

# Converting Colors

$Y_{xy}(38.0232, 0.5038, 0.4382)$

Have a look what the booklet for  
Yxy(38.0232, 0.5038, 0.4382)  
contains.

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# Color

**Yxy(38.0232, 0.5038, 0.4382)**

# Conversions

## Conversions Part 1

Format	Color
Hex	E89300
RGB	232, 147, 0
RGB Percent	91%, 58%, 0%
CMY	0.0901, 0.4235, 1.0000
CMYK	0.00, 0.37, 1.00, 0.09
HSL	38°, 100%, 45%
HSV	38°, 100%, 91%
XYZ	43.7154, 38.0232, 5.0327
YIQ	155.6570, 97.8470, -27.6970

# Conversions

## Conversions Part 2

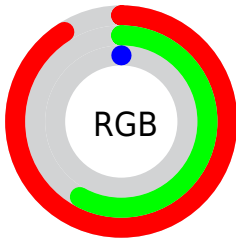
Format	Color
<b>RYB</b>	134, 232, 0
Decimal	15241984
CIELab	68.04, 23.72, 73.12
CIElCh	68, 76.869, 72.025
Yxy	38.0232, 0.5038, 0.4382
Android (android.graphics.Color)	4293432064 (0xFFE89300)
YUV	155.6570, -76.7389, 66.9528
Hunter-Lab	61.6630, 18.6358, 38.3250

# Details

The Yxy color **38.0232, 0.5038, 0.4382** 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 **12.3261, 0.1651, 0.1142**, and the grayscale version is **33.4020, 0.3127, 0.3290**.

A 20% lighter version of the original color is **63.5413, 0.4448, 0.4458**, and **16.9118, 0.5211, 0.4245** is the 20% darker color. If you saturate the color by 10%, you get **38.0253, 0.5038, 0.4382**, and if you desaturate by 10%, it is **40.8305, 0.4897, 0.4419**.

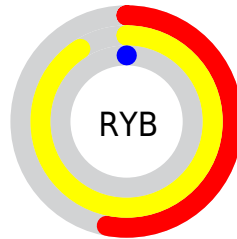
# Distribution



Red (91%)

Green (58%)

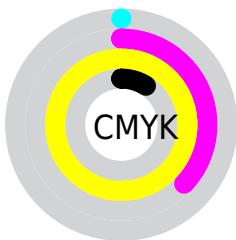
Blue (0%)



Red (53%)

Yellow (91%)

Blue (0%)

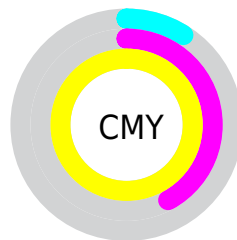


Cyan (0%)

Magenta (37%)

Yellow (100%)

Black (9%)



Cyan (9%)

Magenta (42%)


Yellow (100%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 38.0232, 0.5038, 0.4382 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 38.0232, 0.5038, 0.4382 by changing the saturation by 10% instead.




