

# Converting Colors

$Y_{xy}(35.8152, 0.4636, 0.4024)$

Have a look what the booklet for  
Yxy(35.8152, 0.4636, 0.4024)  
contains.

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# Color

**Yxy(36.0262, 0.4635, 0.4026)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	DE904E
RGB	222, 144, 78
RGB Percent	87%, 56%, 31%
CMY	0.1294, 0.4353, 0.6940
CMYK	0.00, 0.35, 0.65, 0.13
HSL	27°, 69%, 59%
HSV	27°, 65%, 87%
XYZ	41.4758, 36.0262, 11.9819
YIQ	159.7980, 67.6740, -3.9900

# Conversions

## Conversions Part 2

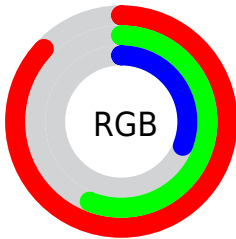
<b>Format</b>	<b>Color</b>
R <sub>Y</sub> B	222, 200, 78
Decimal	14585934
CIE Lab	66.54, 23.47, 46.47
CIE LCh	67, 52.060, 63.202
Yxy	36.0262, 0.4635, 0.4026
Android (android.graphics.Color)	4292776014 (0xFFDE904E)
YUV	159.7980, -40.3264, 54.5512
Hunter-Lab	60.0218, 18.3073, 30.1795

# Details

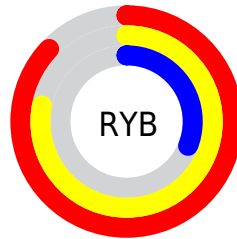
The Yxy color **36.0262, 0.4635, 0.4026** is a dark color, and the websafe version is hex **FF9966**. The color can be described as middle muted orange. A complement of this color would be **30.6878, 0.2131, 0.2317**, and the grayscale version is **35.2243, 0.3127, 0.3290**.

A 20% lighter version of the original color is **63.2331, 0.4135, 0.3998**, and **15.5939, 0.5043, 0.4134** is the 20% darker color. If you saturate the color by 10%, you get **32.3095, 0.4929, 0.4075**, and if you desaturate by 10%, it is **40.2423, 0.4341, 0.3941**.

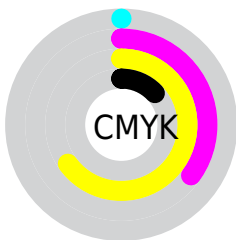
# Distribution



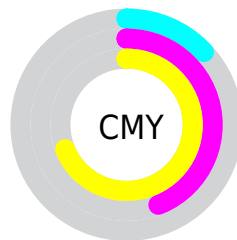
- Red (87%)
- Green (56%)
- Blue (31%)



- Red (87%)
- Yellow (78%)
- Blue (31%)



- Cyan (0%)
- Magenta (35%)
- Yellow (65%)
- Black (13%)



- Cyan (13%)
- Magenta (44%)
- Yellow (69%)

# Brightness & Saturation Gradients

These gradients show how the Yxy color 36.0262, 0.4635, 0.4026 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 36.0262, 0.4635, 0.4026 by changing the saturation by 10% instead.





