

# Converting Colors

$Y_{xy}(24.7168, 0.5793, 0.3747)$

Have a look what the booklet for  
Yxy(24.7168, 0.5793, 0.3747)  
contains.

<b>Yxy(24.8428, 0.5791, 0.3748)</b> .....	3
<b>Conversions</b> .....	4
<b>Details</b> .....	6
<b>Harmonies</b> .....	12
<b>Previews</b> .....	24
<b>Color Blindness Simulation</b> .....	27
<b>CSS Examples</b> .....	30

**Color**

**Yxy(24.8428, 0.5791, 0.3748)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	ED570A
RGB	237, 87, 10
RGB Percent	93%, 34%, 4%
CMY	0.0706, 0.6587, 0.9613
CMYK	0.00, 0.63, 0.96, 0.07
HSL	20°, 92%, 48%
HSV	20°, 96%, 93%
XYZ	38.3844, 24.8428, 3.0556
YIQ	123.0720, 114.1170, 7.8530

# Conversions

## Conversions Part 2

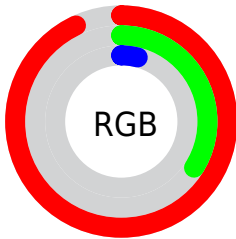
Format	Color
R <sub>Y</sub> B	237, 127, 10
Decimal	15554314
CIE Lab	56.92, 55.26, 64.95
CIE LCh	57, 85.278, 49.608
Yxy	24.8428, 0.5791, 0.3748
Android (android.graphics.Color)	4293744394 (0xFFED570A)
YUV	123.0720, -55.7445, 99.9149
Hunter-Lab	49.8426, 50.2406, 31.2550

# Details

The Yxy color **24.8428, 0.5791, 0.3748** 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 **31.2643, 0.1943, 0.2173**, and the grayscale version is **19.9904, 0.3127, 0.3290**.

A 20% lighter version of the original color is **41.0357, 0.5007, 0.3952**, and **9.5094, 0.6250, 0.3419** is the 20% darker color. If you saturate the color by 10%, you get **23.8131, 0.5888, 0.3707**, and if you desaturate by 10%, it is **27.7509, 0.5520, 0.3828**.

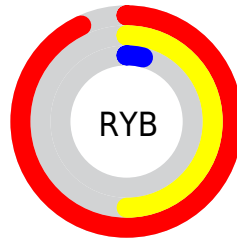
# Distribution



Red (93%)

Green (34%)

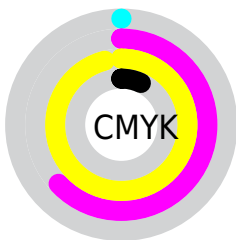
Blue (4%)



Red (93%)

Yellow (50%)

Blue (4%)

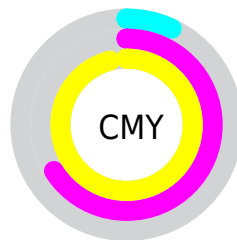


Cyan (0%)

Magenta (63%)

Yellow (96%)

Black (7%)



Cyan (7%)

Magenta (66%)


Yellow (96%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 24.8428, 0.5791, 0.3748 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 24.8428, 0.5791, 0.3748 by changing the saturation by 10% instead.





