

# Converting Colors

XYZ(40.8375, 33.9036, 8.1905)

Have a look what the booklet for  
XYZ(40.8375, 33.9036, 8.1905)  
contains.

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# **Color**

**XYZ(40.7418, 33.7822,  
8.1147)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	E28738
RGB	226, 135, 56
RGB Percent	89%, 53%, 22%
CMY	0.1137, 0.4706, 0.7804
CMYK	0.00, 0.40, 0.75, 0.11
HSL	28°, 75%, 55%
HSV	28°, 75%, 89%
XYZ	40.7418, 33.7822, 8.1147
YIQ	153.2030, 79.5950, -5.2770

# Conversions

## Conversions Part 2

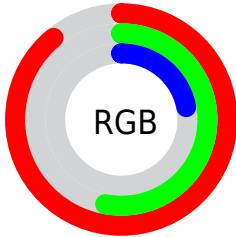
Format	Color
R <sub>Y</sub> B	226, 204, 56
Decimal	14845752
CIE Lab	64.79, 28.77, 55.13
CIE LCh	65, 62.181, 62.443
Yxy	33.7822, 0.4930, 0.4088
Android (android.graphics.Color)	4293035832 (0xFFE28738)
YUV	153.2030, -47.9211, 63.8430
Hunter-Lab	58.1225, 23.4079, 32.4080

# Details

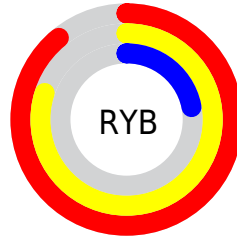
The XYZ color **40.7418, 33.7822, 8.1147** is a dark color, and the websafe version is hex **FF9933**. The color can be described as middle washed orange. A complement of this color would be **25.7914, 27.1978, 75.8413**, and the grayscale version is **30.5457, 32.1364, 34.9966**.

A 20% lighter version of the original color is **62.1444, 58.7379, 22.2495**, and **18.6874, 14.3400, 1.7830** is the 20% darker color. If you saturate the color by 10%, you get **38.7158, 30.4242, 5.3005**, and if you desaturate by 10%, it is **43.2105, 37.6270, 12.3068**.

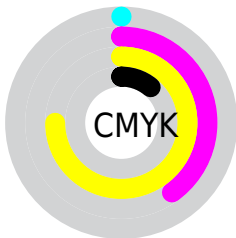
# Distribution



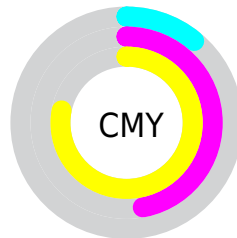
- Red (89%)
- Green (53%)
- Blue (22%)



- Red (89%)
- Yellow (80%)
- Blue (22%)



- Cyan (0%)
- Magenta (40%)
- Yellow (75%)
- Black (11%)




- Cyan (11%)
- Magenta (47%)
- Yellow (78%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 40.7418, 33.7822, 8.1147 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 40.7418, 33.7822, 8.1147 by changing the saturation by 10% instead.





