

# Converting Colors

$Y_{xy}(42.5012, 0.2992, 0.5972)$

Have a look what the booklet for  
Yxy(42.5012, 0.2992, 0.5972)  
contains.

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# Color

**Yxy(42.7338, 0.2992, 0.5972)**

# Conversions

## Conversions Part 1

Format	Color
Hex	00CB0A
RGB	0, 203, 10
RGB Percent	0%, 80%, 4%
CMY	1.0000, 0.2039, 0.9599
CMYK	1.00, 0.00, 0.95, 0.20
HSL	123°, 100%, 40%
HSV	123°, 100%, 80%
XYZ	21.4098, 42.7338, 7.4133
YIQ	120.3010, -59.0350, -103.0590

# Conversions

## Conversions Part 2

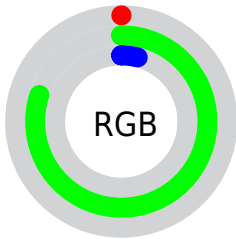
<b>Format</b>	<b>Color</b>
<b>RYB</b>	0, 193, 203
Decimal	51978
CIELab	71.37, -72.39, 68.98
CIElCh	71, 99.989, 136.381
Yxy	42.7338, 0.2992, 0.5972
Android (android.graphics.Color)	4278242058 (0xFF00CB0A)
YUV	120.3010, -54.3784, -105.5040
Hunter-Lab	65.3711, -55.9385, 39.0361

# Details

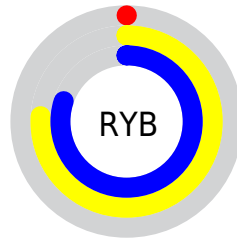
The Yxy color **42.7338, 0.2992, 0.5972** is a dark color, and the websafe version is hex **00CC00**. The color can be described as dark washed green. A complement of this color would be **16.5372, 0.3340, 0.1614**, and the grayscale version is **19.0859, 0.3127, 0.3290**.

A 20% lighter version of the original color is **75.1634, 0.3108, 0.5409**, and **20.8674, 0.3000, 0.6000** is the 20% darker color. If you saturate the color by 10%, you get **42.7368, 0.2992, 0.5972**, and if you desaturate by 10%, it is **42.9576, 0.2990, 0.5871**.

# Distribution



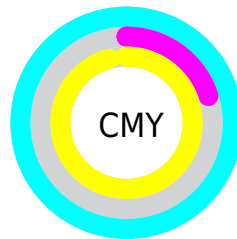
- Red (0%)
- Green (80%)
- Blue (4%)



- Red (0%)
- Yellow (76%)
- Blue (80%)



- Cyan (100%)
- Magenta (0%)
- Yellow (95%)
- Black (20%)




- Cyan (100%)
- Magenta (20%)
- Yellow (96%)

# Brightness & Saturation Gradients

These gradients show how the Yxy color 42.7338, 0.2992, 0.5972 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 42.7338, 0.2992, 0.5972 by changing the saturation by 10% instead.





