

# Converting Colors

$Y_{xy}(48.4481, 0.3751, 0.5067)$

Have a look what the booklet for  
Yxy(48.4481, 0.3751, 0.5067)  
contains.

<b>Yxy(48.3650, 0.3752, 0.5064)</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(48.3650, 0.3752, 0.5064)**

# Conversions

## Conversions Part 1

Format	Color
Hex	A2C639
RGB	162, 198, 57
RGB Percent	64%, 78%, 22%
CMY	0.3646, 0.2235, 0.7767
CMYK	0.18, 0.00, 0.71, 0.22
HSL	75°, 55%, 50%
HSV	75°, 71%, 78%
XYZ	35.8344, 48.3650, 11.3081
YIQ	171.1620, 23.8050, -51.4830

# Conversions

## Conversions Part 2

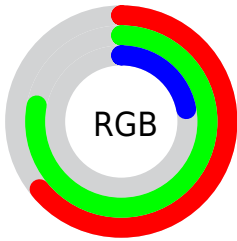
<b>Format</b>	<b>Color</b>
<a href="#">RYB</a>	<a href="#">57, 198, 93</a>
Decimal	<a href="#">10667577</a>
CIELab	<a href="#">75.05, -31.27, 62.98</a>
CIELCh	<a href="#">75, 70.316, 116.403</a>
Yxy	<a href="#">48.3650, 0.3752, 0.5064</a>
Android (android.graphics.Color)	<a href="#">4288857657 (0xFFA2C639)</a>
YUV	<a href="#">171.1620, -56.2819, -8.0351</a>
Hunter-Lab	<a href="#">69.5449, -29.7280, 39.0408</a>

# Details

The Yxy color **48.3650, 0.3752, 0.5064** is a dark color, and the websafe version is hex **99CC33**. The color can be described as middle muted chartreuse. A complement of this color would be **9.3196, 0.2024, 0.1167**, and the grayscale version is **41.0892, 0.3127, 0.3290**.

A 20% lighter version of the original color is **87.9279, 0.3686, 0.4748**, and **23.0107, 0.3743, 0.5410** is the 20% darker color. If you saturate the color by 10%, you get **47.6884, 0.3772, 0.5225**, and if you desaturate by 10%, it is **49.1442, 0.3707, 0.4861**.

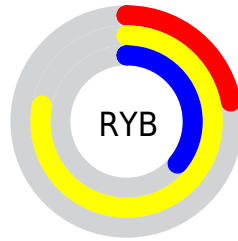
# Distribution



Red (64%)

Green (78%)

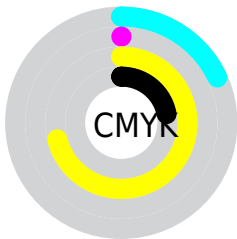
Blue (22%)



Red (22%)

Yellow (78%)

Blue (36%)

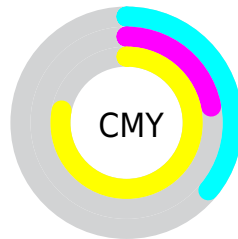


Cyan (18%)

Magenta (0%)

Yellow (71%)

Black (22%)



Cyan (36%)

Magenta (22%)


Yellow (78%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 48.3650, 0.3752, 0.5064 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 48.3650, 0.3752, 0.5064 by changing the saturation by 10% instead.



