

# Converting Colors

$Yxy(42.3384, 0.2849, 0.5864)$

Have a look what the booklet for  
Yxy(42.3384, 0.2849, 0.5864)  
contains.

<b>Yxy(42.8790, 0.2944, 0.5797)</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(42.8790, 0.2944, 0.5797)**

# Conversions

## Conversions Part 1

Format	Color
Hex	00CB2A
RGB	0, 203, 42
RGB Percent	0%, 80%, 16%
CMY	0.9986, 0.2039, 0.8355
CMYK	1.00, 0.00, 0.79, 0.20
HSL	132°, 100%, 40%
HSV	132°, 100%, 80%
XYZ	21.7761, 42.8790, 9.3125
YIQ	123.9490, -69.3070, -93.1070

# Conversions

## Conversions Part 2

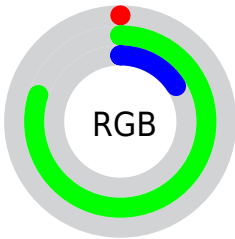
<b>Format</b>	<b>Color</b>
<b>RYB</b>	0, 168, 203
Decimal	52010
CIELab	71.47, -71.09, 62.70
CIELCh	71, 94.786, 138.589
Yxy	42.8790, 0.2944, 0.5797
Android (android.graphics.Color)	4278242090 (0xFF00CB2A)
YUV	123.9490, -40.4009, -108.7033
Hunter-Lab	65.4821, -55.2334, 37.4055

# Details

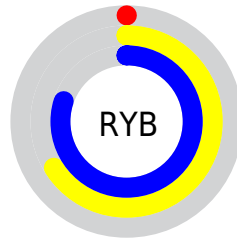
The Yxy color **42.8790, 0.2944, 0.5797** is a dark color, and the websafe version is hex **00CC33**. The color can be described as dark washed green. A complement of this color would be **15.2920, 0.3811, 0.1874**, and the grayscale version is **20.3271, 0.3127, 0.3290**.

A 20% lighter version of the original color is **75.3832, 0.3051, 0.5255**, and **20.8674, 0.3000, 0.6000** is the 20% darker color. If you saturate the color by 10%, you get **42.8765, 0.2944, 0.5800**, and if you desaturate by 10%, it is **43.1736, 0.2921, 0.5624**.

# Distribution



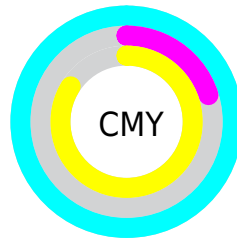
- Red (0%)
- Green (80%)
- Blue (16%)



- Red (0%)
- Yellow (66%)
- Blue (80%)



- Cyan (100%)
- Magenta (0%)
- Yellow (79%)
- Black (20%)



- Cyan (100%)
- Magenta (20%)
- Yellow (84%)

# Brightness & Saturation Gradients

These gradients show how the Yxy color 42.8790, 0.2944, 0.5797 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 42.8790, 0.2944, 0.5797 by changing the saturation by 10% instead.




 42.8790, 0.2944,  
0.5797

 42.8790, 0.2944,  
0.5797


358.1139, 0.3143,  
0.4431

 29.7902, 0.2850,  
0.6149


 79.5282, 0.3048,  
0.5285

 19.6794, 0.2703,  
0.6593


 103.8574, 0.3077,  
0.5097


 12.1622, 0.2470,  
0.7167


 132.7022, 0.3098,  
0.4939

 6.8542, 0.2090,  
0.7910

 166.4470, 0.3113,  
0.4805

 3.3711, 0.1345,  
0.8655

 205.4762, 0.3124,  
0.4691

 1.3284, 0.0000,  
1.0000

 250.1741, 0.3132,

 0.1630, 0.0000,

0.4593

1.0000

300.9253, 0.3139,  
0.4507

■ 0.0000, 0.0000,  
0.0000

■ 42.8790, 0.2944,  
0.5797

■ 42.8790, 0.2944,  
0.5797

■ 42.8765, 0.2944,  
0.5800

■ 43.1736, 0.2921,  
0.5624

■ 43.6794, 0.2906,  
0.5399

■ 44.4558, 0.2904,  
0.5133

■ 45.5360, 0.2915,  
0.4841

■ 46.9481, 0.2937,  
0.4541

■ 48.7169, 0.2968,  
0.4247

■ 50.8649, 0.3005,  
0.3971

■ 53.4127, 0.3045,  
0.3717

■ 56.3794, 0.3087,  
0.3489

# Harmonies

## Analogous

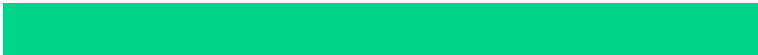
The Analogous color harmony consists of three colors that are next to each other on the color wheel.



