

# Converting Colors

$Y_{xy}(41.1895, 0.4982, 0.4426)$

Have a look what the booklet for  
Yxy(41.1895, 0.4982, 0.4426)  
contains.

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# Color

**Yxy(41.2756, 0.4974, 0.4433)**

# Conversions

## Conversions Part 1

Format	Color
Hex	EC9B00
RGB	236, 155, 0
RGB Percent	93%, 61%, 0%
CMY	0.0745, 0.3921, 1.0000
CMYK	0.00, 0.34, 1.00, 0.07
HSL	39°, 100%, 46%
HSV	39°, 100%, 93%
XYZ	46.3128, 41.2756, 5.5214
YIQ	161.5490, 98.0310, -31.0330

# Conversions

## Conversions Part 2

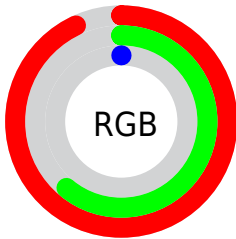
Format	Color
<a href="#">RYB</a>	<a href="#">123, 236, 0</a>
Decimal	<a href="#">15506176</a>
CIELab	<a href="#">70.37, 21.17, 74.88</a>
CIElCh	<a href="#">70, 77.820, 74.212</a>
Yxy	<a href="#">41.2756, 0.4974, 0.4433</a>
Android (android.graphics.Color)	<a href="#">4293696256 (0xFFEC9B00)</a>
YUV	<a href="#">161.5490, -79.6437, 65.2935</a>
Hunter-Lab	<a href="#">64.2461, 16.2440, 39.8768</a>

# Details

The Yxy color **41.2756, 0.4974, 0.4433** is a dark color, and the websafe version is hex **FF9900**. The color can be described as dark washed orange. A complement of this color would be **11.9398, 0.1633, 0.1078**, and the grayscale version is **36.2561, 0.3127, 0.3290**.

A 20% lighter version of the original color is **67.3968, 0.4377, 0.4512**, and **18.8993, 0.5119, 0.4318** is the 20% darker color. If you saturate the color by 10%, you get **41.2781, 0.4974, 0.4433**, and if you desaturate by 10%, it is **44.1295, 0.4843, 0.4465**.

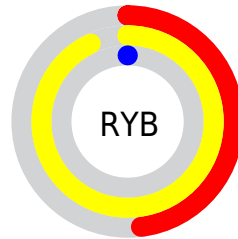
# Distribution



Red (93%)

Green (61%)

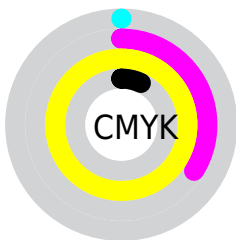
Blue (0%)



Red (48%)

Yellow (93%)

Blue (0%)

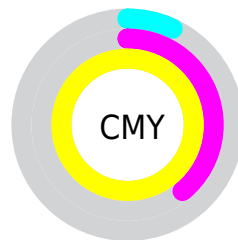


Cyan (0%)

Magenta (34%)

Yellow (100%)

Black (7%)



Cyan (7%)

Magenta (39%)


Yellow (100%)

# Brightness & Saturation Gradients

These gradients show how the Yxy color 41.2756, 0.4974, 0.4433 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 41.2756, 0.4974, 0.4433 by changing the saturation by 10% instead.




