

# Converting Colors

$Y_{xy}(35.8358, 0.5470, 0.4039)$

Have a look what the booklet for  
Yxy(35.8358, 0.5470, 0.4039)  
contains.

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# **Color**

**Yxy(35.9272, 0.5465, 0.4042)**

# Conversions

## Conversions Part 1

Format	Color
Hex	FF7D00
RGB	255, 125, 0
RGB Percent	100%, 49%, 0%
CMY	0.0000, 0.5098, 0.9989
CMYK	0.00, 0.51, 1.00, 0.00
HSL	29°, 100%, 50%
HSV	29°, 100%, 100%
XYZ	48.5755, 35.9272, 4.3820
YIQ	149.6200, 117.6050, -11.3150

# Conversions

## Conversions Part 2

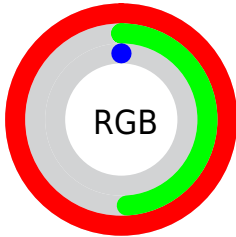
Format	Color
R <sub>Y</sub> B	255, 245, 0
Decimal	16743680
CIE Lab	66.46, 44.31, 73.64
CIE LCh	66, 85.943, 58.966
Yxy	35.9272, 0.5465, 0.4042
Android (android.graphics.Color)	4294933760 (0xFFFF7D00)
YUV	149.6200, -73.7627, 92.4183
Hunter-Lab	59.9393, 39.7647, 37.6230

# Details

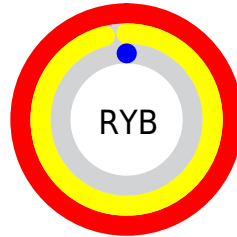
The Yxy color **35.9272, 0.5465, 0.4042** is a dark color, and the websafe version is hex **FF6600**. The color can be described as dark saturated orange. A complement of this color would be **23.2588, 0.1773, 0.1582**, and the grayscale version is **30.6249, 0.3127, 0.3290**.

A 20% lighter version of the original color is **53.9681, 0.4647, 0.4285**, and **15.7122, 0.5744, 0.3821** is the 20% darker color. If you saturate the color by 10%, you get **35.8930, 0.5467, 0.4041**, and if you desaturate by 10%, it is **39.5156, 0.5264, 0.4118**.

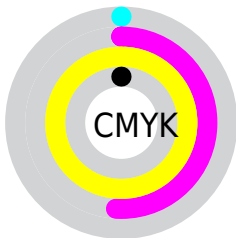
# Distribution



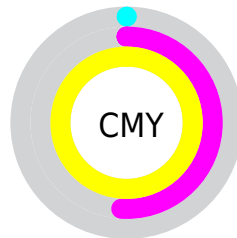
- Red (100%)
- Green (49%)
- Blue (0%)



- Red (100%)
- Yellow (96%)
- Blue (0%)



- Cyan (0%)
- Magenta (51%)
- Yellow (100%)
- Black (0%)




- Cyan (0%)
- Magenta (51%)
- Yellow (100%)

# Brightness & Saturation Gradients

These gradients show how the Yxy color 35.9272, 0.5465, 0.4042 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 35.9272, 0.5465, 0.4042 by changing the saturation by 10% instead.





