

# Converting Colors

$Y_{xy}(24.5651, 0.5792, 0.3783)$

Have a look what the booklet for  
Yxy(24.5651, 0.5792, 0.3783)  
contains.

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# Color

**$\text{Yxy}(24.6416, 0.5794, 0.3782)$**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	EB5800
RGB	235, 88, 0
RGB Percent	92%, 35%, 0%
CMY	0.0784, 0.6549, 1.0000
CMYK	0.00, 0.63, 1.00, 0.08
HSL	22°, 100%, 46%
HSV	22°, 100%, 92%
XYZ	37.7508, 24.6416, 2.7626
YIQ	121.9210, 115.8600, 3.7960

# Conversions

## Conversions Part 2

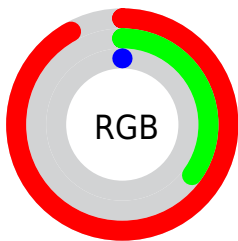
Format	Color
R <sub>Y</sub> B	235, 141, 0
Decimal	15423488
CIE Lab	56.72, 54.07, 66.62
CIE LCh	57, 85.798, 50.937
Yxy	24.6416, 0.5794, 0.3782
Android (android.graphics.Color)	4293613568 (0xFFEB5800)
YUV	121.9210, -60.1071, 99.1703
Hunter-Lab	49.6403, 48.8763, 31.4486

# Details

The Yxy color **24.6416, 0.5794, 0.3782** is a dark color, and the websafe version is hex **FF6600**. The color can be described as dark washed red. A complement of this color would be **26.8638, 0.1887, 0.1994**, and the grayscale version is **19.6082, 0.3127, 0.3290**.

A 20% lighter version of the original color is **41.2866, 0.5024, 0.3988**, and **9.4248, 0.6219, 0.3444** is the 20% darker color. If you saturate the color by 10%, you get **24.6433, 0.5794, 0.3782**, and if you desaturate by 10%, it is **27.3689, 0.5553, 0.3873**.

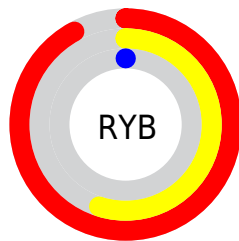
# Distribution



Red (92%)

Green (35%)

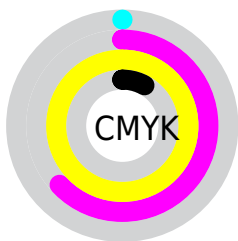
Blue (0%)



Red (92%)

Yellow (55%)

Blue (0%)

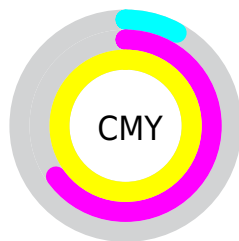


Cyan (0%)

Magenta (63%)

Yellow (100%)

Black (8%)



Cyan (8%)

Magenta (65%)


Yellow (100%)

# Brightness & Saturation Gradients

These gradients show how the Yxy color 24.6416, 0.5794, 0.3782 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 24.6416, 0.5794, 0.3782 by changing the saturation by 10% instead.





