

# Converting Colors

XYZ(50.5189, 38.2956, 5.2837)

Have a look what the booklet for  
XYZ(50.5189, 38.2956, 5.2837)  
contains.

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# Color

**XYZ(49.6004, 37.8062,  
5.2554)**

# Conversions

## Conversions Part 1

Format	Color
Hex	FF8412
RGB	255, 132, 18
RGB Percent	100%, 52%, 7%
CMY	0.0000, 0.4823, 0.9294
CMYK	0.00, 0.48, 0.93, 0.00
HSL	29°, 100%, 54%
HSV	29°, 93%, 100%
XYZ	49.6004, 37.8062, 5.2554
YIQ	155.7810, 109.9020, -9.3780

# Conversions

## Conversions Part 2

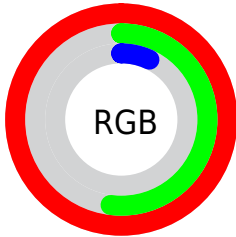
<b>Format</b>	<b>Color</b>
R <sub>Y</sub> B	255, 238, 18
Decimal	16745490
CIE Lab	67.88, 41.01, 71.80
CIE LCh	68, 82.683, 60.267
Yxy	37.8062, 0.5353, 0.4080
Android (android.graphics.Color)	4294935570 (0xFFFF8412)
YUV	155.7810, -67.9260, 87.0151
Hunter-Lab	61.4867, 36.3914, 37.9731

# Details

The XYZ color **49.6004, 37.8062, 5.2554** 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 **27.8241, 26.3979, 98.2356**, and the grayscale version is **31.7628, 33.4169, 36.3910**.

A 20% lighter version of the original color is **60.2469, 56.9570, 15.4079**, and **24.3545, 16.8137, 1.9617** is the 20% darker color. If you saturate the color by 10%, you get **48.2808, 35.3422, 4.2770**, and if you desaturate by 10%, it is **51.8474, 41.7628, 7.6630**.

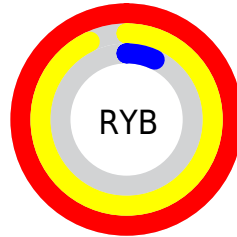
# Distribution



Red (100%)

Green (52%)

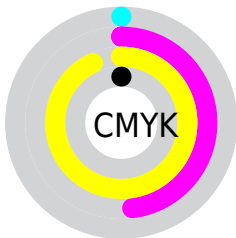
Blue (7%)



Red (100%)

Yellow (93%)

Blue (7%)

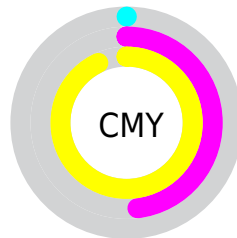


Cyan (0%)

Magenta (48%)

Yellow (93%)

Black (0%)



Cyan (0%)

Magenta (48%)


Yellow (93%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 49.6004, 37.8062, 5.2554 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 49.6004, 37.8062, 5.2554 by changing the saturation by 10% instead.





