

# Converting Colors

XYZ(51.8019, 36.8457, 3.7026)

Have a look what the booklet for  
XYZ(51.8019, 36.8457, 3.7026)  
contains.

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# **Color**

**XYZ(48.0774, 34.9347,  
4.2091)**

# Conversions

## Conversions Part 1

| Format      | Color                       |
|-------------|-----------------------------|
| Hex         | FF7900                      |
| RGB         | 255, 121, 0                 |
| RGB Percent | 100%, 47%, 0%               |
| CMY         | 0.0000, 0.5255, 1.0000      |
| CMYK        | 0.00, 0.53, 1.00, 0.00      |
| HSL         | 28°, 100%, 50%              |
| HSV         | 28°, 100%, 100%             |
| XYZ         | 48.0774, 34.9347, 4.2091    |
| YIQ         | 147.2720, 118.7050, -9.2230 |

# Conversions

## Conversions Part 2

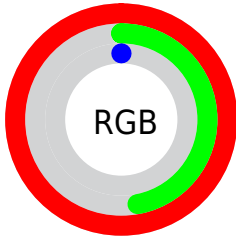
| <b>Format</b>                       | <b>Color</b>                   |
|-------------------------------------|--------------------------------|
| R <sub>Y</sub> B                    | 255, 230, 0                    |
| Decimal                             | 16742656                       |
| CIE Lab                             | 65.70, 46.24, 73.23            |
| CIE LCh                             | 66, 86.610, 57.731             |
| Yxy                                 | 34.9347, 0.5512,<br>0.4005     |
| Android<br>(android.graphics.Color) | 4294932736<br>(0xFFFF7900)     |
| YUV                                 | 147.2720, -72.6051,<br>94.4775 |
| Hunter-Lab                          | 59.1056, 41.7599,<br>37.1517   |

# Details

The XYZ color **48.0774, 34.9347, 4.2091** 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 **26.5750, 24.2700, 97.8910**, and the grayscale version is **28.1044, 29.5681, 32.1996**.

A 20% lighter version of the original color is **57.9027, 52.7656, 13.0942**, and **23.3023, 15.0814, 1.6828** is the 20% darker color. If you saturate the color by 10%, you get **48.0776, 34.9356, 4.2093**, and if you desaturate by 10%, it is **50.0023, 38.4954, 5.7437**.

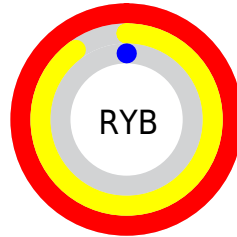
# Distribution



Red (100%)

Green (47%)

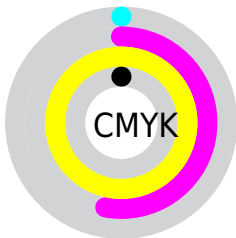
Blue (0%)



Red (100%)

Yellow (90%)

Blue (0%)

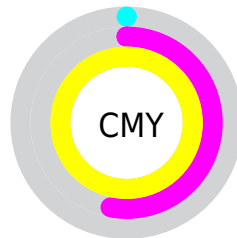


Cyan (0%)

Magenta (53%)

Yellow (100%)

Black (0%)



Cyan (0%)

Magenta (53%)


Yellow (100%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 48.0774, 34.9347, 4.2091 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 48.0774, 34.9347, 4.2091 by changing the saturation by 10% instead.





