

# Converting Colors

$Y_{xy}(37.2093, 0.5423, 0.4075)$

Have a look what the booklet for  
Yxy(37.2093, 0.5423, 0.4075)  
contains.

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# **Color**

**Yxy(36.9605, 0.5418, 0.4080)**

# Conversions

## Conversions Part 1

Format	Color
Hex	FF8100
RGB	255, 129, 0
RGB Percent	100%, 51%, 0%
CMY	0.0001, 0.4940, 0.9999
CMYK	0.00, 0.49, 1.00, 0.00
HSL	30°, 100%, 50%
HSV	30°, 100%, 100%
XYZ	49.0814, 36.9605, 4.5476
YIQ	151.9680, 116.5050, -13.4070

# Conversions

## Conversions Part 2

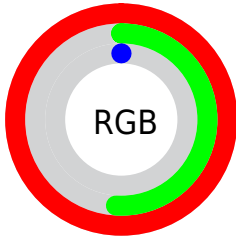
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	249, 255, 0
Decimal	16744704
CIE <sub>Lab</sub>	67.25, 42.32, 74.14
CIE <sub>LCh</sub>	67, 85.365, 60.284
Yxy	36.9605, 0.5418, 0.4080
Android (android.graphics.Color)	4294934784 (0xFFFF8100)
YUV	151.9680, -74.9202, 90.3591
Hunter-Lab	60.7951, 37.7158, 38.1216

# Details

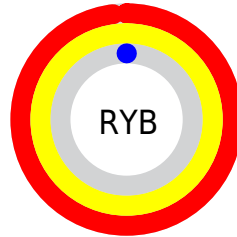
The Yxy color **36.9605, 0.5418, 0.4080** is a dark color, and the websafe version is hex **FF9900**. The color can be described as dark saturated orange. A complement of this color would be **22.1288, 0.1757, 0.1525**, and the grayscale version is **31.6815, 0.3127, 0.3290**.

A 20% lighter version of the original color is **55.6080, 0.4607, 0.4314**, and **16.3841, 0.5691, 0.3863** is the 20% darker color. If you saturate the color by 10%, you get **36.9595, 0.5418, 0.4080**, and if you desaturate by 10%, it is **40.5610, 0.5224, 0.4153**.

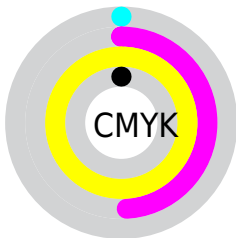
# Distribution



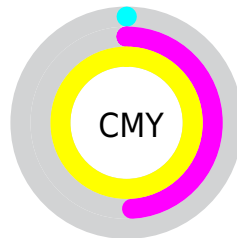
- Red (100%)
- Green (51%)
- Blue (0%)



- Red (98%)
- Yellow (100%)
- Blue (0%)



- Cyan (0%)
- Magenta (49%)
- Yellow (100%)
- Black (0%)




- Cyan (0%)
- Magenta (49%)
- Yellow (100%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 36.9605, 0.5418, 0.4080 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 36.9605, 0.5418, 0.4080 by changing the saturation by 10% instead.




