

# Converting Colors

XYZ(48.8753, 41.3310, 5.4017)

Have a look what the booklet for  
XYZ(48.8753, 41.3310, 5.4017)  
contains.

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# Color

**XYZ(48.9124, 41.4055,  
5.4141)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	F69600
RGB	246, 150, 0
RGB Percent	96%, 59%, 0%
CMY	0.0353, 0.4117, 0.9999
CMYK	0.00, 0.39, 1.00, 0.04
HSL	37°, 100%, 48%
HSV	37°, 100%, 96%
XYZ	48.9124, 41.4055, 5.4141
YIQ	161.6040, 105.3660, -26.2980

# Conversions

## Conversions Part 2

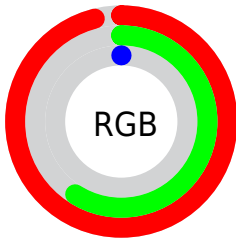
Format	Color
<a href="#">RYB</a>	<a href="#">157, 246, 0</a>
Decimal	<a href="#">16160256</a>
CIELab	<a href="#">70.46, 28.01, 75.52</a>
CIELCh	<a href="#">70, 80.550, 69.651</a>
Yxy	<a href="#">41.4055, 0.5109, 0.4325</a>
Android (android.graphics.Color)	<a href="#">4294350336 (0xFFFF69600)</a>
YUV	<a href="#">161.6040, -79.6708, 74.0153</a>
Hunter-Lab	<a href="#">64.3471, 23.0764, 40.0544</a>

# Details

The XYZ color **48.9124, 41.4055, 5.4141** is a dark color, and the websafe version is hex **FF9900**. The color can be described as middle saturated orange. A complement of this color would be **20.8180, 15.0206, 88.9902**, and the grayscale version is **34.4854, 36.2813, 39.5103**.

A 20% lighter version of the original color is **64.1374, 64.9675, 15.9971**, and **23.9903, 18.9910, 2.4012** is the 20% darker color. If you saturate the color by 10%, you get **48.9124, 41.4060, 5.4142**, and if you desaturate by 10%, it is **50.6798, 44.6667, 6.8484**.

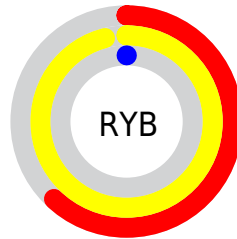
# Distribution



Red (96%)

Green (59%)

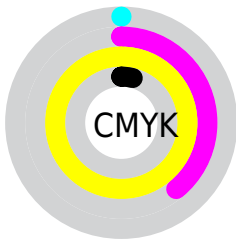
Blue (0%)



Red (62%)

Yellow (96%)

Blue (0%)

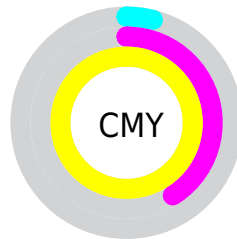


Cyan (0%)

Magenta (39%)

Yellow (100%)

Black (4%)



Cyan (4%)

Magenta (41%)


Yellow (100%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 48.9124, 41.4055, 5.4141 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 48.9124, 41.4055, 5.4141 by changing the saturation by 10% instead.





