

# Converting Colors

XYZ(48.4726, 40.7494, 7.5667)

Have a look what the booklet for  
XYZ(48.4726, 40.7494, 7.5667)  
contains.

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# **Color**

**XYZ(48.3342, 40.5873,  
7.5721)**

# Conversions

## Conversions Part 1

Format	Color
Hex	F4942B
RGB	244, 148, 43
RGB Percent	96%, 58%, 17%
CMY	0.0431, 0.4196, 0.8314
CMYK	0.00, 0.39, 0.82, 0.04
HSL	31°, 90%, 56%
HSV	31°, 82%, 96%
XYZ	48.3342, 40.5873, 7.5721
YIQ	164.7340, 90.9210, -12.3030

# Conversions

## Conversions Part 2

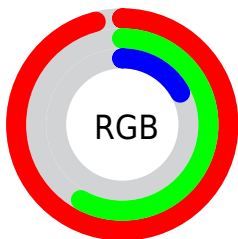
<b>Format</b>	<b>Color</b>
R <sub>Y</sub> B	227, 244, 43
Decimal	16028715
CIE Lab	69.89, 28.90, 65.83
CIE LCh	70, 71.896, 66.301
Yxy	40.5873, 0.5009, 0.4206
Android (android.graphics.Color)	4294218795 (0xFFFF4942B)
YUV	164.7340, -60.0149, 69.5163
Hunter-Lab	63.7082, 23.9354, 37.5487

# Details

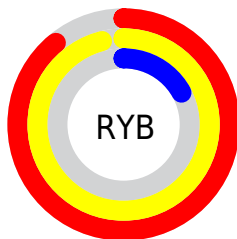
The XYZ color **48.3342, 40.5873, 7.5721** is a dark color, and the websafe version is hex **FF9933**. The color can be described as middle washed orange. A complement of this color would be **26.5575, 25.5093, 89.1115**, and the grayscale version is **35.8858, 37.7546, 41.1148**.

A 20% lighter version of the original color is **64.5651, 64.3829, 20.5795**, and **23.5661, 18.4945, 2.3277** is the 20% darker color. If you saturate the color by 10%, you get **46.2763, 36.9868, 5.2986**, and if you desaturate by 10%, it is **50.8452, 44.6670, 11.3156**.

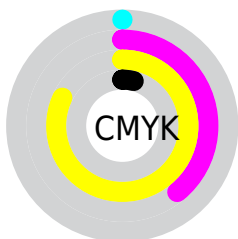
# Distribution



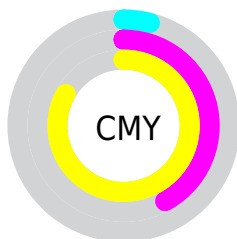
- Red (96%)
- Green (58%)
- Blue (17%)



- Red (89%)
- Yellow (96%)
- Blue (17%)



- Cyan (0%)
- Magenta (39%)
- Yellow (82%)
- Black (4%)




- Cyan (4%)
- Magenta (42%)
- Yellow (83%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 48.3342, 40.5873, 7.5721 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 48.3342, 40.5873, 7.5721 by changing the saturation by 10% instead.





