

# Converting Colors

$Y_{xy}(12.8827, 0.3000, 0.3937)$

Have a look what the booklet for  
Yxy(12.8827, 0.3000, 0.3937)  
contains.

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# Color

**Yxy(12.8302, 0.3006, 0.3940)**

# Conversions

## Conversions Part 1

Format	Color
Hex	4B6C52
RGB	75, 108, 82
RGB Percent	29%, 42%, 32%
CMY	0.7058, 0.5765, 0.6784
CMYK	0.31, 0.00, 0.24, 0.58
HSL	133°, 18%, 36%
HSV	133°, 31%, 42%
XYZ	9.7887, 12.8302, 9.9450
YIQ	95.1690, -11.3220, -15.0820

# Conversions

## Conversions Part 2

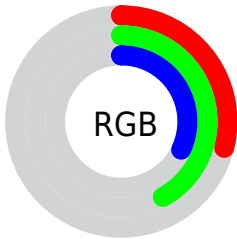
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	75, 102, 108
Decimal	4942930
CIE <sub>Lab</sub>	42.51, -17.81, 10.80
CIE <sub>LCh</sub>	43, 20.834, 148.765
Yxy	12.8302, 0.3006, 0.3940
Android (android.graphics.Color)	4283133010 (0xFF4B6C52)
YUV	95.1690, -6.4923, -17.6882
Hunter-Lab	35.8193, -13.9031, 8.6119

# Details

The Yxy color **12.8302, 0.3006, 0.3940** is a dark color, and the websafe version is hex **336666**. A complement of this color would be **9.1629, 0.3278, 0.2718**, and the grayscale version is **11.5057, 0.3127, 0.3290**.

A 20% lighter version of the original color is **31.1403, 0.3048, 0.3778**, and **3.6265, 0.2923, 0.4315** is the 20% darker color. If you saturate the color by 10%, you get **12.3098, 0.2970, 0.4197**, and if you desaturate by 10%, it is **13.4417, 0.3045, 0.3703**.

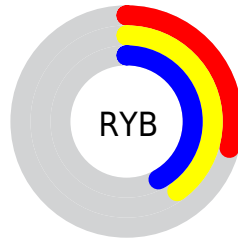
# Distribution



Red (29%)

Green (42%)

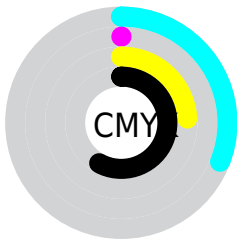
Blue (32%)



Red (29%)

Yellow (40%)

Blue (42%)

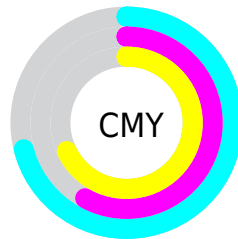


Cyan (31%)

Magenta (0%)

Yellow (24%)

Black (58%)



Cyan (71%)

Magenta (58%)


Yellow (68%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 12.8302, 0.3006, 0.3940 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 12.8302, 0.3006, 0.3940 by changing the saturation by 10% instead.





