

Converting Colors

XYZ(49.4580, 37.6960, 4.6693)

Have a look what the booklet for
XYZ(49.4580, 37.6960, 4.6693)
contains.

XYZ(49.4913, 37.7625, 4.6804)	3
<i>Conversions</i>	4
<i>Details</i>	6
<i>Harmonies</i>	12
<i>Previews</i>	24
<i>Color Blindness Simulation</i>	28
<i>CSS Examples</i>	31

Color

**XYZ(49.4913, 37.7625,
4.6804)**

Conversions

Conversions Part 1

Format	Color
Hex	FF8400
RGB	255, 132, 0
RGB Percent	100%, 52%, 0%
CMY	0.0000, 0.4823, 1.0000
CMYK	0.00, 0.48, 1.00, 0.00
HSL	31°, 100%, 50%
HSV	31°, 100%, 100%
XYZ	49.4913, 37.7625, 4.6804
YIQ	153.7290, 115.6800, -14.9760

Conversions

Conversions Part 2

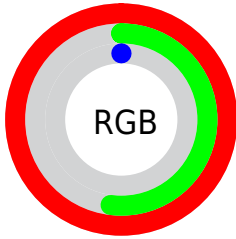
Format	Color
R _Y B	238, 255, 0
Decimal	16745472
CIE Lab	67.85, 40.85, 74.50
CIE LCh	68, 84.966, 61.262
Yxy	37.7625, 0.5383, 0.4108
Android (android.graphics.Color)	4294935552 (0xFFFF8400)
YUV	153.7290, -75.7884, 88.8147
Hunter-Lab	61.4512, 36.2200, 38.5000

Details

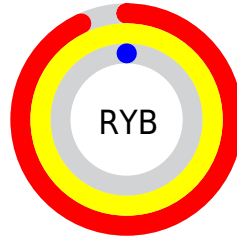
The XYZ color **49.4913, 37.7625, 4.6804** is a dark color, and the websafe version is hex **FF9900**. The color can be described as dark saturated orange. A complement of this color would be **25.1331, 21.3862, 97.4104**, and the grayscale version is **30.8842, 32.4926, 35.3844**.

A 20% lighter version of the original color is **60.0015, 56.8589, 14.1158**, and **24.3545, 16.8137, 1.9617** is the 20% darker color. If you saturate the color by 10%, you get **49.4914, 37.7633, 4.6806**, and if you desaturate by 10%, it is **51.4407, 41.3721, 6.2232**.

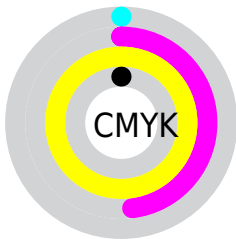
Distribution



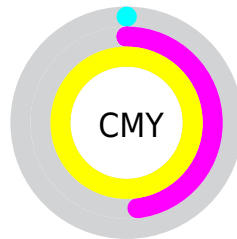
- Red (100%)
- Green (52%)
- Blue (0%)



- Red (93%)
- Yellow (100%)
- Blue (0%)



- Cyan (0%)
- Magenta (48%)
- Yellow (100%)
- Black (0%)





- Cyan (0%)
- Magenta (48%)
- Yellow (100%)

Brightness & Saturation Gradients


These gradients show how the XYZ color 49.4913, 37.7625, 4.6804 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 49.4913, 37.7625, 4.6804 by changing the saturation by 10% instead.