 40.7418, 33.7822,  
8.1147


 40.7418, 33.7822,  
8.1147

340.3214,  
319.1598, 186.5970


 28.3042, 22.7263,  
4.0796


 75.5690, 65.5948,  
22.7329


 18.6967, 14.3916,  
1.6691

 98.6892, 87.1204,  
34.1530

 11.5540, 8.3935,  
0.3394


 126.1010,  
112.9046, 48.8719

 6.5108, 4.3478,  
0.0000

 158.1698,  
143.3319, 67.3082

 3.2017, 1.8699,  
0.0000

 195.2609,  
178.7867, 89.8803

 1.2613, 0.5302,  
0.0000

 237.7396,

 0.1540, 0.0000,

219.6533, 117.0067

0.0000

285.9713,  
266.3162, 149.1061

■ 0.0000, 0.0000,  
0.0000

■ 40.7418, 33.7822,  
8.1147

■ 40.7418, 33.7822,  
8.1147

■ 38.7158, 30.4242,  
5.3005

■ 43.2105, 37.6270,  
12.3068

■ 37.0871, 27.5204,  
3.6679

■ 46.1553, 41.9774,  
18.0338

■ 36.4185, 26.2780,  
3.1527

■ 49.6085, 46.8571,  
25.4330

■ 53.5984, 52.2863,  
34.6259

■ 58.1507, 58.2839,  
45.7223

■ 63.2897, 64.8678,  
58.8234

■ 69.0378, 72.0551,  
74.0231

■ 75.4161, 79.8618,  
91.4093

■ 81.7279, 88.0169,  
107.2892

# Harmonies

## Analogous

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



48.9221, 33.7822, 16.1801



40.7418, 33.7822, 8.1147



31.3813, 33.7822, 6.2543

# Triad

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



40.7418, 33.7822, 8.1147



17.8077, 33.7822, 38.9231



42.2484, 33.7822, 95.9836

# Complementary

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



40.7418, 33.7822, 8.1147



25.7914, 27.1978, 75.8413

# 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.



32.8478, 33.7822, 111.2123



40.7418, 33.7822, 8.1147



19.6707, 33.7822, 70.0432

# Square

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



40.7418, 33.7822, 8.1147



19.1466, 33.7822, 18.3762



24.7908, 33.7822, 100.0189



49.8993, 33.7822, 64.6029



# Rectangle

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



40.7418, 33.7822, 8.1147



25.9799, 33.7822, 7.4552



24.7908, 33.7822, 100.0189



39.1333, 33.7822, 103.6813

# Sweetspot

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



40.7426, 33.7840, 8.1153



77.7938, 78.3617, 63.4588



38.2430, 21.1832, 30.7170



16.1540, 16.1275, 12.3410



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.



40.7426, 33.7840, 8.1153



49.6935, 37.8776, 5.6402



57.0195, 66.3378, 13.5409



14.2296, 14.7452, 14.4029



20.8932, 15.2243, 1.8374



1.5371, 1.2331, 0.1570



# Inverse Universe

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



25.7914, 27.1978, 75.8413



29.1071, 28.7205, 98.6173



17.2203, 10.0555, 72.9843



13.5566, 14.4523, 17.4627



11.8502, 11.1699, 42.5798



0.9108, 0.9530, 2.9812



# Previews

## White Background



This preview shows how the XYZ color 40.7418, 33.7822, 8.1147 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 40.7418, 33.7822, 8.1147 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 40.7418, 33.7822, 8.1147**

## **Background**



This preview shows how black text looks on a background with the XYZ color 40.7418, 33.7822, 8.1147.



This preview shows how white text looks on a background with the XYZ color 40.7418, 33.7822,



# 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

40.7418, 33.7822, 8.1147

### Protanopia

31.0009, 34.0316, 9.4923

### Deuteranopia

34.5298, 33.9220, 7.8597



## Tritanopia

44.6664, 33.7793, 27.4584

# Trichromacy



## Original Color

40.7418, 33.7822, 8.1147

## Protanomaly

33.9701, 33.6083, 8.9716

## Deuteranomaly

36.7804, 33.9177, 7.9764

## Tritanomaly

42.9496, 33.6848, 18.1480

# Monochromacy



## Original Color

40.7418, 33.7822, 8.1147

## Achromatopsia

30.2779, 31.8547, 34.6897

## Achromatomaly

32.3713, 31.5691, 21.5268

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 40.7418, 33.7822, 8.1147 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(226, 135, 56)` looks like.

```
.text, #text, p{  
    color:rgb(226, 135, 56)  
}
```

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(226, 135, 56) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(226, 135, 56) }
```

## Border

The CSS property to change the border of an element to XYZ 40.7418, 33.7822, 8.1147 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(226, 135, 56) }
```



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

```
.border{ border-color:rgb(226, 135, 56) }
```

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

Here you see how a box with a 4 pixel rgb(226, 135, 56) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(226, 135, 56); -webkit-box-  
shadow:4px 4px 4px 4px rgb(226, 135, 56);  
box-shadow:4px 4px 4px 4px rgb(226, 135,  
56) }
```

# Background

The CSS property to change the background color of an element to XYZ 40.7418, 33.7822, 8.1147 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(226, 135, 56) }
```

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

```
.background{ background-color: rgb(226,  
135, 56) }
```

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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