

# Converting Colors

$Y_{xy}(24.1693, 0.3333, 0.3670)$

Have a look what the booklet for  
Yxy(24.1693, 0.3333, 0.3670)  
contains.

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# Color

**$Y_{xy}(24.2800, 0.3335, 0.3676)$**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	878973
RGB	135, 137, 115
RGB Percent	53%, 54%, 45%
CMY	0.4707, 0.4627, 0.5491
CMYK	0.01, 0.00, 0.16, 0.46
HSL	66°, 9%, 49%
HSV	66°, 16%, 54%
XYZ	22.0277, 24.2800, 19.7424
YIQ	133.8940, 5.8700, -7.2660

# Conversions

## Conversions Part 2

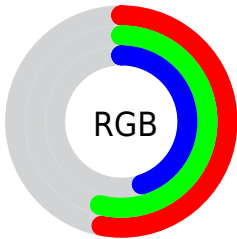
<b>Format</b>	<b>Color</b>
<b>RYB</b>	115, 137, 117
Decimal	8882547
CIELab	56.37, -4.80, 11.57
CIElCh	56, 12.529, 112.542
Yxy	24.2800, 0.3335, 0.3676
Android (android.graphics.Color)	4287072627 (0xFF878973)
YUV	133.8940, -9.3147, 0.9700
Hunter-Lab	49.2747, -6.4345, 10.7373

# Details

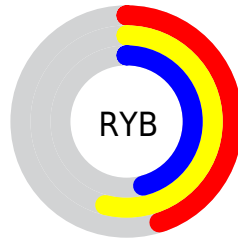
The Yxy color **24.2800, 0.3335, 0.3676** is a dark color, and the websafe version is hex **999999**. A complement of this color would be **17.8505, 0.2901, 0.2879**, and the grayscale version is **23.8312, 0.3127, 0.3290**.

A 20% lighter version of the original color is **50.3083, 0.3288, 0.3586**, and **9.1529, 0.3408, 0.3819** is the 20% darker color. If you saturate the color by 10%, you get **23.8839, 0.3466, 0.3924**, and if you desaturate by 10%, it is **24.7264, 0.3205, 0.3433**.

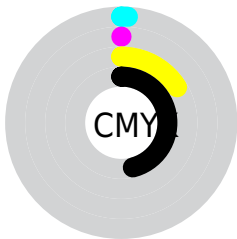
# Distribution



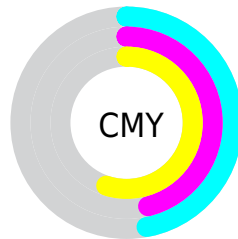
- Red (53%)
- Green (54%)
- Blue (45%)



- Red (45%)
- Yellow (54%)
- Blue (46%)



- Cyan (1%)
- Magenta (0%)
- Yellow (16%)
- Black (46%)




- Cyan (47%)
- Magenta (46%)
- Yellow (55%)

# Brightness & Saturation Gradients

These gradients show how the Yxy color 24.2800, 0.3335, 0.3676 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 24.2800, 0.3335, 0.3676 by changing the saturation by 10% instead.





