

# Converting Colors

$Y_{xy}(48.9640, 0.3535, 0.5575)$

Have a look what the booklet for  
Yxy(48.9640, 0.3535, 0.5575)  
contains.

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**Color**

**Yxy(49.2148, 0.3536, 0.5575)**

# Conversions

## Conversions Part 1

Format	Color
Hex	80CF00
RGB	128, 207, 0
RGB Percent	50%, 81%, 0%
CMY	0.4980, 0.1882, 1.0000
CMYK	0.38, 0.00, 1.00, 0.19
HSL	83°, 100%, 41%
HSV	83°, 100%, 81%
XYZ	31.2150, 49.2148, 7.8479
YIQ	159.7810, 19.3630, -81.1250

# Conversions

## Conversions Part 2

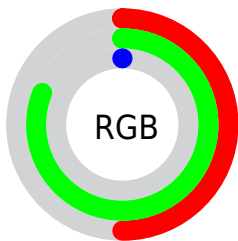
<b>Format</b>	<b>Color</b>
<b>RYB</b>	0, 207, 79
Decimal	8441600
CIELab	75.58, -49.79, 74.67
CIELCh	76, 89.752, 123.697
Yxy	49.2148, 0.3536, 0.5575
Android (android.graphics.Color)	4286631680 (0xFF80CF00)
YUV	159.7810, -78.7720, -27.8719
Hunter-Lab	70.1533, -43.3439, 42.4746

# Details

The Yxy color **49.2148, 0.3536, 0.5575** is a dark color, and the websafe version is hex **66CC00**. The color can be described as dark washed chartreuse. A complement of this color would be **6.1672, 0.1808, 0.0770**, and the grayscale version is **35.4132, 0.3127, 0.3290**.

A 20% lighter version of the original color is **82.7093, 0.3577, 0.5117**, and **23.6854, 0.3308, 0.5756** is the 20% darker color. If you saturate the color by 10%, you get **49.2174, 0.3536, 0.5575**, and if you desaturate by 10%, it is **49.9071, 0.3577, 0.5478**.

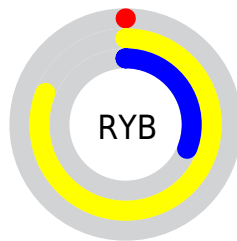
# Distribution



Red (50%)

Green (81%)

Blue (0%)



Red (0%)

Yellow (81%)

Blue (31%)

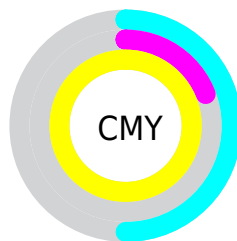


Cyan (38%)

Magenta (0%)

Yellow (100%)

Black (19%)



Cyan (50%)

Magenta (19%)


Yellow (100%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 49.2148, 0.3536, 0.5575 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 49.2148, 0.3536, 0.5575 by changing the saturation by 10% instead.