 48.9124, 41.4055,  
5.4141


 48.9124, 41.4055,  
5.4141


372.9200,  
352.0126, 162.8421


 34.7642, 28.6361,  
2.4293


 87.7628, 77.2991,  
17.1583

 23.6470, 18.8057,  
0.8023


 113.1958,  
101.1920, 26.7547


 15.1953, 11.5300,  
0.0000


 143.1212,  
129.5616, 39.3921

 9.0438, 6.4245,  
0.0000

 177.9041,  
162.7921, 55.4890

 4.8271, 3.1049,  
0.0000

 217.9102,  
201.2681, 75.4639


 2.1799, 1.1867,  
0.0000

 263.5046,


 0.7321, 0.0508,


245.3739, 99.7353


0.0000


 315.0528,  
295.4939, 128.7219


 0.0000, 0.0000,  
0.0000


 48.9124, 41.4055,  
5.4141

 48.9124, 41.4055,  
5.4141


 48.9124, 41.4060,  
5.4142

 50.6798, 44.6667,  
6.8484

 52.7911, 48.2691,  
9.4638

 55.3168, 52.2472,  
13.6148

 58.3000, 56.6225,  
19.5143

 61.7771, 61.4139,  
27.3412

■ 65.7803, 66.6382,  
37.2520

■ 70.3384, 72.3110,  
49.3871

■ 75.4781, 78.4468,  
63.8745

■ 81.2241, 85.0594,  
80.8323

# Harmonies

## Analogous

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



62.4541, 41.4055, 12.6803



48.9124, 41.4055, 5.4141



35.2299, 41.4055, 4.6002

# Triad

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



48.9124, 41.4055, 5.4141



19.1770, 41.4055, 58.4786



57.9874, 41.4055, 128.0126

# Complementary

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



48.9124, 41.4055, 5.4141



20.8180, 15.0206, 88.9902

# 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.



43.7895, 41.4055, 162.3301



48.9124, 41.4055, 5.4141



22.7950, 41.4055, 109.6467

# Square

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



48.9124, 41.4055, 5.4141



19.9498, 41.4055, 24.1455



31.1310, 41.4055, 154.1847



68.4570, 41.4055, 75.5727



# Rectangle

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



48.9124, 41.4055, 5.4141



28.0321, 41.4055, 6.7270



31.1310, 41.4055, 154.1847



53.3770, 41.4055, 143.0929

# Sweetspot

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



48.9133, 41.4077, 5.4148



76.2912, 78.4245, 53.4996



40.2298, 20.4825, 13.4896



15.8665, 16.2169, 10.1970



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.



48.9133, 41.4077, 5.4148



53.0431, 44.8662, 5.8644



62.8965, 81.3462, 12.3868



17.3402, 18.1645, 17.3897



26.2481, 22.3818, 2.9367



2.4067, 2.1666, 0.2913



# Inverse Universe

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



20.8180, 15.0206, 88.9902



22.5603, 16.2406, 96.5534



17.0260, 6.8558, 87.6141



16.1115, 16.9873, 20.9723



11.2380, 8.2697, 47.5419



1.0845, 0.9205, 4.2107



# Previews

## White Background



This preview shows how the XYZ color 48.9124, 41.4055, 5.4141 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 48.9124, 41.4055, 5.4141 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 48.9124, 41.4055, 5.4141**

## **Background**



This preview shows how black text looks on a background with the XYZ color 48.9124, 41.4055, 5.4141.



This preview shows how white text looks on a background with the XYZ color 48.9124, 41.4055,



# 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

48.9124, 41.4055, 5.4141

### Protanopia

37.5584, 41.5329, 6.6094

### Deuteranopia

42.1889, 41.4563, 5.7783



## Tritanopia

54.8825, 41.3627, 33.9453

# Trichromacy



## Original Color

48.9124, 41.4055, 5.4141

## Protanomaly

41.2471, 41.2306, 6.1009

## Deuteranomaly

44.3930, 41.2903, 5.6300

## Tritanomaly

51.3124, 40.7951, 15.9963

# Monochromacy



## Original Color

48.9124, 41.4055, 5.4141

## Achromatopsia

34.3422, 36.1307, 39.3463

## Achromatomaly

36.6674, 36.7704, 17.9968

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 48.9124, 41.4055, 5.4141 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(246, 150, 0)` looks like.

```
.text, #text, p{  
    color:rgb(246, 150, 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(246, 150, 0) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(246, 150, 0) }
```

## Border

The CSS property to change the border of an element to XYZ 48.9124, 41.4055, 5.4141 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(246, 150, 0) }
```



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

```
.border{ border-color:rgb(246, 150, 0) }
```

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

Here you see how a box with a 4 pixel `rgb(246, 150, 0)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(246, 150, 0); -webkit-box-  
shadow:4px 4px 4px 4px rgb(246, 150, 0);  
box-shadow:4px 4px 4px 4px rgb(246, 150,  
0) }
```

# Background

The CSS property to change the background color of an element to XYZ 48.9124, 41.4055, 5.4141 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(246, 150, 0) }
```

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

```
.background{ background-color: rgb(246,  
150, 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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