 36.0262, 0.4635,  
0.4026


 36.0262, 0.4635,  
0.4026


329.0750, 0.3868,  
0.3707


 24.4544, 0.4818,  
0.4080


 69.0725, 0.4360,  
0.3927


 15.6711, 0.5042,  
0.4129


 91.3158, 0.4255,  
0.3885

 9.2917, 0.5316,  
0.4161


 117.8851, 0.4165,  
0.3847

 4.9319, 0.5770,  
0.4230

 149.1648, 0.4089,  
0.3812

 2.2074, 0.6019,  
0.3981

 185.5392, 0.4022,  
0.3782

 0.7240, 0.6483,  
0.3517

227.3928, 0.3964,

 0.0000, 1.0000,

0.3754

0.0000

275.1100, 0.3913,  
0.3730

0.0000, 0.0000,  
0.0000

36.0262, 0.4635,  
0.4026

36.0262, 0.4635,  
0.4026

32.3095, 0.4929,  
0.4075

40.2423, 0.4341,  
0.3941

29.0633, 0.5205,  
0.4075

44.9738, 0.4062,  
0.3832

26.2628, 0.5440,  
0.4020

50.2420, 0.3807,  
0.3710

24.9783, 0.5548,  
0.3977

56.0655, 0.3579,  
0.3585

62.4619, 0.3378,  
0.3462

■ 69.4476, 0.3203,  
0.3344

■ 77.0386, 0.3052,  
0.3234

■ 85.2085, 0.2925,  
0.3139

■ 92.5367, 0.2928,  
0.3262

# Harmonies

## Analogous

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



36.0262, 0.4633, 0.3447



36.0262, 0.4635, 0.4026



36.0262, 0.4204, 0.4533

# Triad

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



36.0262, 0.4635, 0.4026



36.0262, 0.2153, 0.3638



36.0262, 0.2590, 0.2163

# Complementary

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



36.0262, 0.4635, 0.4026



30.6878, 0.2131, 0.2317

# 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.



36.0262, 0.2053, 0.2108



36.0262, 0.4635, 0.4026



36.0262, 0.1822, 0.2837

# Square

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



36.0262, 0.4635, 0.4026



36.0262, 0.2765, 0.4427



36.0262, 0.1794, 0.2317



36.0262, 0.3355, 0.2442



# Rectangle

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



36.0262, 0.4635, 0.4026



36.0262, 0.3763, 0.4731



36.0262, 0.1794, 0.2317



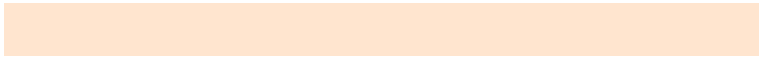
36.0262, 0.2381, 0.2118

# Sweetspot

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



36.0280, 0.4635, 0.4026



81.6424, 0.3461, 0.3514



23.4268, 0.4023, 0.2419



16.9383, 0.3519, 0.3550



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.



36.0280, 0.4635, 0.4026



42.4854, 0.5036, 0.4081



64.5859, 0.4067, 0.4711



14.7300, 0.3281, 0.3398



15.0520, 0.5524, 0.3996



1.2208, 0.5267, 0.4200



# Inverse Universe

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



30.6878, 0.2131, 0.2317



34.5682, 0.1972, 0.2069



13.4297, 0.1890, 0.1295



14.4676, 0.2981, 0.3180



11.3776, 0.1813, 0.1725

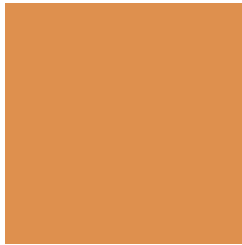


0.9671, 0.1885, 0.1986



# Previews

## White Background



This preview shows how the Yxy color 36.0262, 0.4635, 0.4026 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 36.0262, 0.4635, 0.4026 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

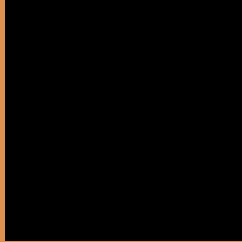
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**Yxy 36.0262, 0.4635, 0.4026**

## **Background**



This preview shows how black text looks on a background with the Yxy color 36.0262, 0.4635, 0.4026.



This preview shows how white text looks on a background with the Yxy color 36.0262, 0.4635, 0.4026.

# 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

36.0262, 0.4635, 0.4026

### Protanopia

36.0645, 0.4000, 0.4357

### Deuteranopia

35.9124, 0.4344, 0.4254



## Tritanopia

36.0145, 0.4027, 0.3175

# Trichromacy



**Original Color**

36.0262, 0.4635, 0.4026

**Protanomaly**

35.6540, 0.4237, 0.4225

**Deuteranomaly**

35.7584, 0.4453, 0.4162

**Tritanomaly**

35.8533, 0.4275, 0.3505

# Monochromacy



**Original Color**

36.0262, 0.4635, 0.4026

**Achromatopsia**

35.1533, 0.3127, 0.3290

**Achromatomaly**

34.7902, 0.3662, 0.3628

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 36.0262, 0.4635, 0.4026 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(222, 144, 78)` looks like.

```
.text, #text, p{  
    color:rgb(222, 144, 78)  
}
```

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(222, 144, 78) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(222, 144, 78) }
```

## Border

The CSS property to change the border of an element to Yxy 36.0262, 0.4635, 0.4026 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(222, 144, 78) }
```

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

```
.border{ border-color:rgb(222, 144, 78) }
```

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

Here you see how a box with a 4 pixel `rgb(222, 144, 78)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(222, 144, 78); -webkit-box-  
shadow:4px 4px 4px 4px rgb(222, 144, 78);  
box-shadow:4px 4px 4px 4px rgb(222, 144,  
78) }
```



# Background

The CSS property to change the background color of an element to Yxy 36.0262, 0.4635, 0.4026 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(222, 144, 78) }
```

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

```
.background{ background-color: rgb(222,  
144, 78) }
```

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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