

 83.0652, 0.3127,  
0.3290

 87.0443, 0.3223,  
0.3230

# Harmonies

## Analogous

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



63.5238, 0.3143, 0.4533



63.5238, 0.2489, 0.3989



63.5238, 0.2039, 0.3223

# Triad

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



63.5238, 0.2489, 0.3989



63.5238, 0.2357, 0.2191



63.5238, 0.4566, 0.3722

# Complementary

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



63.5238, 0.2489, 0.3989



20.5502, 0.5253, 0.2884

# 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.



63.5238, 0.4331, 0.3185



63.5238, 0.2489, 0.3989



63.5238, 0.2974, 0.2352

# Square

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



63.5238, 0.2489, 0.3989



63.5238, 0.1980, 0.2262



63.5238, 0.3716, 0.2703



63.5238, 0.4360, 0.4235



# Rectangle

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



63.5238, 0.2489, 0.3989



63.5238, 0.1895, 0.2779



63.5238, 0.3716, 0.2703



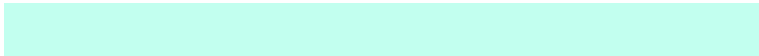
63.5238, 0.4539, 0.3541

# Sweetspot

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



63.5263, 0.2489, 0.3989



89.1795, 0.2855, 0.3464



62.1698, 0.3192, 0.5644



18.8086, 0.2818, 0.3493



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.



63.5263, 0.2489, 0.3989



75.3017, 0.2492, 0.4153



43.9136, 0.2124, 0.2678



17.0496, 0.3016, 0.3353



34.7600, 0.2492, 0.4172



2.7453, 0.2454, 0.4034



# Inverse Universe

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



20.5502, 0.5253, 0.2884



21.9927, 0.5814, 0.3000



25.3159, 0.5551, 0.3650



15.1198, 0.3251, 0.3228



10.0441, 0.5876, 0.3011

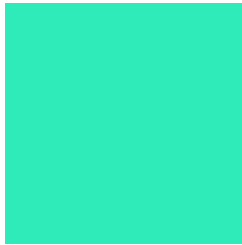


0.8042, 0.5483, 0.2794



# Previews

## White Background



This preview shows how the Yxy color 63.5238, 0.2489, 0.3989 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

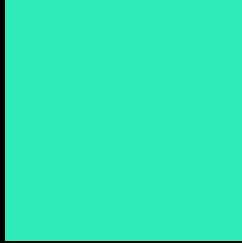
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 63.5238, 0.2489, 0.3989 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

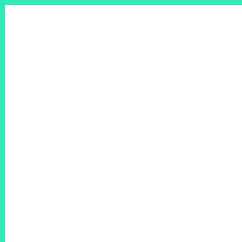
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**Yxy 63.5238, 0.2489, 0.3989**

## **Background**



This preview shows how black text looks on a background with the Yxy color 63.5238, 0.2489, 0.3989.

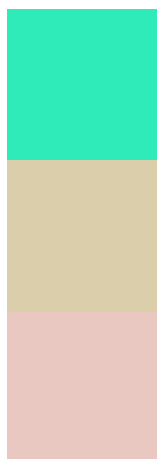


This preview shows how white text looks on a background with the Yxy color 63.5238, 0.2489, 0.3989.

# 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

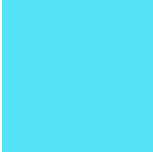
63.5238, 0.2489, 0.3989

### Protanopia

62.1430, 0.3486, 0.3694

### Deuteranopia

62.3146, 0.3436, 0.3368



## Tritanopia

63.4156, 0.2298, 0.3061

# Trichromacy



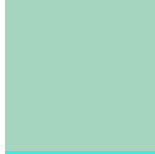
## Original Color

63.5238, 0.2489, 0.3989



## Protanomaly

59.8282, 0.2965, 0.3826



## Deuteranomaly

59.3055, 0.2937, 0.3583



## Tritanomaly

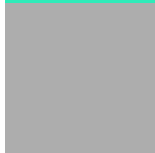
63.2609, 0.2362, 0.3380

# Monochromacy



## Original Color

63.5238, 0.2489, 0.3989



## Achromatopsia

41.7885, 0.3127, 0.3290



## Achromatomaly

47.1662, 0.2752, 0.3563

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 63.5238, 0.2489, 0.3989 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(47, 235, 185)` looks like.

```
.text, #text, p{  
    color:rgb(47, 235, 185)  
}
```

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(47, 235, 185) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(47, 235, 185) }
```

## Border

The CSS property to change the border of an element to Yxy 63.5238, 0.2489, 0.3989 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(47, 235, 185) }
```

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

```
.border{ border-color:rgb(47, 235, 185) }
```

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

Here you see how a box with a 4 pixel `rgb(47, 235, 185)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(47, 235, 185); -webkit-box-  
shadow:4px 4px 4px 4px rgb(47, 235, 185);  
box-shadow:4px 4px 4px 4px rgb(47, 235,  
185) }
```



# Background

The CSS property to change the background color of an element to Yxy 63.5238, 0.2489, 0.3989 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(47, 235, 185) }
```

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

```
.background{ background-color: rgb(47, 235,  
185) }
```

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