

# Converting Colors

XYZ(74.7165, 48.3526, 10.4353)

Have a look what the booklet for  
XYZ(74.7165, 48.3526, 10.4353)  
contains.

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# Color

**XYZ(48.9106, 35.0746,  
9.1932)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	FF7841
RGB	255, 120, 65
RGB Percent	100%, 47%, 25%
CMY	0.0000, 0.5294, 0.7451
CMYK	0.00, 0.53, 0.75, 0.00
HSL	17°, 100%, 63%
HSV	17°, 75%, 100%
XYZ	48.9106, 35.0746, 9.1932
YIQ	154.0950, 98.1150, 11.5150

# Conversions

## Conversions Part 2

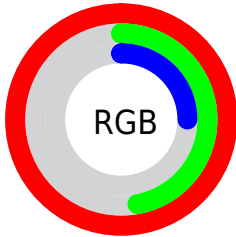
<b>Format</b>	<b>Color</b>
R <sub>Y</sub> B	255, 142, 65
Decimal	16742465
CIE Lab	65.81, 48.06, 53.31
CIE LCh	66, 71.772, 47.963
Yxy	35.0746, 0.5249, 0.3764
Android (android.graphics.Color)	4294932545 (0xFFFF7841)
YUV	154.0950, -43.9238, 88.4937
Hunter-Lab	59.2238, 43.7744, 32.2532

# Details

The XYZ color **48.9106, 35.0746, 9.1932** is a dark color, and the websafe version is hex **FF6633**. The color can be described as middle washed orange. A complement of this color would be **40.8824, 49.6487, 102.0355**, and the grayscale version is **30.9148, 32.5247, 35.4194**.

A 20% lighter version of the original color is **59.7224, 53.1809, 23.6402**, and **23.5657, 15.1197, 2.0571** is the 20% darker color. If you saturate the color by 10%, you get **46.3550, 30.8911, 5.4827**, and if you desaturate by 10%, it is **52.2132, 40.2197, 14.7964**.

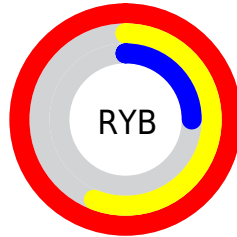
# Distribution



Red (100%)

Green (47%)

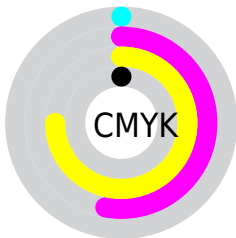
Blue (25%)



Red (100%)

Yellow (56%)

Blue (25%)

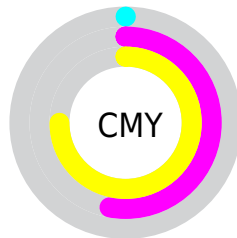


Cyan (0%)

Magenta (53%)

Yellow (75%)

Black (0%)



Cyan (0%)

Magenta (53%)


Yellow (75%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 48.9106, 35.0746, 9.1932 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 XYZ color 48.9106, 35.0746, 9.1932 by changing the saturation by 10% instead.





 48.9106, 35.0746,  
9.1932


 48.9106, 35.0746,  
9.1932


372.9131,  
324.8975, 195.0835


 34.7628, 23.7203,  
4.7689


 87.7602, 67.6013,  
24.8501

 23.6459, 15.1263,  
2.0559


 113.1927, 89.5426,  
36.9199

 15.1945, 8.9081,  
0.5894


 143.1175,  
115.7816, 52.3751

 9.0432, 4.6813,  
0.0000

 177.8999,  
146.7028, 71.6345

 4.8267, 2.0615,  
0.0000

 217.9053,  
182.6907, 95.1164

 2.1796, 0.6428,  
0.0000

263.4991,

 0.7320, 0.0000,

224.1294, 123.2396

0.0000

315.0465,  
271.4036, 156.4224

■ 0.0000, 0.0000,  
0.0000

■ 48.9106, 35.0746,  
9.1932

■ 48.9106, 35.0746,  
9.1932

■ 46.3550, 30.8911,  
5.4827

■ 52.2132, 40.2197,  
14.7964

■ 44.4718, 27.5972,  
3.3984

■ 56.3215, 46.3795,  
22.5071

■ 43.6769, 26.1342,  
2.7424

■ 61.2906, 53.6095,  
32.5126

■ 67.1696, 61.9594,  
44.9790

■ 74.0036, 71.4755,  
60.0566

81.8346, 82.2015,  
77.8837

90.7019, 94.1788,  
98.5890

95.0497, 99.9998,  
108.9000

# Harmonies

## Analogous

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



56.6930, 35.0746, 22.8845



48.9106, 35.0746, 9.1932



37.7654, 35.0746, 4.8410

# Triad

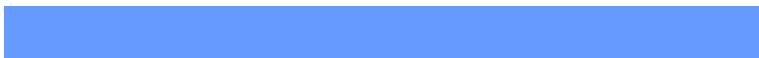
The Triadic color harmony groups three colors that are evenly spaced from another and form a triangle on the color wheel.



