

# Converting Colors

XYZ(48.4879, 40.7111, 6.8365)

Have a look what the booklet for  
XYZ(48.4879, 40.7111, 6.8365)  
contains.

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# Color

**XYZ(48.5348, 40.7078,  
6.8127)**

# Conversions

## Conversions Part 1

Format	Color
Hex	F59422
RGB	245, 148, 34
RGB Percent	96%, 58%, 13%
CMY	0.0392, 0.4196, 0.8666
CMYK	0.00, 0.40, 0.86, 0.04
HSL	32°, 91%, 55%
HSV	32°, 86%, 96%
XYZ	48.5348, 40.7078, 6.8127
YIQ	164.0070, 94.4060, -14.8900

# Conversions

## Conversions Part 2

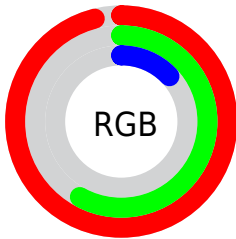
Format	Color
R <sub>Y</sub> B	214, 245, 34
Decimal	16094242
CIE Lab	69.97, 29.08, 68.83
CIE LCh	70, 74.718, 67.094
Yxy	40.7078, 0.5053, 0.4238
Android (android.graphics.Color)	4294284322 (0xFFFF59422)
YUV	164.0070, -64.0935, 71.0309
Hunter-Lab	63.8027, 24.1306, 38.3310

# Details

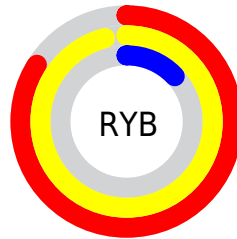
The XYZ color **48.5348, 40.7078, 6.8127** is a dark color, and the websafe version is hex **FF9933**. The color can be described as middle washed orange. A complement of this color would be **25.2570, 23.1644, 89.5254**, and the grayscale version is **35.5553, 37.4070, 40.7362**.

A 20% lighter version of the original color is **64.2489, 64.2564, 18.9140**, and **23.5661, 18.4945, 2.3277** is the 20% darker color. If you saturate the color by 10%, you get **46.6174, 37.2520, 5.0063**, and if you desaturate by 10%, it is **50.8770, 44.6121, 10.0001**.

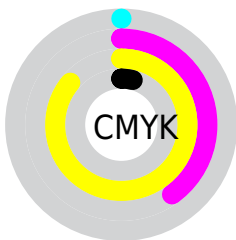
# Distribution



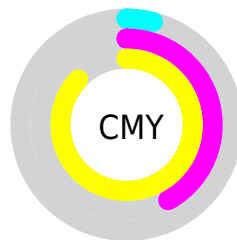
- Red (96%)
- Green (58%)
- Blue (13%)



- Red (84%)
- Yellow (96%)
- Blue (13%)



- Cyan (0%)
- Magenta (40%)
- Yellow (86%)
- Black (4%)




- Cyan (4%)
- Magenta (42%)
- Yellow (87%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 48.5348, 40.7078, 6.8127 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 48.5348, 40.7078, 6.8127 by changing the saturation by 10% instead.





