

# Converting Colors

XYZ(48.0963, 37.7201, 4.7478)

Have a look what the booklet for  
XYZ(48.0963, 37.7201, 4.7478)  
contains.

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# Color

**XYZ(48.0883, 37.6519,  
4.7330)**

# Conversions

## Conversions Part 1

Format	Color
Hex	FA8700
RGB	250, 135, 0
RGB Percent	98%, 53%, 0%
CMY	0.0196, 0.4706, 1.0000
CMYK	0.00, 0.46, 1.00, 0.02
HSL	32°, 100%, 49%
HSV	32°, 100%, 98%
XYZ	48.0883, 37.6519, 4.7330
YIQ	153.9950, 111.8750, -17.6050

# Conversions

## Conversions Part 2

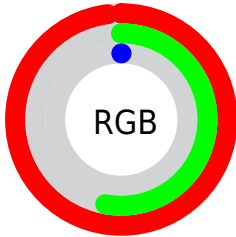
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	213, 250, 0
Decimal	16418560
CIE <sub>Lab</sub>	67.76, 37.37, 74.10
CIE <sub>LCh</sub>	68, 82.987, 63.238
Yxy	37.6519, 0.5315, 0.4162
Android (android.graphics.Color)	4294608640 (0xFFFA8700)
YUV	153.9950, -75.9195, 84.1964
Hunter-Lab	61.3611, 32.5072, 38.3796

# Details

The XYZ color **48.0883, 37.6519, 4.7330** 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 **23.3862, 19.1640, 92.9082**, and the grayscale version is **31.0031, 32.6176, 35.5206**.

A 20% lighter version of the original color is **60.6736, 58.1496, 14.5047**, and **23.4200, 16.7798, 2.0044** is the 20% darker color. If you saturate the color by 10%, you get **48.0884, 37.6526, 4.7331**, and if you desaturate by 10%, it is **49.9569, 41.1086, 6.2220**.

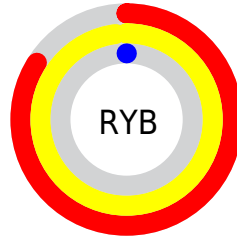
# Distribution



Red (98%)

Green (53%)

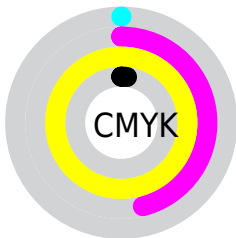
Blue (0%)



Red (84%)

Yellow (98%)

Blue (0%)

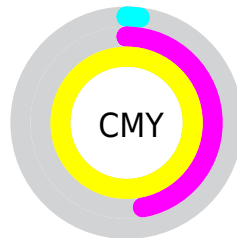


Cyan (0%)

Magenta (46%)

Yellow (100%)

Black (2%)



Cyan (2%)

Magenta (47%)


Yellow (100%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 48.0883, 37.6519, 4.7330 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 48.0883, 37.6519, 4.7330 by changing the saturation by 10% instead.