48.9106, 35.0746, 9.1932



17.1286, 35.0746, 27.2767



40.0177, 35.0746, 124.8242

# Complementary

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



48.9106, 35.0746, 9.1932



40.8824, 49.6487, 102.0355

# 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.



29.2697, 35.0746, 128.2914



48.9106, 35.0746, 9.1932



17.4803, 35.0746, 59.1392

# Square

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



48.9106, 35.0746, 9.1932



20.3887, 35.0746, 10.9429



21.4798, 35.0746, 99.9162



50.8572, 35.0746, 92.0409



# Rectangle

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



48.9106, 35.0746, 9.1932



30.5961, 35.0746, 4.6616



21.4798, 35.0746, 99.9162



36.2377, 35.0746, 129.9125

# Sweetspot

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



48.9114, 35.0765, 9.1938



75.8737, 74.0520, 64.2665



53.6923, 29.2655, 58.1800



15.8082, 15.2550, 12.7835



0.0000, 0.0000, 0.0000



20.3446, 21.4041, 23.3091



# Same Dimension

The Same Dimension uses a secret algorithm to generate beautiful new colors.



48.9114, 35.0765, 9.1938



45.4312, 29.3060, 4.3639



66.1982, 69.6502, 14.9561



18.4377, 18.8436, 18.8097



22.9326, 13.8764, 1.4697



2.3219, 1.5292, 0.1728

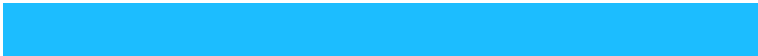


# Inverse Universe

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



40.8824, 49.6487, 102.0355



36.7913, 43.9897, 101.1595



25.4013, 18.6865, 96.8751



18.0845, 19.5407, 23.0685



18.2188, 21.3472, 52.5948



1.8679, 2.2666, 5.1523



# Previews

## White Background



This preview shows how the XYZ color 48.9106, 35.0746, 9.1932 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 XYZ color 48.9106, 35.0746, 9.1932 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](#).

**XYZ 48.9106, 35.0746, 9.1932**

## **Background**



This preview shows how black text looks on a background with the XYZ color 48.9106, 35.0746, 9.1932.



This preview shows how white text looks on a background with the XYZ color 48.9106, 35.0746,



# 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

48.9106, 35.0746, 9.1932

### Protanopia

32.0418, 35.0245, 12.0928

### Deuteranopia

35.7862, 35.0312, 8.7465



## Tritanopia

51.0605, 35.1808, 22.8383

# Trichromacy



**Original Color**

48.9106, 35.0746, 9.1932

**Protanomaly**

36.5048, 33.7110, 10.8862

**Deuteranomaly**

39.7089, 34.2981, 8.8023

**Tritanomaly**

49.9996, 34.9419, 16.6796

# Monochromacy



**Original Color**

48.9106, 35.0746, 9.1932

**Achromatopsia**

30.7148, 32.3143, 35.1903

**Achromatomaly**

34.6717, 31.8275, 22.7283

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 48.9106, 35.0746, 9.1932 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, 120, 65)` looks like.

```
.text, #text, p{  
    color:rgb(255, 120, 65)  
}
```

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, 120, 65) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(255, 120, 65) }
```

## Border

The CSS property to change the border of an element to XYZ 48.9106, 35.0746, 9.1932 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, 120, 65) }
```



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

```
.border{ border-color:rgb(255, 120, 65) }
```

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

Here you see how a box with a 4 pixel `rgb(255, 120, 65)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(255, 120, 65); -webkit-box-  
shadow:4px 4px 4px 4px rgb(255, 120, 65);  
box-shadow:4px 4px 4px 4px rgb(255, 120,  
65) }
```

# Background

The CSS property to change the background color of an element to XYZ 48.9106, 35.0746, 9.1932 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(255, 120, 65) }
```

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

```
.background{ background-color: rgb(255,  
120, 65) }
```

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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