

# Converting Colors

$Y_{xy}(22.1689, 0.5841, 0.3744)$

Have a look what the booklet for  
Yxy(22.1689, 0.5841, 0.3744)  
contains.

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**Color**

**Yxy(22.2158, 0.5838, 0.3746)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	E35100
RGB	227, 81, 0
RGB Percent	89%, 32%, 0%
CMY	0.1098, 0.6823, 0.9995
CMYK	0.00, 0.64, 1.00, 0.11
HSL	21°, 100%, 45%
HSV	21°, 100%, 89%
XYZ	34.6225, 22.2158, 2.4671
YIQ	115.4200, 113.0170, 5.7610

# Conversions

## Conversions Part 2

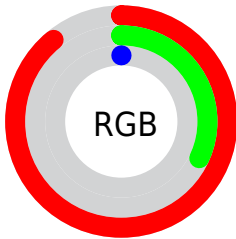
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	227, 126, 0
Decimal	14897408
CIE Lab	54.26, 54.26, 64.54
CIE LCh	54, 84.318, 49.941
Yxy	22.2158, 0.5838, 0.3746
Android (android.graphics.Color)	4293087488 (0xFFE35100)
YUV	115.4200, -56.9021, 97.8557
Hunter-Lab	47.1336, 48.6351, 29.8901

# Details

The Yxy color **22.2158, 0.5838, 0.3746** 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 **26.1471, 0.1906, 0.2063**, and the grayscale version is **17.4352, 0.3127, 0.3290**.

A 20% lighter version of the original color is **39.2272, 0.5106, 0.3932**, and **8.2191, 0.6300, 0.3380** is the 20% darker color. If you saturate the color by 10%, you get **22.2036, 0.5839, 0.3746**, and if you desaturate by 10%, it is **24.6878, 0.5592, 0.3837**.

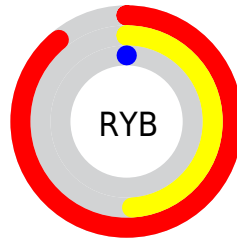
# Distribution



Red (89%)

Green (32%)

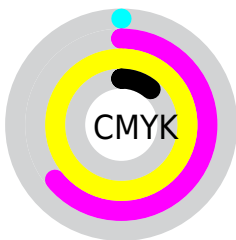
Blue (0%)



Red (89%)

Yellow (49%)

Blue (0%)

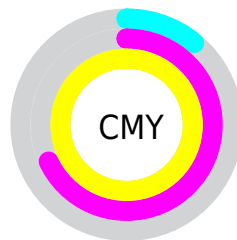


Cyan (0%)

Magenta (64%)

Yellow (100%)

Black (11%)



Cyan (11%)

Magenta (68%)


Yellow (100%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 22.2158, 0.5838, 0.3746 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 22.2158, 0.5838, 0.3746 by changing the saturation by 10% instead.





