

# Converting Colors

$Y_{xy}(40.9746, 0.2956, 0.5842)$

Have a look what the booklet for  
Yxy(40.9746, 0.2956, 0.5842)  
contains.

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# Color

**Yxy(40.9682, 0.2957, 0.5844)**

# Conversions

## Conversions Part 1

Format	Color
Hex	00C723
RGB	0, 199, 35
RGB Percent	0%, 78%, 14%
CMY	0.9989, 0.2196, 0.8627
CMYK	1.00, 0.00, 0.82, 0.22
HSL	130°, 100%, 39%
HSV	130°, 100%, 78%
XYZ	20.7295, 40.9682, 8.4054
YIQ	120.8030, -65.9600, -93.1920

# Conversions

## Conversions Part 2

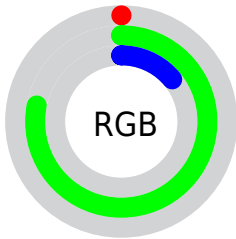
<b>Format</b>	<b>Color</b>
<b>RYB</b>	0, 169, 199
Decimal	50979
CIELab	70.15, -70.38, 63.38
CIELCh	70, 94.717, 137.996
Yxy	40.9682, 0.2957, 0.5844
Android (android.graphics.Color)	4278241059 (0xFF00C723)
YUV	120.8030, -42.3009, -105.9442
Hunter-Lab	64.0064, -54.2012, 37.0185

# Details

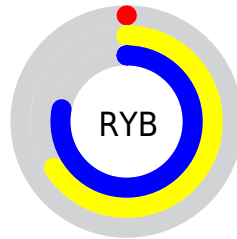
The Yxy color **40.9682, 0.2957, 0.5844** is a dark color, and the websafe version is hex **00CC33**. The color can be described as dark washed green. A complement of this color would be **14.8385, 0.3709, 0.1818**, and the grayscale version is **19.2381, 0.3127, 0.3290**.

A 20% lighter version of the original color is **75.2298, 0.3064, 0.5309**, and **19.6449, 0.3000, 0.6000** is the 20% darker color. If you saturate the color by 10%, you get **40.9667, 0.2957, 0.5846**, and if you desaturate by 10%, it is **41.2402, 0.2938, 0.5682**.

# Distribution



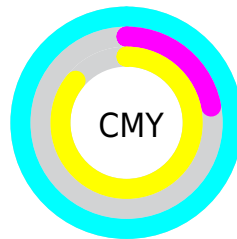
- Red (0%)
- Green (78%)
- Blue (14%)



- Red (0%)
- Yellow (66%)
- Blue (78%)



- Cyan (100%)
- Magenta (0%)
- Yellow (82%)
- Black (22%)




- Cyan (100%)
- Magenta (22%)
- Yellow (86%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 40.9682, 0.2957, 0.5844 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 40.9682, 0.2957, 0.5844 by changing the saturation by 10% instead.




 40.9682, 0.2957,  
0.5844

 40.9682, 0.2957,  
0.5844


350.1877, 0.3156,  
0.4446

 28.2942, 0.2859,  
0.6205


 76.6356, 0.3063,  
0.5319


 18.5476, 0.2704,  
0.6660


 100.3979, 0.3092,  
0.5126


 11.3438, 0.2466,  
0.7272


 128.6250, 0.3113,  
0.4964

 6.2986, 0.2041,  
0.7959

 161.7014, 0.3128,  
0.4828

 3.0275, 0.1173,  
0.8827

 200.0115, 0.3138,  
0.4711

 1.1461, 0.0000,  
1.0000

 243.9396, 0.3146,

 0.0170, 0.0000,

0.4610

1.0000

293.8702, 0.3152,  
0.4523

■ 0.0000, 0.0000,  
0.0000

■ 40.9682, 0.2957,  
0.5844

■ 40.9682, 0.2957,  
0.5844

■ 40.9667, 0.2957,  
0.5846

■ 41.2402, 0.2938,  
0.5682

■ 41.7151, 0.2925,  
0.5462

■ 42.4513, 0.2924,  
0.5194

■ 43.4808, 0.2935,  
0.4897

■ 44.8310, 0.2955,  
0.4588

■ 46.5258, 0.2984,  
0.4285

■ 48.5871, 0.3017,  
0.3997

■ 51.0348, 0.3053,  
0.3734

■ 53.8874, 0.3091,  
0.3497

# Harmonies

## Analogous

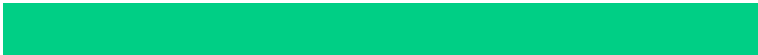
The Analogous color harmony consists of three colors that are next to each other on the color wheel.



