

# Converting Colors

$Y_{xy}(24.8728, 0.3310, 0.4020)$

Have a look what the booklet for  
Yxy(24.8728, 0.3310, 0.4020)  
contains.

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**Color**

**Yxy(24.8351, 0.3306, 0.4017)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	7B8F67
RGB	123, 143, 103
RGB Percent	48%, 56%, 40%
CMY	0.5176, 0.4392, 0.5960
CMYK	0.14, 0.00, 0.28, 0.44
HSL	90°, 16%, 48%
HSV	90°, 28%, 56%
XYZ	20.4393, 24.8351, 16.5506
YIQ	132.4600, 0.9200, -16.6800

# Conversions

## Conversions Part 2

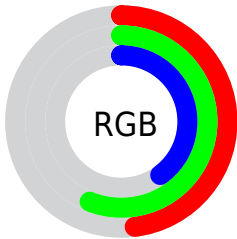
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	103, 143, 123
Decimal	8097639
CIE <sub>Lab</sub>	56.91, -14.73, 18.98
CIE <sub>LCh</sub>	57, 24.023, 127.816
Yxy	24.8351, 0.3306, 0.4017
Android (android.graphics.Color)	4286287719 (0xFF7B8F67)
YUV	132.4600, -14.5238, -8.2964
Hunter-Lab	49.8348, -14.0006, 15.1937

# Details

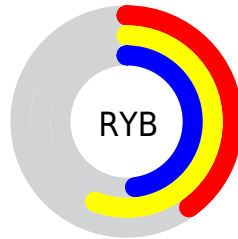
The Yxy color  $24.8351, 0.3306, 0.4017$  is a dark color, and the websafe version is hex  $999966$ . A complement of this color would be  $15.8975, 0.2901, 0.2565$ , and the grayscale version is  $23.3033, 0.3127, 0.3290$ .

A 20% lighter version of the original color is  $51.4957, 0.3276, 0.3860$ , and  $9.5701, 0.3354, 0.4307$  is the 20% darker color. If you saturate the color by 10%, you get  $24.0647, 0.3362, 0.4305$ , and if you desaturate by 10%, it is  $25.6953, 0.3244, 0.3741$ .

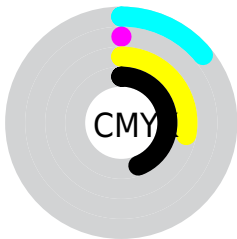
# Distribution



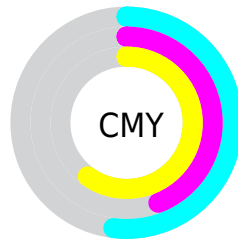
- Red (48%)
- Green (56%)
- Blue (40%)



- Red (40%)
- Yellow (56%)
- Blue (48%)



- Cyan (14%)
- Magenta (0%)
- Yellow (28%)
- Black (44%)




- Cyan (52%)
- Magenta (44%)
- Yellow (60%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 24.8351, 0.3306, 0.4017 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 24.8351, 0.3306, 0.4017 by changing the saturation by 10% instead.