 24.2800, 0.3335,  
0.3676

 24.2800, 0.3335,  
0.3676


274.2330, 0.3221,  
0.3460

 15.5415, 0.3367,  
0.3739


 50.4867, 0.3291,  
0.3591

 9.2003, 0.3411,  
0.3828


 68.7237, 0.3275,  
0.3561

 4.8720, 0.3473,  
0.3958

 90.8956, 0.3262,  
0.3537

 2.1724, 0.3568,  
0.4170

117.3869, 0.3251,  
0.3516

 0.7049, 0.4395,  
0.5605

148.5818, 0.3242,  
0.3499

 0.0000, 0.0000,  
0.0000

184.8649, 0.3234,

0.3484

226.6205, 0.3227,  
0.3471

■ 24.2800, 0.3335,  
0.3676

■ 24.2800, 0.3335,  
0.3676

■ 23.8839, 0.3466,  
0.3924

■ 24.7264, 0.3205,  
0.3433

■ 23.5328, 0.3593,  
0.4171

■ 25.2218, 0.3078,  
0.3200

■ 23.2256, 0.3712,  
0.4407

■ 25.7691, 0.2957,  
0.2981

■ 22.9599, 0.3818,  
0.4624

■ 26.3700, 0.2844,  
0.2777

■ 22.7329, 0.3905,  
0.4813

■ 27.0263, 0.2738,  
0.2589

■ 22.5418, 0.3971,  
0.4966

■ 27.7394, 0.2641,  
0.2417

■ 22.3832, 0.4012,  
0.5079

■ 28.5109, 0.2552,  
0.2262

■ 22.2515, 0.4030,  
0.5152

■ 29.3424, 0.2471,  
0.2121

■ 22.2023, 0.4035,  
0.5178

■ 30.2350, 0.2397,  
0.1994

# Harmonies

## Analogous

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



24.2800, 0.3497, 0.3623



24.2800, 0.3335, 0.3676



24.2800, 0.3121, 0.3618

# Triad

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



24.2800, 0.3335, 0.3676



24.2800, 0.2713, 0.3074



24.2800, 0.3339, 0.3124

# Complementary

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



24.2800, 0.3335, 0.3676



17.8505, 0.2901, 0.2879

# 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.



24.2800, 0.3122, 0.2989



24.2800, 0.3335, 0.3676



24.2800, 0.2766, 0.2956

# Square

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



24.2800, 0.3335, 0.3676



24.2800, 0.2766, 0.3259



24.2800, 0.2913, 0.2928



24.2800, 0.3501, 0.3302



# Rectangle

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



24.2800, 0.3335, 0.3676



24.2800, 0.2978, 0.3523



24.2800, 0.2913, 0.2928



24.2800, 0.3270, 0.3073

# Sweetspot

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



24.2811, 0.3335, 0.3676



44.3525, 0.3192, 0.3410



19.2394, 0.3413, 0.3324



9.9365, 0.3200, 0.3424



69.2071, 0.3127, 0.3290



10.0482, 0.3127, 0.3290



# Same Dimension

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



24.2811, 0.3335, 0.3676



43.2265, 0.3379, 0.3759



23.4303, 0.3210, 0.3691



5.8218, 0.3245, 0.3507



20.6798, 0.4036, 0.5178



0.1406, 0.4119, 0.5112



# Inverse Universe

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



17.8505, 0.2901, 0.2879



29.6297, 0.2848, 0.2784



18.6427, 0.3031, 0.2894



4.9130, 0.3004, 0.3065



1.7628, 0.1542, 0.0623



0.0142, 0.1732, 0.0728



# Previews

## White Background



This preview shows how the Yxy color 24.2800, 0.3335, 0.3676 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

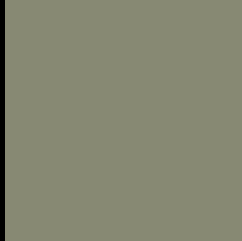
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 24.2800, 0.3335, 0.3676 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

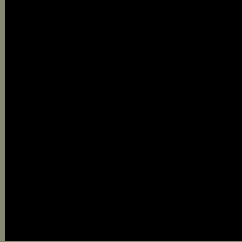
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA × Fail

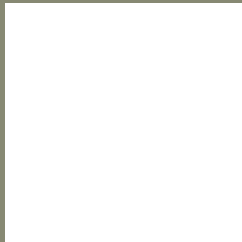
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**Yxy 24.2800, 0.3335, 0.3676**

## **Background**



This preview shows how black text looks on a background with the Yxy color 24.2800, 0.3335, 0.3676.



This preview shows how white text looks on a background with the Yxy color 24.2800, 0.3335, 0.3676.

# 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

24.2800, 0.3335, 0.3676

### Protanopia

24.2936, 0.3434, 0.3650

### Deuteranopia

24.1948, 0.3586, 0.3520



## Tritanopia

24.2472, 0.3090, 0.3123

# Trichromacy



## Original Color

24.2800, 0.3335, 0.3676

## Protanomaly

24.3122, 0.3396, 0.3671

## Deuteranomaly

24.3319, 0.3490, 0.3575

## Tritanomaly

24.1469, 0.3183, 0.3307

# Monochromacy



## Original Color

24.2800, 0.3335, 0.3676

## Achromatopsia

23.8398, 0.3127, 0.3290

## Achromatomaly

23.9286, 0.3200, 0.3429

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 24.2800, 0.3335, 0.3676 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(135, 137, 115)` looks like.

```
.text, #text, p{  
    color:rgb(135, 137, 115)  
}
```

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(135, 137, 115) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(135, 137, 115) }
```

## Border

The CSS property to change the border of an element to Yxy 24.2800, 0.3335, 0.3676 is called "border". The border property can be set on classes, ids or directly on the HTML element.

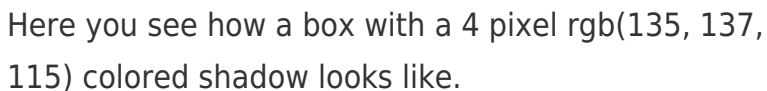
This example shows the color as border, it can be applied via the CSS property "border" or "border-color".

```
.border, #border, table{ border:4px solid rgb(135, 137, 115) }
```

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

```
.border{ border-color:rgb(135, 137, 115) }
```

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



Here you see how a box with a 4 pixel `rgb(135, 137, 115)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px 4px rgb(135, 137, 115); -webkit-box-shadow:4px 4px 4px 4px rgb(135, 137, 115); box-shadow:4px 4px 4px 4px rgb(135, 137, 115) }
```



# Background

The CSS property to change the background color of an element to Yxy 24.2800, 0.3335, 0.3676 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(135, 137, 115) }
```

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

```
.background{ background-color: rgb(135,  
137, 115) }
```

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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