 24.8428, 0.5791,  
0.3748


 24.8428, 0.5791,  
0.3748


277.0542, 0.4439,  
0.3721


 15.9600, 0.6077,  
0.3665


 51.4021, 0.5327,  
0.3803


 9.4958, 0.6457,  
0.3543


 69.8473, 0.5141,  
0.3803


 5.0660, 0.6755,  
0.3245

 92.2488, 0.4981,  
0.3796

 2.2860, 0.7183,  
0.2817

 118.9910, 0.4843,  
0.3783

 0.7663, 0.7839,  
0.2161

 150.4582, 0.4722,  
0.3769


 0.0000, 1.0000,  
0.0000


 187.0349, 0.4615,


 0.0000, 0.0000,


0.3753

0.0000


 229.1054, 0.4522,  
0.3737


 24.8428, 0.5791,  
0.3748


 24.8428, 0.5791,  
0.3748


 23.8131, 0.5888,  
0.3707

 27.7509, 0.5520,  
0.3828

 31.3332, 0.5192,  
0.3857

 35.6380, 0.4838,  
0.3838

 40.7068, 0.4489,  
0.3783

 46.5775, 0.4164,  
0.3705

■ 53.2853, 0.3874,  
0.3615

■ 60.8629, 0.3621,  
0.3521

■ 69.3413, 0.3405,  
0.3428

■ 78.7499, 0.3221,  
0.3339

# Harmonies

## Analogous

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



24.8428, 0.5561, 0.2956



24.8428, 0.5791, 0.3748



24.8428, 0.5133, 0.4679

# Triad

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



24.8428, 0.5791, 0.3748



24.8428, 0.1775, 0.4738



24.8428, 0.1756, 0.1423

# Complementary

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



24.8428, 0.5791, 0.3748



31.2643, 0.1943, 0.2173

# 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.



24.8428, 0.1191, 0.1457



24.8428, 0.5791, 0.3748



24.8428, 0.1151, 0.2936

# Square

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



24.8428, 0.5791, 0.3748



24.8428, 0.2848, 0.6001



24.8428, 0.0998, 0.1876



24.8428, 0.2822, 0.1690



# Rectangle

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



24.8428, 0.5791, 0.3748



24.8428, 0.4431, 0.5357



24.8428, 0.0998, 0.1876



24.8428, 0.1519, 0.1399

# Sweetspot

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



24.8442, 0.5791, 0.3748



68.8226, 0.3700, 0.3552



20.8000, 0.4235, 0.2123



13.9147, 0.3809, 0.3592



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.



24.8442, 0.5791, 0.3748



28.0149, 0.5895, 0.3701



58.9331, 0.4503, 0.4787



15.8904, 0.3284, 0.3371



13.2209, 0.5858, 0.3730



1.2107, 0.5591, 0.3943

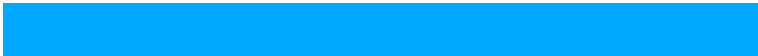


# Inverse Universe

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



31.2643, 0.1943, 0.2173



35.3660, 0.1921, 0.2115



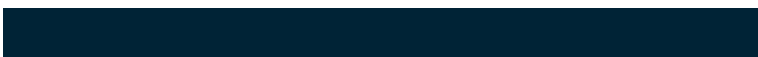
8.2694, 0.1559, 0.0783



16.2101, 0.2981, 0.3208



16.6633, 0.1928, 0.2141



1.4855, 0.1977, 0.2318



# Previews

## White Background



This preview shows how the Yxy color 24.8428, 0.5791, 0.3748 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 24.8428, 0.5791, 0.3748 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 24.8428, 0.5791, 0.3748**

## Background



This preview shows how black text looks on a background with the Yxy color 24.8428, 0.5791, 0.3748.



This preview shows how white text looks on a background with the Yxy color 24.8428, 0.5791, 0.3748.

# 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

24.8428, 0.5791, 0.3748

### Protanopia

24.8359, 0.4329, 0.4787

### Deuteranopia

24.8495, 0.4710, 0.4642



## Tritanopia

24.9075, 0.5249, 0.3251

# Trichromacy



## Original Color

24.8428, 0.5791, 0.3748

## Protanomaly

23.4345, 0.4932, 0.4363

## Deuteranomaly

23.7792, 0.5165, 0.4264

## Tritanomaly

24.6691, 0.5549, 0.3500

# Monochromacy



## Original Color

24.8428, 0.5791, 0.3748

## Achromatopsia

19.8069, 0.3127, 0.3290

## Achromatomaly

19.6536, 0.4256, 0.3732

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 24.8428, 0.5791, 0.3748 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(237, 87, 10)` looks like.

```
.text, #text, p{  
    color:rgb(237, 87, 10)  
}
```

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(237, 87, 10) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(237, 87, 10) }
```

## Border

The CSS property to change the border of an element to Yxy 24.8428, 0.5791, 0.3748 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(237, 87, 10) }
```

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

```
.border{ border-color:rgb(237, 87, 10) }
```

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

Here you see how a box with a 4 pixel rgb(237, 87, 10) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(237, 87, 10); -webkit-box-  
shadow:4px 4px 4px 4px rgb(237, 87, 10);  
box-shadow:4px 4px 4px 4px rgb(237, 87,  
10) }
```



# Background

The CSS property to change the background color of an element to Yxy 24.8428, 0.5791, 0.3748 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(237, 87, 10) }
```

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

```
.background{ background-color: rgb(237, 87,  
10) }
```

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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