 38.0232, 0.5038,  
0.4382


 38.0232, 0.5038,  
0.4382


337.7195, 0.4150,  
0.3977

 26.0007, 0.5207,  
0.4418


 72.1437, 0.4750,  
0.4281


 16.8242, 0.5392,  
0.4430


 95.0105, 0.4630,  
0.4229


 10.1092, 0.5598,  
0.4402


 122.2608, 0.4524,  
0.4179

 5.4714, 0.5750,  
0.4250

 154.2791, 0.4431,  
0.4132

 2.5264, 0.5984,  
0.4016

 191.4497, 0.4348,  
0.4088


 0.8898, 0.6382,  
0.3618

 234.1570, 0.4275,


 0.0000, 1.0000,


0.4048


0.0000

 282.7855, 0.4209,  
0.4011


 0.0000, 0.0000,  
0.0000


 38.0232, 0.5038,  
0.4382

 38.0232, 0.5038,  
0.4382

 38.0253, 0.5038,  
0.4382

 40.8305, 0.4897,  
0.4419

 43.9102, 0.4725,  
0.4409

 47.2924, 0.4525,  
0.4348

 50.9947, 0.4308,  
0.4243

 55.0325, 0.4084,  
0.4106

■ 59.4199, 0.3864,  
0.3949

■ 64.1693, 0.3656,  
0.3781

■ 69.2928, 0.3462,  
0.3613

■ 74.8014, 0.3286,  
0.3447

# Harmonies

## Analogous

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



38.0232, 0.5330, 0.3615



38.0232, 0.5038, 0.4382



38.0232, 0.4253, 0.5125

# Triad

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



38.0232, 0.5038, 0.4382



38.0232, 0.1596, 0.3374



38.0232, 0.2639, 0.1864

# Complementary

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



38.0232, 0.5038, 0.4382



12.3261, 0.1651, 0.1142

# 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.



38.0232, 0.1835, 0.1696



38.0232, 0.5038, 0.4382



38.0232, 0.1328, 0.2338

# Square

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



38.0232, 0.5038, 0.4382



38.0232, 0.2279, 0.4717



38.0232, 0.1414, 0.1823



38.0232, 0.3779, 0.2290



# Rectangle

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



38.0232, 0.5038, 0.4382



38.0232, 0.3599, 0.5418



38.0232, 0.1414, 0.1823



38.0232, 0.2326, 0.1777

# Sweetspot

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



38.0253, 0.5038, 0.4382



79.4158, 0.3659, 0.3784



17.8150, 0.5548, 0.2830



16.4531, 0.3746, 0.3856



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.



38.0253, 0.5038, 0.4382



46.9472, 0.5043, 0.4378



70.1489, 0.3957, 0.5240



15.8826, 0.3277, 0.3439



21.3556, 0.5020, 0.4396



1.7538, 0.4868, 0.4517



# Inverse Universe

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



12.3261, 0.1651, 0.1142



15.1255, 0.1648, 0.1133



6.1172, 0.1544, 0.0624



14.7476, 0.2981, 0.3137



7.0618, 0.1659, 0.1171



0.6942, 0.1740, 0.1464



# Previews

## White Background



This preview shows how the Yxy color 38.0232, 0.5038, 0.4382 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 38.0232, 0.5038, 0.4382 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 38.0232, 0.5038, 0.4382**

## Background



This preview shows how black text looks on a background with the Yxy color 38.0232, 0.5038, 0.4382.



This preview shows how white text looks on a background with the Yxy color 38.0232, 0.5038, 0.4382.

# 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

38.0232, 0.5038, 0.4382

### Protanopia

38.3693, 0.4380, 0.4848

### Deuteranopia

38.1554, 0.4716, 0.4637



## Tritanopia

38.1750, 0.4122, 0.3181

# Trichromacy



## Original Color

38.0232, 0.5038, 0.4382

## Protanomaly

38.0031, 0.4622, 0.4680

## Deuteranomaly

38.0166, 0.4836, 0.4543

## Tritanomaly

37.6908, 0.4648, 0.3797

# Monochromacy



## Original Color

38.0232, 0.5038, 0.4382

## Achromatopsia

33.2452, 0.3127, 0.3290

## Achromatomaly

33.8737, 0.3984, 0.4039

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 38.0232, 0.5038, 0.4382 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(232, 147, 0)` looks like.

```
.text, #text, p{  
    color:rgb(232, 147, 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(232, 147, 0) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(232, 147, 0) }
```

## Border

The CSS property to change the border of an element to Yxy 38.0232, 0.5038, 0.4382 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(232, 147, 0) }
```

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

```
.border{ border-color:rgb(232, 147, 0) }
```

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

Here you see how a box with a 4 pixel `rgb(232, 147, 0)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(232, 147, 0); -webkit-box-  
shadow:4px 4px 4px 4px rgb(232, 147, 0);  
box-shadow:4px 4px 4px 4px rgb(232, 147,  
0) }
```



# Background

The CSS property to change the background color of an element to Yxy 38.0232, 0.5038, 0.4382 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(232, 147, 0) }
```

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

```
.background{ background-color: rgb(232,  
147, 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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