 36.9605, 0.5418,  
0.4080


 36.9605, 0.5418,  
0.4080


333.1395, 0.4340,  
0.3870

 25.1769, 0.5628,  
0.4060


 70.5120, 0.5065,  
0.4058

 16.2089, 0.5869,  
0.4005

 93.0488, 0.4919,  
0.4033


 9.6721, 0.6123,  
0.3877


 119.9387, 0.4791,  
0.4005

 5.1821, 0.6371,  
0.3629

 151.5661, 0.4678,  
0.3977

 2.3545, 0.6738,  
0.3262

 188.3155, 0.4578,  
0.3948

 0.8023, 0.7329,  
0.2671

 230.5713, 0.4490,


 0.0000, 1.0000,


0.3921


0.0000


 278.7178, 0.4411,  
0.3895

 0.0000, 0.0000,  
0.0000

 36.9605, 0.5418,  
0.4080


 36.9605, 0.5418,  
0.4080


 36.9595, 0.5418,  
0.4080

 40.5610, 0.5224,  
0.4153

 44.6770, 0.4991,  
0.4174

 49.3524, 0.4727,  
0.4141

 54.6179, 0.4451,  
0.4064

 60.5005, 0.4179,  
0.3954

67.0248, 0.3922,  
0.3826

74.2138, 0.3687,  
0.3689

82.0890, 0.3476,  
0.3551

90.6708, 0.3290,  
0.3417

# Harmonies

## Analogous

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



36.9605, 0.5479, 0.3291



36.9605, 0.5418, 0.4080



36.9605, 0.4690, 0.4952

# Triad

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



36.9605, 0.5418, 0.4080



36.9605, 0.1670, 0.3970



36.9605, 0.2185, 0.1636

# Complementary

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



36.9605, 0.5418, 0.4080



22.1288, 0.1757, 0.1525

# 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.



36.9605, 0.1497, 0.1570



36.9605, 0.5418, 0.4080



36.9605, 0.1232, 0.2585

# Square

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



36.9605, 0.5418, 0.4080



36.9605, 0.2557, 0.5387



36.9605, 0.1197, 0.1835



36.9605, 0.3317, 0.1987



# Rectangle

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



36.9605, 0.5418, 0.4080



36.9605, 0.4016, 0.5470



36.9605, 0.1197, 0.1835



36.9605, 0.1907, 0.1582

# Sweetspot

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



36.9625, 0.5418, 0.4080



74.2291, 0.3687, 0.3689



22.7993, 0.5001, 0.2529



15.2215, 0.3783, 0.3747



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.



36.9625, 0.5418, 0.4080



36.9704, 0.5418, 0.4080



92.7522, 0.4193, 0.5053



19.5064, 0.3282, 0.3410



19.6172, 0.5393, 0.4100



2.1287, 0.5219, 0.4238



# Inverse Universe

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



22.1288, 0.1757, 0.1525



22.1321, 0.1757, 0.1525



7.2185, 0.1500, 0.0600



18.8597, 0.2979, 0.3167



11.8622, 0.1765, 0.1554



1.3731, 0.1823, 0.1761



# Previews

## White Background



This preview shows how the Yxy color 36.9605, 0.5418, 0.4080 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 36.9605, 0.5418, 0.4080 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 36.9605, 0.5418, 0.4080**

## Background



This preview shows how black text looks on a background with the Yxy color 36.9605, 0.5418, 0.4080.



This preview shows how white text looks on a background with the Yxy color 36.9605, 0.5418, 0.4080.

# 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

36.9605, 0.5418, 0.4080

### Protanopia

37.2825, 0.4360, 0.4837

### Deuteranopia

37.0423, 0.4713, 0.4640



## Tritanopia

37.0376, 0.4556, 0.3224

# Trichromacy



**Original Color**

36.9605, 0.5418, 0.4080

**Protanomaly**

36.1898, 0.4767, 0.4553

**Deuteranomaly**

36.4051, 0.4985, 0.4424

**Tritanomaly**

36.5518, 0.5050, 0.3682

# Monochromacy



**Original Color**

36.9605, 0.5418, 0.4080

**Achromatopsia**

31.3989, 0.3127, 0.3290

**Achromatomaly**

31.6284, 0.4118, 0.3933

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 36.9605, 0.5418, 0.4080 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, 129, 0)` looks like.

```
.text, #text, p{  
    color:rgb(255, 129, 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, 129, 0) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(255, 129, 0) }
```

## Border

The CSS property to change the border of an element to Yxy 36.9605, 0.5418, 0.4080 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, 129, 0) }
```

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

```
.border{ border-color:rgb(255, 129, 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, 129, 0)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(255, 129, 0); -webkit-box-  
shadow:4px 4px 4px 4px rgb(255, 129, 0);  
box-shadow:4px 4px 4px 4px rgb(255, 129,  
0) }
```



# Background

The CSS property to change the background color of an element to Yxy 36.9605, 0.5418, 0.4080 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(255, 129, 0) }
```

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

```
.background{ background-color: rgb(255,  
129, 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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