 48.5348, 40.7078,  
6.8127


 48.5348, 40.7078,  
6.8127


371.4555,  
349.0979, 175.6696

 34.4636, 28.0908,  
3.2686


 87.2050, 76.2401,  
20.1018


 23.4146, 18.3941,  
1.2334


 112.5348, 99.9243,  
30.6839

 15.0223, 11.2333,  
0.0062


 142.3481,  
128.0663, 44.4490

 8.9214, 6.2240,  
0.0000

 177.0103,  
161.0505, 61.8158

 4.7467, 2.9818,  
0.0000

 216.8868,  
199.2614, 83.2027

 2.1326, 1.1222,  
0.0000

 262.3429,

 0.7069, 0.0000,

243.0833, 109.0283

0.0000

313.7440,  
292.9007, 139.7111

■ 0.0000, 0.0000,  
0.0000

■ 48.5348, 40.7078,  
6.8127

■ 48.5348, 40.7078,  
6.8127

■ 46.6174, 37.2520,  
5.0063

■ 50.8770, 44.6121,  
10.0001


■ 45.9581, 36.0169,  
4.5297


■ 53.6920, 48.9862,  
14.8100


■ 57.0222, 53.8562,  
21.4394


■ 60.9035, 59.2434,  
30.0566

■ 65.3682, 65.1673,  
40.8102

 70.4455, 71.6462,  
53.8346

 76.1626, 78.6972,  
69.2531

 82.5448, 86.3365,  
87.1800

 89.6157, 94.5797,  
107.7221

# Harmonies

## Analogous

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



60.5237, 40.7078, 14.9424



48.5348, 40.7078, 6.8127



35.8726, 40.7078, 5.5330

# Triad

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



48.5348, 40.7078, 6.8127



19.8033, 40.7078, 53.1275



54.5936, 40.7078, 122.1684

# Complementary

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



48.5348, 40.7078, 6.8127



25.2570, 23.1644, 89.5254

# 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.



41.6544, 40.7078, 149.6608



48.5348, 40.7078, 6.8127



22.8645, 40.7078, 98.2867

# Square

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



48.5348, 40.7078, 6.8127



20.8889, 40.7078, 23.0186



30.2781, 40.7078, 139.1741



64.5026, 40.7078, 75.8667



# Rectangle

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



48.5348, 40.7078, 6.8127



28.9809, 40.7078, 7.4241



30.2781, 40.7078, 139.1741



50.3600, 40.7078, 134.7826

# Sweetspot

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



48.5357, 40.7099, 6.8134



77.1891, 78.5138, 59.0599



42.4250, 22.2354, 24.0542



16.0915, 16.2627, 11.5180



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.



48.5357, 40.7099, 6.8134



50.2968, 39.3737, 4.9489



68.1894, 83.5910, 14.0545



17.2409, 17.9660, 17.3566



24.8991, 19.6837, 2.4870



2.2911, 1.9355, 0.2528



# Inverse Universe

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



25.2570, 23.1644, 89.5254



24.4370, 19.9941, 97.1790



17.9694, 8.2090, 87.0228



16.2088, 17.1820, 21.0047



12.1725, 10.1388, 47.8535



1.1714, 1.0942, 4.2397



# Previews

## White Background



This preview shows how the XYZ color 48.5348, 40.7078, 6.8127 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 48.5348, 40.7078, 6.8127 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 48.5348, 40.7078, 6.8127**

## **Background**



This preview shows how black text looks on a background with the XYZ color 48.5348, 40.7078, 6.8127.



This preview shows how white text looks on a background with the XYZ color 48.5348, 40.7078,



# 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

48.5348, 40.7078, 6.8127

### Protanopia

37.1278, 40.9957, 7.9636

### Deuteranopia

41.5810, 40.8593, 6.5592



## Tritanopia

53.8581, 40.6391, 33.0225

# Trichromacy



## Original Color

48.5348, 40.7078, 6.8127

## Protanomaly

40.5984, 40.3314, 7.4787

## Deuteranomaly

44.1150, 40.8685, 6.6619

## Tritanomaly

51.0382, 40.3640, 19.0109

# Monochromacy



## Original Color

48.5348, 40.7078, 6.8127

## Achromatopsia

35.2861, 37.1238, 40.4278

## Achromatomaly

37.4301, 37.0755, 22.0131

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 48.5348, 40.7078, 6.8127 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(245, 148, 34)` looks like.

```
.text, #text, p{  
    color:rgb(245, 148, 34)  
}
```

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(245, 148, 34) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(245, 148, 34) }
```

## Border

The CSS property to change the border of an element to XYZ 48.5348, 40.7078, 6.8127 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(245, 148, 34) }
```



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

```
.border{ border-color:rgb(245, 148, 34) }
```

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

Here you see how a box with a 4 pixel `rgb(245, 148, 34)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(245, 148, 34); -webkit-box-  
shadow:4px 4px 4px 4px rgb(245, 148, 34);  
box-shadow:4px 4px 4px 4px rgb(245, 148,  
34) }
```

# Background

The CSS property to change the background color of an element to XYZ 48.5348, 40.7078, 6.8127 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(245, 148, 34) }
```

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

```
.background{ background-color: rgb(245,  
148, 34) }
```

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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