 49.2148, 0.3536,  
0.5575


 49.2148, 0.3536,  
0.5575


383.5873, 0.3451,  
0.4423


 34.7899, 0.3508,  
0.5836


 89.0104, 0.3540,  
0.5170


 23.5011, 0.3444,  
0.6144


 115.1499, 0.3531,  
0.5013


 14.9639, 0.3335,  
0.6545


 145.9630, 0.3519,  
0.4878

 8.7941, 0.3076,  
0.6924

 181.8342, 0.3505,  
0.4761

 4.6071, 0.2636,  
0.7364

 223.1478, 0.3491,  
0.4660

 2.0186, 0.1737,  
0.8263

 270.2883, 0.3478,

 0.6183, 0.0000,

0.4571

1.0000

323.6400, 0.3464,  
0.4492

■ 0.0000, 0.0000,  
0.0000

■ 49.2148, 0.3536,  
0.5575

■ 49.2148, 0.3536,  
0.5575

■ 49.2174, 0.3536,  
0.5575

■ 49.9071, 0.3577,  
0.5478

■ 50.7024, 0.3598,  
0.5336

■ 51.6236, 0.3596,  
0.5145

■ 52.6821, 0.3569,  
0.4912

■ 53.8876, 0.3522,  
0.4648

■ 55.2488, 0.3458,  
0.4368

■ 56.7736, 0.3382,  
0.4084

■ 58.4691, 0.3299,  
0.3805

■ 60.3420, 0.3213,  
0.3539

# Harmonies

## Analogous

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



49.2148, 0.4552, 0.5006



49.2148, 0.3536, 0.5575



49.2148, 0.2478, 0.5166

# Triad

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



49.2148, 0.3536, 0.5575



49.2148, 0.1271, 0.1839



49.2148, 0.4707, 0.2682

# Complementary

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



49.2148, 0.3536, 0.5575



6.1672, 0.1808, 0.0770

# 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.



49.2148, 0.3459, 0.2086



49.2148, 0.3536, 0.5575



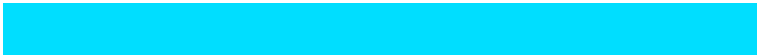
49.2148, 0.1606, 0.1617

# Square

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



49.2148, 0.3536, 0.5575



49.2148, 0.1272, 0.2510



49.2148, 0.2326, 0.1713



49.2148, 0.5422, 0.3392

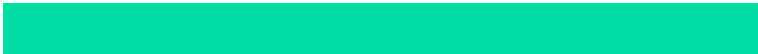


# Rectangle

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



49.2148, 0.3536, 0.5575



49.2148, 0.1885, 0.4277



49.2148, 0.2326, 0.1713



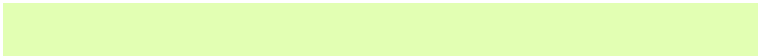
49.2148, 0.4317, 0.2465

# Sweetspot

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



49.2174, 0.3536, 0.5575



90.8920, 0.3385, 0.4094



18.4212, 0.5802, 0.3775



19.2253, 0.3418, 0.4215



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.



49.2174, 0.3536, 0.5575



78.7576, 0.3529, 0.5580



44.8688, 0.3033, 0.5974



13.5630, 0.3208, 0.3524



31.0637, 0.3544, 0.5568



1.7817, 0.3664, 0.5473



# Inverse Universe

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



6.1672, 0.1808, 0.0770



9.7785, 0.1797, 0.0764



14.1370, 0.2872, 0.1356



11.6344, 0.3041, 0.3054



3.9359, 0.1822, 0.0777



0.2651, 0.2033, 0.0893



# Previews

## White Background



This preview shows how the Yxy color 49.2148, 0.3536, 0.5575 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 49.2148, 0.3536, 0.5575 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 49.2148, 0.3536, 0.5575**

## **Background**



This preview shows how black text looks on a background with the Yxy color 49.2148, 0.3536, 0.5575.



This preview shows how white text looks on a background with the Yxy color 49.2148, 0.3536, 0.5575.

# 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

49.2148, 0.3536, 0.5575

### Protanopia

48.6731, 0.4403, 0.4886

### Deuteranopia

48.5344, 0.4632, 0.4539



## Tritanopia

48.8326, 0.2710, 0.3078

# Trichromacy



**Original Color**

49.2148, 0.3536, 0.5575

**Protanomaly**

48.2869, 0.4067, 0.5153

**Deuteranomaly**

47.2173, 0.4231, 0.4937

**Tritanomaly**

47.4381, 0.3166, 0.4235

# Monochromacy



**Original Color**

49.2148, 0.3536, 0.5575

**Achromatopsia**

35.1533, 0.3127, 0.3290

**Achromatomaly**

38.6995, 0.3468, 0.4424

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 49.2148, 0.3536, 0.5575 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(128, 207, 0)` looks like.

```
.text, #text, p{  
    color:rgb(128, 207, 0)  
}
```

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(128, 207, 0) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(128, 207, 0) }
```

## Border

The CSS property to change the border of an element to Yxy 49.2148, 0.3536, 0.5575 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(128, 207, 0) }
```

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

```
.border{ border-color:rgb(128, 207, 0) }
```

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

Here you see how a box with a 4 pixel rgb(128, 207, 0) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(128, 207, 0); -webkit-box-  
shadow:4px 4px 4px 4px rgb(128, 207, 0);  
box-shadow:4px 4px 4px 4px rgb(128, 207,  
0) }
```



# Background

The CSS property to change the background color of an element to Yxy 49.2148, 0.3536, 0.5575 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(128, 207, 0) }
```

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

```
.background{ background-color: rgb(128,  
207, 0) }
```

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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