

# Converting Colors

$Y_{xy}(42.4136, 0.4564, 0.4080)$

Have a look what the booklet for  
Yxy(42.4136, 0.4564, 0.4080)  
contains.

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# Color

**Yxy(42.4175, 0.4564, 0.4082)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	E99E54
RGB	233, 158, 84
RGB Percent	91%, 62%, 33%
CMY	0.0863, 0.3803, 0.6707
CMYK	0.00, 0.32, 0.64, 0.09
HSL	30°, 77%, 62%
HSV	30°, 64%, 91%
XYZ	47.4261, 42.4175, 14.0699
YIQ	171.9890, 68.4540, -7.1140

# Conversions

## Conversions Part 2

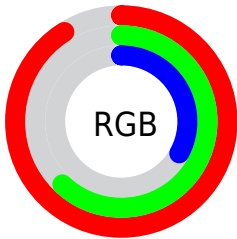
Format	Color
R <sub>YB</sub>	233, 231, 84
Decimal	15310420
CIE Lab	71.16, 20.90, 49.16
CIE LCh	71, 53.417, 66.968
Yxy	42.4175, 0.4564, 0.4082
Android (android.graphics.Color)	4293500500 (0xFFE99E54)
YUV	171.9890, -43.3786, 53.5066
Hunter-Lab	65.1287, 16.0068, 32.7816

# Details

The Yxy color **42.4175, 0.4564, 0.4082** 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 **32.5415, 0.2120, 0.2244**, and the grayscale version is **41.4470, 0.3127, 0.3290**.

A 20% lighter version of the original color is **70.6261, 0.4008, 0.4074**, and **19.3078, 0.4927, 0.4195** is the 20% darker color. If you saturate the color by 10%, you get **38.3029, 0.4840, 0.4143**, and if you desaturate by 10%, it is **47.0391, 0.4286, 0.3985**.

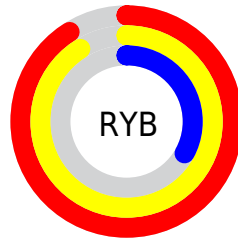
# Distribution



Red (91%)

Green (62%)

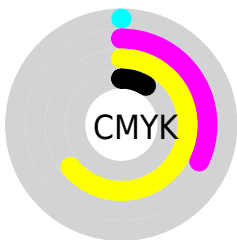
Blue (33%)



Red (91%)

Yellow (91%)

Blue (33%)

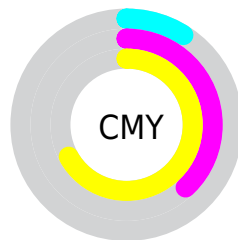


Cyan (0%)

Magenta (32%)

Yellow (64%)

Black (9%)



Cyan (9%)

Magenta (38%)


Yellow (67%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 42.4175, 0.4564, 0.4082 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 42.4175, 0.4564, 0.4082 by changing the saturation by 10% instead.





