

# Converting Colors

$Y_{xy}(23.8151, 0.3422, 0.3741)$

Have a look what the booklet for  
Yxy(23.8151, 0.3422, 0.3741)  
contains.

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**Color**

**Yxy(23.7721, 0.3418, 0.3728)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	89876E
RGB	137, 135, 110
RGB Percent	54%, 53%, 43%
CMY	0.4628, 0.4706, 0.5685
CMYK	0.00, 0.01, 0.20, 0.46
HSL	56°, 11%, 48%
HSV	56°, 20%, 54%
XYZ	21.7953, 23.7721, 18.1989
YIQ	132.7480, 9.2170, -7.3510

# Conversions

## Conversions Part 2

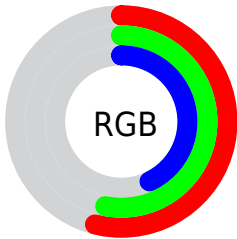
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	112, 137, 110
Decimal	9013102
CIE Lab	55.86, -3.70, 13.73
CIE LCh	56, 14.215, 105.072
Yxy	23.7721, 0.3418, 0.3728
Android (android.graphics.Color)	4287203182 (0xFF89876E)
YUV	132.7480, -11.2148, 3.7290
Hunter-Lab	48.7566, -5.5305, 11.9990

# Details

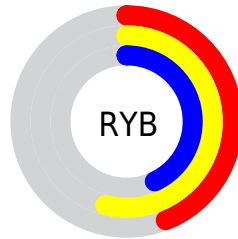
The Yxy color **23.7721, 0.3418, 0.3728** is a dark color, and the websafe version is hex **999966**. A complement of this color would be **16.7149, 0.2816, 0.2811**, and the grayscale version is **23.3989, 0.3127, 0.3290**.

A 20% lighter version of the original color is **49.6514, 0.3357, 0.3625**, and **8.8710, 0.3535, 0.3897** is the 20% darker color. If you saturate the color by 10%, you get **23.2165, 0.3571, 0.3955**, and if you desaturate by 10%, it is **24.3787, 0.3267, 0.3502**.

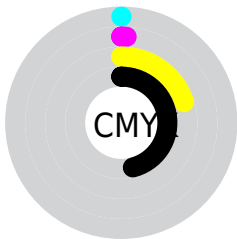
# Distribution



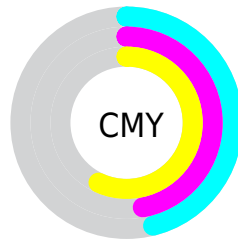
- Red (54%)
- Green (53%)
- Blue (43%)



- Red (44%)
- Yellow (54%)
- Blue (43%)



- Cyan (0%)
- Magenta (1%)
- Yellow (20%)
- Black (46%)



- Cyan (46%)
- Magenta (47%)
- Yellow (57%)

# Brightness & Saturation Gradients

These gradients show how the Yxy color 23.7721, 0.3418, 0.3728 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 23.7721, 0.3418, 0.3728 by changing the saturation by 10% instead.



