

# Converting Colors

$Y_{xy}(52.4299, 0.2985, 0.5872)$

Have a look what the booklet for  
Yxy(52.4299, 0.2985, 0.5872)  
contains.

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# Color

**$\text{Yxy}(52.5068, 0.2985, 0.5870)$**

# Conversions

## Conversions Part 1

Format	Color
Hex	14DE22
RGB	20, 222, 34
RGB Percent	8%, 87%, 13%
CMY	0.9211, 0.1294, 0.8666
CMYK	0.91, 0.00, 0.85, 0.13
HSL	124°, 83%, 47%
HSV	124°, 91%, 87%
XYZ	26.7006, 52.5068, 10.2420
YIQ	140.1700, -60.0440, -101.2920

# Conversions

## Conversions Part 2

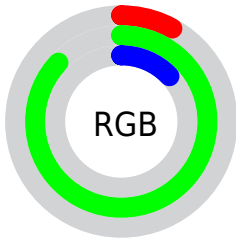
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	20, 209, 222
Decimal	1367586
CIE <sub>Lab</sub>	77.58, -75.91, 70.39
CIE <sub>LCh</sub>	78, 103.525, 137.160
Yxy	52.5068, 0.2985, 0.5870
Android (android.graphics.Color)	4279557666 (0xFF14DE22)
YUV	140.1700, -52.3418, -105.3891
Hunter-Lab	72.4616, -61.0341, 42.3429

# Details

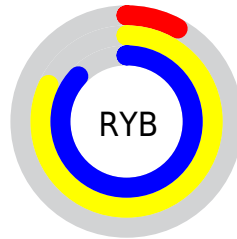
The Yxy color **52.5068, 0.2985, 0.5870** is a dark color, and the websafe version is hex **00CC00**. The color can be described as dark washed green. A complement of this color would be **20.5941, 0.3372, 0.1662**, and the grayscale version is **26.5378, 0.3127, 0.3290**.

A 20% lighter version of the original color is **75.9792, 0.3102, 0.5249**, and **26.9103, 0.3000, 0.6000** is the 20% darker color. If you saturate the color by 10%, you get **52.2785, 0.2990, 0.5964**, and if you desaturate by 10%, it is **53.0154, 0.2982, 0.5692**.

# Distribution



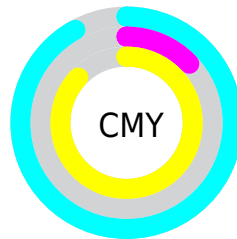
- Red (8%)
- Green (87%)
- Blue (13%)



- Red (8%)
- Yellow (82%)
- Blue (87%)



- Cyan (91%)
- Magenta (0%)
- Yellow (85%)
- Black (13%)




- Cyan (92%)
- Magenta (13%)
- Yellow (87%)

# Brightness & Saturation Gradients

These gradients show how the Yxy color 52.5068, 0.2985, 0.5870 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 52.5068, 0.2985, 0.5870 by changing the saturation by 10% instead.