 22.2158, 0.5838,  
0.3746


 22.2158, 0.5838,  
0.3746


263.6712, 0.4445,  
0.3728

 14.0156, 0.6133,  
0.3652


 47.1024, 0.5358,  
0.3810


 8.1315, 0.6502,  
0.3498


 64.5576, 0.5167,  
0.3812


 4.1792, 0.6826,  
0.3174

 85.8665, 0.5002,  
0.3805

 1.7743, 0.7297,  
0.2703

 111.4135, 0.4859,  
0.3792

 0.4711, 0.8208,  
0.1792

 141.5831, 0.4735,  
0.3777


 0.0000, 1.0000,  
0.0000

 176.7597, 0.4626,


 0.0000, 0.0000,


0.3761

0.0000

 217.3276, 0.4530,  
0.3744


 22.2158, 0.5838,  
0.3746

 22.2158, 0.5838,  
0.3746


 22.2036, 0.5839,  
0.3746

 24.6878, 0.5592,  
0.3837

 27.7247, 0.5290,  
0.3884

 31.3759, 0.4951,  
0.3880

 35.6783, 0.4606,  
0.3834

 40.6650, 0.4277,  
0.3760

■ 46.3669, 0.3979,  
0.3669

■ 52.8125, 0.3715,  
0.3572

■ 60.0286, 0.3487,  
0.3474

■ 68.0409, 0.3292,  
0.3379

# Harmonies

## Analogous

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



22.2158, 0.5628, 0.2948



22.2158, 0.5838, 0.3746



22.2158, 0.5148, 0.4697

# Triad

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



22.2158, 0.5838, 0.3746



22.2158, 0.1730, 0.4759



22.2158, 0.1738, 0.1393

# Complementary

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



22.2158, 0.5838, 0.3746



26.1471, 0.1906, 0.2063

# 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.



22.2158, 0.1164, 0.1422



22.2158, 0.5838, 0.3746



22.2158, 0.1110, 0.2902

# Square

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



22.2158, 0.5838, 0.3746



22.2158, 0.2813, 0.6074



22.2158, 0.0965, 0.1836



22.2158, 0.2827, 0.1666



# Rectangle

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



22.2158, 0.5838, 0.3746



22.2158, 0.4425, 0.5397



22.2158, 0.0965, 0.1836



22.2158, 0.1497, 0.1368

# Sweetspot

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



22.2171, 0.5838, 0.3746



68.5257, 0.3721, 0.3574



18.4598, 0.4356, 0.2174



13.8817, 0.3829, 0.3616



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.



22.2171, 0.5838, 0.3746



28.7242, 0.5850, 0.3737



54.4598, 0.4489, 0.4818



15.2044, 0.3284, 0.3374



13.1490, 0.5812, 0.3767



1.1422, 0.5533, 0.3989

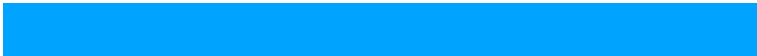


# Inverse Universe

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



26.1471, 0.1906, 0.2063



33.8086, 0.1904, 0.2054



6.7008, 0.1531, 0.0710



15.4267, 0.2981, 0.3204



15.4672, 0.1912, 0.2082



1.3168, 0.1966, 0.2278



# Previews

## White Background



This preview shows how the Yxy color 22.2158, 0.5838, 0.3746 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 22.2158, 0.5838, 0.3746 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 22.2158, 0.5838, 0.3746**

## Background



This preview shows how black text looks on a background with the Yxy color 22.2158, 0.5838, 0.3746.



This preview shows how white text looks on a background with the Yxy color 22.2158, 0.5838, 0.3746.

# 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

22.2158, 0.5838, 0.3746

### Protanopia

22.4975, 0.4331, 0.4799

### Deuteranopia

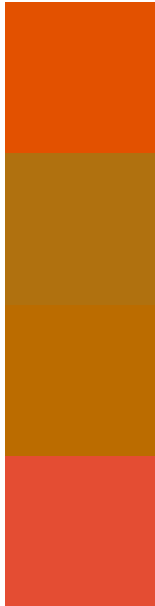
22.3078, 0.4697, 0.4653



## Tritanopia

22.2694, 0.5294, 0.3250

# Trichromacy



**Original Color**

22.2158, 0.5838, 0.3746

**Protanomaly**

21.0749, 0.4954, 0.4370

**Deuteranomaly**

21.2899, 0.5182, 0.4267

**Tritanomaly**

22.0408, 0.5611, 0.3509

# Monochromacy



**Original Color**

22.2158, 0.5838, 0.3746

**Achromatopsia**

17.1441, 0.3127, 0.3290

**Achromatomaly**

17.2495, 0.4334, 0.3782

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 22.2158, 0.5838, 0.3746 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(227, 81, 0)` looks like.

```
.text, #text, p{  
    color:rgb(227, 81, 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(227, 81, 0) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(227, 81, 0) }
```

## Border

The CSS property to change the border of an element to Yxy 22.2158, 0.5838, 0.3746 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(227, 81, 0) }
```

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

```
.border{ border-color:rgb(227, 81, 0) }
```

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

Here you see how a box with a 4 pixel `rgb(227, 81, 0)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(227, 81, 0); -webkit-box-  
shadow:4px 4px 4px 4px rgb(227, 81, 0);  
box-shadow:4px 4px 4px 4px rgb(227, 81, 0)  
}
```



# Background

The CSS property to change the background color of an element to  $\text{Yxy } 22.2158, 0.5838, 0.3746$  is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(227, 81, 0) }
```

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

```
.background{ background-color: rgb(227, 81,  
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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