

# Converting Colors

$Y_{xy}(35.8655, 0.5210, 0.4198)$

Have a look what the booklet for  
Yxy(35.8655, 0.5210, 0.4198)  
contains.

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**Color**

**Yxy(35.7161, 0.5211, 0.4196)**

# Conversions

## Conversions Part 1

Format	Color
Hex	EF8710
RGB	239, 135, 16
RGB Percent	94%, 53%, 6%
CMY	0.0627, 0.4706, 0.9371
CMYK	0.00, 0.44, 0.93, 0.06
HSL	32°, 87%, 50%
HSV	32°, 93%, 94%
XYZ	44.3557, 35.7161, 5.0476
YIQ	152.5300, 100.1830, -14.9610

# Conversions

## Conversions Part 2

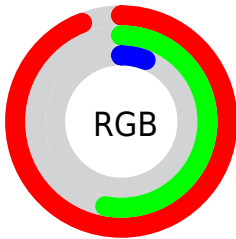
Format	Color
R <sub>Y</sub> B	211, 239, 16
Decimal	15697680
CIE Lab	66.30, 33.08, 70.05
CIE LCh	66, 77.471, 64.725
Yxy	35.7161, 0.5211, 0.4196
Android (android.graphics.Color)	4293887760 (0xFFEF8710)
YUV	152.5300, -67.3093, 75.8342
Hunter-Lab	59.7629, 27.8965, 36.8264

# Details

The Yxy color **35.7161, 0.5211, 0.4196** is a dark color, and the websafe version is hex **FF9933**. The color can be described as dark washed orange. A complement of this color would be **19.7857, 0.1779, 0.1563**, and the grayscale version is **31.9087, 0.3127, 0.3290**.

A 20% lighter version of the original color is **58.2197, 0.4524, 0.4329**, and **15.5708, 0.5468, 0.4040** is the 20% darker color. If you saturate the color by 10%, you get **33.6654, 0.5331, 0.4149**, and if you desaturate by 10%, it is **39.1090, 0.5003, 0.4228**.

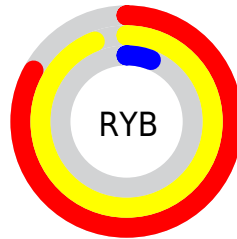
# Distribution



Red (94%)

Green (53%)

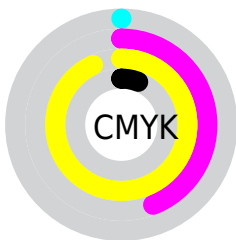
Blue (6%)



Red (83%)

Yellow (94%)

Blue (6%)

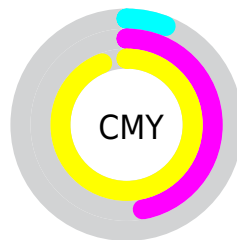


Cyan (0%)

Magenta (44%)

Yellow (93%)

Black (6%)



Cyan (6%)

Magenta (47%)


Yellow (94%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 35.7161, 0.5211, 0.4196 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 35.7161, 0.5211, 0.4196 by changing the saturation by 10% instead.




