

# Converting Colors

$Y_{xy}(37.7143, 0.5385, 0.4106)$

Have a look what the booklet for  
Yxy(37.7143, 0.5385, 0.4106)  
contains.

<b>Yxy(37.7625, 0.5383, 0.4108)</b> .....	3
<b>Conversions</b> .....	4
<b>Details</b> .....	6
<b>Harmonies</b> .....	12
<b>Previews</b> .....	24
<b>Color Blindness Simulation</b> .....	27
<b>CSS Examples</b> .....	30

# Color

**Yxy(37.7625, 0.5383, 0.4108)**

# Conversions

## Conversions Part 1

Format	Color
Hex	FF8400
RGB	255, 132, 0
RGB Percent	100%, 52%, 0%
CMY	0.0001, 0.4822, 1.0000
CMYK	0.00, 0.48, 1.00, 0.00
HSL	31°, 100%, 50%
HSV	31°, 100%, 100%
XYZ	49.4828, 37.7625, 4.6789
YIQ	153.7290, 115.6800, -14.9760

# Conversions

## Conversions Part 2

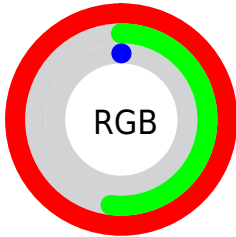
Format	Color
R <sub>Y</sub> B	238, 255, 0
Decimal	16745472
CIE Lab	67.85, 40.83, 74.51
CIE LCh	68, 84.961, 61.278
Yxy	37.7625, 0.5383, 0.4108
Android (android.graphics.Color)	4294935552 (0xFFFF8400)
YUV	153.7290, -75.7884, 88.8147
Hunter-Lab	61.4512, 36.1954, 38.5014

# Details

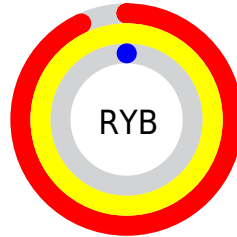
The Yxy color **37.7625, 0.5383, 0.4108** is a dark color, and the websafe version is hex **FF9900**. The color can be described as dark saturated orange. A complement of this color would be **21.3691, 0.1746, 0.1485**, and the grayscale version is **32.4938, 0.3127, 0.3290**.

A 20% lighter version of the original color is **56.8589, 0.4581, 0.4341**, and **16.8137, 0.5647, 0.3898** is the 20% darker color. If you saturate the color by 10%, you get **37.7647, 0.5383, 0.4108**, and if you desaturate by 10%, it is **41.3712, 0.5194, 0.4178**.

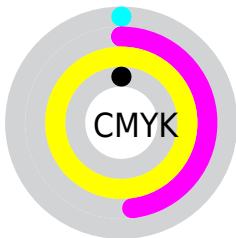
# Distribution



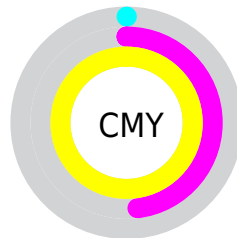
- Red (100%)
- Green (52%)
- Blue (0%)



- Red (93%)
- Yellow (100%)
- Blue (0%)



- Cyan (0%)
- Magenta (48%)
- Yellow (100%)
- Black (0%)




- Cyan (0%)
- Magenta (48%)
- Yellow (100%)

# Brightness & Saturation Gradients

These gradients show how the Yxy color 37.7625, 0.5383, 0.4108 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 37.7625, 0.5383, 0.4108 by changing the saturation by 10% instead.




