

# Converting Colors

$Y_{xy}(33.0876, 0.4700, 0.3851)$

Have a look what the booklet for  
Yxy(33.0876, 0.4700, 0.3851)  
contains.

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# **Color**

**Yxy(33.0876, 0.4700, 0.3851)**

# Conversions

## Conversions Part 1

Format	Color
Hex	DF8553
RGB	223, 133, 83
RGB Percent	87%, 52%, 33%
CMY	0.1255, 0.4784, 0.6743
CMYK	0.00, 0.40, 0.63, 0.13
HSL	21°, 69%, 60%
HSV	21°, 63%, 87%
XYZ	40.3822, 33.0876, 12.4497
YIQ	154.2100, 69.6900, 3.5300

# Conversions

## Conversions Part 2

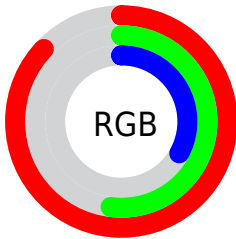
Format	Color
R <sub>Y</sub> B	223, 161, 83
Decimal	14648659
CIE Lab	64.23, 30.06, 41.26
CIE LCh	64, 51.046, 53.926
Yxy	33.0876, 0.4700, 0.3851
Android (android.graphics.Color)	4292838739 (0xFFDF8553)
YUV	154.2100, -35.1065, 60.3288
Hunter-Lab	57.5218, 24.6495, 27.4328

# Details

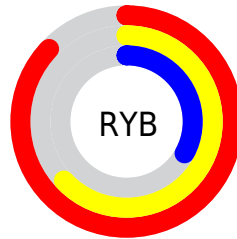
The Yxy color **33.0876, 0.4700, 0.3851** is a dark color, and the websafe version is hex **FF9966**. The color can be described as middle muted orange. A complement of this color would be **37.0713, 0.2208, 0.2571**, and the grayscale version is **32.5487, 0.3127, 0.3290**.

A 20% lighter version of the original color is **58.5219, 0.4156, 0.3841**, and **13.9425, 0.5164, 0.3908** is the 20% darker color. If you saturate the color by 10%, you get **29.1360, 0.5045, 0.3886**, and if you desaturate by 10%, it is **37.6894, 0.4365, 0.3783**.

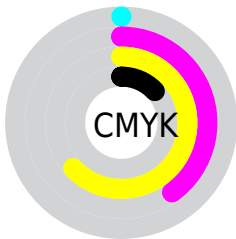
# Distribution



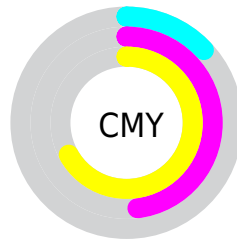
- Red (87%)
- Green (52%)
- Blue (33%)



- Red (87%)
- Yellow (63%)
- Blue (33%)



- Cyan (0%)
- Magenta (40%)
- Yellow (63%)
- Black (13%)



- Cyan (13%)
- Magenta (48%)
- Yellow (67%)

# Brightness & Saturation Gradients

These gradients show how the Yxy color 33.0876, 0.4700, 0.3851 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 33.0876, 0.4700, 0.3851 by changing the saturation by 10% instead.