 42.7338, 0.2992,  
0.5972


 42.7338, 0.2992,  
0.5972


357.5159, 0.3190,  
0.4523

 29.6763, 0.2889,  
0.6334


 79.3090, 0.3102,  
0.5436

 19.5930, 0.2726,  
0.6779


 103.5955, 0.3131,  
0.5236


 12.0996, 0.2491,  
0.7408


 132.3938, 0.3152,  
0.5068

 6.8115, 0.2036,  
0.7964

 166.0883, 0.3166,  
0.4925

 3.3445, 0.1260,  
0.8740

 205.0633, 0.3175,  
0.4803

 1.3141, 0.0000,  
1.0000

 249.7033, 0.3182,

 0.1521, 0.0000,

0.4697

1.0000

300.3927, 0.3187,  
0.4604

■ 0.0000, 0.0000,  
0.0000

■ 42.7338, 0.2992,  
0.5972

■ 42.7338, 0.2992,  
0.5972

■ 42.7368, 0.2992,  
0.5972

■ 42.9576, 0.2990,  
0.5871

■ 43.3976, 0.2991,  
0.5691

■ 44.1216, 0.2997,  
0.5437

■ 45.1664, 0.3009,  
0.5128

■ 46.5638, 0.3026,  
0.4789

■ 48.3413, 0.3045,  
0.4445

■ 50.5241, 0.3066,  
0.4114

■ 53.1349, 0.3087,  
0.3808

■ 56.1948, 0.3108,  
0.3533

# Harmonies

## Analogous

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



42.7338, 0.4170, 0.5541



42.7338, 0.2992, 0.5972



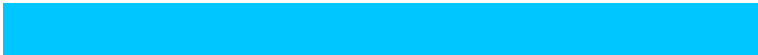
42.7338, 0.1901, 0.4897

# Triad

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



42.7338, 0.2992, 0.5972



42.7338, 0.1181, 0.1508



42.7338, 0.5423, 0.2888

# Complementary

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



42.7338, 0.2992, 0.5972



16.5372, 0.3340, 0.1614

# 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.



42.7338, 0.4136, 0.2185



42.7338, 0.2992, 0.5972



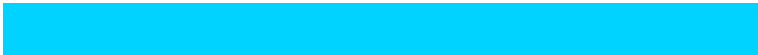
42.7338, 0.1697, 0.1438

# Square

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



42.7338, 0.2992, 0.5972



42.7338, 0.1026, 0.1980



42.7338, 0.2691, 0.1671



42.7338, 0.5773, 0.3667

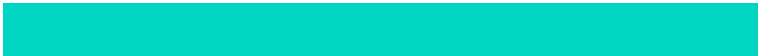


# Rectangle

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



42.7338, 0.2992, 0.5972



42.7338, 0.1390, 0.3667



42.7338, 0.2691, 0.1671



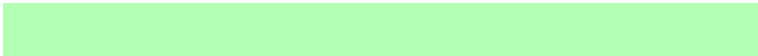
42.7338, 0.5071, 0.2643

# Sweetspot

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



42.7368, 0.2992, 0.5972



84.4364, 0.3065, 0.4127



54.0328, 0.4106, 0.5122



17.7229, 0.3056, 0.4266



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.



42.7368, 0.2992, 0.5972



71.5487, 0.2994, 0.5978



43.8765, 0.2679, 0.4845



12.5460, 0.3109, 0.3517



27.1999, 0.2990, 0.5964



1.4065, 0.2956, 0.5842



# Inverse Universe

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



16.5372, 0.3340, 0.1614



27.6794, 0.3342, 0.1615



13.4587, 0.5185, 0.2630



11.3936, 0.3145, 0.3073



10.5278, 0.3338, 0.1613

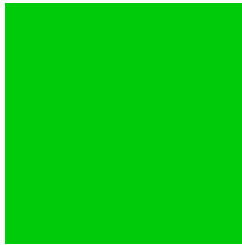


0.5462, 0.3311, 0.1598



# Previews

## White Background



This preview shows how the Yxy color 42.7338, 0.2992, 0.5972 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

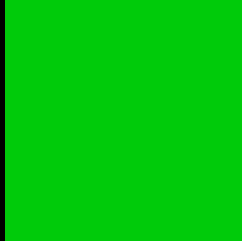
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 42.7338, 0.2992, 0.5972 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 42.7338, 0.2992, 0.5972**

## Background



This preview shows how black text looks on a background with the Yxy color 42.7338, 0.2992, 0.5972.



This preview shows how white text looks on a background with the Yxy color 42.7338, 0.2992, 0.5972.

# 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

42.7338, 0.2992, 0.5972

### Protanopia

42.0079, 0.4406, 0.4884

### Deuteranopia

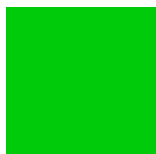
41.6458, 0.4608, 0.4498



## Tritanopia

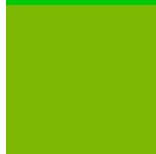
42.6861, 0.2360, 0.3067

# Trichromacy



## Original Color

42.7338, 0.2992, 0.5972



## Protanomaly

39.0667, 0.3628, 0.5488



## Deuteranomaly

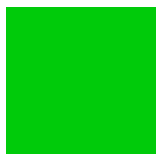
37.4340, 0.3755, 0.5240



## Tritanomaly

41.0891, 0.2634, 0.4309

# Monochromacy



## Original Color

42.7338, 0.2992, 0.5972



## Achromatopsia

18.7821, 0.3127, 0.3290



## Achromatomaly

23.9284, 0.3027, 0.4723

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 42.7338, 0.2992, 0.5972 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, 203, 10)` looks like.

```
.text, #text, p{  
    color:rgb(0, 203, 10)  
}
```

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, 203, 10) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(0, 203, 10) }
```

## Border

The CSS property to change the border of an element to Yxy 42.7338, 0.2992, 0.5972 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, 203, 10) }
```

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

```
.border{ border-color:rgb(0, 203, 10) }
```

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

Here you see how a box with a 4 pixel rgb(0, 203, 10) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(0, 203, 10); -webkit-box-  
shadow:4px 4px 4px 4px rgb(0, 203, 10);  
box-shadow:4px 4px 4px 4px rgb(0, 203, 10)  
}
```



# Background

The CSS property to change the background color of an element to Yxy 42.7338, 0.2992, 0.5972 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(0, 203, 10) }
```

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

```
.background{ background-color: rgb(0, 203,  
10) }
```

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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