

# Converting Colors

$Y_{xy}(49.8157, 0.3758, 0.3324)$

Have a look what the booklet for  
Yxy(49.8157, 0.3758, 0.3324)  
contains.

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# Color

**Yxy(49.7858, 0.3756, 0.3326)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	ECABA8
RGB	236, 171, 168
RGB Percent	93%, 67%, 66%
CMY	0.0745, 0.3294, 0.3413
CMYK	0.00, 0.28, 0.29, 0.07
HSL	3°, 64%, 79%
HSV	3°, 29%, 93%
XYZ	56.2223, 49.7858, 43.6786
YIQ	190.0930, 39.7030, 12.8470

# Conversions

## Conversions Part 2

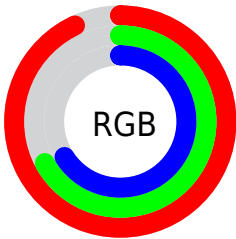
Format	Color
R <sub>Y</sub> B	236, 171, 168
Decimal	15510440
CIE Lab	75.94, 23.44, 11.01
CIE LCh	76, 25.895, 25.163
Yxy	49.7858, 0.3756, 0.3326
Android (android.graphics.Color)	4293700520 (0xFFECABA8)
YUV	190.0930, -10.8918, 40.2604
Hunter-Lab	70.5591, 18.7527, 12.6887

# Details

The Yxy color  $49.7858, 0.3756, 0.3326$  is a light color, and the websafe version is hex  $CC9999$ . A complement of this color would be  $72.6417, 0.2706, 0.3254$ , and the grayscale version is  $51.5963, 0.3127, 0.3290$ .

A 20% lighter version of the original color is  $81.5259, 0.3351, 0.3331$ , and  $23.8015, 0.3939, 0.3322$  is the 20% darker color. If you saturate the color by 10%, you get  $41.1825, 0.4080, 0.3339$ , and if you desaturate by 10%, it is  $60.0065, 0.3492, 0.3313$ .

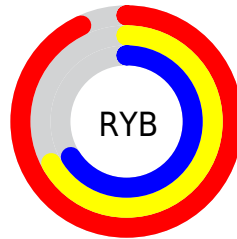
# Distribution



Red (93%)

Green (67%)

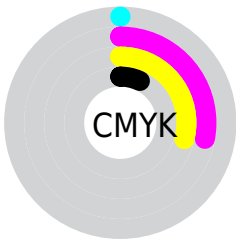
Blue (66%)



Red (93%)

Yellow (67%)

Blue (66%)

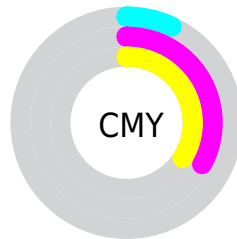


Cyan (0%)

Magenta (28%)

Yellow (29%)

Black (7%)



Cyan (7%)

Magenta (33%)


Yellow (34%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 49.7858, 0.3756, 0.3326 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 49.7858, 0.3756, 0.3326 by changing the saturation by 10% instead.




 49.7858, 0.3756,  
0.3326


 49.7858, 0.3756,  
0.3326


385.8277, 0.3442,  
0.3315

 35.2432, 0.3834,  
0.3327

 89.8574, 0.3642,  
0.3324

 23.8503, 0.3934,  
0.3326


 116.1553, 0.3599,  
0.3322

 15.2226, 0.4066,  
0.3323


147.1403, 0.3563,  
0.3321

 8.9758, 0.4249,  
0.3316

183.1970, 0.3532,  
0.3320

 4.7254, 0.4517,  
0.3297

224.7097, 0.3505,  
0.3318

 2.0870, 0.4944,  
0.3246

272.0628, 0.3481,

 0.6573, 0.6552,

0.3317

0.3448

325.6406, 0.3461,  
0.3316

0.0000, 1.0000,  
0.0000

0.0000, 0.0000,  
0.0000

49.7858, 0.3756,  
0.3326

49.7858, 0.3756,  
0.3326

41.1825, 0.4080,  
0.3339

60.0065, 0.3492,  
0.3313

34.1071, 0.4468,  
0.3351

71.9139, 0.3280,  
0.3300

28.4724, 0.4913,  
0.3359

85.5822, 0.3109,  
0.3289

24.1794, 0.5385,  
0.3361

96.5740, 0.3011,  
0.3290

■ 21.1166, 0.5828,  
0.3354

■ 19.1547, 0.6169,  
0.3338

■ 18.1321, 0.6361,  
0.3319

■ 18.0624, 0.6377,  
0.3319

# Harmonies

## Analogous

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



49.7858, 0.3498, 0.3046



49.7858, 0.3756, 0.3326



49.7858, 0.3833, 0.3613

# Triad

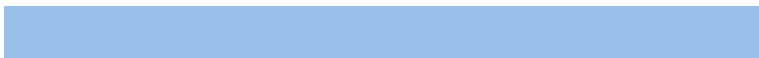
The Triadic color harmony groups three colors that are evenly spaced from another and form a triangle on the color wheel.



