

# Converting Colors

$Y_{xy}(36.8700, 0.4622, 0.3846)$

Have a look what the booklet for  
Yxy(36.8700, 0.4622, 0.3846)  
contains.

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# **Color**

**Yxy(36.7940, 0.4630, 0.3840)**

# Conversions

## Conversions Part 1

Format	Color
Hex	E78D5B
RGB	231, 141, 91
RGB Percent	91%, 55%, 36%
CMY	0.0942, 0.4470, 0.6432
CMYK	0.00, 0.39, 0.61, 0.09
HSL	21°, 74%, 63%
HSV	21°, 61%, 91%
XYZ	44.3636, 36.7940, 14.6601
YIQ	162.2100, 69.6900, 3.5300

# Conversions

## Conversions Part 2

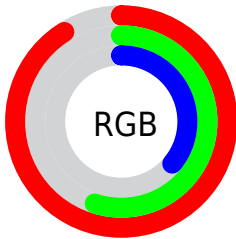
Format	Color
R <sub>Y</sub> B	231, 169, 91
Decimal	15175003
CIE Lab	67.12, 29.57, 40.81
CIE LCh	67, 50.392, 54.074
Yxy	36.7940, 0.4630, 0.3840
Android (android.graphics.Color)	4293365083 (0xFFE78D5B)
YUV	162.2100, -35.1065, 60.3288
Hunter-Lab	60.6581, 24.3983, 28.1312

# Details

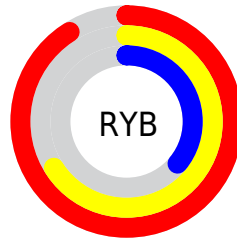
The Yxy color **36.7940, 0.4630, 0.3840** is a light color, and the websafe version is hex **FF9966**. The color can be described as light muted orange. A complement of this color would be **41.0240, 0.2232, 0.2598**, and the grayscale version is **36.3795, 0.3127, 0.3290**.

A 20% lighter version of the original color is **62.2432, 0.4051, 0.3842**, and **16.1447, 0.5053, 0.3906** is the 20% darker color. If you saturate the color by 10%, you get **32.3678, 0.4975, 0.3883**, and if you desaturate by 10%, it is **41.9334, 0.4299, 0.3767**.

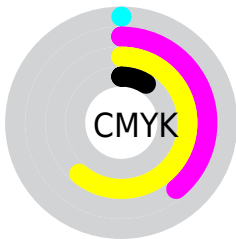
# Distribution



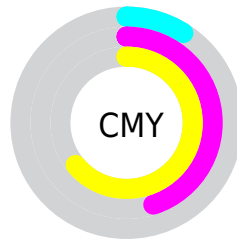
- Red (91%)
- Green (55%)
- Blue (36%)



- Red (91%)
- Yellow (66%)
- Blue (36%)



- Cyan (0%)
- Magenta (39%)
- Yellow (61%)
- Black (9%)




- Cyan (9%)
- Magenta (45%)
- Yellow (64%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 36.7940, 0.4630, 0.3840 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 36.7940, 0.4630, 0.3840 by changing the saturation by 10% instead.





