

Converting Colors

XYZ(48.8954, 36.5720, 4.4820)

Have a look what the booklet for
XYZ(48.8954, 36.5720, 4.4820)
contains.

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Color

**XYZ(48.9592, 36.6983,
4.5031)**

Conversions

Conversions Part 1

Format	Color
Hex	FF8000
RGB	255, 128, 0
RGB Percent	100%, 50%, 0%
CMY	0.0000, 0.4980, 1.0000
CMYK	0.00, 0.50, 1.00, 0.00
HSL	30°, 100%, 50%
HSV	30°, 100%, 100%
XYZ	48.9592, 36.6983, 4.5031
YIQ	151.3810, 116.7800, -12.8840

Conversions

Conversions Part 2

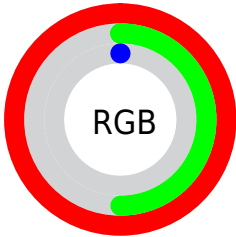
Format	Color
R_{YB}	253, 255, 0
Decimal	16744448
CIE Lab	67.05, 42.83, 74.03
CIE LCh	67, 85.524, 59.946
Yxy	36.6983, 0.5430, 0.4070
Android (android.graphics.Color)	4294934528 (0xFFFF8000)
YUV	151.3810, -74.6308, 90.8739
Hunter-Lab	60.5791, 38.2477, 37.9981

Details

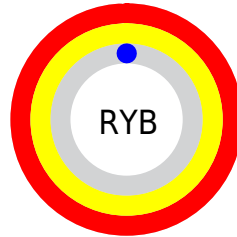
The XYZ color **48.9592, 36.6983, 4.5031** is a dark color, and the websafe version is hex **FF6600**. The color can be described as dark saturated orange. A complement of this color would be **25.6397, 22.3995, 97.5793**, and the grayscale version is **29.8558, 31.4106, 34.2061**.

A 20% lighter version of the original color is **59.1705, 55.1969, 13.8388**, and **23.8196, 16.1160, 1.8553** is the 20% darker color. If you saturate the color by 10%, you get **48.9592, 36.6988, 4.5031**, and if you desaturate by 10%, it is **50.9026, 40.2959, 6.0439**.

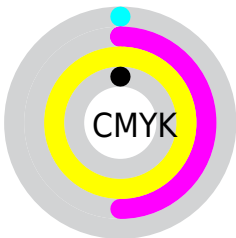
Distribution



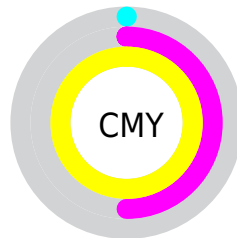
- Red (100%)
- Green (50%)
- Blue (0%)



- Red (99%)
- Yellow (100%)
- Blue (0%)



- Cyan (0%)
- Magenta (50%)
- Yellow (100%)
- Black (0%)





- Cyan (0%)
- Magenta (50%)
- Yellow (100%)

Brightness & Saturation Gradients


These gradients show how the XYZ color 48.9592, 36.6983, 4.5031 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 48.9592, 36.6983, 4.5031 by changing the saturation by 10% instead.