 52.5068, 0.2985,  
0.5870


 52.5068, 0.2985,  
0.5870


396.3900, 0.3172,  
0.4516

 37.4092, 0.2897,  
0.6199


 93.8782, 0.3083,  
0.5378


 25.5245, 0.2762,  
0.6603


 120.9209, 0.3111,  
0.5191


 16.4682, 0.2550,  
0.7099


 152.7139, 0.3131,  
0.5034

 9.8561, 0.2233,  
0.7767

 189.6419, 0.3145,  
0.4900

 5.3036, 0.1675,  
0.8325

 232.0890, 0.3155,  
0.4784

 2.4265, 0.0000,  
1.0000

 280.4399, 0.3163,

 0.8395, 0.0000,

0.4683

1.0000

335.0787, 0.3168,  
0.4594

■ 0.0000, 0.0000,  
0.0000

■ 52.5068, 0.2985,  
0.5870

■ 52.5068, 0.2985,  
0.5870

■ 52.2785, 0.2990,  
0.5964


■ 53.0154, 0.2982,  
0.5692

■ 53.8642, 0.2986,  
0.5442


■ 55.1019, 0.2996,  
0.5137


■ 56.7677, 0.3013,  
0.4803

■ 58.8963, 0.3033,  
0.4461

 61.5185, 0.3056,  
0.4132

 64.6626, 0.3080,  
0.3828

 68.3549, 0.3103,  
0.3553

 72.6196, 0.3125,  
0.3311

# Harmonies

## Analogous

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



52.5068, 0.4138, 0.5514



52.5068, 0.2985, 0.5870



52.5068, 0.1920, 0.4792

# Triad

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



52.5068, 0.2985, 0.5870



52.5068, 0.1231, 0.1545



52.5068, 0.5373, 0.2928

# Complementary

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



52.5068, 0.2985, 0.5870



20.5941, 0.3372, 0.1662

# 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.



52.5068, 0.4145, 0.2231



52.5068, 0.2985, 0.5870



52.5068, 0.1752, 0.1481

# Square

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



52.5068, 0.2985, 0.5870



52.5068, 0.1070, 0.2001



52.5068, 0.2739, 0.1718



52.5068, 0.5700, 0.3701



# Rectangle

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



52.5068, 0.2985, 0.5870



52.5068, 0.1423, 0.3617



52.5068, 0.2739, 0.1718



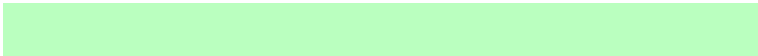
52.5068, 0.5039, 0.2684

# Sweetspot

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



52.5090, 0.2985, 0.5870



85.7346, 0.3065, 0.4016



65.7830, 0.4069, 0.5107



18.0499, 0.3057, 0.4123



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.



52.5090, 0.2985, 0.5870



71.5622, 0.2991, 0.5968



54.1292, 0.2641, 0.4648



15.3525, 0.3106, 0.3515



31.0579, 0.2987, 0.5954



2.1582, 0.2951, 0.5823



# Inverse Universe

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



20.5941, 0.3372, 0.1662



27.4008, 0.3394, 0.1643



17.1091, 0.5024, 0.2600



13.9185, 0.3148, 0.3075



11.8989, 0.3389, 0.1641

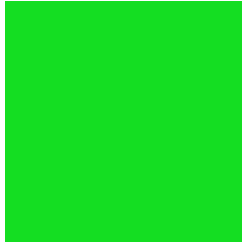


0.8297, 0.3358, 0.1624



# Previews

## White Background



This preview shows how the Yxy color 52.5068, 0.2985, 0.5870 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

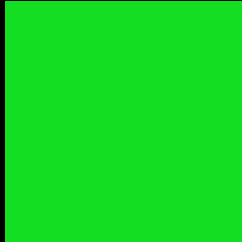
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 52.5068, 0.2985, 0.5870 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

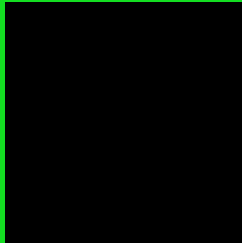
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**Yxy 52.5068, 0.2985, 0.5870**

## **Background**



This preview shows how black text looks on a background with the Yxy color 52.5068, 0.2985, 0.5870.



This preview shows how white text looks on a background with the Yxy color 52.5068, 0.2985, 0.5870.

# 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

52.5068, 0.2985, 0.5870

### Protanopia

51.1932, 0.4375, 0.4835

### Deuteranopia

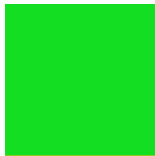
51.1251, 0.4568, 0.4462



## Tritanopia

52.3330, 0.2362, 0.3072

# Trichromacy



## Original Color

52.5068, 0.2985, 0.5870



## Protanomaly

48.2542, 0.3657, 0.5375



## Deuteranomaly

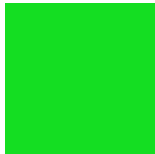
46.6229, 0.3773, 0.5119



## Tritanomaly

50.6134, 0.2620, 0.4184

# Monochromacy



## Original Color

52.5068, 0.2985, 0.5870



## Achromatopsia

26.2251, 0.3127, 0.3290



## Achromatomaly

32.1758, 0.3030, 0.4525

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 52.5068, 0.2985, 0.5870 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(20, 222, 34)` looks like.

```
.text, #text, p{  
    color:rgb(20, 222, 34)  
}
```

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(20, 222, 34) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(20, 222, 34) }
```

## Border

The CSS property to change the border of an element to Yxy 52.5068, 0.2985, 0.5870 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(20, 222, 34) }
```

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

```
.border{ border-color:rgb(20, 222, 34) }
```

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

Here you see how a box with a 4 pixel `rgb(20, 222, 34)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(20, 222, 34); -webkit-box-  
shadow:4px 4px 4px 4px rgb(20, 222, 34);  
box-shadow:4px 4px 4px 4px rgb(20, 222,  
34) }
```



# Background

The CSS property to change the background color of an element to Yxy 52.5068, 0.2985, 0.5870 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(20, 222, 34) }
```

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

```
.background{ background-color: rgb(20, 222,  
34) }
```

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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