 24.8351, 0.3306,  
0.4017


 24.8351, 0.3306,  
0.4017


277.0157, 0.3215,  
0.3604


 15.9542, 0.3328,  
0.4140


 51.3896, 0.3273,  
0.3853

 9.4918, 0.3355,  
0.4312


 69.8320, 0.3260,  
0.3796

 5.0633, 0.3386,  
0.4569

 92.2304, 0.3250,  
0.3749

 2.2845, 0.3428,  
0.5010

 118.9691, 0.3241,  
0.3710

 0.7655, 0.3247,  
0.6753

150.4327, 0.3233,  
0.3678

 0.0000, 0.0000,  
0.0000

187.0053, 0.3226,

0.3650

229.0716, 0.3220,  
0.3625

■ 24.8351, 0.3306,  
0.4017

■ 24.8351, 0.3306,  
0.4017

■ 24.0647, 0.3362,  
0.4305

■ 25.6953, 0.3244,  
0.3741

■ 23.3776, 0.3409,  
0.4596

■ 26.6452, 0.3179,  
0.3482

■ 22.7713, 0.3443,  
0.4878

■ 27.6888, 0.3114,  
0.3243

■ 22.2419, 0.3459,  
0.5139

■ 28.8289, 0.3050,  
0.3026

■ 21.7851, 0.3455,  
0.5364

■ 30.0682, 0.2989,  
0.2829

■ 21.3961, 0.3430,  
0.5542

■ 31.4093, 0.2931,  
0.2653

■ 21.0660, 0.3388,  
0.5673

■ 32.8546, 0.2876,  
0.2496

■ 21.0036, 0.3380,  
0.5699

■ 34.4064, 0.2826,  
0.2355

■ 36.0671, 0.2778,  
0.2230

# Harmonies

## Analogous

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



24.8351, 0.3683, 0.3998



24.8351, 0.3306, 0.4017



24.8351, 0.2897, 0.3799

# Triad

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



24.8351, 0.3306, 0.4017



24.8351, 0.2388, 0.2743



24.8351, 0.3710, 0.3135

# Complementary

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



24.8351, 0.3306, 0.4017



15.8975, 0.2901, 0.2565

# 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.



24.8351, 0.3326, 0.2850



24.8351, 0.3306, 0.4017



24.8351, 0.2572, 0.2623

# Square

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



24.8351, 0.3306, 0.4017



24.8351, 0.2385, 0.3024



24.8351, 0.2907, 0.2666



24.8351, 0.3932, 0.3469



# Rectangle

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



24.8351, 0.3306, 0.4017



24.8351, 0.2661, 0.3554



24.8351, 0.2907, 0.2666



24.8351, 0.3594, 0.3032

# Sweetspot

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



24.8362, 0.3306, 0.4017



47.6794, 0.3180, 0.3487



20.9868, 0.3620, 0.3641



10.8775, 0.3189, 0.3522



72.9347, 0.3127, 0.3290



11.2805, 0.3127, 0.3290



# Same Dimension

The Same Dimension uses a secret algorithm to generate beautiful new colors.



24.8362, 0.3306, 0.4017



43.5263, 0.3345, 0.4210



23.5093, 0.3091, 0.4067



6.1535, 0.3187, 0.3512



18.5829, 0.3383, 0.5696



0.1907, 0.3723, 0.5426



# Inverse Universe

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



15.8975, 0.2901, 0.2565



24.6030, 0.2832, 0.2372



17.5256, 0.3159, 0.2619



5.3791, 0.3063, 0.3068



2.9679, 0.2048, 0.0902



0.0415, 0.2535, 0.1170



# Previews

## White Background



This preview shows how the Yxy color 24.8351, 0.3306, 0.4017 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

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 24.8351, 0.3306, 0.4017 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

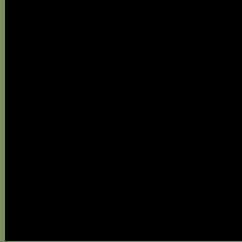
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA × Fail

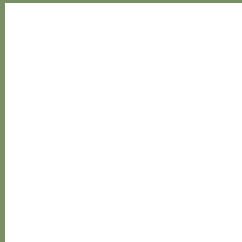
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**Yxy 24.8351, 0.3306, 0.4017**

## **Background**



This preview shows how black text looks on a background with the Yxy color 24.8351, 0.3306, 0.4017.



This preview shows how white text looks on a background with the Yxy color 24.8351, 0.3306, 0.4017.

# 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

24.8351, 0.3306, 0.4017

### Protanopia

24.6394, 0.3633, 0.3899

### Deuteranopia

24.7468, 0.3761, 0.3691



## Tritanopia

24.7753, 0.2943, 0.3103

# Trichromacy



## Original Color

24.8351, 0.3306, 0.4017

## Protanomaly

24.8081, 0.3513, 0.3950

## Deuteranomaly

24.5509, 0.3594, 0.3796

## Tritanomaly

24.6432, 0.3067, 0.3413

# Monochromacy



## Original Color

24.8351, 0.3306, 0.4017

## Achromatopsia

23.0740, 0.3127, 0.3290

## Achromatomaly

23.6559, 0.3204, 0.3557

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 24.8351, 0.3306, 0.4017 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(123, 143, 103)` looks like.

```
.text, #text, p{  
    color:rgb(123, 143, 103)  
}
```

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(123, 143, 103) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(123, 143, 103) }
```

## Border

The CSS property to change the border of an element to Yxy 24.8351, 0.3306, 0.4017 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(123, 143, 103) }
```

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

```
.border{ border-color:rgb(123, 143, 103) }
```

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

Here you see how a box with a 4 pixel `rgb(123, 143, 103)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(123, 143, 103); -webkit-box-  
shadow:4px 4px 4px 4px rgb(123, 143, 103);  
box-shadow:4px 4px 4px 4px rgb(123, 143,  
103) }
```



# Background

The CSS property to change the background color of an element to Yxy 24.8351, 0.3306, 0.4017 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(123, 143, 103) }
```

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

```
.background{ background-color: rgb(123,  
143, 103) }
```

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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