

# Converting Colors

$Y_{xy}(40.0061, 0.2516, 0.4824)$

Have a look what the booklet for  
Yxy(40.0061, 0.2516, 0.4824)  
contains.

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# Color

**Yxy(41.1024, 0.2660, 0.4777)**

# Conversions

## Conversions Part 1

Format	Color
Hex	00C570
RGB	0, 197, 112
RGB Percent	0%, 77%, 44%
CMY	1.0000, 0.2274, 0.5608
CMYK	1.00, 0.00, 0.43, 0.23
HSL	154°, 100%, 39%
HSV	154°, 100%, 77%
XYZ	22.8872, 41.1024, 22.0526
YIQ	128.4070, -90.1270, -68.1990

# Conversions

## Conversions Part 2

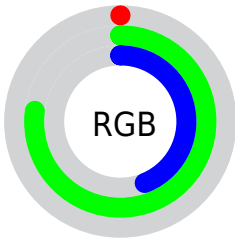
<b>Format</b>	<b>Color</b>
<b>RYB</b>	0, 126, 197
Decimal	50544
CIELab	70.25, -60.69, 31.25
CIELCh	70, 68.262, 152.755
Yxy	41.1024, 0.2660, 0.4777
Android (android.graphics.Color)	4278240624 (0xFF00C570)
YUV	128.4070, -8.0887, -112.6129
Hunter-Lab	64.1112, -48.4712, 24.4835

# Details

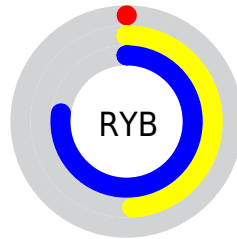
The Yxy color **41.1024, 0.2660, 0.4777** is a dark color, and the websafe version is hex **33CC66**. The color can be described as dark washed spring green. A complement of this color would be **12.5277, 0.5258, 0.2670**, and the grayscale version is **21.7887, 0.3127, 0.3290**.

A 20% lighter version of the original color is **76.8893, 0.2765, 0.4457**, and **19.7049, 0.2765, 0.5155** is the 20% darker color. If you saturate the color by 10%, you get **41.1061, 0.2660, 0.4777**, and if you desaturate by 10%, it is **41.4501, 0.2636, 0.4616**.

# Distribution



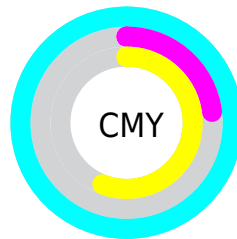
- Red (0%)
- Green (77%)
- Blue (44%)



- Red (0%)
- Yellow (49%)
- Blue (77%)



- Cyan (100%)
- Magenta (0%)
- Yellow (43%)
- Black (23%)




- Cyan (100%)
- Magenta (23%)
- Yellow (56%)

# Brightness & Saturation Gradients

These gradients show how the Yxy color 41.1024, 0.2660, 0.4777 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 41.1024, 0.2660, 0.4777 by changing the saturation by 10% instead.




 41.1024, 0.2660,  
0.4777

 41.1024, 0.2660,  
0.4777

350.7484, 0.2930,  
0.3958

 28.3991, 0.2579,  
0.5006


 76.8393, 0.2768,  
0.4461

 18.6267, 0.2467,  
0.5315


 100.6417, 0.2805,  
0.4348


 11.4009, 0.2302,  
0.5749


 128.9126, 0.2836,  
0.4254

 6.3371, 0.2044,  
0.6391

 162.0364, 0.2861,  
0.4176

 3.0512, 0.1641,  
0.7713

 200.3975, 0.2883,  
0.4109

 1.1585, 0.0000,  
1.0000

244.3803, 0.2901,

 0.0274, 0.0000,

0.4052

1.0000

294.3691, 0.2917,  
0.4002

■ 0.0000, 0.0000,  
0.0000

■ 41.1024, 0.2660,  
0.4777

■ 41.1024, 0.2660,  
0.4777

■ 41.1061, 0.2660,  
0.4777

■ 41.4501, 0.2636,  
0.4616

■ 41.9605, 0.2628,  
0.4450

■ 42.6898, 0.2640,  
0.4281

■ 43.6656, 0.2672,  
0.4113

■ 44.9111, 0.2721,  
0.3951

■ 46.4468, 0.2785,  
0.3796

■ 48.2913, 0.2861,  
0.3652

■ 50.4613, 0.2945,  
0.3519

■ 52.9725, 0.3035,  
0.3399

# Harmonies

## Analogous

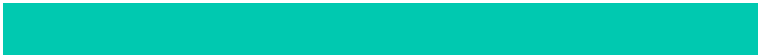
The Analogous color harmony consists of three colors that are next to each other on the color wheel.