 42.4175, 0.4564,  
0.4082

 42.4175, 0.4564,  
0.4082

356.2107, 0.3855,  
0.3740


 29.4283, 0.4727,  
0.4142


 78.8311, 0.4314,  
0.3975

 19.4051, 0.4924,  
0.4203


 103.0243, 0.4218,  
0.3929


 11.9634, 0.5162,  
0.4254


 131.7211, 0.4135,  
0.3888

 6.7187, 0.5489,  
0.4306

 165.3057, 0.4063,  
0.3852

 3.2868, 0.5786,  
0.4214

 204.1625, 0.4001,  
0.3819

 1.2832, 0.6087,  
0.3913

248.6761, 0.3946,

 0.1282, 0.8314,

0.3790

0.1686

299.2307, 0.3898,  
0.3764

0.0000, 0.0000,  
0.0000

42.4175, 0.4564,  
0.4082

42.4175, 0.4564,  
0.4082

38.3029, 0.4840,  
0.4143

47.0391, 0.4286,  
0.3985

34.6658, 0.5099,  
0.4155

52.1824, 0.4021,  
0.3865


31.4819, 0.5321,  
0.4111


57.8690, 0.3776,  
0.3734


29.7580, 0.5438,  
0.4064


64.1172, 0.3556,  
0.3598

70.9440, 0.3360,  
0.3465

 78.3659, 0.3189,  
0.3338

 86.3985, 0.3039,  
0.3219

 94.0274, 0.2993,  
0.3258

 96.0605, 0.2993,  
0.3290

# Harmonies

## Analogous

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



42.4175, 0.4619, 0.3519



42.4175, 0.4564, 0.4082



42.4175, 0.4106, 0.4551

# Triad

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



42.4175, 0.4564, 0.4082



42.4175, 0.2122, 0.3524



42.4175, 0.2689, 0.2212

# Complementary

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



42.4175, 0.4564, 0.4082



32.5415, 0.2120, 0.2244

# 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.



42.4175, 0.2130, 0.2129



42.4175, 0.4564, 0.4082



42.4175, 0.1834, 0.2771

# Square

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



42.4175, 0.4564, 0.4082



42.4175, 0.2691, 0.4312



42.4175, 0.1842, 0.2301



42.4175, 0.3450, 0.2510



# Rectangle

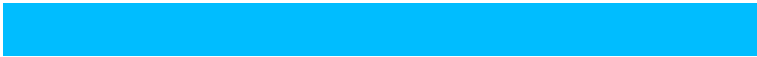
The Rectangle color scheme consists of four colors that form a rectangle on the color wheel.



42.4175, 0.4564, 0.4082



42.4175, 0.3661, 0.4705



42.4175, 0.1842, 0.2301



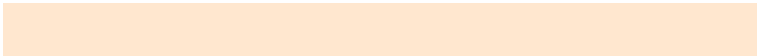
42.4175, 0.2475, 0.2159

# Sweetspot

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



42.4196, 0.4564, 0.4082



82.6851, 0.3457, 0.3533



26.2292, 0.4078, 0.2477



17.1895, 0.3515, 0.3571



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.



42.4196, 0.4564, 0.4082



45.4218, 0.4932, 0.4153



74.8312, 0.4029, 0.4738



16.2905, 0.3280, 0.3407



17.1361, 0.5414, 0.4083



1.5379, 0.5200, 0.4253



# Inverse Universe

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



32.5415, 0.2120, 0.2244



32.4000, 0.1954, 0.1981



14.4950, 0.1890, 0.1261



15.8013, 0.2981, 0.3170



10.8351, 0.1775, 0.1590



1.0433, 0.1845, 0.1840



# Previews

## White Background



This preview shows how the Yxy color 42.4175, 0.4564, 0.4082 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 42.4175, 0.4564, 0.4082 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

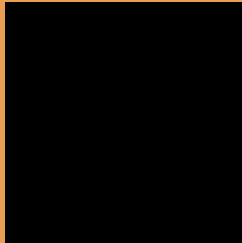
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**Yxy 42.4175, 0.4564, 0.4082**

## **Background**



This preview shows how black text looks on a background with the Yxy color 42.4175, 0.4564, 0.4082.



This preview shows how white text looks on a background with the Yxy color 42.4175, 0.4564, 0.4082.

# 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

42.4175, 0.4564, 0.4082

### Protanopia

42.7187, 0.4014, 0.4382

### Deuteranopia

42.4806, 0.4354, 0.4254



## Tritanopia

42.2452, 0.3919, 0.3157

# Trichromacy



**Original Color**

42.4175, 0.4564, 0.4082

**Protanomaly**

42.4740, 0.4217, 0.4273

**Deuteranomaly**

42.3485, 0.4428, 0.4188

**Tritanomaly**

41.9828, 0.4182, 0.3508

# Monochromacy



**Original Color**

42.4175, 0.4564, 0.4082

**Achromatopsia**

41.2543, 0.3127, 0.3290

**Achromatomaly**

41.0002, 0.3631, 0.3649

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 42.4175, 0.4564, 0.4082 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(233, 158, 84)` looks like.

```
.text, #text, p{  
    color:rgb(233, 158, 84)  
}
```

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(233, 158, 84) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(233, 158, 84) }
```

## Border

The CSS property to change the border of an element to Yxy 42.4175, 0.4564, 0.4082 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(233, 158, 84) }
```

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

```
.border{ border-color:rgb(233, 158, 84) }
```

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

Here you see how a box with a 4 pixel `rgb(233, 158, 84)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(233, 158, 84); -webkit-box-  
shadow:4px 4px 4px 4px rgb(233, 158, 84);  
box-shadow:4px 4px 4px 4px rgb(233, 158,  
84) }
```



# Background

The CSS property to change the background color of an element to  $\text{Yxy } 42.4175, 0.4564, 0.4082$  is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(233, 158, 84) }
```

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

```
.background{ background-color: rgb(233,  
158, 84) }
```

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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