 35.9272, 0.5465,  
0.4042


 35.9272, 0.5465,  
0.4042


328.6422, 0.4358,  
0.3854

 24.3780, 0.5682,  
0.4015


 68.9197, 0.5101,  
0.4029


 15.6142, 0.5933,  
0.3952


 91.1317, 0.4952,  
0.4007


 9.2516, 0.6192,  
0.3808

 117.6669, 0.4820,  
0.3982

 4.9057, 0.6456,  
0.3544

 148.9094, 0.4705,  
0.3956

 2.1920, 0.6845,  
0.3155

 185.2439, 0.4602,  
0.3929


 0.7156, 0.7492,  
0.2508

 227.0545, 0.4512,

 0.0000, 1.0000,

0.3903

0.0000


 274.7259, 0.4431,  
0.3878

 0.0000, 0.0000,  
0.0000


 35.9272, 0.5465,  
0.4042

 35.9272, 0.5465,  
0.4042


 35.8930, 0.5467,  
0.4041

 39.5156, 0.5264,  
0.4118

 43.6447, 0.5022,  
0.4142

 48.3595, 0.4750,  
0.4113

 53.6920, 0.4467,  
0.4038

 59.6706, 0.4188,  
0.3933

66.3211, 0.3927,  
0.3808

73.6679, 0.3688,  
0.3675

81.7336, 0.3476,  
0.3541

90.5397, 0.3289,  
0.3412

# Harmonies

## Analogous

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



35.9272, 0.5496, 0.3252



35.9272, 0.5465, 0.4042



35.9272, 0.4743, 0.4925

# Triad

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



35.9272, 0.5465, 0.4042



35.9272, 0.1679, 0.4052



35.9272, 0.2132, 0.1609

# Complementary

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



35.9272, 0.5465, 0.4042



23.2588, 0.1773, 0.1582

# 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.



35.9272, 0.1458, 0.1554



35.9272, 0.5465, 0.4042



35.9272, 0.1220, 0.2619

# Square

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



35.9272, 0.5465, 0.4042



35.9272, 0.2590, 0.5468



35.9272, 0.1171, 0.1836



35.9272, 0.3260, 0.1950



# Rectangle

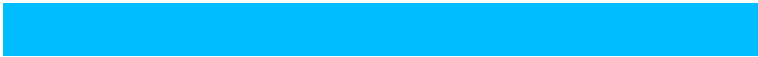
The Rectangle color scheme consists of four colors that form a rectangle on the color wheel.



35.9272, 0.5465, 0.4042



35.9272, 0.4065, 0.5467



35.9272, 0.1171, 0.1836



35.9272, 0.1858, 0.1558

# Sweetspot

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



35.9288, 0.5465, 0.4042



73.5854, 0.3691, 0.3677



22.9287, 0.4927, 0.2488



15.0695, 0.3788, 0.3733



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.



35.9288, 0.5465, 0.4042



35.8930, 0.5467, 0.4041



90.1017, 0.4223, 0.5029



19.4557, 0.3282, 0.3407



19.0518, 0.5441, 0.4062



2.0729, 0.5261, 0.4205



# Inverse Universe

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



23.2588, 0.1773, 0.1582



23.2213, 0.1772, 0.1580



7.3199, 0.1502, 0.0608



18.9105, 0.2979, 0.3171



12.4336, 0.1780, 0.1608



1.4293, 0.1837, 0.1811



# Previews

## White Background



This preview shows how the Yxy color 35.9272, 0.5465, 0.4042 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 35.9272, 0.5465, 0.4042 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 35.9272, 0.5465, 0.4042**

## **Background**



This preview shows how black text looks on a background with the Yxy color 35.9272, 0.5465, 0.4042.



This preview shows how white text looks on a background with the Yxy color 35.9272, 0.5465, 0.4042.

# 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

35.9272, 0.5465, 0.4042

### Protanopia

36.3235, 0.4359, 0.4830

### Deuteranopia

36.0903, 0.4718, 0.4636



## Tritanopia

35.9600, 0.4627, 0.3224

# Trichromacy



## Original Color

35.9272, 0.5465, 0.4042

## Protanomaly

35.0847, 0.4792, 0.4528

## Deuteranomaly

35.3329, 0.5014, 0.4401

## Tritanomaly

35.5139, 0.5112, 0.3666

# Monochromacy



## Original Color

35.9272, 0.5465, 0.4042

## Achromatopsia

30.4987, 0.3127, 0.3290

## Achromatomaly

30.5856, 0.4139, 0.3910

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 35.9272, 0.5465, 0.4042 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(255, 125, 0)` looks like.

```
.text, #text, p{  
    color:rgb(255, 125, 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(255, 125, 0) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(255, 125, 0) }
```

## Border

The CSS property to change the border of an element to Yxy 35.9272, 0.5465, 0.4042 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(255, 125, 0) }
```

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

```
.border{ border-color:rgb(255, 125, 0) }
```

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

Here you see how a box with a 4 pixel `rgb(255, 125, 0)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(255, 125, 0); -webkit-box-  
shadow:4px 4px 4px 4px rgb(255, 125, 0);  
box-shadow:4px 4px 4px 4px rgb(255, 125,  
0) }
```



# Background

The CSS property to change the background color of an element to Yxy 35.9272, 0.5465, 0.4042 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(255, 125, 0) }
```

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

```
.background{ background-color: rgb(255,  
125, 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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