

# Converting Colors

$Y_{xy}(63.8765, 0.2631, 0.4027)$

Have a look what the booklet for  
Yxy(63.8765, 0.2631, 0.4027)  
contains.

<b>Yxy(63.8078, 0.2634, 0.4032)</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(63.8078, 0.2634, 0.4032)**

# Conversions

## Conversions Part 1

Format	Color
Hex	5CE9B3
RGB	92, 233, 179
RGB Percent	36%, 91%, 70%
CMY	0.6394, 0.0862, 0.2981
CMYK	0.61, 0.00, 0.23, 0.09
HSL	157°, 76%, 64%
HSV	157°, 61%, 91%
XYZ	41.6840, 63.8078, 52.7617
YIQ	184.6850, -66.7020, -46.6860

# Conversions

## Conversions Part 2

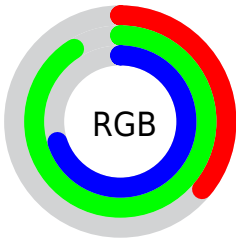
Format	Color
<a href="#">RYB</a>	<a href="#">92, 179, 233</a>
Decimal	<a href="#">6089139</a>
CIELab	<a href="#">83.87, -50.57, 15.09</a>
CIElCh	<a href="#">84, 52.778, 163.385</a>
Yxy	<a href="#">63.8078, 0.2634, 0.4032</a>
Android (android.graphics.Color)	<a href="#">4284279219 (0xFF5CE9B3)</a>
YUV	<a href="#">184.6850, -2.8027, -81.2847</a>
Hunter-Lab	<a href="#">79.8798, -46.6423, 16.7540</a>

# Details

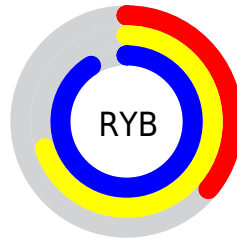
The Yxy color **63.8078, 0.2634, 0.4032** is a light color, and the websafe version is hex **66FFCC**. The color can be described as light muted spring green. A complement of this color would be **27.0441, 0.4270, 0.2710**, and the grayscale version is **48.3679, 0.3127, 0.3290**.

A 20% lighter version of the original color is **84.3882, 0.2670, 0.3516**, and **32.5570, 0.2510, 0.4236** is the 20% darker color. If you saturate the color by 10%, you get **62.4407, 0.2600, 0.4181**, and if you desaturate by 10%, it is **65.5722, 0.2686, 0.3887**.

# Distribution



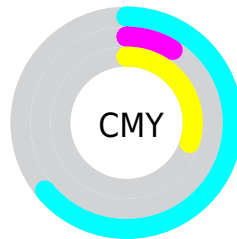
- Red (36%)
- Green (91%)
- Blue (70%)



- Red (36%)
- Yellow (70%)
- Blue (91%)



- Cyan (61%)
- Magenta (0%)
- Yellow (23%)
- Black (9%)




- Cyan (64%)
- Magenta (9%)
- Yellow (30%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 63.8078, 0.2634, 0.4032 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 63.8078, 0.2634, 0.4032 by changing the saturation by 10% instead.




