

# Converting Colors

$Y_{xy}(45.8068, 0.3614, 0.3754)$

Have a look what the booklet for  
Yxy(45.8068, 0.3614, 0.3754)  
contains.

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# Color

**Yxy(45.7996, 0.3614, 0.3754)**

# Conversions

## Conversions Part 1

Format	Color
Hex	C6B28E
RGB	198, 178, 142
RGB Percent	78%, 70%, 56%
CMY	0.2235, 0.3019, 0.4431
CMYK	0.00, 0.10, 0.28, 0.22
HSL	39°, 33%, 67%
HSV	39°, 28%, 78%
XYZ	44.0916, 45.7996, 32.1110
YIQ	179.8760, 23.4760, -6.9560

# Conversions

## Conversions Part 2

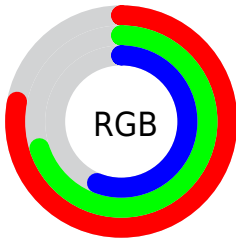
Format	Color
<b>RYB</b>	173, 198, 142
Decimal	13021838
CIELab	73.42, 1.65, 21.04
CIELCh	73, 21.103, 85.524
Yxy	45.7996, 0.3614, 0.3754
Android (android.graphics.Color)	4291211918 (0xFFC6B28E)
YUV	179.8760, -18.6729, 15.8947
Hunter-Lab	67.6754, -2.1364, 19.2406

# Details

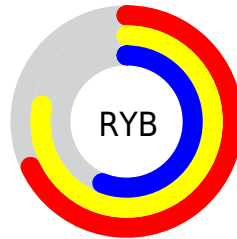
The Yxy color  $45.7996, 0.3614, 0.3754$  is a light color, and the websafe version is hex `CCCC99`. A complement of this color would be  $35.6702, 0.2668, 0.2777$ , and the grayscale version is  $45.6657, 0.3127, 0.3290$ .

A 20% lighter version of the original color is  $84.0912, 0.3522, 0.3673$ , and  $21.2796, 0.3743, 0.3868$  is the 20% darker color. If you saturate the color by 10%, you get  $42.5172, 0.3816, 0.3923$ , and if you desaturate by 10%, it is  $49.3369, 0.3427, 0.3585$ .

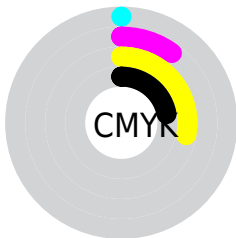
# Distribution



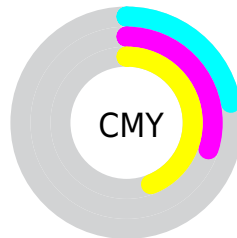
- Red (78%)
- Green (70%)
- Blue (56%)



- Red (68%)
- Yellow (78%)
- Blue (56%)



- Cyan (0%)
- Magenta (10%)
- Yellow (28%)
- Black (22%)




- Cyan (22%)
- Magenta (30%)
- Yellow (44%)

# Brightness & Saturation Gradients

These gradients show how the Yxy color 45.7996, 0.3614, 0.3754 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 45.7996, 0.3614, 0.3754 by changing the saturation by 10% instead.