 41.2756, 0.4974,  
0.4433

 41.2756, 0.4974,  
0.4433


351.4712, 0.4131,  
0.4003


 28.5345, 0.5131,  
0.4478


 77.1021, 0.4703,  
0.4322


 18.7290, 0.5299,  
0.4500


 100.9563, 0.4590,  
0.4266


 11.4746, 0.5498,  
0.4502


 129.2836, 0.4490,  
0.4213

 6.3870, 0.5625,  
0.4375

 162.4684, 0.4401,  
0.4164

 3.0818, 0.5816,  
0.4184

 200.8952, 0.4322,  
0.4118

 1.1746, 0.6134,  
0.3866

 244.9484, 0.4251,

 0.0408, 0.9316,

0.4076


0.0684


 295.0122, 0.4188,  
0.4038

 0.0000, 0.0000,  
0.0000


 41.2756, 0.4974,  
0.4433

 41.2756, 0.4974,  
0.4433


 41.2781, 0.4974,  
0.4433

 44.1295, 0.4843,  
0.4465

 47.2434, 0.4682,  
0.4450

 50.6479, 0.4493,  
0.4384

 54.3607, 0.4285,  
0.4275

 58.3971, 0.4070,  
0.4134

■ 62.7710, 0.3856,  
0.3972

■ 67.4948, 0.3651,  
0.3799

■ 72.5803, 0.3460,  
0.3624

■ 78.0385, 0.3285,  
0.3453

# Harmonies

## Analogous

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



41.2756, 0.5303, 0.3670



41.2756, 0.4974, 0.4433



41.2756, 0.4178, 0.5149

# Triad

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



41.2756, 0.4974, 0.4433



41.2756, 0.1582, 0.3283



41.2756, 0.2719, 0.1902

# Complementary

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



41.2756, 0.4974, 0.4433



11.9398, 0.1633, 0.1078

# 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.



41.2756, 0.1895, 0.1716



41.2756, 0.4974, 0.4433



41.2756, 0.1343, 0.2299

# Square

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



41.2756, 0.4974, 0.4433



41.2756, 0.2231, 0.4604



41.2756, 0.1451, 0.1820



41.2756, 0.3858, 0.2342



# Rectangle

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



41.2756, 0.4974, 0.4433



41.2756, 0.3526, 0.5398



41.2756, 0.1451, 0.1820



41.2756, 0.2401, 0.1810

# Sweetspot

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



41.2781, 0.4974, 0.4433



80.3928, 0.3654, 0.3801



18.4512, 0.5616, 0.2867



16.6864, 0.3739, 0.3875



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.



41.2781, 0.4974, 0.4433



49.0764, 0.4978, 0.4430



72.3528, 0.3927, 0.5264



16.7060, 0.3276, 0.3444



23.0035, 0.4958, 0.4445



1.9841, 0.4825, 0.4551



# Inverse Universe

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



11.9398, 0.1633, 0.1078



14.1197, 0.1631, 0.1071



6.4205, 0.1553, 0.0629



15.3941, 0.2980, 0.3131



6.7981, 0.1641, 0.1107



0.7071, 0.1718, 0.1384



# Previews

## White Background



This preview shows how the Yxy color 41.2756, 0.4974, 0.4433 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 41.2756, 0.4974, 0.4433 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 41.2756, 0.4974, 0.4433**

## Background



This preview shows how black text looks on a background with the Yxy color 41.2756, 0.4974, 0.4433.



This preview shows how white text looks on a background with the Yxy color 41.2756, 0.4974, 0.4433.

# 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

41.2756, 0.4974, 0.4433

### Protanopia

41.5267, 0.4386, 0.4851

### Deuteranopia

41.4563, 0.4718, 0.4636



## Tritanopia

41.1903, 0.4042, 0.3171

# Trichromacy



## Original Color

41.2756, 0.4974, 0.4433

## Protanomaly

40.9960, 0.4610, 0.4694

## Deuteranomaly

41.4973, 0.4813, 0.4560

## Tritanomaly

40.6059, 0.4582, 0.3814

# Monochromacy



## Original Color

41.2756, 0.4974, 0.4433

## Achromatopsia

36.1307, 0.3127, 0.3290

## Achromatomaly

36.5944, 0.3962, 0.4047

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 41.2756, 0.4974, 0.4433 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(236, 155, 0)` looks like.

```
.text, #text, p{  
    color:rgb(236, 155, 0)  
}
```

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(236, 155, 0) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(236, 155, 0) }
```

## Border

The CSS property to change the border of an element to Yxy 41.2756, 0.4974, 0.4433 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(236, 155, 0) }
```

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

```
.border{ border-color:rgb(236, 155, 0) }
```

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

Here you see how a box with a 4 pixel rgb(236, 155, 0) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(236, 155, 0); -webkit-box-  
shadow:4px 4px 4px 4px rgb(236, 155, 0);  
box-shadow:4px 4px 4px 4px rgb(236, 155,  
0) }
```



# Background

The CSS property to change the background color of an element to Yxy 41.2756, 0.4974, 0.4433 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(236, 155, 0) }
```

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

```
.background{ background-color: rgb(236,  
155, 0) }
```

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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