

# Converting Colors

$Y_{xy}(45.6098, 0.2919, 0.5633)$

Have a look what the booklet for  
Yxy(45.6098, 0.2919, 0.5633)  
contains.

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# Color

**$\text{Yxy}(45.5660, 0.2920, 0.5635)$**

# Conversions

## Conversions Part 1

Format	Color
Hex	13D03B
RGB	19, 208, 59
RGB Percent	7%, 82%, 23%
CMY	0.9259, 0.1843, 0.7687
CMYK	0.91, 0.00, 0.72, 0.18
HSL	133°, 83%, 44%
HSV	133°, 91%, 82%
XYZ	23.6118, 45.5660, 11.6846
YIQ	134.5030, -64.8150, -86.4070

# Conversions

## Conversions Part 2

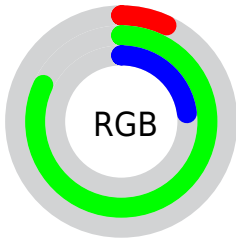
Format	Color
<a href="#">RYB</a>	<a href="#">19, 175, 208</a>
Decimal	<a href="#">1298491</a>
CIELab	<a href="#">73.26, -70.44, 58.86</a>
CIELCh	<a href="#">73, 91.793, 140.117</a>
Yxy	<a href="#">45.5660, 0.2920, 0.5635</a>
Android (android.graphics.Color)	<a href="#">4279488571 (0xFF13D03B)</a>
YUV	<a href="#">134.5030, -37.2230, -101.2961</a>
Hunter-Lab	<a href="#">67.5026, -55.6917, 36.9888</a>

# Details

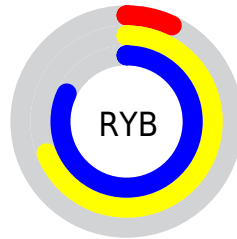
The Yxy color **45.5660, 0.2920, 0.5635** is a dark color, and the websafe version is hex **00CC33**. The color can be described as dark washed green. A complement of this color would be **16.6977, 0.3764, 0.1887**, and the grayscale version is **24.1819, 0.3127, 0.3290**.

A 20% lighter version of the original color is **75.9231, 0.3017, 0.5092**, and **22.4565, 0.3000, 0.6000** is the 20% darker color. If you saturate the color by 10%, you get **45.2974, 0.2942, 0.5790**, and if you desaturate by 10%, it is **46.0731, 0.2903, 0.5415**.

# Distribution



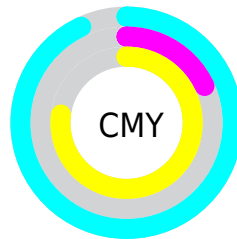
- Red (7%)
- Green (82%)
- Blue (23%)



- Red (7%)
- Yellow (69%)
- Blue (82%)



- Cyan (91%)
- Magenta (0%)
- Yellow (72%)
- Black (18%)




- Cyan (93%)
- Magenta (18%)
- Yellow (77%)

# Brightness & Saturation Gradients

These gradients show how the Yxy color 45.5660, 0.2920, 0.5635 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 45.5660, 0.2920, 0.5635 by changing the saturation by 10% instead.





 45.5660, 0.2920,  
0.5635

 45.5660, 0.2920,  
0.5635


369.0611, 0.3114,  
0.4364

 31.9035, 0.2836,  
0.5965


 83.5691, 0.3016,  
0.5159

 21.2878, 0.2707,  
0.6386

 108.6785, 0.3044,  
0.4983


 13.3345, 0.2501,  
0.6925


 138.3723, 0.3065,  
0.4837

 7.6593, 0.2210,  
0.7790

 173.0348, 0.3080,  
0.4713

 3.8777, 0.1581,  
0.8419

 213.0506, 0.3092,  
0.4607

 1.6054, 0.0000,  
1.0000

258.8040, 0.3101,

 0.3612, 0.0000,

0.4515

1.0000

310.6793, 0.3108,  
0.4435

■ 0.0000, 0.0000,  
0.0000

■ 45.5660, 0.2920,  
0.5635

■ 45.5660, 0.2920,  
0.5635

■ 45.2974, 0.2942,  
0.5790

■ 46.0731, 0.2903,  
0.5415

■ 46.8598, 0.2899,  
0.5152

■ 47.9636, 0.2909,  
0.4863

■ 49.4148, 0.2930,  
0.4565

■ 51.2401, 0.2961,  
0.4272

■ 53.4633, 0.2998,  
0.3995

■ 56.1065, 0.3039,  
0.3740

■ 59.1901, 0.3081,  
0.3511

■ 62.7330, 0.3123,  
0.3307

# Harmonies

## Analogous

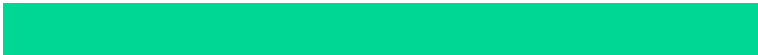
The Analogous color harmony consists of three colors that are next to each other on the color wheel.



