

# Converting Colors

$Y_{xy}(40.9118, 0.2960, 0.5857)$

Have a look what the booklet for  
Yxy(40.9118, 0.2960, 0.5857)  
contains.

<b>Yxy(40.9567, 0.2961, 0.5859)</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(40.9567, 0.2961, 0.5859)**

# Conversions

## Conversions Part 1

Format	Color
Hex	00C721
RGB	0, 199, 33
RGB Percent	0%, 78%, 13%
CMY	0.9994, 0.2196, 0.8708
CMYK	1.00, 0.00, 0.83, 0.22
HSL	130°, 100%, 39%
HSV	130°, 100%, 78%
XYZ	20.6985, 40.9567, 8.2487
YIQ	120.5750, -65.3180, -93.8140

# Conversions

## Conversions Part 2

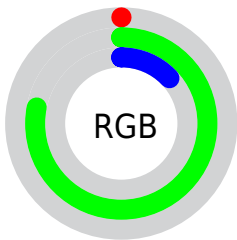
<b>Format</b>	<b>Color</b>
<b>RYB</b>	0, 171, 199
Decimal	50977
CIELab	70.15, -70.50, 63.90
CIELCh	70, 95.150, 137.811
Yxy	40.9567, 0.2961, 0.5859
Android (android.graphics.Color)	4278241057 (0xFF00C721)
YUV	120.5750, -43.1745, -105.7443
Hunter-Lab	63.9974, -54.2636, 37.1563

# Details

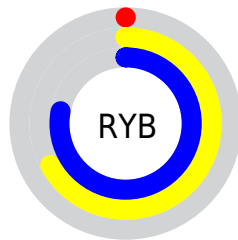
The Yxy color **40.9567, 0.2961, 0.5859** is a dark color, and the websafe version is hex **00CC33**. The color can be described as dark washed green. A complement of this color would be **14.9060, 0.3678, 0.1800**, and the grayscale version is **19.1466, 0.3127, 0.3290**.

A 20% lighter version of the original color is **75.2117, 0.3067, 0.5319**, and **19.6449, 0.3000, 0.6000** is the 20% darker color. If you saturate the color by 10%, you get **40.9568, 0.2961, 0.5860**, and if you desaturate by 10%, it is **41.2237, 0.2943, 0.5701**.

# Distribution



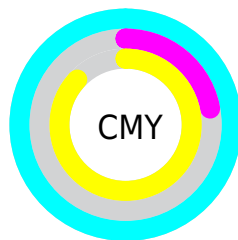
- Red (0%)
- Green (78%)
- Blue (13%)



- Red (0%)
- Yellow (67%)
- Blue (78%)



- Cyan (100%)
- Magenta (0%)
- Yellow (83%)
- Black (22%)




- Cyan (100%)
- Magenta (22%)
- Yellow (87%)

# Brightness & Saturation Gradients

These gradients show how the Yxy color 40.9567, 0.2961, 0.5859 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 40.9567, 0.2961, 0.5859 by changing the saturation by 10% instead.