 49.6004, 37.8062,  
5.2554


 49.6004, 37.8062,  
5.2554


375.5791,  
336.7879, 161.2969


 35.3125, 25.8323,  
2.3365


 88.7779, 71.8110,  
16.8148

 24.0713, 16.6982,  
0.7516


 114.3982, 94.6107,  
26.2924


 15.5116, 10.0196,  
0.0000


 144.5267,  
121.7878, 38.7934

 9.2678, 5.4119,  
0.0000

 179.5287,  
153.7267, 54.7362

 4.9748, 2.4909,  
0.0000

 219.7696,  
190.8117, 74.5394

 2.2671, 0.8721,  
0.0000

 265.6147,

 0.7777, 0.0000,

233.4273, 98.6216

0.0000

317.4294,  
281.9579, 127.4012

0.0000, 0.0000,  
0.0000

49.6004, 37.8062,  
5.2554

49.6004, 37.8062,  
5.2554

48.2808, 35.3422,  
4.2770

51.8474, 41.7628,  
7.6630

54.6221, 46.3058,  
11.6905

57.9800, 51.4715,  
17.5886

61.9672, 57.2900,  
25.5637

66.6241, 63.7886,  
35.7945

71.9872, 70.9928,  
48.4405

78.0902, 78.9263,  
63.6461

84.9641, 87.6116,  
81.5447

92.6382, 97.0701,  
102.2601

# Harmonies

## Analogous

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



61.7096, 37.8062, 14.8474



49.6004, 37.8062, 5.2554



35.8191, 37.8062, 3.2334

# Triad

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



49.6004, 37.8062, 5.2554



16.4885, 37.8062, 41.4939



49.8471, 37.8062, 137.2167

# Complementary

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



49.6004, 37.8062, 5.2554



27.8241, 26.3979, 98.2356

# 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.



36.0485, 37.8062, 159.8312



49.6004, 37.8062, 5.2554



18.5695, 37.8062, 87.9922

# Square

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



49.6004, 37.8062, 5.2554



18.4957, 37.8062, 15.1375



25.0407, 37.8062, 137.9510



61.8743, 37.8062, 87.0514



# Rectangle

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



49.6004, 37.8062, 5.2554



28.0525, 37.8062, 4.1030



25.0407, 37.8062, 137.9510



45.1678, 37.8062, 149.2761

# Sweetspot

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



49.6012, 37.8083, 5.2561



74.9072, 74.8186, 55.6213



46.5209, 23.7186, 28.6736



15.4850, 15.2967, 10.5547



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.



49.6012, 37.8083, 5.2561



48.2813, 35.3425, 4.2771



74.6400, 87.8857, 13.6023



18.7304, 19.4289, 18.9073



25.3757, 18.7627, 2.2841



2.5794, 2.0442, 0.2586



# Inverse Universe

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



27.8241, 26.3979, 98.2356



26.3470, 23.8140, 97.8157



18.6668, 8.0833, 95.1832



17.7829, 18.9374, 22.9680



13.9173, 12.7442, 51.1609



1.4645, 1.4597, 5.0178



# Previews

## White Background



This preview shows how the XYZ color 49.6004, 37.8062, 5.2554 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 49.6004, 37.8062, 5.2554 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 49.6004, 37.8062, 5.2554**

## **Background**



This preview shows how black text looks on a background with the XYZ color 49.6004, 37.8062, 5.2554.



This preview shows how white text looks on a background with the XYZ color 49.6004, 37.8062,



# 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

49.6004, 37.8062, 5.2554

### Protanopia

34.3515, 37.9259, 6.6723

### Tritanopia

53.0039, 37.9029, 27.0766

# Trichromacy



## Original Color

49.6004, 37.8062, 5.2554

## Protanomaly

38.8824, 37.1784, 6.0465

## Tritanomaly

50.8909, 37.4710, 14.6756

# Monochromacy



## Original Color

49.6004, 37.8062, 5.2554

## Achromatopsia

31.5995, 33.2452, 36.2040

## Achromatomaly

34.7735, 33.1145, 18.1946

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 49.6004, 37.8062, 5.2554 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, 132, 18)` looks like.

```
.text, #text, p{  
    color:rgb(255, 132, 18)  
}
```

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, 132, 18) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(255, 132, 18) }
```

## Border

The CSS property to change the border of an element to XYZ 49.6004, 37.8062, 5.2554 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, 132, 18) }
```

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

```
.border{ border-color:rgb(255, 132, 18) }
```

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

Here you see how a box with a 4 pixel `rgb(255, 132, 18)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(255, 132, 18); -webkit-box-  
shadow:4px 4px 4px 4px rgb(255, 132, 18);  
box-shadow:4px 4px 4px 4px rgb(255, 132,  
18) }
```



# Background

The CSS property to change the background color of an element to XYZ 49.6004, 37.8062, 5.2554 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(255, 132, 18) }
```

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

```
.background{ background-color: rgb(255,  
132, 18) }
```

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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