

# Converting Colors

XYZ(49.2408, 44.1155, 10.9098)

Have a look what the booklet for  
XYZ(49.2408, 44.1155, 10.9098)  
contains.

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# Color

**XYZ(49.2956, 44.2221,  
10.9386)**

# Conversions

## Conversions Part 1

Format	Color
Hex	EFA141
RGB	239, 161, 65
RGB Percent	94%, 63%, 25%
CMY	0.0627, 0.3686, 0.7451
CMYK	0.00, 0.33, 0.73, 0.06
HSL	33°, 84%, 60%
HSV	33°, 73%, 94%
XYZ	49.2956, 44.2221, 10.9386
YIQ	173.3780, 77.3040, -13.3200

# Conversions

## Conversions Part 2

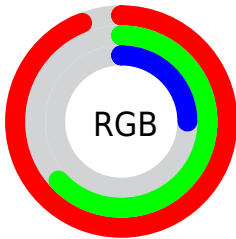
<b>Format</b>	<b>Color</b>
R <sub>Y</sub> B	206, 239, 65
Decimal	15704385
CIE Lab	72.38, 20.79, 59.40
CIE LCh	72, 62.932, 70.711
Yxy	44.2221, 0.4719, 0.4234
Android (android.graphics.Color)	4293894465 (0xFFEFA141)
YUV	173.3780, -53.4304, 57.5505
Hunter-Lab	66.4997, 15.9459, 36.7971

# Details

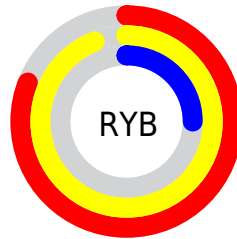
The XYZ color **49.2956, 44.2221, 10.9386** is a light color, and the websafe version is hex **FF9933**. The color can be described as light muted orange. A complement of this color would be **27.5819, 26.9995, 85.4185**, and the grayscale version is **40.1515, 42.2426, 46.0021**.

A 20% lighter version of the original color is **69.0659, 71.6797, 27.3350**, and **23.8342, 20.4044, 2.7110** is the 20% darker color. If you saturate the color by 10%, you get **46.9517, 40.4179, 7.4341**, and if you desaturate by 10%, it is **52.0947, 48.4687, 16.0396**.

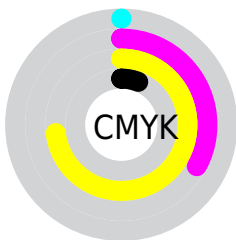
# Distribution



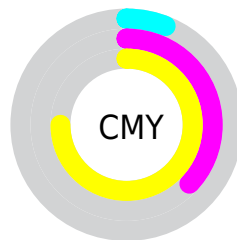
- Red (94%)
- Green (63%)
- Blue (25%)



- Red (81%)
- Yellow (94%)
- Blue (25%)



- Cyan (0%)
- Magenta (33%)
- Yellow (73%)
- Black (6%)




- Cyan (6%)
- Magenta (37%)
- Yellow (75%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 49.2956, 44.2221, 10.9386 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 49.2956, 44.2221, 10.9386 by changing the saturation by 10% instead.