49.7858, 0.3756, 0.3326



49.7858, 0.3078, 0.3821



49.7858, 0.2564, 0.2742

# Complementary

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



49.7858, 0.3756, 0.3326



72.6417, 0.2706, 0.3254

# 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.



49.7858, 0.2468, 0.2910



49.7858, 0.3756, 0.3326



49.7858, 0.2753, 0.3545

# Square

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



49.7858, 0.3756, 0.3326



49.7858, 0.3429, 0.3926



49.7858, 0.2534, 0.3202



49.7858, 0.2805, 0.2718



# Rectangle

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



49.7858, 0.3756, 0.3326



49.7858, 0.3771, 0.3775



49.7858, 0.2534, 0.3202



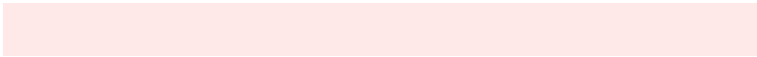
49.7858, 0.2514, 0.2782

# Sweetspot

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



49.7881, 0.3756, 0.3326



85.4081, 0.3284, 0.3301



51.7550, 0.3179, 0.2595



17.8107, 0.3312, 0.3302



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.



49.7881, 0.3756, 0.3326



52.6516, 0.3953, 0.3334



63.9685, 0.3653, 0.3691



15.1616, 0.3292, 0.3301



10.0050, 0.6368, 0.3326



0.8237, 0.6280, 0.3396



# Inverse Universe

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



72.6417, 0.2706, 0.3254



84.3081, 0.2626, 0.3245



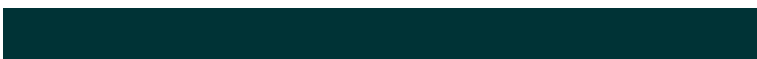
55.5584, 0.2663, 0.2852



17.0000, 0.2981, 0.3279



33.2179, 0.2209, 0.3151



2.6441, 0.2214, 0.3171



# Previews

## White Background



This preview shows how the Yxy color 49.7858, 0.3756, 0.3326 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

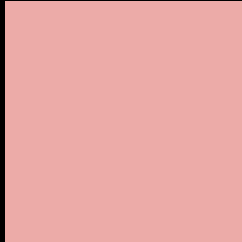
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 49.7858, 0.3756, 0.3326 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 49.7858, 0.3756, 0.3326**

## Background



This preview shows how black text looks on a background with the Yxy color 49.7858, 0.3756, 0.3326.



This preview shows how white text looks on a background with the Yxy color 49.7858, 0.3756, 0.3326.

# 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

49.7858, 0.3756, 0.3326

### Protanopia

50.1446, 0.3273, 0.3429

### Deuteranopia

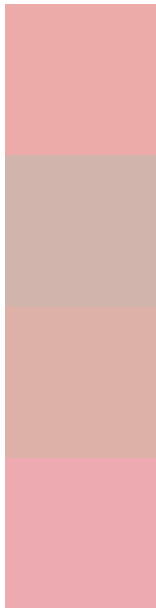
49.9471, 0.3535, 0.3473



## Tritanopia

49.7579, 0.3640, 0.3146

# Trichromacy



## Original Color

49.7858, 0.3756, 0.3326

## Protanomaly

49.6202, 0.3439, 0.3388

## Deuteranomaly

49.6065, 0.3610, 0.3410

## Tritanomaly

49.9283, 0.3684, 0.3213

# Monochromacy



## Original Color

49.7858, 0.3756, 0.3326

## Achromatopsia

51.4918, 0.3127, 0.3290

## Achromatomaly

50.5098, 0.3342, 0.3303

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 49.7858, 0.3756, 0.3326 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(236, 171, 168)` looks like.

```
.text, #text, p{  
    color:rgb(236, 171, 168)  
}
```

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(236, 171, 168) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(236, 171, 168) }
```

## Border

The CSS property to change the border of an element to Yxy 49.7858, 0.3756, 0.3326 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(236, 171, 168) }
```

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

```
.border{ border-color:rgb(236, 171, 168) }
```

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

Here you see how a box with a 4 pixel `rgb(236, 171, 168)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(236, 171, 168); -webkit-box-  
shadow:4px 4px 4px 4px rgb(236, 171, 168);  
box-shadow:4px 4px 4px 4px rgb(236, 171,  
168) }
```



# Background

The CSS property to change the background color of an element to Yxy 49.7858, 0.3756, 0.3326 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(236, 171, 168) }
```

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

```
.background{ background-color: rgb(236,  
171, 168) }
```

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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