■ 23.7721, 0.3418,  
0.3728

■ 23.7721, 0.3418,  
0.3728

■ 271.6663, 0.3258,  
0.3483

■ 15.1647, 0.3463,  
0.3800

■ 49.6580, 0.3356,  
0.3632

■ 8.9350, 0.3525,  
0.3899

■ 67.7053, 0.3334,  
0.3598

■ 4.6988, 0.3614,  
0.4046

■ 89.6680, 0.3316,  
0.3570

■ 2.0717, 0.3750,  
0.4282

■ 115.9305, 0.3300,  
0.3547

■ 0.6486, 0.4479,  
0.5521

■ 146.8772, 0.3287,  
0.3527

■ 0.0000, 0.0000,  
0.0000

182.8924, 0.3276,

0.3510

224.3607, 0.3266,  
0.3495

■ 23.7721, 0.3418,  
0.3728

■ 23.7721, 0.3418,  
0.3728

■ 23.2165, 0.3571,  
0.3955

■ 24.3787, 0.3267,  
0.3502

■ 22.7065, 0.3723,  
0.4176

■ 25.0350, 0.3123,  
0.3283

■ 22.2409, 0.3869,  
0.4382

■ 25.7440, 0.2986,  
0.3075

■ 21.8173, 0.4002,  
0.4566

■ 26.5075, 0.2860,  
0.2879

■ 21.4328, 0.4116,  
0.4718

■ 27.3270, 0.2743,  
0.2697

■ 21.0844, 0.4208,  
0.4832

■ 28.2044, 0.2636,  
0.2530

■ 20.7685, 0.4275,  
0.4904

■ 29.1410, 0.2539,  
0.2377

■ 20.4751, 0.4324,  
0.4947

■ 30.1384, 0.2452,  
0.2238

■ 20.4659, 0.4325,  
0.4948

■ 31.1979, 0.2373,  
0.2111

# Harmonies

## Analogous

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



23.7721, 0.3580, 0.3636



23.7721, 0.3418, 0.3728



23.7721, 0.3181, 0.3696

# Triad

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



23.7721, 0.3418, 0.3728



23.7721, 0.2660, 0.3089



23.7721, 0.3310, 0.3057

# Complementary

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



23.7721, 0.3418, 0.3728



16.7149, 0.2816, 0.2811

# 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.



23.7721, 0.3057, 0.2923



23.7721, 0.3418, 0.3728



23.7721, 0.2690, 0.2933

# Square

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



23.7721, 0.3418, 0.3728



23.7721, 0.2748, 0.3313



23.7721, 0.2832, 0.2876



23.7721, 0.3518, 0.3250



# Rectangle

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



23.7721, 0.3418, 0.3728



23.7721, 0.3015, 0.3604



23.7721, 0.2832, 0.2876



23.7721, 0.3227, 0.3004

# Sweetspot

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



23.7732, 0.3418, 0.3728



44.0688, 0.3215, 0.3424



17.6515, 0.3468, 0.3250



9.8705, 0.3223, 0.3435



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.



23.7732, 0.3418, 0.3728



42.0836, 0.3492, 0.3838



23.4333, 0.3280, 0.3781



5.7828, 0.3260, 0.3491



19.0732, 0.4325, 0.4948



0.1354, 0.4253, 0.5005



# Inverse Universe

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



16.7149, 0.2816, 0.2811



26.8542, 0.2729, 0.2676



17.0476, 0.2950, 0.2792



4.9478, 0.2991, 0.3081



1.8949, 0.1519, 0.0667



0.0193, 0.1602, 0.0968



# Previews

## White Background



This preview shows how the Yxy color 23.7721, 0.3418, 0.3728 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

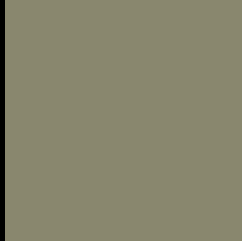
Any Text WCAG AA ✗ Fail

Large Text (above 18pt) WCAG AAA ✗ Fail

Any Text WCAG AAA ✗ Fail



# Black Background



This preview shows how the Yxy color 23.7721, 0.3418, 0.3728 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

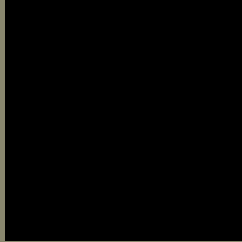
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA × Fail

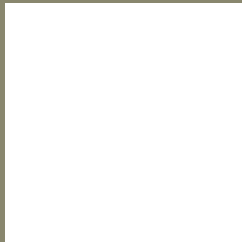
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**Yxy 23.7721, 0.3418, 0.3728**

## **Background**



This preview shows how black text looks on a background with the Yxy color 23.7721, 0.3418, 0.3728.

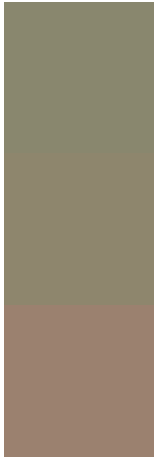


This preview shows how white text looks on a background with the Yxy color 23.7721, 0.3418, 0.3728.

# 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

23.7721, 0.3418, 0.3728

### Protanopia

23.9051, 0.3493, 0.3721

### Deuteranopia

23.8168, 0.3649, 0.3586



## Tritanopia

23.8184, 0.3135, 0.3123

# Trichromacy



## Original Color

23.7721, 0.3418, 0.3728

## Protanomaly

23.7298, 0.3469, 0.3724

## Deuteranomaly

23.6762, 0.3555, 0.3628

## Tritanomaly

23.6897, 0.3241, 0.3324

# Monochromacy



## Original Color

23.7721, 0.3418, 0.3728

## Achromatopsia

23.4551, 0.3127, 0.3290

## Achromatomaly

23.5992, 0.3222, 0.3448

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 23.7721, 0.3418, 0.3728 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(137, 135, 110)` looks like.

```
.text, #text, p{  
    color:rgb(137, 135, 110)  
}
```

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(137, 135, 110) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(137, 135, 110) }
```

## Border

The CSS property to change the border of an element to Yxy 23.7721, 0.3418, 0.3728 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(137, 135, 110) }
```

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

```
.border{ border-color:rgb(137, 135, 110) }
```

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

Here you see how a box with a 4 pixel `rgb(137, 135, 110)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(137, 135, 110); -webkit-box-  
shadow:4px 4px 4px 4px rgb(137, 135, 110);  
box-shadow:4px 4px 4px 4px rgb(137, 135,  
110) }
```



# Background

The CSS property to change the background color of an element to Yxy 23.7721, 0.3418, 0.3728 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(137, 135, 110) }
```

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

```
.background{ background-color: rgb(137,  
135, 110) }
```

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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