 12.8302, 0.3006,  
0.3940


 12.8302, 0.3006,  
0.3940


209.8266, 0.3086,  
0.3534


 7.3117, 0.2974,  
0.4087


 30.9984, 0.3042,  
0.3764


 3.6578, 0.2920,  
0.4319

 44.4169, 0.3053,  
0.3708

 1.4840, 0.2828,  
0.4760

 61.2375, 0.3062,  
0.3663

 0.2775, 0.0000,  
1.0000

 81.8447, 0.3069,  
0.3627

 0.0000, 0.0000,  
0.0000

 106.6228, 0.3074,  
0.3598

135.9562, 0.3079,

0.3573

170.2293, 0.3083,  
0.3552

■ 12.8302, 0.3006,  
0.3940

■ 12.8302, 0.3006,  
0.3940

■ 12.3098, 0.2970,  
0.4197

■ 13.4417, 0.3045,  
0.3703

■ 11.8745, 0.2939,  
0.4471

■ 14.1468, 0.3085,  
0.3490

■ 11.5203, 0.2916,  
0.4752


■ 14.9496, 0.3125,  
0.3300


■ 11.2420, 0.2902,  
0.5030


■ 15.8539, 0.3164,  
0.3131

■ 11.0338, 0.2900,  
0.5292

■ 16.8630, 0.3201,  
0.2984


 10.8892, 0.2909,  
0.5522

 17.9801, 0.3237,  
0.2855

 10.7861, 0.2919,  
0.5708

 19.2083, 0.3270,  
0.2742

 20.5506, 0.3301,  
0.2644

 22.0099, 0.3330,  
0.2559

# Harmonies

## Analogous

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



12.8302, 0.3450, 0.4099



12.8302, 0.3006, 0.3940



12.8302, 0.2613, 0.3561

# Triad

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



12.8302, 0.3006, 0.3940



12.8302, 0.2451, 0.2592



12.8302, 0.3950, 0.3370

# Complementary

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



12.8302, 0.3006, 0.3940



9.1629, 0.3278, 0.2718

# 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.



12.8302, 0.3644, 0.3022



12.8302, 0.3006, 0.3940



12.8302, 0.2766, 0.2589

# Square

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



12.8302, 0.3006, 0.3940



12.8302, 0.2311, 0.2772



12.8302, 0.3201, 0.2744



12.8302, 0.4013, 0.3723



# Rectangle

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



12.8302, 0.3006, 0.3940



12.8302, 0.2429, 0.3263



12.8302, 0.3201, 0.2744



12.8302, 0.3872, 0.3250

# Sweetspot

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



12.8307, 0.3006, 0.3940



25.0095, 0.3090, 0.3464



14.0229, 0.3461, 0.4030



6.0165, 0.3086, 0.3487



57.0482, 0.3127, 0.3290



6.3724, 0.3127, 0.3290



# Same Dimension

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



12.8307, 0.3006, 0.3940



21.8292, 0.2979, 0.4131



13.1052, 0.2821, 0.3529



3.4543, 0.3091, 0.3458



12.8622, 0.2923, 0.5721



65.4307, 0.2945, 0.5803



# Inverse Universe

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



9.1629, 0.3278, 0.2718



14.2272, 0.3324, 0.2577



8.8777, 0.3570, 0.3065



3.1535, 0.3165, 0.3127



4.5832, 0.3802, 0.1868



23.2233, 0.3843, 0.1891



# Previews

## White Background



This preview shows how the Yxy color 12.8302, 0.3006, 0.3940 looks on a white 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



# Black Background



This preview shows how the Yxy color 12.8302, 0.3006, 0.3940 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA × Fail

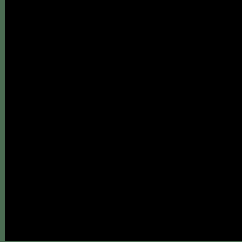
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

**Yxy 12.8302, 0.3006, 0.3940**

## **Background**



This preview shows how black text looks on a background with the Yxy color 12.8302, 0.3006, 0.3940.



This preview shows how white text looks on a background with the Yxy color 12.8302, 0.3006, 0.3940.

# 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

12.8302, 0.3006, 0.3940

### Protanopia

12.7902, 0.3546, 0.3781

### Deuteranopia

12.6665, 0.3589, 0.3526



## Tritanopia

12.8198, 0.2729, 0.3104

# Trichromacy



## Original Color

12.8302, 0.3006, 0.3940

## Protanomaly

12.6979, 0.3333, 0.3854

## Deuteranomaly

12.4638, 0.3350, 0.3658

## Tritanomaly

12.7050, 0.2831, 0.3385

# Monochromacy



## Original Color

12.8302, 0.3006, 0.3940

## Achromatopsia

11.4435, 0.3127, 0.3290

## Achromatomaly

11.9272, 0.3087, 0.3531

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 12.8302, 0.3006, 0.3940 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(75, 108, 82)` looks like.

```
.text, #text, p{  
    color:rgb(75, 108, 82)  
}
```

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(75, 108, 82) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(75, 108, 82) }
```

## Border

The CSS property to change the border of an element to Yxy 12.8302, 0.3006, 0.3940 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(75, 108, 82) }
```

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

```
.border{ border-color:rgb(75, 108, 82) }
```

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

Here you see how a box with a 4 pixel `rgb(75, 108, 82)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(75, 108, 82); -webkit-box-  
shadow:4px 4px 4px 4px rgb(75, 108, 82);  
box-shadow:4px 4px 4px 4px rgb(75, 108,  
82) }
```



# Background

The CSS property to change the background color of an element to Yxy 12.8302, 0.3006, 0.3940 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(75, 108, 82) }
```

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

```
.background{ background-color: rgb(75, 108,  
82) }
```

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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