 37.7625, 0.5383,  
0.4108


 37.7625, 0.5383,  
0.4108


336.6001, 0.4326,  
0.3881


 25.7984, 0.5588,  
0.4094


 71.7440, 0.5037,  
0.4079


 16.6729, 0.5821,  
0.4044


 94.5301, 0.4895,  
0.4052


 10.0015, 0.6072,  
0.3928


 121.6924, 0.4769,  
0.4022

 5.4000, 0.6309,  
0.3691

 153.6153, 0.4658,  
0.3992

 2.4838, 0.6659,  
0.3341

 190.6831, 0.4560,  
0.3962


 0.8685, 0.7217,  
0.2783

 233.2802, 0.4473,

 0.0000, 1.0000,

0.3934

0.0000


 281.7911, 0.4395,  
0.3907

 0.0000, 0.0000,  
0.0000

 37.7625, 0.5383,  
0.4108

 37.7625, 0.5383,  
0.4108


 37.7647, 0.5383,  
0.4108

 41.3712, 0.5194,  
0.4178

 45.4778, 0.4966,  
0.4197

 50.1258, 0.4709,  
0.4161

 55.3446, 0.4438,  
0.4081

 61.1603, 0.4171,  
0.3969

67.5967, 0.3917,  
0.3838

74.6759, 0.3684,  
0.3698

82.4188, 0.3475,  
0.3557

90.8448, 0.3290,  
0.3420

# Harmonies

## Analogous

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



37.7625, 0.5466, 0.3321



37.7625, 0.5383, 0.4108



37.7625, 0.4650, 0.4970

# Triad

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



37.7625, 0.5383, 0.4108



37.7625, 0.1664, 0.3910



37.7625, 0.2225, 0.1657

# Complementary

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



37.7625, 0.5383, 0.4108



21.3691, 0.1746, 0.1485

# 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.



37.7625, 0.1527, 0.1582



37.7625, 0.5383, 0.4108



37.7625, 0.1242, 0.2560

# Square

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



37.7625, 0.5383, 0.4108



37.7625, 0.2532, 0.5325



37.7625, 0.1217, 0.1834



37.7625, 0.3360, 0.2014



# Rectangle

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



37.7625, 0.5383, 0.4108



37.7625, 0.3979, 0.5470



37.7625, 0.1217, 0.1834



37.7625, 0.1944, 0.1600

# Sweetspot

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



37.7647, 0.5383, 0.4108



74.6962, 0.3684, 0.3698



22.6901, 0.5073, 0.2568



15.3319, 0.3780, 0.3757



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.



37.7647, 0.5383, 0.4108



37.7748, 0.5383, 0.4108



91.9577, 0.4164, 0.5076



19.5431, 0.3281, 0.3413



20.0389, 0.5358, 0.4128



2.1700, 0.5189, 0.4262



# Inverse Universe

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



21.3691, 0.1746, 0.1485



21.3747, 0.1746, 0.1485



7.2454, 0.1504, 0.0602



18.8232, 0.2979, 0.3164



11.4644, 0.1754, 0.1515



1.3337, 0.1813, 0.1725



# Previews

## White Background



This preview shows how the Yxy color 37.7625, 0.5383, 0.4108 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 37.7625, 0.5383, 0.4108 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 37.7625, 0.5383, 0.4108**

## **Background**



This preview shows how black text looks on a background with the Yxy color 37.7625, 0.5383, 0.4108.



This preview shows how white text looks on a background with the Yxy color 37.7625, 0.5383, 0.4108.

# 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

37.7625, 0.5383, 0.4108

### Protanopia

37.8952, 0.4370, 0.4831

### Deuteranopia

37.6693, 0.4719, 0.4635



## Tritanopia

37.8752, 0.4504, 0.3223

# Trichromacy



## Original Color

37.7625, 0.5383, 0.4108

## Protanomaly

37.1400, 0.4761, 0.4559

## Deuteranomaly

37.3486, 0.4977, 0.4430

## Tritanomaly

37.3542, 0.5005, 0.3695

# Monochromacy



## Original Color

37.7625, 0.5383, 0.4108

## Achromatopsia

32.3143, 0.3127, 0.3290

## Achromatomaly

32.5160, 0.4116, 0.3940

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 37.7625, 0.5383, 0.4108 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, 132, 0)` looks like.

```
.text, #text, p{  
    color:rgb(255, 132, 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, 132, 0) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(255, 132, 0) }
```

## Border

The CSS property to change the border of an element to Yxy 37.7625, 0.5383, 0.4108 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, 132, 0) }
```

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

```
.border{ border-color:rgb(255, 132, 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, 132, 0)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(255, 132, 0); -webkit-box-  
shadow:4px 4px 4px 4px rgb(255, 132, 0);  
box-shadow:4px 4px 4px 4px rgb(255, 132,  
0) }
```



# Background

The CSS property to change the background color of an element to Yxy 37.7625, 0.5383, 0.4108 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(255, 132, 0) }
```

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

```
.background{ background-color: rgb(255,  
132, 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](#).

Hey! You found this booklet interesting? Support Converting Colors with the new Membership Option!

The pro membership hides all ads, plus gives you double the colors in the color bucket, and more awesome pro features!

**[Learn more, Memberships starting at \\$2.50/m!](#)**

**Follow me  
on Twitter!**

@ConvertingColor