42.8790, 0.4083, 0.5520



42.8790, 0.2944, 0.5797



42.8790, 0.1903, 0.4678

# Triad

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



42.8790, 0.2944, 0.5797



42.8790, 0.1272, 0.1560



42.8790, 0.5369, 0.2975

# Complementary

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



42.8790, 0.2944, 0.5797



15.2920, 0.3811, 0.1874

# 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.



42.8790, 0.4194, 0.2279



42.8790, 0.2944, 0.5797



42.8790, 0.1809, 0.1510

# Square

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



42.8790, 0.2944, 0.5797



42.8790, 0.1097, 0.1992



42.8790, 0.2807, 0.1759



42.8790, 0.5650, 0.3747

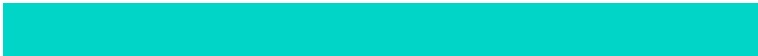


# Rectangle

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



42.8790, 0.2944, 0.5797



42.8790, 0.1426, 0.3536



42.8790, 0.2807, 0.1759



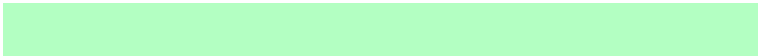
42.8790, 0.5055, 0.2732

# Sweetspot

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



42.8808, 0.2944, 0.5797



84.9482, 0.3003, 0.3986



50.4433, 0.3842, 0.5331



17.8398, 0.2987, 0.4102



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.



42.8808, 0.2944, 0.5797



71.7709, 0.2949, 0.5817



44.6732, 0.2529, 0.4302



12.5740, 0.3088, 0.3479



27.2972, 0.2939, 0.5780



1.4195, 0.2836, 0.5410



# Inverse Universe

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



15.2920, 0.3811, 0.1874



25.5562, 0.3821, 0.1879



13.0426, 0.5773, 0.2955



11.3628, 0.3168, 0.3108



9.7388, 0.3802, 0.1868

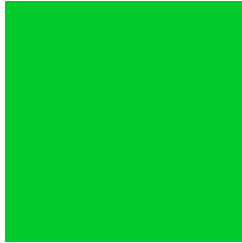


0.5126, 0.3665, 0.1793



# Previews

## White Background



This preview shows how the Yxy color 42.8790, 0.2944, 0.5797 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 42.8790, 0.2944, 0.5797 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

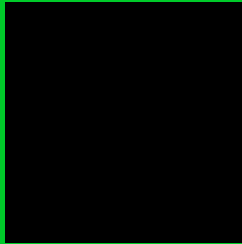
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**Yxy 42.8790, 0.2944, 0.5797**

## **Background**



This preview shows how black text looks on a background with the Yxy color 42.8790, 0.2944, 0.5797.



This preview shows how white text looks on a background with the Yxy color 42.8790, 0.2944, 0.5797.

# 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

42.8790, 0.2944, 0.5797

### Protanopia

41.9897, 0.4333, 0.4797

### Deuteranopia

41.9882, 0.4515, 0.4420



## Tritanopia

42.6396, 0.2356, 0.3067

# Trichromacy



## Original Color

42.8790, 0.2944, 0.5797



## Protanomaly

39.1166, 0.3559, 0.5355



## Deuteranomaly

37.9005, 0.3662, 0.5095



## Tritanomaly

41.4122, 0.2573, 0.4110

# Monochromacy



## Original Color

42.8790, 0.2944, 0.5797



## Achromatopsia

20.1556, 0.3127, 0.3290



## Achromatomaly

25.2529, 0.2946, 0.4471

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 42.8790, 0.2944, 0.5797 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, 42)` looks like.

```
.text, #text, p{  
    color:rgb(0, 203, 42)  
}
```

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, 42) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(0, 203, 42) }
```

## Border

The CSS property to change the border of an element to Yxy 42.8790, 0.2944, 0.5797 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, 42) }
```

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

```
.border{ border-color:rgb(0, 203, 42) }
```

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, 42) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(0, 203, 42); -webkit-box-  
shadow:4px 4px 4px 4px rgb(0, 203, 42);  
box-shadow:4px 4px 4px 4px rgb(0, 203, 42)  
}
```



# Background

The CSS property to change the background color of an element to Yxy 42.8790, 0.2944, 0.5797 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, 42) }
```

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

```
.background{ background-color: rgb(0, 203,  
42) }
```

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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