

# Converting Colors

XYZ(52.3575, 42.9780, 7.2295)

Have a look what the booklet for  
XYZ(52.3575, 42.9780, 7.2295)  
contains.

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# Color

**XYZ(52.3059, 42.8823,  
7.1893)**

# Conversions

## Conversions Part 1

Format	Color
Hex	FF9524
RGB	255, 149, 36
RGB Percent	100%, 58%, 14%
CMY	0.0000, 0.4157, 0.8588
CMYK	0.00, 0.42, 0.86, 0.00
HSL	31°, 100%, 57%
HSV	31°, 86%, 100%
XYZ	52.3059, 42.8823, 7.1893
YIQ	167.8120, 99.4490, -12.6710

# Conversions

## Conversions Part 2

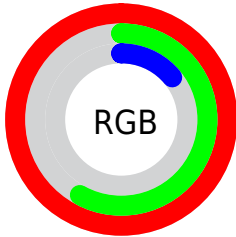
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	241, 255, 36
Decimal	16749860
CIE <sub>Lab</sub>	71.48, 32.69, 69.98
CIE <sub>LCh</sub>	71, 77.242, 64.961
Yxy	42.8823, 0.5109, 0.4189
Android (android.graphics.Color)	4294939940 (0xFFFF9524)
YUV	167.8120, -64.9833, 76.4639
Hunter-Lab	65.4846, 27.9791, 39.3300

# Details

The XYZ color **52.3059, 42.8823, 7.1893** 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 **28.4499, 26.9398, 98.3074**, and the grayscale version is **37.4031, 39.3510, 42.8532**.

A 20% lighter version of the original color is **64.8086, 65.2360, 19.5320**, and **26.0129, 19.7559, 2.4422** is the 20% darker color. If you saturate the color by 10%, you get **50.1955, 39.0794, 5.1992**, and if you desaturate by 10%, it is **54.9017, 47.2143, 10.7060**.

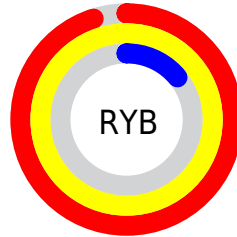
# Distribution



Red (100%)

Green (58%)

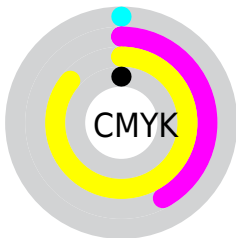
Blue (14%)



Red (95%)

Yellow (100%)

Blue (14%)

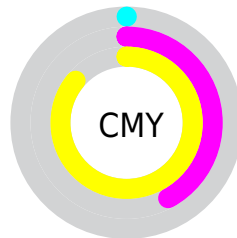


Cyan (0%)

Magenta (42%)

Yellow (86%)

Black (0%)



Cyan (0%)

Magenta (42%)


Yellow (86%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 52.3059, 42.8823, 7.1893 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 52.3059, 42.8823, 7.1893 by changing the saturation by 10% instead.