 45.7996, 0.3614,  
0.3754

 45.7996, 0.3614,  
0.3754


370.0024, 0.3371,  
0.3524

 32.0877, 0.3674,  
0.3810


 83.9190, 0.3526,  
0.3671

 21.4285, 0.3751,  
0.3882


 109.0953, 0.3493,  
0.3640

 13.4376, 0.3852,  
0.3976


138.8619, 0.3464,  
0.3613

 7.7306, 0.3990,  
0.4102

173.6031, 0.3440,  
0.3590

 3.9230, 0.4187,  
0.4280

213.7033, 0.3419,  
0.3570

 1.6306, 0.4755,  
0.4813

259.5471, 0.3401,

 0.3781, 0.5138,

0.3553

0.4862

311.5186, 0.3385,  
0.3537

0.0000, 0.0000,  
0.0000

45.7996, 0.3614,  
0.3754

45.7996, 0.3614,  
0.3754

42.5172, 0.3816,  
0.3923

49.3369, 0.3427,  
0.3585

39.4756, 0.4030,  
0.4083

53.1300, 0.3256,  
0.3420

36.6686, 0.4248,  
0.4226

57.1880, 0.3102,  
0.3264

34.0872, 0.4462,  
0.4340

61.5174, 0.2964,  
0.3117

31.7214, 0.4661,  
0.4414

66.1246, 0.2842,  
0.2981

■ 29.5597, 0.4835,  
0.4440

■ 70.6358, 0.2766,  
0.2914

■ 27.5859, 0.4978,  
0.4416

■ 74.4354, 0.2772,  
0.2993

■ 27.2608, 0.5002,  
0.4410

■ 78.3940, 0.2778,  
0.3070

■ 82.5134, 0.2784,  
0.3147

# Harmonies

## Analogous

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



45.7996, 0.3718, 0.3569



45.7996, 0.3614, 0.3754



45.7996, 0.3380, 0.3820

# Triad

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



45.7996, 0.3614, 0.3754



45.7996, 0.2626, 0.3216



45.7996, 0.3148, 0.2901

# Complementary

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



45.7996, 0.3614, 0.3754



35.6702, 0.2668, 0.2777

# 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.



45.7996, 0.2860, 0.2806



45.7996, 0.3614, 0.3754



45.7996, 0.2570, 0.2971

# Square

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



45.7996, 0.3614, 0.3754



45.7996, 0.2811, 0.3500



45.7996, 0.2653, 0.2828



45.7996, 0.3442, 0.3087



# Rectangle

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



45.7996, 0.3614, 0.3754



45.7996, 0.3185, 0.3776



45.7996, 0.2653, 0.2828



45.7996, 0.3047, 0.2858

# Sweetspot

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



45.8017, 0.3614, 0.3754



94.1951, 0.3253, 0.3418



33.9823, 0.3516, 0.3023



19.9354, 0.3278, 0.3442



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.



45.8017, 0.3614, 0.3754



77.4318, 0.3739, 0.3860



53.3561, 0.3486, 0.4004



11.7551, 0.3274, 0.3438



17.8954, 0.4988, 0.4421



0.9806, 0.4782, 0.4585



# Inverse Universe

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



35.6702, 0.2668, 0.2777



56.5439, 0.2559, 0.2643



29.8605, 0.2703, 0.2495



10.8970, 0.2983, 0.3137



5.7055, 0.1655, 0.1158



0.4070, 0.1775, 0.1589



# Previews

## White Background



This preview shows how the Yxy color 45.7996, 0.3614, 0.3754 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 45.7996, 0.3614, 0.3754 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

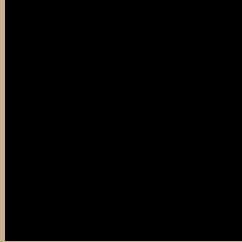
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

If you want to check with other color combinations, try the [Color Contrast Checker](#).

**Yxy 45.7996, 0.3614, 0.3754**

## **Background**



This preview shows how black text looks on a background with the Yxy color 45.7996, 0.3614, 0.3754.



This preview shows how white text looks on a background with the Yxy color 45.7996, 0.3614, 0.3754.

# 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

45.7996, 0.3614, 0.3754

### Protanopia

45.8322, 0.3543, 0.3775

### Deuteranopia

45.7192, 0.3746, 0.3662



## Tritanopia

45.7043, 0.3297, 0.3130

# Trichromacy



## Original Color

45.7996, 0.3614, 0.3754

## Protanomaly

45.6927, 0.3565, 0.3759

## Deuteranomaly

45.7649, 0.3691, 0.3693

## Tritanomaly

45.5542, 0.3415, 0.3354

# Monochromacy



## Original Color

45.7996, 0.3614, 0.3754

## Achromatopsia

45.6411, 0.3127, 0.3290

## Achromatomaly

45.5582, 0.3304, 0.3461

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 45.7996, 0.3614, 0.3754 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(198, 178, 142)` looks like.

```
.text, #text, p{  
    color:rgb(198, 178, 142)  
}
```

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(198, 178, 142) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(198, 178, 142) }
```

## Border

The CSS property to change the border of an element to Yxy 45.7996, 0.3614, 0.3754 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(198, 178, 142) }
```

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

```
.border{ border-color:rgb(198, 178, 142) }
```

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

Here you see how a box with a 4 pixel `rgb(198, 178, 142)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(198, 178, 142); -webkit-box-  
shadow:4px 4px 4px 4px rgb(198, 178, 142);  
box-shadow:4px 4px 4px 4px rgb(198, 178,  
142) }
```



# Background

The CSS property to change the background color of an element to Yxy 45.7996, 0.3614, 0.3754 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(198, 178, 142) }
```

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

```
.background{ background-color: rgb(198,  
178, 142) }
```

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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