40.9682, 0.4106, 0.5527



40.9682, 0.2957, 0.5844



40.9682, 0.1902, 0.4734

# Triad

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



40.9682, 0.2957, 0.5844



40.9682, 0.1248, 0.1546



40.9682, 0.5383, 0.2952

# Complementary

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



40.9682, 0.2957, 0.5844



14.8385, 0.3709, 0.1818

# 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.



40.9682, 0.4180, 0.2254



40.9682, 0.2957, 0.5844



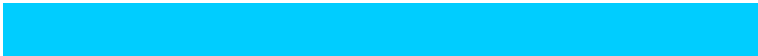
40.9682, 0.1779, 0.1491

# Square

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



40.9682, 0.2957, 0.5844



40.9682, 0.1078, 0.1989



40.9682, 0.2777, 0.1736



40.9682, 0.5683, 0.3726

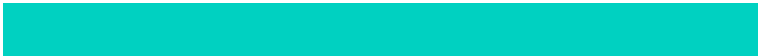


# Rectangle

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



40.9682, 0.2957, 0.5844



40.9682, 0.1416, 0.3569



40.9682, 0.2777, 0.1736



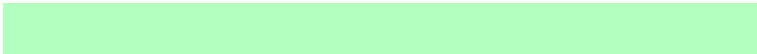
40.9682, 0.5059, 0.2709

# Sweetspot

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



40.9699, 0.2957, 0.5844



84.8442, 0.3015, 0.4014



48.9414, 0.3901, 0.5284



17.8159, 0.3000, 0.4135



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.



40.9699, 0.2957, 0.5844



71.7061, 0.2962, 0.5863



42.5354, 0.2562, 0.4422



11.9176, 0.3093, 0.3486



26.3518, 0.2952, 0.5828



1.2573, 0.2851, 0.5465



# Inverse Universe

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



14.8385, 0.3709, 0.1818



25.9351, 0.3718, 0.1822



12.5478, 0.5649, 0.2887



10.7836, 0.3164, 0.3101



9.5480, 0.3702, 0.1813

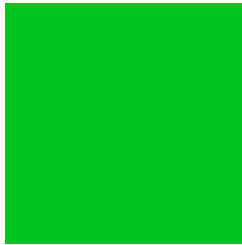


0.4607, 0.3582, 0.1747



# Previews

## White Background



This preview shows how the Yxy color 40.9682, 0.2957, 0.5844 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 40.9682, 0.2957, 0.5844 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

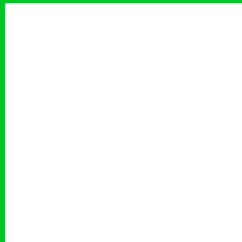
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**Yxy 40.9682, 0.2957, 0.5844**

## Background



This preview shows how black text looks on a background with the Yxy color 40.9682, 0.2957, 0.5844.



This preview shows how white text looks on a background with the Yxy color 40.9682, 0.2957, 0.5844.

# 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

40.9682, 0.2957, 0.5844

### Protanopia

40.4114, 0.4354, 0.4821

### Deuteranopia

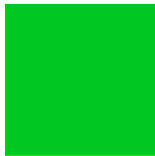
40.2531, 0.4540, 0.4454



## Tritanopia

40.7071, 0.2358, 0.3063

# Trichromacy



## Original Color

40.9682, 0.2957, 0.5844



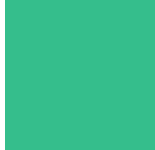
## Protanomaly

37.2791, 0.3583, 0.5389



## Deuteranomaly

36.0994, 0.3694, 0.5129



## Tritanomaly

39.4772, 0.2585, 0.4146

# Monochromacy



## Original Color

40.9682, 0.2957, 0.5844



## Achromatopsia

19.1202, 0.3127, 0.3290



## Achromatomaly

23.8109, 0.2959, 0.4500

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 40.9682, 0.2957, 0.5844 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, 199, 35)` looks like.

```
.text, #text, p{  
    color:rgb(0, 199, 35)  
}
```

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, 199, 35) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(0, 199, 35) }
```

## Border

The CSS property to change the border of an element to Yxy 40.9682, 0.2957, 0.5844 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, 199, 35) }
```

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

```
.border{ border-color:rgb(0, 199, 35) }
```

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

Here you see how a box with a 4 pixel rgb(0, 199, 35) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(0, 199, 35); -webkit-box-  
shadow:4px 4px 4px 4px rgb(0, 199, 35);  
box-shadow:4px 4px 4px 4px rgb(0, 199, 35)  
}
```



# Background

The CSS property to change the background color of an element to Yxy 40.9682, 0.2957, 0.5844 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(0, 199, 35) }
```

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

```
.background{ background-color: rgb(0, 199,  
35) }
```

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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