 48.0774, 34.9347,  
4.2091


 48.0774, 34.9347,  
4.2091


369.6763,  
324.2800, 150.5219


 34.0997, 23.6126,  
1.7407


 86.5286, 67.3846,  
14.4892

 23.1334, 15.0465,  
0.3884

 111.7329, 89.2812,  
23.1380

 14.8133, 8.8520,  
0.0000


 141.4100,  
115.4713, 34.6841

 8.7739, 4.6448,  
0.0000

 175.9253,  
146.3395, 49.5459

 4.6499, 2.0404,  
0.0000

 215.6443,  
182.2700, 68.1421


 2.0760, 0.6308,  
0.0000

 260.9322,


 0.6761, 0.0000,


223.6474, 90.8911


0.0000


 312.1544,  
270.8559, 118.2115


 0.0000, 0.0000,  
0.0000


 48.0774, 34.9347,  
4.2091


 48.0774, 34.9347,  
4.2091


 48.0776, 34.9356,  
4.2093

 50.0023, 38.4954,  
5.7437

 52.3972, 42.6184,  
8.5974

 55.3430, 47.3509,  
13.1532

 58.8919, 52.7263,  
19.6457

 63.0882, 58.7744,  
28.2722

67.9714, 65.5226,  
39.2050

73.5775, 72.9963,  
52.5990

79.9394, 81.2193,  
68.5952

87.0880, 90.2142,  
87.3239

# Harmonies

## Analogous

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



59.9537, 34.9347, 13.8389



48.0774, 34.9347, 4.2091



34.1838, 34.9347, 2.1810

# Triad

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



48.0774, 34.9347, 4.2091



14.2472, 34.9347, 35.3273



45.9592, 34.9347, 140.0780

# Complementary

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



48.0774, 34.9347, 4.2091



26.5750, 24.2700, 97.8910

# 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.



32.2439, 34.9347, 160.0458



48.0774, 34.9347, 4.2091



15.8970, 34.9347, 80.9203

# Square

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



48.0774, 34.9347, 4.2091



16.4980, 34.9347, 11.5289



21.7665, 34.9347, 133.5578



58.5271, 34.9347, 89.1420



# Rectangle

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



48.0774, 34.9347, 4.2091



26.2879, 34.9347, 2.7057



21.7665, 34.9347, 133.5578



41.2387, 34.9347, 151.6532

# Sweetspot

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



48.0782, 34.9366, 4.2097



73.5761, 72.9942, 52.5946



45.6840, 23.0377, 25.3328



15.2231, 14.9301, 9.9825



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.



48.0782, 34.9366, 4.2097



48.0779, 34.9358, 4.2093



74.3477, 87.4757, 12.9662



18.7203, 19.4088, 18.9039



25.2688, 18.5489, 2.2485



2.5688, 2.0229, 0.2551



# Inverse Universe

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



26.5750, 24.2700, 97.8910



26.5745, 24.2690, 97.8915



18.1423, 7.4047, 95.0802



17.7930, 18.9576, 22.9713



14.0365, 12.9825, 51.2007



1.4761, 1.4829, 5.0217



# Previews

## White Background



This preview shows how the XYZ color 48.0774, 34.9347, 4.2091 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 48.0774, 34.9347, 4.2091 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 48.0774, 34.9347, 4.2091**

## **Background**



This preview shows how black text looks on a background with the XYZ color 48.0774, 34.9347, 4.2091.



This preview shows how white text looks on a background with the XYZ color 48.0774, 34.9347,



# 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

48.0774, 34.9347, 4.2091

### Protanopia

31.5479, 34.9068, 5.8855

### Deuteranopia

35.5854, 35.0130, 4.8826



## Tritanopia

50.8836, 34.9266, 22.4720

# Trichromacy



## Original Color

48.0774, 34.9347, 4.2091

## Protanomaly

36.0972, 33.8577, 5.0846

## Deuteranomaly

39.3437, 34.4219, 4.5705

## Tritanomaly

48.9764, 34.5326, 11.2919

# Monochromacy



## Original Color

48.0774, 34.9347, 4.2091

## Achromatopsia

27.7328, 29.1771, 31.7738

## Achromatomaly

31.3586, 29.4242, 14.6163

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 48.0774, 34.9347, 4.2091 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, 121, 0)` looks like.

```
.text, #text, p{  
    color:rgb(255, 121, 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, 121, 0) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(255, 121, 0) }
```

## Border

The CSS property to change the border of an element to XYZ 48.0774, 34.9347, 4.2091 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, 121, 0) }
```



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

```
.border{ border-color:rgb(255, 121, 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, 121, 0)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(255, 121, 0); -webkit-box-  
shadow:4px 4px 4px 4px rgb(255, 121, 0);  
box-shadow:4px 4px 4px 4px rgb(255, 121,  
0) }
```

# Background

The CSS property to change the background color of an element to XYZ 48.0774, 34.9347, 4.2091 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(255, 121, 0) }
```

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

```
.background{ background-color: rgb(255,  
121, 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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