41.1024, 0.3568, 0.5138



41.1024, 0.2660, 0.4777



41.1024, 0.1931, 0.3731

# Triad

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



41.1024, 0.2660, 0.4777



41.1024, 0.1823, 0.1868



41.1024, 0.5000, 0.3419

# Complementary

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



41.1024, 0.2660, 0.4777



12.5277, 0.5258, 0.2670

# 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.



41.1024, 0.4383, 0.2783



41.1024, 0.2660, 0.4777



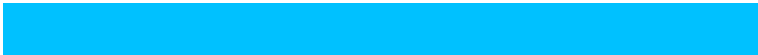
41.1024, 0.2446, 0.1937

# Square

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



41.1024, 0.2660, 0.4777



41.1024, 0.1531, 0.2096



41.1024, 0.3380, 0.2260



41.1024, 0.4969, 0.4104



# Rectangle

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



41.1024, 0.2660, 0.4777



41.1024, 0.1640, 0.3010



41.1024, 0.3380, 0.2260



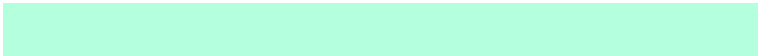
41.1024, 0.4862, 0.3200

# Sweetspot

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



41.1061, 0.2660, 0.4777



86.3174, 0.2857, 0.3658



41.8852, 0.3277, 0.5780



18.1603, 0.2824, 0.3719



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.



41.1061, 0.2660, 0.4777



73.5629, 0.2667, 0.4800



38.2606, 0.2189, 0.3080



11.9872, 0.3040, 0.3392



27.0517, 0.2654, 0.4756



1.2952, 0.2560, 0.4418



# Inverse Universe

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



12.5277, 0.5258, 0.2670



22.3868, 0.5295, 0.2690



12.1628, 0.6355, 0.3336



10.7117, 0.3223, 0.3191



8.2553, 0.5226, 0.2653

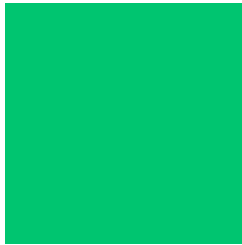


0.4054, 0.4702, 0.2364



# Previews

## White Background



This preview shows how the Yxy color 41.1024, 0.2660, 0.4777 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 41.1024, 0.2660, 0.4777 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 41.1024, 0.2660, 0.4777**

## **Background**



This preview shows how black text looks on a background with the Yxy color 41.1024, 0.2660, 0.4777.



This preview shows how white text looks on a background with the Yxy color 41.1024, 0.2660, 0.4777.

# 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

41.1024, 0.2660, 0.4777

### Protanopia

40.1479, 0.3875, 0.4202

### Deuteranopia

40.2470, 0.3926, 0.3843



## Tritanopia

41.2214, 0.2317, 0.3063

# Trichromacy



## Original Color

41.1024, 0.2660, 0.4777



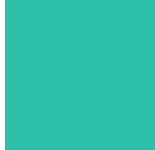
## Protanomaly

37.5347, 0.3164, 0.4500



## Deuteranomaly

36.6114, 0.3185, 0.4225



## Tritanomaly

40.7070, 0.2412, 0.3648

# Monochromacy



## Original Color

41.1024, 0.2660, 0.4777



## Achromatopsia

21.5861, 0.3127, 0.3290



## Achromatomaly

25.9369, 0.2744, 0.3889

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 41.1024, 0.2660, 0.4777 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(0, 197, 112)` looks like.

```
.text, #text, p{  
    color:rgb(0, 197, 112)  
}
```

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(0, 197, 112) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(0, 197, 112) }
```

## Border

The CSS property to change the border of an element to Yxy 41.1024, 0.2660, 0.4777 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(0, 197, 112) }
```

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

```
.border{ border-color:rgb(0, 197, 112) }
```

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

Here you see how a box with a 4 pixel `rgb(0, 197, 112)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(0, 197, 112); -webkit-box-  
shadow:4px 4px 4px 4px rgb(0, 197, 112);  
box-shadow:4px 4px 4px 4px rgb(0, 197,  
112) }
```



# Background

The CSS property to change the background color of an element to Yxy 41.1024, 0.2660, 0.4777 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(0, 197, 112) }
```

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

```
.background{ background-color: rgb(0, 197,  
112) }
```

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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