 63.8078, 0.2634,  
0.4032


 63.8078, 0.2634,  
0.4032


438.4952, 0.2875,  
0.3663

 46.4950, 0.2576,  
0.4123

 110.3341, 0.2720,  
0.3899


 32.6366, 0.2502,  
0.4240


 140.3164, 0.2753,  
0.3848

 21.8482, 0.2405,  
0.4393


 175.2907, 0.2781,  
0.3806

 13.7454, 0.2275,  
0.4605

 215.6413, 0.2805,  
0.3769

 7.9438, 0.2088,  
0.4913

261.7527, 0.2826,  
0.3737

 4.0590, 0.1804,  
0.5401

314.0092, 0.2844,

 1.7066, 0.0881,

0.3709

0.6700

372.7952, 0.2861,  
0.3685

■ 0.4279, 0.0000,  
1.0000

■ 0.0000, 0.0000,  
0.0000

■ 63.8078, 0.2634,  
0.4032

■ 63.8078, 0.2634,  
0.4032

■ 62.4407, 0.2600,  
0.4181

■ 65.5722, 0.2686,  
0.3887

■ 61.4276, 0.2587,  
0.4331


■ 67.7573, 0.2754,  
0.3749

■ 60.7290, 0.2594,  
0.4480


■ 70.3935, 0.2835,  
0.3620


■ 60.2906, 0.2616,  
0.4617


■ 73.5063, 0.2925,  
0.3501

 77.1190, 0.3022,  
0.3393

 81.2538, 0.3122,  
0.3295

 85.9214, 0.3223,  
0.3208

 86.4691, 0.3166,  
0.3122

 86.7636, 0.3137,  
0.3078

# Harmonies

## Analogous

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



63.8078, 0.3257, 0.4462



63.8078, 0.2634, 0.4032



63.8078, 0.2174, 0.3348

# Triad

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



63.8078, 0.2634, 0.4032



63.8078, 0.2341, 0.2265



63.8078, 0.4443, 0.3618

# Complementary

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



63.8078, 0.2634, 0.4032



27.0441, 0.4270, 0.2710

# 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.



63.8078, 0.4157, 0.3119



63.8078, 0.2634, 0.4032



63.8078, 0.2883, 0.2380

# Square

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



63.8078, 0.2634, 0.4032



63.8078, 0.2028, 0.2374



63.8078, 0.3559, 0.2683



63.8078, 0.4324, 0.4102



# Rectangle

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



63.8078, 0.2634, 0.4032



63.8078, 0.2007, 0.2919



63.8078, 0.3559, 0.2683



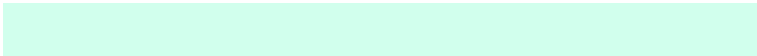
63.8078, 0.4392, 0.3450

# Sweetspot

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



63.8103, 0.2634, 0.4032



91.2291, 0.2948, 0.3474



65.1681, 0.3340, 0.5070



19.2650, 0.2921, 0.3507



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.



63.8103, 0.2634, 0.4032



76.2286, 0.2594, 0.4223



57.5515, 0.2340, 0.3073



17.0184, 0.3032, 0.3382



34.2317, 0.2610, 0.4595



2.7067, 0.2554, 0.4393



# Inverse Universe

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



27.0441, 0.4270, 0.2710



27.3952, 0.4665, 0.2657



28.9071, 0.4910, 0.3467



15.1495, 0.3233, 0.3200



10.2636, 0.5444, 0.2773

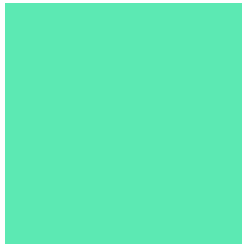


0.8242, 0.5070, 0.2567



# Previews

## White Background



This preview shows how the Yxy color 63.8078, 0.2634, 0.4032 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 63.8078, 0.2634, 0.4032 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

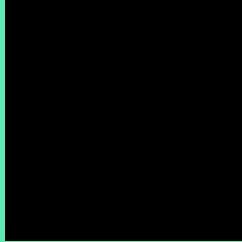
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**Yxy 63.8078, 0.2634, 0.4032**

## **Background**



This preview shows how black text looks on a background with the Yxy color 63.8078, 0.2634, 0.4032.



This preview shows how white text looks on a background with the Yxy color 63.8078, 0.2634, 0.4032.

# 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

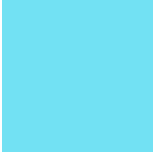
63.8078, 0.2634, 0.4032

### Protanopia

62.5945, 0.3529, 0.3762

### Deuteranopia

62.5159, 0.3515, 0.3445



## **Tritanopia**

63.8989, 0.2401, 0.3066

# Trichromacy



## Original Color

63.8078, 0.2634, 0.4032



## Protanomaly

60.9362, 0.3115, 0.3862



## Deuteranomaly

60.5731, 0.3110, 0.3650



## Tritanomaly

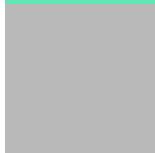
63.7183, 0.2481, 0.3391

# Monochromacy



## Original Color

63.8078, 0.2634, 0.4032



## Achromatopsia

48.5150, 0.3127, 0.3290



## Achromatomaly

52.2393, 0.2880, 0.3546

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 63.8078, 0.2634, 0.4032 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(92, 233, 179)` looks like.

```
.text, #text, p{  
    color:rgb(92, 233, 179)  
}
```

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(92, 233, 179) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(92, 233, 179) }
```

## Border

The CSS property to change the border of an element to Yxy 63.8078, 0.2634, 0.4032 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(92, 233, 179) }
```

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

```
.border{ border-color:rgb(92, 233, 179) }
```

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

Here you see how a box with a 4 pixel `rgb(92, 233, 179)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(92, 233, 179); -webkit-box-  
shadow:4px 4px 4px 4px rgb(92, 233, 179);  
box-shadow:4px 4px 4px 4px rgb(92, 233,  
179) }
```



# Background

The CSS property to change the background color of an element to Yxy 63.8078, 0.2634, 0.4032 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(92, 233, 179) }
```

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

```
.background{ background-color: rgb(92, 233,  
179) }
```

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