 48.9592, 36.6983,
4.5031

 48.9592, 36.6983,
4.5031


373.1013,
332.0025, 153.6632


 34.8015, 24.9740,
1.9052


 87.8319, 70.1085,
15.1544


 23.6758, 16.0577,
0.4960


 113.2777, 92.5632,
24.0448

 15.2167, 9.5650,
0.0000


 143.2169,
119.3635, 35.8699

 9.0590, 5.1115,
0.0000

 178.0148,
150.8938, 51.0481

 4.8371, 2.3128,
0.0000

 218.0369,
187.5384, 69.9980


 2.1858, 0.7805,
0.0000

 263.6484,


 0.7352, 0.0000,


229.6818, 93.1381


0.0000


 315.2148,
277.7084, 120.8870


 0.0000, 0.0000,
0.0000

 48.9592, 36.6983,
4.5031


 48.9592, 36.6983,
4.5031


 48.9592, 36.6988,
4.5031

 50.9026, 40.2959,
6.0439

 53.2955, 44.4150,
8.8973

 56.2178, 49.1002,
13.4453

 59.7200, 54.3822,
19.9225

 63.8453, 60.2884,
28.5256

68.6323, 66.8440,
39.4267

74.1156, 74.0720,
52.7800

80.3273, 81.9944,
68.7264

87.2971, 90.6317,
87.3959

Harmonies

Analogous

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



61.3374, 36.6983, 13.8147



48.9592, 36.6983, 4.5031



34.9044, 36.6983, 2.6098

Triad

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



48.9592, 36.6983, 4.5031



15.3776, 36.6983, 39.8902



48.9076, 36.6983, 139.6464

Complementary

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



48.9592, 36.6983, 4.5031



25.6397, 22.3995, 97.5793

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.



34.8569, 36.6983, 162.8356



48.9592, 36.6983, 4.5031



17.3930, 36.6983, 87.4137

Square

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



48.9592, 36.6983, 4.5031



17.4080, 36.6983, 13.7567



23.7983, 36.6983, 139.4898



61.3028, 36.6983, 87.6124

Rectangle

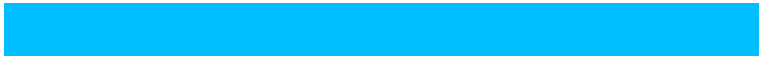
The Rectangle color scheme consists of four colors that form a rectangle on the color wheel.



48.9592, 36.6983, 4.5031



27.0285, 36.6983, 3.3702



23.7983, 36.6983, 139.4898



44.1228, 36.6983, 152.1226

Sweetspot

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



48.9600, 36.7003, 4.5037



74.1135, 74.0691, 52.7737



45.1036, 22.8056, 22.2765



15.3499, 15.1837, 10.0248



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.



48.9600, 36.7003, 4.5037



48.9595, 36.6990, 4.5032



76.9995, 92.7794, 13.8502



18.7628, 19.4938, 18.9181



25.7318, 19.4749, 2.4028



2.6147, 2.1147, 0.2704

Inverse Universe

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



25.6397, 22.3995, 97.5793



25.6390, 22.3981, 97.5797



18.0501, 7.2203, 95.0494



17.7504, 18.8723, 22.9571



13.5461, 12.0018, 51.0372



1.4281, 1.3869, 5.0057

Previews

White Background



This preview shows how the XYZ color 48.9592, 36.6983, 4.5031 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 48.9592, 36.6983, 4.5031 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 48.9592, 36.6983, 4.5031

Background



This preview shows how black text looks on a background with the XYZ color 48.9592, 36.6983, 4.5031.



This preview shows how white text looks on a background with the XYZ color 48.9592, 36.6983,

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

48.9592, 36.6983, 4.5031

Protanopia

33.1874, 36.7992, 6.1128

Deuteranopia

37.4535, 36.7081, 5.1114



Tritanopia

52.1620, 36.7640, 25.1158

Trichromacy



Original Color

48.9592, 36.6983, 4.5031

Protanomaly

37.7242, 35.8666, 5.3501

Deuteranomaly

40.8659, 36.0981, 4.8138

Tritanomaly

49.9706, 36.2845, 12.3525

Monochromacy



Original Color

48.9592, 36.6983, 4.5031

Achromatopsia

29.4150, 30.9469, 33.7012

Achromatomaly

32.9200, 31.3083, 15.3744

CSS Examples

Text

The CSS property to change the color of the text to XYZ 48.9592, 36.6983, 4.5031 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, 128, 0)` looks like.

```
.text, #text, p{  
    color:rgb(255, 128, 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, 128, 0) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(255, 128, 0) }
```

Border

The CSS property to change the border of an element to XYZ 48.9592, 36.6983, 4.5031 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, 128, 0) }
```


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

```
.border{ border-color:rgb(255, 128, 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, 128, 0) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(255, 128, 0); -webkit-box-  
shadow:4px 4px 4px 4px rgb(255, 128, 0);  
box-shadow:4px 4px 4px 4px rgb(255, 128,  
0) }
```

Background

The CSS property to change the background color of an element to XYZ 48.9592, 36.6983, 4.5031 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(255, 128, 0) }
```

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

```
.background{ background-color: rgb(255,  
128, 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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