

# Converting Colors

$Y_{xy}(46.0726, 0.4890, 0.4144)$

Have a look what the booklet for  
Yxy(46.0726, 0.4890, 0.4144)  
contains.

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# Color

**Yxy(46.0726, 0.4890, 0.4144)**

# Conversions

## Conversions Part 1

Format	Color
Hex	FF9E3F
RGB	255, 158, 63
RGB Percent	100%, 62%, 25%
CMY	0.0000, 0.3804, 0.7527
CMYK	0.00, 0.38, 0.75, 0.00
HSL	30°, 100%, 62%
HSV	30°, 75%, 100%
XYZ	54.3666, 46.0726, 10.7399
YIQ	176.1730, 88.3070, -8.9810

# Conversions

## Conversions Part 2

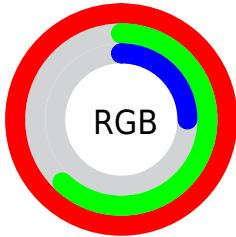
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	255, 251, 63
Decimal	16752191
CIE <sub>Lab</sub>	73.59, 28.88, 62.06
CIE <sub>LCh</sub>	74, 68.451, 65.049
Yxy	46.0726, 0.4890, 0.4144
Android (android.graphics.Color)	4294942271 (0xFFFF9E3F)
YUV	176.1730, -55.7943, 69.1313
Hunter-Lab	67.8768, 24.1868, 38.1325

# Details

The Yxy color **46.0726, 0.4890, 0.4144** is a light color, and the websafe version is hex **FF9933**. The color can be described as light washed orange. A complement of this color would be **33.4438, 0.1975, 0.2021**, and the grayscale version is **43.7779, 0.3127, 0.3290**.

A 20% lighter version of the original color is **70.1095, 0.4139, 0.4255**, and **21.6455, 0.5267, 0.4200** is the 20% darker color. If you saturate the color by 10%, you get **41.6835, 0.5146, 0.4147**, and if you desaturate by 10%, it is **51.0584, 0.4613, 0.4091**.

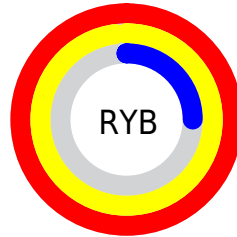
# Distribution



Red (100%)

Green (62%)

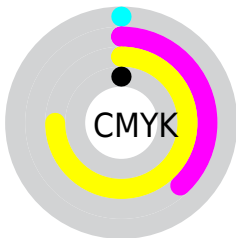
Blue (25%)



Red (100%)

Yellow (98%)

Blue (25%)

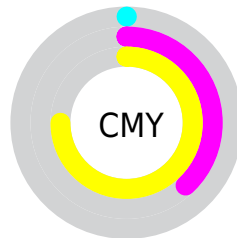


Cyan (0%)

Magenta (38%)

Yellow (75%)

Black (0%)



Cyan (0%)

Magenta (38%)

Yellow (75%)

# Brightness & Saturation Gradients

These gradients show how the Yxy color 46.0726, 0.4890, 0.4144 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 46.0726, 0.4890, 0.4144 by changing the saturation by 10% instead.





