

# Converting Colors

$Y_{xy}(49.8127, 0.4506, 0.4449)$

Have a look what the booklet for  
Yxy(49.8127, 0.4506, 0.4449)  
contains.

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# Color

**Yxy(49.7549, 0.4503, 0.4454)**

# Conversions

## Conversions Part 1

Format	Color
Hex	E8B33F
RGB	232, 179, 63
RGB Percent	91%, 70%, 25%
CMY	0.0901, 0.2981, 0.7530
CMYK	0.00, 0.23, 0.73, 0.09
HSL	41°, 79%, 58%
HSV	41°, 73%, 91%
XYZ	50.3023, 49.7549, 11.6512
YIQ	181.6230, 68.8240, -24.8400

# Conversions

## Conversions Part 2

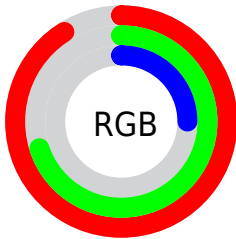
Format	Color
R <sub>Y</sub> B	140, 232, 63
Decimal	15250239
CIE Lab	75.92, 8.24, 63.53
CIE LCh	76, 64.061, 82.611
Yxy	49.7549, 0.4503, 0.4454
Android (android.graphics.Color)	4293440319 (0xFFE8B33F)
YUV	181.6230, -58.4811, 44.1806
Hunter-Lab	70.5372, 3.8540, 39.5826

# Details

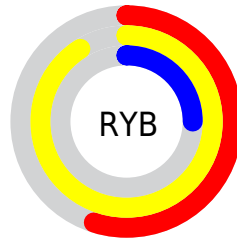
The Yxy color **49.7549, 0.4503, 0.4454** is a light color, and the websafe version is hex **CC9933**. The color can be described as light washed orange. A complement of this color would be **19.3768, 0.1887, 0.1600**, and the grayscale version is **46.8603, 0.3127, 0.3290**.

A 20% lighter version of the original color is **81.9610, 0.4012, 0.4434**, and **23.9494, 0.4742, 0.4616** is the 20% darker color. If you saturate the color by 10%, you get **46.7093, 0.4672, 0.4512**, and if you desaturate by 10%, it is **53.0687, 0.4312, 0.4351**.

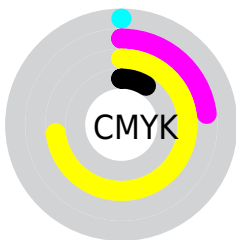
# Distribution



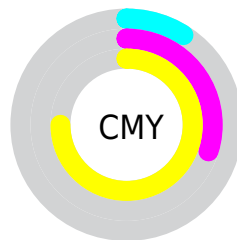
- Red (91%)
- Green (70%)
- Blue (25%)



- Red (55%)
- Yellow (91%)
- Blue (25%)



- Cyan (0%)
- Magenta (23%)
- Yellow (73%)
- Black (9%)




- Cyan (9%)
- Magenta (30%)
- Yellow (75%)

# Brightness & Saturation Gradients

These gradients show how the Yxy color 49.7549, 0.4503, 0.4454 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 49.7549, 0.4503, 0.4454 by changing the saturation by 10% instead.