 36.7940, 0.4630,  
0.3840

 36.7940, 0.4630,  
0.3840


332.4178, 0.3858,  
0.3612

 25.0480, 0.4820,  
0.3875


 70.2558, 0.4349,  
0.3772


 16.1128, 0.5057,  
0.3905


 92.7405, 0.4243,  
0.3742

 9.6040, 0.5358,  
0.3916

 119.5735, 0.4154,  
0.3714

 5.1372, 0.5779,  
0.3905

 151.1393, 0.4077,  
0.3690

 2.3280, 0.6257,  
0.3743

187.8222, 0.4011,  
0.3667

 0.7885, 0.6755,  
0.3245

230.0067, 0.3953,

 0.0000, 1.0000,

0.3647

0.0000

278.0771, 0.3903,  
0.3629

0.0000, 0.0000,  
0.0000

36.7940, 0.4630,  
0.3840

36.7940, 0.4630,  
0.3840

32.3678, 0.4975,  
0.3883

41.9334, 0.4299,  
0.3767

28.6144, 0.5312,  
0.3884

47.8124, 0.3998,  
0.3677

25.4969, 0.5611,  
0.3833

54.4628, 0.3732,  
0.3579

23.1016, 0.5839,  
0.3746

61.9127, 0.3501,  
0.3481

70.1886, 0.3304,  
0.3385

■ 79.3160, 0.3136,  
0.3295

■ 89.3189, 0.2994,  
0.3212

■ 95.7258, 0.2981,  
0.3290

# Harmonies

## Analogous

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



36.7940, 0.4478, 0.3279



36.7940, 0.4630, 0.3840



36.7940, 0.4330, 0.4363

# Triad

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



36.7940, 0.4630, 0.3840



36.7940, 0.2345, 0.3877



36.7940, 0.2425, 0.2158

# Complementary

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



36.7940, 0.4630, 0.3840



41.0240, 0.2232, 0.2598

# 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.



36.7940, 0.1983, 0.2180



36.7940, 0.4630, 0.3840



36.7940, 0.1932, 0.3070

# Square

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



36.7940, 0.4630, 0.3840



36.7940, 0.2998, 0.4534



36.7940, 0.1816, 0.2473



36.7940, 0.3109, 0.2367



# Rectangle

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



36.7940, 0.4630, 0.3840



36.7940, 0.3950, 0.4613



36.7940, 0.1816, 0.2473



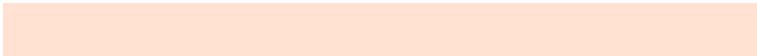
36.7940, 0.2248, 0.2138

# Sweetspot

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



36.7959, 0.4630, 0.3840



79.9904, 0.3449, 0.3456



27.8442, 0.3754, 0.2316



16.4985, 0.3510, 0.3485



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.



36.7959, 0.4630, 0.3840



39.1184, 0.5072, 0.3888



63.8260, 0.4109, 0.4531



15.2066, 0.3284, 0.3375



13.1667, 0.5810, 0.3769



1.1437, 0.5531, 0.3990



# Inverse Universe

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



41.0240, 0.2232, 0.2598



44.6528, 0.2092, 0.2421



19.5795, 0.2008, 0.1602



15.4245, 0.2981, 0.3204



15.4314, 0.1911, 0.2079



1.3143, 0.1966, 0.2276



# Previews

## White Background



This preview shows how the Yxy color 36.7940, 0.4630, 0.3840 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 36.7940, 0.4630, 0.3840 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 36.7940, 0.4630, 0.3840**

## Background



This preview shows how black text looks on a background with the Yxy color 36.7940, 0.4630, 0.3840.



This preview shows how white text looks on a background with the Yxy color 36.7940, 0.4630, 0.3840.

# 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

36.7940, 0.4630, 0.3840

### Protanopia

37.0355, 0.3864, 0.4194

### Deuteranopia

36.8990, 0.4240, 0.4146



## Tritanopia

36.7260, 0.4140, 0.3180

# Trichromacy



**Original Color**

36.7940, 0.4630, 0.3840

**Protanomaly**

36.6272, 0.4139, 0.4066

**Deuteranomaly**

36.8515, 0.4382, 0.4035

**Tritanomaly**

36.8644, 0.4333, 0.3429

# Monochromacy



**Original Color**

36.7940, 0.4630, 0.3840

**Achromatopsia**

36.1307, 0.3127, 0.3290

**Achromatomaly**

35.4536, 0.3644, 0.3540

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 36.7940, 0.4630, 0.3840 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(231, 141, 91)` looks like.

```
.text, #text, p{  
    color:rgb(231, 141, 91)  
}
```

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(231, 141, 91) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(231, 141, 91) }
```

## Border

The CSS property to change the border of an element to Yxy 36.7940, 0.4630, 0.3840 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(231, 141, 91) }
```

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

```
.border{ border-color:rgb(231, 141, 91) }
```

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

Here you see how a box with a 4 pixel `rgb(231, 141, 91)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(231, 141, 91); -webkit-box-  
shadow:4px 4px 4px 4px rgb(231, 141, 91);  
box-shadow:4px 4px 4px 4px rgb(231, 141,  
91) }
```



# Background

The CSS property to change the background color of an element to Yxy 36.7940, 0.4630, 0.3840 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(231, 141, 91) }
```

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

```
.background{ background-color: rgb(231,  
141, 91) }
```

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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