45.5660, 0.4022, 0.5471



45.5660, 0.2920, 0.5635



45.5660, 0.1923, 0.4519

# Triad

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



45.5660, 0.2920, 0.5635



45.5660, 0.1353, 0.1614



45.5660, 0.5298, 0.3040

# Complementary

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



45.5660, 0.2920, 0.5635



16.6977, 0.3764, 0.1887

# 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.



45.5660, 0.4214, 0.2353



45.5660, 0.2920, 0.5635



45.5660, 0.1900, 0.1578

# Square

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



45.5660, 0.2920, 0.5635



45.5660, 0.1167, 0.2020



45.5660, 0.2887, 0.1835



45.5660, 0.5538, 0.3802

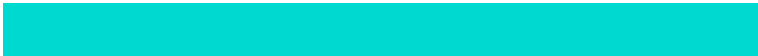


# Rectangle

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



45.5660, 0.2920, 0.5635



45.5660, 0.1471, 0.3456



45.5660, 0.2887, 0.1835



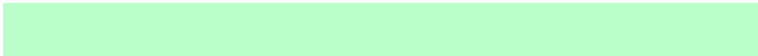
45.5660, 0.5012, 0.2800

# Sweetspot

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



45.5679, 0.2920, 0.5635



86.1828, 0.3012, 0.3900



53.7283, 0.3855, 0.5271



18.1526, 0.2998, 0.3991



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.



45.5679, 0.2920, 0.5635



71.7867, 0.2946, 0.5806



47.4956, 0.2516, 0.4203



13.2467, 0.3087, 0.3478



28.2415, 0.2936, 0.5770



1.5910, 0.2839, 0.5419



# Inverse Universe

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



16.6977, 0.3764, 0.1887



25.4750, 0.3845, 0.1892



14.3899, 0.5505, 0.2877



11.9643, 0.3170, 0.3109



10.0411, 0.3825, 0.1881

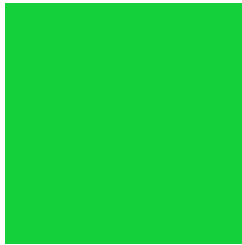


0.5724, 0.3691, 0.1807



# Previews

## White Background



This preview shows how the Yxy color 45.5660, 0.2920, 0.5635 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 45.5660, 0.2920, 0.5635 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 45.5660, 0.2920, 0.5635**

## **Background**



This preview shows how black text looks on a background with the Yxy color 45.5660, 0.2920, 0.5635.



This preview shows how white text looks on a background with the Yxy color 45.5660, 0.2920, 0.5635.

# 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

45.5660, 0.2920, 0.5635

### Protanopia

44.7586, 0.4270, 0.4715

### Deuteranopia

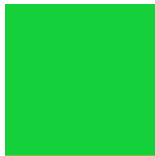
44.2291, 0.4437, 0.4341



## Tritanopia

45.2630, 0.2355, 0.3059

# Trichromacy



## Original Color

45.5660, 0.2920, 0.5635



## Protanomaly

42.1616, 0.3561, 0.5194



## Deuteranomaly

40.5802, 0.3660, 0.4920



## Tritanomaly

44.2375, 0.2561, 0.3999

# Monochromacy



## Original Color

45.5660, 0.2920, 0.5635



## Achromatopsia

23.8398, 0.3127, 0.3290



## Achromatomaly

28.8266, 0.2954, 0.4298

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 45.5660, 0.2920, 0.5635 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(19, 208, 59)` looks like.

```
.text, #text, p{  
    color:rgb(19, 208, 59)  
}
```

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(19, 208, 59) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(19, 208, 59) }
```

## Border

The CSS property to change the border of an element to Yxy 45.5660, 0.2920, 0.5635 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(19, 208, 59) }
```

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

```
.border{ border-color:rgb(19, 208, 59) }
```

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

Here you see how a box with a 4 pixel `rgb(19, 208, 59)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(19, 208, 59); -webkit-box-  
shadow:4px 4px 4px 4px rgb(19, 208, 59);  
box-shadow:4px 4px 4px 4px rgb(19, 208,  
59) }
```



# Background

The CSS property to change the background color of an element to Yxy 45.5660, 0.2920, 0.5635 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(19, 208, 59) }
```

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

```
.background{ background-color: rgb(19, 208,  
59) }
```

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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