 52.3059, 42.8823,  
7.1893


 52.3059, 42.8823,  
7.1893


385.9210,  
358.1275, 178.9177

 37.4742, 29.7928,  
3.5005


 92.7538, 79.5332,  
20.8724


 25.7502, 19.6814,  
1.3555


 119.1007,  
103.8634, 31.7037

 16.7686, 12.1636,  
0.1067


 150.0167,  
132.7093, 45.7530

 10.1639, 6.8552,  
0.0000

 185.8672,  
166.4552, 63.4388

 5.5709, 3.3717,  
0.0000

 227.0175,  
205.4856, 85.1796

 2.6241, 1.3287,  
0.0000

 273.8330,

 0.9583, 0.1633,

250.1848, 111.3940

0.0000

326.6791,  
300.9373, 142.5005

■ 0.0000, 0.0000,  
0.0000

■ 52.3059, 42.8823,  
7.1893

■ 52.3059, 42.8823,  
7.1893

■ 50.1955, 39.0794,  
5.1992

■ 54.9017, 47.2143,  
10.7060

■ 49.4344, 37.6492,  
4.6616

■ 58.0366, 52.1009,  
16.0153

■ 61.7583, 57.5726,  
23.3343

■ 66.1072, 63.6545,  
32.8485

■ 71.1196, 70.3699,  
44.7217

■ 76.8285, 77.7404,  
59.1022

■ 83.2646, 85.7864,  
76.1259

■ 90.4563, 94.5272,  
95.9187

■ 95.0497, 99.9998,  
108.9000

# Harmonies

## Analogous

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



64.9269, 42.8823, 16.4675



52.3059, 42.8823, 7.1893



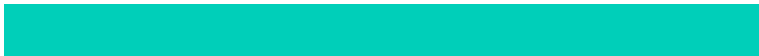
38.6303, 42.8823, 5.4854

# Triad

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



52.3059, 42.8823, 7.1893



20.5496, 42.8823, 53.1741



56.8629, 42.8823, 133.6150

# Complementary

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



52.3059, 42.8823, 7.1893



28.4499, 26.9398, 98.3074

# 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.



42.9631, 42.8823, 160.8310



52.3059, 42.8823, 7.1893



23.4831, 42.8823, 101.0436

# Square

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



52.3059, 42.8823, 7.1893



22.0149, 42.8823, 22.4348



31.0492, 42.8823, 146.5137



67.9265, 42.8823, 84.1112



# Rectangle

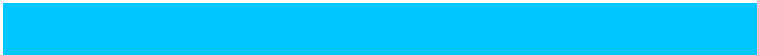
The Rectangle color scheme consists of four colors that form a rectangle on the color wheel.



52.3059, 42.8823, 7.1893



31.0750, 42.8823, 7.1774



31.0492, 42.8823, 146.5137



52.2694, 42.8823, 146.6023

# Sweetspot

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



52.3069, 42.8846, 7.1901



76.7568, 77.6492, 58.9158



47.0203, 24.5817, 29.2578



15.9892, 16.0581, 11.4839



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.



52.3069, 42.8846, 7.1901



49.4348, 37.6495, 4.6616



77.3179, 92.9067, 15.5271



18.7846, 19.5374, 18.9254



25.9810, 19.9733, 2.4859



2.6391, 2.1636, 0.2785



# Inverse Universe

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



28.4499, 26.9398, 98.3074



25.1849, 21.4897, 97.4283



19.4086, 8.8571, 95.2937



17.7286, 18.8288, 22.9499



13.3076, 11.5248, 50.9577



1.4045, 1.3397, 4.9978



# Previews

## White Background



This preview shows how the XYZ color 52.3059, 42.8823, 7.1893 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 52.3059, 42.8823, 7.1893 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 52.3059, 42.8823, 7.1893**

## **Background**



This preview shows how black text looks on a background with the XYZ color 52.3059, 42.8823, 7.1893.



This preview shows how white text looks on a background with the XYZ color 52.3059, 42.8823,



# 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

52.3059, 42.8823, 7.1893

### Protanopia

38.9873, 43.0954, 8.5489

### Deuteranopia

43.9359, 42.8722, 6.8792



## Tritanopia

56.4989, 42.8404, 34.5694

# Trichromacy



## Original Color

52.3059, 42.8823, 7.1893

## Protanomaly

42.9327, 42.3311, 7.9154

## Deuteranomaly

46.7243, 42.7227, 6.9461

## Tritanomaly

54.1257, 42.6149, 19.8408

# Monochromacy



## Original Color

52.3059, 42.8823, 7.1893

## Achromatopsia

37.2190, 39.1572, 42.6422

## Achromatomaly

39.9545, 39.1252, 23.2154

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 52.3059, 42.8823, 7.1893 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, 149, 36)` looks like.

```
.text, #text, p{  
    color:rgb(255, 149, 36)  
}
```

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, 149, 36) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(255, 149, 36) }
```

## Border

The CSS property to change the border of an element to XYZ 52.3059, 42.8823, 7.1893 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, 149, 36) }
```



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

```
.border{ border-color:rgb(255, 149, 36) }
```

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

Here you see how a box with a 4 pixel `rgb(255, 149, 36)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(255, 149, 36); -webkit-box-  
shadow:4px 4px 4px 4px rgb(255, 149, 36);  
box-shadow:4px 4px 4px 4px rgb(255, 149,  
36) }
```

# Background

The CSS property to change the background color of an element to XYZ 52.3059, 42.8823, 7.1893 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(255, 149, 36) }
```

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

```
.background{ background-color: rgb(255,  
149, 36) }
```

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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