 35.7161, 0.5211,  
0.4196


 35.7161, 0.5211,  
0.4196


327.7180, 0.4216,  
0.3892


 24.2150, 0.5410,  
0.4205


 68.5936, 0.4881,  
0.4133

 15.4932, 0.5633,  
0.4183


 90.7389, 0.4746,  
0.4095


 9.1662, 0.5890,  
0.4110

 117.2010, 0.4628,  
0.4057

 4.8498, 0.6105,  
0.3895

 148.3643, 0.4525,  
0.4020

 2.1594, 0.6431,  
0.3569

 184.6133, 0.4433,  
0.3984

 0.6977, 0.7016,  
0.2984

 226.3323, 0.4353,


 0.0000, 1.0000,


0.3951

0.0000


 273.9057, 0.4281,  
0.3921


 0.0000, 0.0000,  
0.0000

 35.7161, 0.5211,  
0.4196


 35.7161, 0.5211,  
0.4196

 33.6654, 0.5331,  
0.4149

 39.1090, 0.5003,  
0.4228

 42.9355, 0.4762,  
0.4205

 47.2230, 0.4502,  
0.4134

 51.9934, 0.4240,  
0.4027

 57.2667, 0.3987,  
0.3897

■ 63.0612, 0.3752,  
0.3756

■ 69.3943, 0.3538,  
0.3611

■ 76.2820, 0.3347,  
0.3469

■ 83.7399, 0.3178,  
0.3333

# Harmonies

## Analogous

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



35.7161, 0.5349, 0.3430



35.7161, 0.5211, 0.4196



35.7161, 0.4493, 0.4992

# Triad

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



35.7161, 0.5211, 0.4196



35.7161, 0.1687, 0.3707



35.7161, 0.2386, 0.1766

# Complementary

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



35.7161, 0.5211, 0.4196



19.7857, 0.1779, 0.1563

# 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.



35.7161, 0.1668, 0.1664



35.7161, 0.5211, 0.4196



35.7161, 0.1320, 0.2514

# Square

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



35.7161, 0.5211, 0.4196



35.7161, 0.2478, 0.5044



35.7161, 0.1328, 0.1874



35.7161, 0.3492, 0.2140



# Rectangle

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



35.7161, 0.5211, 0.4196



35.7161, 0.3849, 0.5398



35.7161, 0.1328, 0.1874



35.7161, 0.2101, 0.1701

# Sweetspot

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



35.7180, 0.5211, 0.4196



76.7850, 0.3638, 0.3681



20.0816, 0.4968, 0.2546



15.7667, 0.3732, 0.3743



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.



35.7180, 0.5211, 0.4196



38.8841, 0.5336, 0.4145



78.8577, 0.4128, 0.5078



17.1555, 0.3280, 0.3416



18.8689, 0.5308, 0.4167



1.7688, 0.5121, 0.4316



# Inverse Universe

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



19.7857, 0.1779, 0.1563



20.4004, 0.1732, 0.1434



6.7918, 0.1536, 0.0647



16.4442, 0.2980, 0.3161



10.0421, 0.1741, 0.1468



1.0327, 0.1810, 0.1716



# Previews

## White Background



This preview shows how the Yxy color 35.7161, 0.5211, 0.4196 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 35.7161, 0.5211, 0.4196 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 35.7161, 0.5211, 0.4196**

## **Background**



This preview shows how black text looks on a background with the Yxy color 35.7161, 0.5211, 0.4196.



This preview shows how white text looks on a background with the Yxy color 35.7161, 0.5211, 0.4196.

# 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

35.7161, 0.5211, 0.4196

### Protanopia

35.8559, 0.4354, 0.4821

### Deuteranopia

35.6198, 0.4721, 0.4633



## Tritanopia

35.9041, 0.4376, 0.3197

# Trichromacy



**Original Color**

35.7161, 0.5211, 0.4196

**Protanomaly**

35.2109, 0.4683, 0.4581

**Deuteranomaly**

35.3226, 0.4916, 0.4461

**Tritanomaly**

35.3505, 0.4821, 0.3673

# Monochromacy



**Original Color**

35.7161, 0.5211, 0.4196

**Achromatopsia**

31.8547, 0.3127, 0.3290

**Achromatomaly**

31.7274, 0.3989, 0.3895

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 35.7161, 0.5211, 0.4196 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(239, 135, 16)` looks like.

```
.text, #text, p{  
    color:rgb(239, 135, 16)  
}
```

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(239, 135, 16) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(239, 135, 16) }
```

## Border

The CSS property to change the border of an element to Yxy 35.7161, 0.5211, 0.4196 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(239, 135, 16) }
```

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

```
.border{ border-color:rgb(239, 135, 16) }
```

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

Here you see how a box with a 4 pixel `rgb(239, 135, 16)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(239, 135, 16); -webkit-box-  
shadow:4px 4px 4px 4px rgb(239, 135, 16);  
box-shadow:4px 4px 4px 4px rgb(239, 135,  
16) }
```



# Background

The CSS property to change the background color of an element to Yxy 35.7161, 0.5211, 0.4196 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(239, 135, 16) }
```

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

```
.background{ background-color: rgb(239,  
135, 16) }
```

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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