 46.0726, 0.4890,  
0.4144


 46.0726, 0.4890,  
0.4144


371.1004, 0.4053,  
0.3821

 32.3031, 0.5068,  
0.4184


 84.3276, 0.4606,  
0.4056


 21.5931, 0.5273,  
0.4211


 109.5820, 0.4493,  
0.4014


 13.5582, 0.5507,  
0.4209


 139.4334, 0.4395,  
0.3975

 7.8141, 0.5816,  
0.4184

 174.2663, 0.4309,  
0.3939

 3.9762, 0.6030,  
0.3970

 214.4650, 0.4233,  
0.3905

 1.6603, 0.6368,  
0.3632

260.4141, 0.4166,

 0.3977, 0.7356,

0.3874

0.2644

312.4977, 0.4106,  
0.3846

■ 0.0000, 1.0000,  
0.0000

■ 0.0000, 0.0000,  
0.0000

■ 46.0726, 0.4890,  
0.4144

■ 46.0726, 0.4890,  
0.4144

■ 41.6835, 0.5146,  
0.4147

■ 51.0584, 0.4613,  
0.4091

■ 37.8514, 0.5362,  
0.4093

■ 56.6650, 0.4332,  
0.3999

■ 36.2148, 0.5452,  
0.4053

■ 62.9210, 0.4062,  
0.3882

■ 69.8512, 0.3812,  
0.3751

77.4785, 0.3586,  
0.3616

85.8248, 0.3386,  
0.3482

94.9107, 0.3210,  
0.3354

100.0000, 0.3127,  
0.3290

# Harmonies

## Analogous

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



46.0726, 0.4958, 0.3474



46.0726, 0.4890, 0.4144



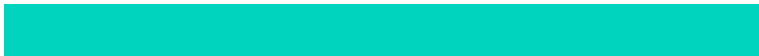
46.0726, 0.4325, 0.4770

# Triad

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



46.0726, 0.4890, 0.4144



46.0726, 0.1928, 0.3634



46.0726, 0.2529, 0.1989

# Complementary

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



46.0726, 0.4890, 0.4144



33.4438, 0.1975, 0.2021

# 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.



46.0726, 0.1894, 0.1902



46.0726, 0.4890, 0.4144



46.0726, 0.1586, 0.2671

# Square

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



46.0726, 0.4890, 0.4144



46.0726, 0.2617, 0.4657



46.0726, 0.1584, 0.2104



46.0726, 0.3451, 0.2322



# Rectangle

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



46.0726, 0.4890, 0.4144



46.0726, 0.3788, 0.5036



46.0726, 0.1584, 0.2104



46.0726, 0.2281, 0.1931

# Sweetspot

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



46.0744, 0.4890, 0.4144



79.3066, 0.3538, 0.3585



27.4397, 0.4348, 0.2407



16.3550, 0.3615, 0.3634



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.



46.0744, 0.4890, 0.4144



39.8023, 0.5254, 0.4128



91.1156, 0.4128, 0.4892



19.4710, 0.3282, 0.3408



19.2208, 0.5426, 0.4073



2.0896, 0.5248, 0.4215



# Inverse Universe

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



33.4438, 0.1975, 0.2021



26.6258, 0.1835, 0.1741



12.2070, 0.1697, 0.0938



18.8951, 0.2979, 0.3169



12.2580, 0.1776, 0.1592



1.4121, 0.1832, 0.1796



# Previews

## White Background



This preview shows how the Yxy color 46.0726, 0.4890, 0.4144 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 46.0726, 0.4890, 0.4144 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 46.0726, 0.4890, 0.4144**

## **Background**



This preview shows how black text looks on a background with the Yxy color 46.0726, 0.4890, 0.4144.



This preview shows how white text looks on a background with the Yxy color 46.0726, 0.4890, 0.4144.

# 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

46.0726, 0.4890, 0.4144

### Protanopia

46.4547, 0.4170, 0.4591

### Deuteranopia

46.1517, 0.4544, 0.4441



## Tritanopia

45.9664, 0.4073, 0.3188

# Trichromacy



**Original Color**

46.0726, 0.4890, 0.4144

**Protanomaly**

45.6645, 0.4438, 0.4427

**Deuteranomaly**

45.9682, 0.4673, 0.4334

**Tritanomaly**

45.8519, 0.4427, 0.3593

# Monochromacy



**Original Color**

46.0726, 0.4890, 0.4144

**Achromatopsia**

43.4154, 0.3127, 0.3290

**Achromatomaly**

43.1043, 0.3778, 0.3723

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 46.0726, 0.4890, 0.4144 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, 158, 63)` looks like.

```
.text, #text, p{  
    color:rgb(255, 158, 63)  
}
```

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, 158, 63) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(255, 158, 63) }
```

## Border

The CSS property to change the border of an element to Yxy 46.0726, 0.4890, 0.4144 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, 158, 63) }
```

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

```
.border{ border-color:rgb(255, 158, 63) }
```

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

Here you see how a box with a 4 pixel `rgb(255, 158, 63)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(255, 158, 63); -webkit-box-  
shadow:4px 4px 4px 4px rgb(255, 158, 63);  
box-shadow:4px 4px 4px 4px rgb(255, 158,  
63) }
```



# Background

The CSS property to change the background color of an element to Yxy 46.0726, 0.4890, 0.4144 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(255, 158, 63) }
```

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

```
.background{ background-color: rgb(255,  
158, 63) }
```

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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