 48.0883, 37.6519,  
4.7330


 48.0883, 37.6519,  
4.7330


369.7188,  
336.1243, 156.0541


 34.1084, 25.7126,  
2.0355


 86.5448, 71.5743,  
15.6678


 23.1401, 16.6088,  
0.5770


 111.7520, 94.3262,  
24.7422

 14.8183, 9.9560,  
0.0000


 141.4324,  
121.4511, 36.7793

 8.7774, 5.3698,  
0.0000

 175.9512,  
153.3334, 52.1976

 4.6522, 2.4658,  
0.0000

 215.6740,  
190.3574, 71.4157


 2.0773, 0.8594,  
0.0000

 260.9659,


 0.6769, 0.0000,


232.9077, 94.8521


0.0000


 312.1924,  
281.3685, 122.9254


 0.0000, 0.0000,  
0.0000


 48.0883, 37.6519,  
4.7330


 48.0883, 37.6519,  
4.7330


 48.0884, 37.6526,  
4.7331

 49.9569, 41.1086,  
6.2220

 52.2280, 45.0103,  
8.9539

 54.9768, 49.3967,  
13.2953

 58.2499, 54.2944,  
19.4689

 62.0872, 59.7265,  
27.6613

66.5240, 65.7144,  
38.0362

71.5921, 72.2778,  
50.7401

77.3208, 79.4351,  
65.9067

83.7375, 87.2037,  
83.6595

# Harmonies

## Analogous

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



60.6489, 37.6519, 13.1792



48.0883, 37.6519, 4.7330



34.4111, 37.6519, 3.1759

# Triad

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



48.0883, 37.6519, 4.7330



16.3709, 37.6519, 45.1195



51.0885, 37.6519, 133.0681

# Complementary

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



48.0883, 37.6519, 4.7330



23.3862, 19.1640, 92.9082

# 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.



37.1991, 37.6519, 159.7785



48.0883, 37.6519, 4.7330



18.8609, 37.6519, 93.2154

# Square

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



48.0883, 37.6519, 4.7330



17.9660, 37.6519, 16.6975



25.7857, 37.6519, 142.0127



62.6519, 37.6519, 81.7634



# Rectangle

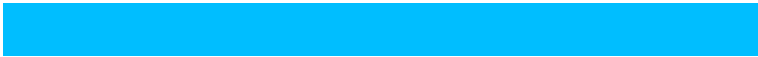
The Rectangle color scheme consists of four colors that form a rectangle on the color wheel.



48.0883, 37.6519, 4.7330



26.9069, 37.6519, 4.3108



25.7857, 37.6519, 142.0127



46.4330, 37.6519, 146.2591

# Sweetspot

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



48.0891, 37.6539, 4.7337



74.8698, 75.5817, 53.0258



42.6158, 21.6007, 18.6519



15.5288, 15.5416, 10.0844



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.



48.0891, 37.6539, 4.7337



50.2860, 39.3520, 4.9453



70.6888, 87.1889, 13.1037



18.0211, 18.7781, 18.1371



25.6535, 20.2637, 2.5592



2.4820, 2.0889, 0.2724



# Inverse Universe

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



23.3862, 19.1640, 92.9082



24.4459, 20.0118, 97.1820



17.3597, 6.9561, 90.8695



16.9409, 17.9587, 21.9588



12.5447, 10.4451, 49.3285



1.2666, 1.1768, 4.6036



# Previews

## White Background



This preview shows how the XYZ color 48.0883, 37.6519, 4.7330 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 48.0883, 37.6519, 4.7330 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 48.0883, 37.6519, 4.7330**

## **Background**



This preview shows how black text looks on a background with the XYZ color 48.0883, 37.6519, 4.7330.



This preview shows how white text looks on a background with the XYZ color 48.0883, 37.6519,



# 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

48.0883, 37.6519, 4.7330

### Protanopia

34.2651, 37.8914, 6.2173

### Deuteranopia

38.3515, 37.6693, 5.2496



## Tritanopia

52.6370, 37.7138, 27.0595

# Trichromacy



## Original Color

48.0883, 37.6519, 4.7330

## Protanomaly

38.3723, 37.1734, 5.5335

## Deuteranomaly

41.4879, 37.3422, 5.0211

## Tritanomaly

49.9980, 37.2390, 13.1470

# Monochromacy



## Original Color

48.0883, 37.6519, 4.7330

## Achromatopsia

30.7148, 32.3143, 35.1903

## Achromatomaly

33.6246, 32.5681, 16.0693

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 48.0883, 37.6519, 4.7330 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(250, 135, 0)` looks like.

```
.text, #text, p{  
    color:rgb(250, 135, 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(250, 135, 0) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(250, 135, 0) }
```

## Border

The CSS property to change the border of an element to XYZ 48.0883, 37.6519, 4.7330 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(250, 135, 0) }
```



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

```
.border{ border-color:rgb(250, 135, 0) }
```

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

Here you see how a box with a 4 pixel rgb(250, 135, 0) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(250, 135, 0); -webkit-box-  
shadow:4px 4px 4px 4px rgb(250, 135, 0);  
box-shadow:4px 4px 4px 4px rgb(250, 135,  
0) }
```

# Background

The CSS property to change the background color of an element to XYZ 48.0883, 37.6519, 4.7330 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(250, 135, 0) }
```

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

```
.background{ background-color: rgb(250,  
135, 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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