 24.6416, 0.5794,  
0.3782


 24.6416, 0.5794,  
0.3782


276.0483, 0.4447,  
0.3745


 15.8102, 0.6074,  
0.3698

 51.0752, 0.5335,  
0.3836

 9.3900, 0.6432,  
0.3568


 69.4462, 0.5151,  
0.3835


 4.9964, 0.6729,  
0.3271

 91.7659, 0.4991,  
0.3826

 2.2452, 0.7156,  
0.2844

 118.4187, 0.4852,  
0.3813

 0.7444, 0.7821,  
0.2179

 149.7889, 0.4731,  
0.3796

 0.0000, 1.0000,  
0.0000

 186.2610, 0.4625,

 0.0000, 0.0000,

0.3779


0.0000


 228.2194, 0.4531,  
0.3762

 24.6416, 0.5794,  
0.3782

 24.6416, 0.5794,  
0.3782

 24.6433, 0.5794,  
0.3782

 27.3689, 0.5553,  
0.3873

 30.6854, 0.5259,  
0.3918

 34.6425, 0.4929,  
0.3912

 39.2778, 0.4592,  
0.3863

 44.6254, 0.4269,  
0.3785

■ 50.7166, 0.3975,  
0.3690

■ 57.5807, 0.3714,  
0.3587

■ 65.2453, 0.3487,  
0.3484

■ 73.7363, 0.3293,  
0.3384

# Harmonies

## Analogous

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



24.6416, 0.5615, 0.2984



24.6416, 0.5794, 0.3782



24.6416, 0.5099, 0.4726

# Triad

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



24.6416, 0.5794, 0.3782



24.6416, 0.1724, 0.4667



24.6416, 0.1783, 0.1418

# Complementary

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



24.6416, 0.5794, 0.3782



26.8638, 0.1887, 0.1994

# 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.



24.6416, 0.1197, 0.1438



24.6416, 0.5794, 0.3782



24.6416, 0.1123, 0.2865

# Square

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



24.6416, 0.5794, 0.3782



24.6416, 0.2788, 0.6008



24.6416, 0.0989, 0.1835



24.6416, 0.2878, 0.1699



# Rectangle

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



24.6416, 0.5794, 0.3782



24.6416, 0.4382, 0.5410



24.6416, 0.0989, 0.1835



24.6416, 0.1538, 0.1390

# Sweetspot

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



24.6433, 0.5794, 0.3782



69.1925, 0.3717, 0.3588



19.8272, 0.4428, 0.2213



14.0375, 0.3823, 0.3632



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.



24.6433, 0.5794, 0.3782



29.5343, 0.5801, 0.3776



60.6908, 0.4453, 0.4846



15.9783, 0.3283, 0.3379



13.9403, 0.5765, 0.3805



1.2741, 0.5505, 0.4011



# Inverse Universe

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



26.8638, 0.1887, 0.1994



32.1895, 0.1886, 0.1988



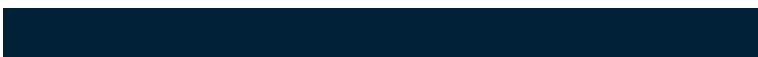
6.9958, 0.1525, 0.0688



16.1189, 0.2981, 0.3200



15.2036, 0.1894, 0.2016



1.3776, 0.1948, 0.2212



# Previews

## White Background



This preview shows how the Yxy color 24.6416, 0.5794, 0.3782 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

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 24.6416, 0.5794, 0.3782 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 × Fail

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

**Yxy 24.6416, 0.5794, 0.3782**

## **Background**



This preview shows how black text looks on a background with the Yxy color 24.6416, 0.5794, 0.3782.



This preview shows how white text looks on a background with the Yxy color 24.6416, 0.5794, 0.3782.

# 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

24.6416, 0.5794, 0.3782

### Protanopia

24.8273, 0.4337, 0.4799

### Deuteranopia

24.7359, 0.4699, 0.4651



## Tritanopia

24.7272, 0.5213, 0.3250

# Trichromacy



## Original Color

24.6416, 0.5794, 0.3782

## Protanomaly

23.2954, 0.4939, 0.4389

## Deuteranomaly

23.8636, 0.5151, 0.4292

## Tritanomaly

24.4494, 0.5556, 0.3533

# Monochromacy



## Original Color

24.6416, 0.5794, 0.3782

## Achromatopsia

19.4618, 0.3127, 0.3290

## Achromatomaly

19.4884, 0.4295, 0.3795

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 24.6416, 0.5794, 0.3782 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(235, 88, 0)` looks like.

```
.text, #text, p{  
  color:rgb(235, 88, 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(235, 88, 0) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(235, 88, 0) }
```

## Border

The CSS property to change the border of an element to Yxy 24.6416, 0.5794, 0.3782 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(235, 88, 0) }
```

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

```
.border{ border-color:rgb(235, 88, 0) }
```

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

Here you see how a box with a 4 pixel rgb(235, 88, 0) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(235, 88, 0); -webkit-box-  
shadow:4px 4px 4px 4px rgb(235, 88, 0);  
box-shadow:4px 4px 4px 4px rgb(235, 88, 0)  
}
```



# Background

The CSS property to change the background color of an element to Yxy 24.6416, 0.5794, 0.3782 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(235, 88, 0) }
```

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

```
.background{ background-color: rgb(235, 88,  
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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