 33.0876, 0.4700,  
0.3851


 33.0876, 0.4700,  
0.3851


316.0443, 0.3880,  
0.3619


 22.1936, 0.4904,  
0.3884


 64.5123, 0.4400,  
0.3783

 13.9992, 0.5160,  
0.3908


 85.8117, 0.4287,  
0.3752


 8.1201, 0.5483,  
0.3906


 111.3484, 0.4192,  
0.3724

 4.1719, 0.6035,  
0.3931

 141.5067, 0.4111,  
0.3699

 1.7702, 0.6392,  
0.3608

 176.6710, 0.4041,  
0.3676

 0.4685, 0.7235,  
0.2765

217.2258, 0.3980,

 0.0000, 1.0000,

0.3655

0.0000

263.5554, 0.3927,  
0.3636

0.0000, 0.0000,  
0.0000

33.0876, 0.4700,  
0.3851

33.0876, 0.4700,  
0.3851

29.1360, 0.5045,  
0.3886

37.6894, 0.4365,  
0.3783

25.7970, 0.5376,  
0.3877

42.9663, 0.4058,  
0.3696

23.0357, 0.5663,  
0.3817

48.9477, 0.3785,  
0.3600


21.3680, 0.5836,  
0.3748


55.6600, 0.3547,  
0.3501

63.1277, 0.3344,  
0.3405

 71.3744, 0.3170,  
0.3314

 80.4225, 0.3023,  
0.3229

 89.8715, 0.2933,  
0.3216

 94.4283, 0.2935,  
0.3289

# Harmonies

## Analogous

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



33.0876, 0.4542, 0.3269



33.0876, 0.4700, 0.3851



33.0876, 0.4383, 0.4402

# Triad

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



33.0876, 0.4700, 0.3851



33.0876, 0.2309, 0.3911



33.0876, 0.2390, 0.2112

# Complementary

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



33.0876, 0.4700, 0.3851



37.0713, 0.2208, 0.2571

# 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.



33.0876, 0.1934, 0.2133



33.0876, 0.4700, 0.3851



33.0876, 0.1882, 0.3058

# Square

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



33.0876, 0.4700, 0.3851



33.0876, 0.2990, 0.4605



33.0876, 0.1762, 0.2435



33.0876, 0.3102, 0.2327



# Rectangle

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



33.0876, 0.4700, 0.3851



33.0876, 0.3984, 0.4672



33.0876, 0.1762, 0.2435



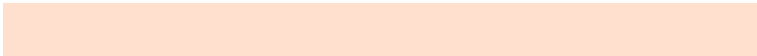
33.0876, 0.2206, 0.2091

# Sweetspot

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



33.0893, 0.4700, 0.3851



78.9711, 0.3470, 0.3466



24.9377, 0.3784, 0.2292



16.2970, 0.3531, 0.3494



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.



33.0893, 0.4700, 0.3851



38.1354, 0.5141, 0.3889



58.5583, 0.4138, 0.4562



14.4972, 0.3283, 0.3374



12.7581, 0.5809, 0.3770



1.0495, 0.5514, 0.4004



# Inverse Universe

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



37.0713, 0.2208, 0.2571



43.7277, 0.2073, 0.2394



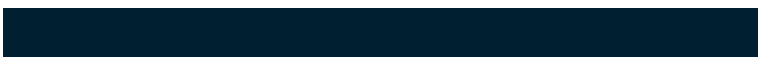
17.0764, 0.1970, 0.1540



14.7061, 0.2982, 0.3204



14.9744, 0.1912, 0.2081

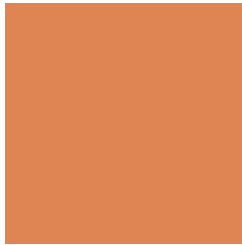


1.2052, 0.1969, 0.2289



# Previews

## White Background



This preview shows how the Yxy color 33.0876, 0.4700, 0.3851 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 33.0876, 0.4700, 0.3851 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 33.0876, 0.4700, 0.3851**

## Background



This preview shows how black text looks on a background with the Yxy color 33.0876, 0.4700, 0.3851.



This preview shows how white text looks on a background with the Yxy color 33.0876, 0.4700, 0.3851.

# 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

33.0876, 0.4700, 0.3851

### Protanopia

33.1902, 0.3897, 0.4231

### Deuteranopia

33.2805, 0.4272, 0.4189



## Tritanopia

33.1251, 0.4176, 0.3188

# Trichromacy



**Original Color**

33.0876, 0.4700, 0.3851

**Protanomaly**

32.8315, 0.4187, 0.4093

**Deuteranomaly**

32.9355, 0.4430, 0.4060

**Tritanomaly**

32.9924, 0.4383, 0.3434

# Monochromacy



**Original Color**

33.0876, 0.4700, 0.3851

**Achromatopsia**

32.3143, 0.3127, 0.3290

**Achromatomaly**

31.7000, 0.3670, 0.3551

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 33.0876, 0.4700, 0.3851 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(223, 133, 83)` looks like.

```
.text, #text, p{  
    color:rgb(223, 133, 83)  
}
```

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(223, 133, 83) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(223, 133, 83) }
```

## Border

The CSS property to change the border of an element to Yxy 33.0876, 0.4700, 0.3851 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(223, 133, 83) }
```

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

```
.border{ border-color:rgb(223, 133, 83) }
```

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

Here you see how a box with a 4 pixel `rgb(223, 133, 83)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(223, 133, 83); -webkit-box-  
shadow:4px 4px 4px 4px rgb(223, 133, 83);  
box-shadow:4px 4px 4px 4px rgb(223, 133,  
83) }
```



# Background

The CSS property to change the background color of an element to Yxy 33.0876, 0.4700, 0.3851 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(223, 133, 83) }
```

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

```
.background{ background-color: rgb(223,  
133, 83) }
```

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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