 48.3342, 40.5873,  
7.5721


 48.3342, 40.5873,  
7.5721


370.6759,  
348.5928, 182.1436


 34.3040, 27.9968,  
3.7386


 86.9085, 76.0570,  
21.6474

 23.2912, 18.3232,  
1.4830


 112.1832, 99.7050,  
32.7262


 14.9306, 11.1823,  
0.2052


 141.9369,  
127.8075, 47.0572

 8.8567, 6.1896,  
0.0000

 176.5348,  
160.7490, 65.0589

 4.7042, 2.9607,  
0.0000

 216.3423,  
198.9139, 87.1498

 2.1077, 1.1112,  
0.0000

 261.7247,

 0.6934, 0.0000,

242.6866, 113.7486

0.0000

313.0475,  
292.4514, 145.2737

■ 0.0000, 0.0000,  
0.0000

■ 48.3342, 40.5873,  
7.5721

■ 48.3342, 40.5873,  
7.5721

■ 46.2763, 36.9868,  
5.2986

■ 50.8452, 44.6670,  
11.3156


■ 44.9581, 34.5332,  
4.2960


■ 53.8533, 49.2465,  
16.7473


■ 57.3987, 54.3516,  
24.0507


■ 61.5161, 60.0040,  
33.3845

■ 66.2367, 66.2234,  
44.8902

 71.5891, 73.0286,  
58.6966

 77.6000, 80.4370,  
74.9224

 84.2942, 88.4654,  
93.6781

 90.4467, 96.6304,  
108.4922

# Harmonies

## Analogous

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



59.6737, 40.5873, 15.9884



48.3342, 40.5873, 7.5721



36.1623, 40.5873, 6.1215

# Triad

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



48.3342, 40.5873, 7.5721



20.2718, 40.5873, 51.6409



53.4721, 40.5873, 119.0153

# Complementary

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



48.3342, 40.5873, 7.5721



26.5575, 25.5093, 89.1115

# 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.



41.0969, 40.5873, 144.0166



48.3342, 40.5873, 7.5721



23.1505, 40.5873, 94.3053

# Square

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



48.3342, 40.5873, 7.5721



21.4393, 40.5873, 23.0412



30.2301, 40.5873, 133.2215



63.0345, 40.5873, 75.4416



# Rectangle

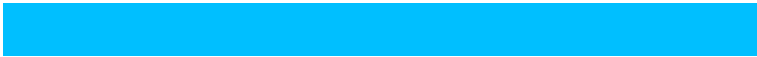
The Rectangle color scheme consists of four colors that form a rectangle on the color wheel.



48.3342, 40.5873, 7.5721



29.4505, 40.5873, 7.9597



30.2301, 40.5873, 133.2215



49.4175, 40.5873, 130.6596

# Sweetspot

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



48.3351, 40.5894, 7.5728



77.4763, 78.6422, 60.5306



42.9168, 22.8589, 27.0198



16.1342, 16.2629, 11.7950



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.



48.3351, 40.5894, 7.5728



49.8392, 38.4360, 4.8653



68.9427, 83.5145, 14.7721



17.2155, 17.9151, 17.3482



24.5838, 19.0532, 2.3819



2.2636, 1.8804, 0.2437



# Inverse Universe

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



26.5575, 25.5093, 89.1115



25.1793, 21.4312, 97.4173



18.3357, 8.8487, 86.3290



16.2341, 17.2324, 21.0131



12.4431, 10.6800, 47.9437



1.1959, 1.1431, 4.2479



# Previews

## White Background



This preview shows how the XYZ color 48.3342, 40.5873, 7.5721 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 48.3342, 40.5873, 7.5721 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 48.3342, 40.5873, 7.5721**

## **Background**



This preview shows how black text looks on a background with the XYZ color 48.3342, 40.5873, 7.5721.



This preview shows how white text looks on a background with the XYZ color 48.3342, 40.5873,



# 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

48.3342, 40.5873, 7.5721

### Protanopia

37.0451, 40.9333, 8.8542

### Deuteranopia

41.5577, 40.5670, 7.3089



## Tritanopia

53.5007, 40.4548, 33.0057

# Trichromacy



## Original Color

48.3342, 40.5873, 7.5721

## Protanomaly

40.4743, 40.2485, 8.3248

## Deuteranomaly

43.7872, 40.4292, 7.4152

## Tritanomaly

50.8452, 40.2459, 19.8403

# Monochromacy



## Original Color

48.3342, 40.5873, 7.5721

## Achromatopsia

35.7637, 37.6262, 40.9749

## Achromatomaly

38.0975, 37.6461, 23.3476

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 48.3342, 40.5873, 7.5721 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(244, 148, 43)` looks like.

```
.text, #text, p{  
    color:rgb(244, 148, 43)  
}
```

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(244, 148, 43) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(244, 148, 43) }
```

## Border

The CSS property to change the border of an element to XYZ 48.3342, 40.5873, 7.5721 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(244, 148, 43) }
```



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

```
.border{ border-color:rgb(244, 148, 43) }
```

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

Here you see how a box with a 4 pixel `rgb(244, 148, 43)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(244, 148, 43); -webkit-box-  
shadow:4px 4px 4px 4px rgb(244, 148, 43);  
box-shadow:4px 4px 4px 4px rgb(244, 148,  
43) }
```

# Background

The CSS property to change the background color of an element to XYZ 48.3342, 40.5873, 7.5721 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(244, 148, 43) }
```

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

```
.background{ background-color: rgb(244,  
148, 43) }
```

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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