 49.7549, 0.4503,  
0.4454


 49.7549, 0.4503,  
0.4454


385.7067, 0.3872,  
0.3948


 35.2187, 0.4630,  
0.4546


 89.8116, 0.4294,  
0.4294


 23.8314, 0.4773,  
0.4641


 116.1009, 0.4209,  
0.4227


 15.2086, 0.4927,  
0.4731


 147.0767, 0.4135,  
0.4167

 8.9659, 0.5144,  
0.4856

 183.1234, 0.4069,  
0.4113

 4.7190, 0.5207,  
0.4793

 224.6253, 0.4011,  
0.4065

 2.0833, 0.5309,  
0.4691

271.9669, 0.3960,

 0.6552, 0.5570,

0.4022

0.4430

325.5326, 0.3914,  
0.3983

0.0000, 0.0000,  
0.0000

49.7549, 0.4503,  
0.4454

49.7549, 0.4503,  
0.4454

46.7093, 0.4672,  
0.4512

53.0687, 0.4312,  
0.4351

43.9073, 0.4810,  
0.4519

56.6577, 0.4108,  
0.4212

42.0389, 0.4892,  
0.4498

60.5374, 0.3902,  
0.4049

64.7194, 0.3700,  
0.3872

69.2143, 0.3509,  
0.3690

■ 74.0323, 0.3332,  
0.3511

■ 79.1828, 0.3170,  
0.3338

■ 84.6746, 0.3024,  
0.3174

■ 89.3863, 0.2987,  
0.3185

# Harmonies

## Analogous

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



49.7549, 0.4843, 0.3847



49.7549, 0.4503, 0.4454



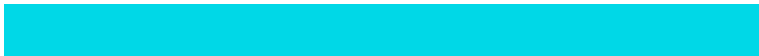
49.7549, 0.3820, 0.4873

# Triad

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



49.7549, 0.4503, 0.4454



49.7549, 0.1793, 0.3063



49.7549, 0.3056, 0.2237

# Complementary

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



49.7549, 0.4503, 0.4454



19.3768, 0.1887, 0.1600

# 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.



49.7549, 0.2297, 0.2017



49.7549, 0.4503, 0.4454



49.7549, 0.1657, 0.2376

# Square

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



49.7549, 0.4503, 0.4454



49.7549, 0.2259, 0.4015



49.7549, 0.1827, 0.2047



49.7549, 0.3957, 0.2665



# Rectangle

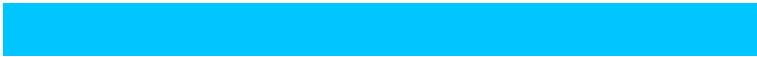
The Rectangle color scheme consists of four colors that form a rectangle on the color wheel.



49.7549, 0.4503, 0.4454



49.7549, 0.3276, 0.4881



49.7549, 0.1827, 0.2047



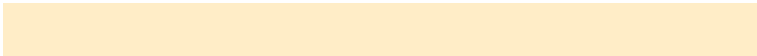
49.7549, 0.2776, 0.2138

# Sweetspot

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



49.7573, 0.4503, 0.4454



86.1797, 0.3496, 0.3677



21.9858, 0.4833, 0.2778



18.1110, 0.3546, 0.3726



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.



49.7573, 0.4503, 0.4454



56.2378, 0.4739, 0.4521



70.5098, 0.3851, 0.5042



16.0144, 0.3275, 0.3451



23.5672, 0.4878, 0.4509



1.9059, 0.4754, 0.4608



# Inverse Universe

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



19.3768, 0.1887, 0.1600



17.1959, 0.1711, 0.1252



11.7584, 0.1901, 0.1067



14.6212, 0.2981, 0.3124



6.0625, 0.1621, 0.1034



0.6096, 0.1701, 0.1325



# Previews

## White Background



This preview shows how the Yxy color 49.7549, 0.4503, 0.4454 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 49.7549, 0.4503, 0.4454 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 49.7549, 0.4503, 0.4454**

## **Background**



This preview shows how black text looks on a background with the Yxy color 49.7549, 0.4503, 0.4454.



This preview shows how white text looks on a background with the Yxy color 49.7549, 0.4503, 0.4454.

# 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

49.7549, 0.4503, 0.4454

### Protanopia

50.0497, 0.4221, 0.4642

### Deuteranopia

49.6921, 0.4529, 0.4434



## Tritanopia

49.4580, 0.3691, 0.3148

# Trichromacy



## Original Color

49.7549, 0.4503, 0.4454

## Protanomaly

49.9735, 0.4322, 0.4578

## Deuteranomaly

49.5233, 0.4520, 0.4440

## Tritanomaly

48.9365, 0.4054, 0.3674

# Monochromacy



## Original Color

49.7549, 0.4503, 0.4454

## Achromatopsia

46.7784, 0.3127, 0.3290

## Achromatomaly

47.1912, 0.3648, 0.3826

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 49.7549, 0.4503, 0.4454 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(232, 179, 63)` looks like.

```
.text, #text, p{  
    color:rgb(232, 179, 63)  
}
```

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(232, 179, 63) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(232, 179, 63) }
```

## Border

The CSS property to change the border of an element to Yxy 49.7549, 0.4503, 0.4454 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(232, 179, 63) }
```

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

```
.border{ border-color:rgb(232, 179, 63) }
```

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

Here you see how a box with a 4 pixel `rgb(232, 179, 63)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(232, 179, 63); -webkit-box-  
shadow:4px 4px 4px 4px rgb(232, 179, 63);  
box-shadow:4px 4px 4px 4px rgb(232, 179,  
63) }
```



# Background

The CSS property to change the background color of an element to  $\text{Yxy } 49.7549, 0.4503, 0.4454$  is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(232, 179, 63) }
```

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

```
.background{ background-color: rgb(232,  
179, 63) }
```

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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