 48.3650, 0.3752,  
0.5064


 48.3650, 0.3752,  
0.5064


380.2371, 0.3511,  
0.4176


 34.1160, 0.3780,  
0.5269


 87.7476, 0.3687,  
0.4750


 22.9827, 0.3795,  
0.5516


 113.6500, 0.3655,  
0.4629


 14.5808, 0.3779,  
0.5811


 144.2057, 0.3626,  
0.4525

 8.5257, 0.3751,  
0.6249

 179.7991, 0.3599,  
0.4436

 4.4331, 0.3466,  
0.6534

 220.8145, 0.3574,  
0.4358

 1.9187, 0.2996,  
0.7004

267.6364, 0.3551,

 0.5596, 0.0000,

0.4290

1.0000

320.6491, 0.3530,  
0.4230

■ 0.0000, 0.0000,  
0.0000

■ 48.3650, 0.3752,  
0.5064

■ 48.3650, 0.3752,  
0.5064

■ 47.6884, 0.3772,  
0.5225

■ 49.1442, 0.3707,  
0.4861

■ 47.0981, 0.3767,  
0.5339

■ 50.0277, 0.3640,  
0.4625

■ 46.6382, 0.3747,  
0.5407

■ 51.0249, 0.3555,  
0.4367

■ 52.1424, 0.3458,  
0.4099

■ 53.3862, 0.3354,  
0.3830

■ 54.7616, 0.3247,  
0.3568

■ 56.2740, 0.3140,  
0.3320

■ 57.9281, 0.3037,  
0.3088

■ 59.7286, 0.2939,  
0.2874

# Harmonies

## Analogous

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



48.3650, 0.4536, 0.4615



48.3650, 0.3752, 0.5064



48.3650, 0.2857, 0.4881

# Triad

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



48.3650, 0.3752, 0.5064



48.3650, 0.1540, 0.2216



48.3650, 0.4163, 0.2674

# Complementary

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



48.3650, 0.3752, 0.5064



9.3196, 0.2024, 0.1167

# 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.



48.3650, 0.3165, 0.2194



48.3650, 0.3752, 0.5064



48.3650, 0.1761, 0.1917

# Square

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



48.3650, 0.3752, 0.5064



48.3650, 0.1635, 0.2907



48.3650, 0.2304, 0.1926



48.3650, 0.4879, 0.3285

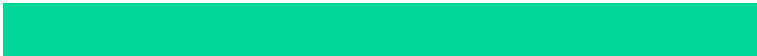


# Rectangle

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



48.3650, 0.3752, 0.5064



48.3650, 0.2312, 0.4319



48.3650, 0.2304, 0.1926



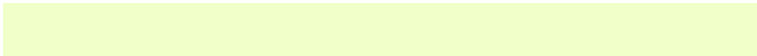
48.3650, 0.3838, 0.2495

# Sweetspot

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



48.3672, 0.3752, 0.5064



94.5191, 0.3354, 0.3832



19.9897, 0.5151, 0.3694



20.0940, 0.3384, 0.3906



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.



48.3672, 0.3752, 0.5064



83.9015, 0.3773, 0.5288



42.9694, 0.3205, 0.5429



12.2756, 0.3227, 0.3521



30.3719, 0.3753, 0.5402



1.4712, 0.3849, 0.5326



# Inverse Universe

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



9.3196, 0.2024, 0.1167



10.9775, 0.1797, 0.0846



14.7554, 0.2772, 0.1532



10.4160, 0.3022, 0.3054



3.1359, 0.1658, 0.0687



0.1843, 0.1885, 0.0812



# Previews

## White Background



This preview shows how the Yxy color 48.3650, 0.3752, 0.5064 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 48.3650, 0.3752, 0.5064 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 48.3650, 0.3752, 0.5064**

## Background



This preview shows how black text looks on a background with the Yxy color 48.3650, 0.3752, 0.5064.



This preview shows how white text looks on a background with the Yxy color 48.3650, 0.3752, 0.5064.

# 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

48.3650, 0.3752, 0.5064

### Protanopia

48.2204, 0.4273, 0.4713

### Deuteranopia

47.8763, 0.4505, 0.4407



## Tritanopia

48.1686, 0.2957, 0.3110

# Trichromacy



## Original Color

48.3650, 0.3752, 0.5064

## Protanomaly

48.1696, 0.4082, 0.4847

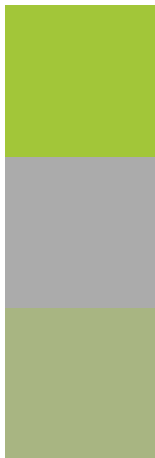
## Deuteranomaly

47.2050, 0.4226, 0.4639

## Tritanomaly

47.7042, 0.3307, 0.3876

# Monochromacy



## Original Color

48.3650, 0.3752, 0.5064

## Achromatopsia

40.7240, 0.3127, 0.3290

## Achromatomaly

42.9843, 0.3425, 0.4011

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 48.3650, 0.3752, 0.5064 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(162, 198, 57)` looks like.

```
.text, #text, p{  
    color:rgb(162, 198, 57)  
}
```

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(162, 198, 57) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(162, 198, 57) }
```

## Border

The CSS property to change the border of an element to Yxy 48.3650, 0.3752, 0.5064 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(162, 198, 57) }
```

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

```
.border{ border-color:rgb(162, 198, 57) }
```

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

Here you see how a box with a 4 pixel rgb(162, 198, 57) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(162, 198, 57); -webkit-box-  
shadow:4px 4px 4px 4px rgb(162, 198, 57);  
box-shadow:4px 4px 4px 4px rgb(162, 198,  
57) }
```



# Background

The CSS property to change the background color of an element to Yxy 48.3650, 0.3752, 0.5064 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(162, 198, 57) }
```

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

```
.background{ background-color: rgb(162,  
198, 57) }
```

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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