 49.2956, 44.2221,  
10.9386

 49.2956, 44.2221,  
10.9386


374.4026,  
363.6138, 207.9681


 35.0695, 30.8452,  
5.9119


 88.3284, 81.5518,  
28.1815

 23.8832, 20.4810,  
2.7237


 113.8659,  
106.2734, 41.2348


 15.3713, 12.7451,  
0.9553


 143.9045,  
135.5454, 57.8006

 9.1684, 7.2533,  
0.0000

 178.8096,  
169.7520, 78.2977

 4.9092, 3.6210,  
0.0000

 218.9466,  
209.2778, 103.1444

 2.2283, 1.4639,  
0.0000

264.6809,

 0.7576, 0.2631,

254.5071, 132.7594

0.0000

316.3778,  
305.8243, 167.5611

■ 0.0000, 0.0000,  
0.0000

■ 49.2956, 44.2221,  
10.9386

■ 49.2956, 44.2221,  
10.9386

■ 46.9517, 40.4179,  
7.4341

■ 52.0947, 48.4687,  
16.0396

■ 45.0161, 37.0256,  
5.3127


■ 55.3826, 53.1718,  
22.9089


■ 43.8299, 34.8177,  
4.4104


■ 59.1926, 58.3526,  
31.6987


■ 63.5537, 64.0283,  
42.5439

■ 68.4924, 70.2154,  
55.5672

 74.0333, 76.9289,  
70.8813

 80.1996, 84.1835,  
88.5915

 86.8187, 91.9152,  
107.7733

 89.4064, 97.0906,  
108.6359

# Harmonies

## Analogous

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



59.8823, 44.2221, 18.7789



49.2956, 44.2221, 10.9386



38.2779, 44.2221, 10.1010

# Triad

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



49.2956, 44.2221, 10.9386



24.7060, 44.2221, 60.1110



57.1355, 44.2221, 109.0086

# Complementary

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



49.2956, 44.2221, 10.9386



27.5819, 26.9995, 85.4185

# 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.



46.0234, 44.2221, 133.7779



49.2956, 44.2221, 10.9386



28.1361, 44.2221, 98.4865

# Square

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



49.2956, 44.2221, 10.9386



25.2763, 44.2221, 31.0089



35.5190, 44.2221, 129.2648



64.9191, 44.2221, 70.6694



# Rectangle

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



49.2956, 44.2221, 10.9386



32.2654, 44.2221, 12.9151



35.5190, 44.2221, 129.2648



53.5933, 44.2221, 119.8127

# Sweetspot

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



49.2966, 44.2243, 10.9394



79.7933, 81.8910, 65.5730



42.4676, 24.1239, 28.5245



16.7283, 17.0952, 13.0902



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.



49.2966, 44.2243, 10.9394



53.3309, 44.9992, 7.3248



64.5498, 78.9868, 16.8453



16.4959, 17.2049, 16.6012



24.3546, 19.5072, 2.4816



2.1253, 1.8212, 0.2395



# Inverse Universe

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



27.5819, 26.9995, 85.4185



27.0139, 24.2096, 97.8569



20.2716, 11.4570, 82.8038



15.4806, 16.3954, 20.0703



11.6496, 9.5235, 46.3521



1.0670, 0.9880, 3.8887



# Previews

## White Background



This preview shows how the XYZ color 49.2956, 44.2221, 10.9386 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 49.2956, 44.2221, 10.9386 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 49.2956, 44.2221, 10.9386**

## **Background**



This preview shows how black text looks on a background with the XYZ color 49.2956, 44.2221, 10.9386.



This preview shows how white text looks on a background with the XYZ color 49.2956, 44.2221,



# 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

49.2956, 44.2221, 10.9386

### Protanopia

40.3146, 44.2888, 12.2181

### Deuteranopia

45.2094, 44.2644, 10.8637



## Tritanopia

55.2444, 44.1543, 39.7934

# Trichromacy



## Original Color

49.2956, 44.2221, 10.9386

## Protanomaly

43.2365, 44.0685, 11.6961

## Deuteranomaly

46.5565, 44.1366, 10.9159

## Tritanomaly

52.5143, 44.0297, 25.8094

# Monochromacy



## Original Color

49.2956, 44.2221, 10.9386

## Achromatopsia

39.7200, 41.7885, 45.5077

## Achromatomaly

41.5170, 41.9675, 28.4666

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 49.2956, 44.2221, 10.9386 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(239, 161, 65)` looks like.

```
.text, #text, p{  
    color:rgb(239, 161, 65)  
}
```

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(239, 161, 65) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(239, 161, 65) }
```

## Border

The CSS property to change the border of an element to XYZ 49.2956, 44.2221, 10.9386 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(239, 161, 65) }
```



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

```
.border{ border-color:rgb(239, 161, 65) }
```

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

Here you see how a box with a 4 pixel `rgb(239, 161, 65)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(239, 161, 65); -webkit-box-  
shadow:4px 4px 4px 4px rgb(239, 161, 65);  
box-shadow:4px 4px 4px 4px rgb(239, 161,  
65) }
```

# Background

The CSS property to change the background color of an element to XYZ 49.2956, 44.2221, 10.9386 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(239, 161, 65) }
```

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

```
.background{ background-color: rgb(239,  
161, 65) }
```

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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