 40.9567, 0.2961,  
0.5859

 40.9567, 0.2961,  
0.5859


350.1396, 0.3160,  
0.4453

 28.2853, 0.2863,  
0.6221


 76.6182, 0.3068,  
0.5332

 18.5408, 0.2706,  
0.6676


 100.3770, 0.3097,  
0.5137


 11.3389, 0.2467,  
0.7294


 128.6003, 0.3117,  
0.4975

 6.2953, 0.2036,  
0.7964

 161.6727, 0.3132,  
0.4838

 3.0255, 0.1165,  
0.8835

 199.9784, 0.3142,  
0.4720

 1.1450, 0.0000,  
1.0000


 243.9018, 0.3150,


 0.0161, 0.0000,


0.4619


1.0000


293.8275, 0.3156,  
0.4531


 0.0000, 0.0000,  
0.0000


 40.9567, 0.2961,  
0.5859


 40.9567, 0.2961,  
0.5859

 40.9568, 0.2961,  
0.5860

 41.2237, 0.2943,  
0.5701

 41.6934, 0.2931,  
0.5484

 42.4251, 0.2930,  
0.5216

 43.4511, 0.2941,  
0.4918

 44.7987, 0.2961,  
0.4606

■ 46.4922, 0.2988,  
0.4299

■ 48.5537, 0.3021,  
0.4008

■ 51.0030, 0.3056,  
0.3741

■ 53.8590, 0.3092,  
0.3501

# Harmonies

## Analogous

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



40.9567, 0.4114, 0.5529



40.9567, 0.2961, 0.5859



40.9567, 0.1902, 0.4752

# Triad

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



40.9567, 0.2961, 0.5859



40.9567, 0.1240, 0.1542



40.9567, 0.5388, 0.2945

# Complementary

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



40.9567, 0.2961, 0.5859



14.9060, 0.3678, 0.1800

# 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.



40.9567, 0.4175, 0.2246



40.9567, 0.2961, 0.5859



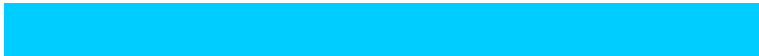
40.9567, 0.1770, 0.1485

# Square

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



40.9567, 0.2961, 0.5859



40.9567, 0.1072, 0.1988



40.9567, 0.2767, 0.1728



40.9567, 0.5693, 0.3720

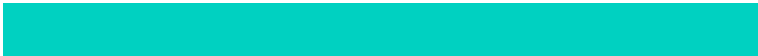


# Rectangle

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



40.9567, 0.2961, 0.5859



40.9567, 0.1413, 0.3580



40.9567, 0.2767, 0.1728



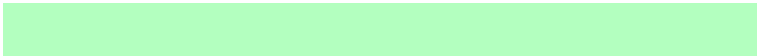
40.9567, 0.5061, 0.2701

# Sweetspot

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



40.9584, 0.2961, 0.5859



84.8111, 0.3019, 0.4023



49.3025, 0.3930, 0.5261



17.8083, 0.3005, 0.4145



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.



40.9584, 0.2961, 0.5859



71.6876, 0.2966, 0.5876



42.4446, 0.2579, 0.4483



11.9160, 0.3094, 0.3489



26.3442, 0.2956, 0.5843



1.2566, 0.2859, 0.5492



# Inverse Universe

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



14.9060, 0.3678, 0.1800



26.0608, 0.3686, 0.1804



12.5845, 0.5588, 0.2852



10.7854, 0.3162, 0.3099



9.5932, 0.3671, 0.1796

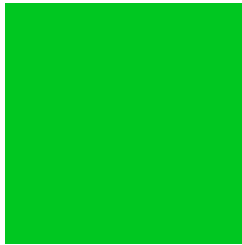


0.4625, 0.3559, 0.1734



# Previews

## White Background



This preview shows how the Yxy color 40.9567, 0.2961, 0.5859 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 40.9567, 0.2961, 0.5859 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 40.9567, 0.2961, 0.5859**

## **Background**



This preview shows how black text looks on a background with the Yxy color 40.9567, 0.2961, 0.5859.



This preview shows how white text looks on a background with the Yxy color 40.9567, 0.2961, 0.5859.

# 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

40.9567, 0.2961, 0.5859

### Protanopia

40.0261, 0.4370, 0.4820

### Deuteranopia

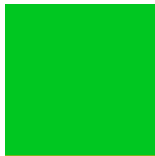
39.8929, 0.4555, 0.4450



## Tritanopia

40.7071, 0.2358, 0.3063

# Trichromacy



## Original Color

40.9567, 0.2961, 0.5859



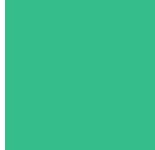
## Protanomaly

37.2692, 0.3588, 0.5400



## Deuteranomaly

36.0914, 0.3698, 0.5138



## Tritanomaly

39.4479, 0.2591, 0.4164

# Monochromacy



## Original Color

40.9567, 0.2961, 0.5859



## Achromatopsia

19.1202, 0.3127, 0.3290



## Achromatomaly

23.7939, 0.2966, 0.4521

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 40.9567, 0.2961, 0.5859 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, 33)` looks like.

```
.text, #text, p{  
    color:rgb(0, 199, 33)  
}
```

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, 33) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(0, 199, 33) }
```

## Border

The CSS property to change the border of an element to Yxy 40.9567, 0.2961, 0.5859 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, 33) }
```

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

```
.border{ border-color:rgb(0, 199, 33) }
```

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, 33)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(0, 199, 33); -webkit-box-  
shadow:4px 4px 4px 4px rgb(0, 199, 33);  
box-shadow:4px 4px 4px 4px rgb(0, 199, 33)  
}
```



# Background

The CSS property to change the background color of an element to Yxy 40.9567, 0.2961, 0.5859 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, 33) }
```

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

```
.background{ background-color: rgb(0, 199,  
33) }
```

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