 49.4913, 37.7625,
4.6804


 49.4913, 37.7625,
4.6804


375.1582,
336.6001, 155.5119


 35.2255, 25.7984,
2.0056


 88.6170, 71.7440,
15.5508


 24.0040, 16.6729,
0.5587


 114.2077, 94.5301,
24.5835


 15.4613, 10.0015,
0.0000


 144.3040,
121.6924, 36.5725

 9.2322, 5.4000,
0.0000

 179.2714,
153.6153, 51.9364

 4.9513, 2.4838,
0.0000

 219.4752,
190.6831, 71.0938


 2.2532, 0.8685,
0.0000

 265.2806,


 0.7705, 0.0000,


233.2802, 94.4631


0.0000

 317.0532,
281.7911, 122.4630


 0.0000, 0.0000,
0.0000


 49.4913, 37.7625,
4.6804


 49.4913, 37.7625,
4.6804


 49.4914, 37.7633,
4.6806

 51.4407, 41.3721,
6.2232

 53.8281, 45.4802,
9.0746

 56.7327, 50.1300,
13.6167

 60.2043, 55.3511,
20.0836

 64.2858, 61.1695,
28.6719

■ 69.0148, 67.6091,
39.5535

■ 74.4255, 74.6921,
52.8825

■ 80.5495, 82.4391,
68.7995

■ 87.4160, 90.8699,
87.4343

Harmonies

Analogous

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



62.1714, 37.7625, 13.8021



49.4913, 37.7625, 4.6804



35.3374, 37.7625, 2.8837

Triad

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



49.4913, 37.7625, 4.6804



16.0660, 37.7625, 42.7345



50.6973, 37.7625, 139.4405

Complementary

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



49.4913, 37.7625, 4.6804



25.1331, 21.3862, 97.4104

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.



36.4526, 37.7625, 164.5329



49.4913, 37.7625, 4.6804



18.3103, 37.7625, 91.3837

Square

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



49.4913, 37.7625, 4.6804



17.9567, 37.7625, 15.1815



25.0446, 37.7625, 143.0760



62.9790, 37.7625, 86.7539

Rectangle

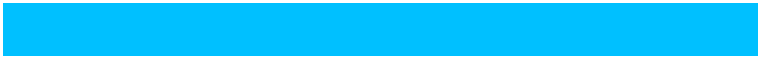
The Rectangle color scheme consists of four colors that form a rectangle on the color wheel.



49.4913, 37.7625, 4.6804



27.4725, 37.7625, 3.8034



25.0446, 37.7625, 143.0760



45.8770, 37.7625, 152.4473

Sweetspot

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



49.4921, 37.7646, 4.6811



74.4238, 74.6897, 52.8772



44.8310, 22.6965, 20.8406



15.4233, 15.3304, 10.0492



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.



49.4921, 37.7646, 4.6811



49.4917, 37.7635, 4.6806



75.4533, 91.9823, 13.7778



18.7872, 19.5426, 18.9262



26.0109, 20.0330, 2.4958



2.6420, 2.1694, 0.2795

Inverse Universe

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



25.1331, 21.3862, 97.4104



25.1325, 21.3850, 97.4108



18.1033, 7.2477, 95.0519



17.7260, 18.8237, 22.9490



13.2801, 11.4698, 50.9485



1.4018, 1.3342, 4.9969

Previews

White Background



This preview shows how the XYZ color 49.4913, 37.7625, 4.6804 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 49.4913, 37.7625, 4.6804 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 49.4913, 37.7625, 4.6804

Background



This preview shows how black text looks on a background with the XYZ color 49.4913, 37.7625, 4.6804.



This preview shows how white text looks on a background with the XYZ color 49.4913, 37.7625,

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

49.4913, 37.7625, 4.6804

Protanopia

34.2746, 37.8952, 6.2671

Deuteranopia

38.3515, 37.6693, 5.2496



Tritanopia

52.9345, 37.8752, 26.7110

Trichromacy



Original Color

49.4913, 37.7625, 4.6804

Protanomaly

38.7862, 37.1400, 5.5399

Deuteranomaly

41.9539, 37.3486, 4.9978

Tritanomaly

50.5989, 37.3542, 13.1376

Monochromacy



Original Color

49.4913, 37.7625, 4.6804

Achromatopsia

30.7148, 32.3143, 35.1903

Achromatomaly

33.9693, 32.5160, 16.0411

CSS Examples

Text

The CSS property to change the color of the text to XYZ 49.4913, 37.7625, 4.6804 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, 0)` looks like.

```
.text, #text, p{  
    color:rgb(255, 132, 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(255, 132, 0) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(255, 132, 0) }
```

Border

The CSS property to change the border of an element to XYZ 49.4913, 37.7625, 4.6804 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, 0) }
```


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

```
.border{ border-color:rgb(255, 132, 0) }
```

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, 0)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(255, 132, 0); -webkit-box-  
shadow:4px 4px 4px 4px rgb(255, 132, 0);  
box-shadow:4px 4px 4px 4px rgb(255, 132,  
0) }
```

Background

The CSS property to change the background color of an element to XYZ 49.4913, 37.7625, 4.6804 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, 0) }
```

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

```
.background{ background-color: rgb(255,  
132, 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](#).

Hey! You found this booklet interesting? Support Converting Colors with the new Membership Option!

The pro membership hides all ads, plus gives you double the colors in the color bucket, and more awesome pro features!

[Learn more, Memberships starting at \\$2.50/m!](#)

**Follow me
on Twitter!**

@ConvertingColor