

# Converting Colors

XYZ(49.0641, 44.2624, 15.7368)

Have a look what the booklet for  
XYZ(49.0641, 44.2624, 15.7368)  
contains.

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# Color

**XYZ(49.0267, 44.2410,  
15.6282)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	EBA25A
RGB	235, 162, 90
RGB Percent	92%, 64%, 35%
CMY	0.0784, 0.3647, 0.6471
CMYK	0.00, 0.31, 0.62, 0.08
HSL	30°, 78%, 64%
HSV	30°, 62%, 92%
XYZ	49.0267, 44.2410, 15.6282
YIQ	175.6190, 66.6200, -6.9160

# Conversions

## Conversions Part 2

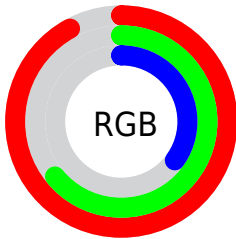
Format	Color
R <sub>Y</sub> B	235, 233, 90
Decimal	15442522
CIE Lab	72.39, 20.00, 47.68
CIE LCh	72, 51.705, 67.241
Yxy	44.2410, 0.4502, 0.4063
Android (android.graphics.Color)	4293632602 (0xFFEBA25A)
YUV	175.6190, -42.2102, 52.0771
Hunter-Lab	66.5139, 15.1711, 32.6289

# Details

The XYZ color **49.0267, 44.2410, 15.6282** is a light color, and the websafe version is hex **FF9966**. The color can be described as light muted orange. A complement of this color would be **32.3082, 34.3644, 83.5269**, and the grayscale version is **41.2579, 43.4065, 47.2697**.

A 20% lighter version of the original color is **70.9353, 72.8387, 35.9118**, and **23.6381, 20.4190, 4.7029** is the 20% darker color. If you saturate the color by 10%, you get **46.1935, 39.9304, 10.5049**, and if you desaturate by 10%, it is **52.3742, 49.0746, 22.4833**.

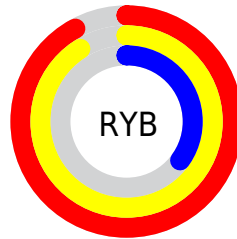
# Distribution



Red (92%)

Green (64%)

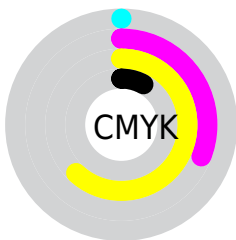
Blue (35%)



Red (92%)

Yellow (91%)

Blue (35%)

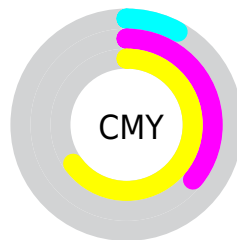


Cyan (0%)

Magenta (31%)

Yellow (62%)

Black (8%)



Cyan (8%)

Magenta (36%)


Yellow (65%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 49.0267, 44.2410, 15.6282 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 49.0267, 44.2410, 15.6282 by changing the saturation by 10% instead.





 49.0267, 44.2410,  
15.6282


 49.0267, 44.2410,  
15.6282

373.3626,  
363.6908, 238.9080

 34.8553, 30.8600,  
9.1099


 87.9316, 81.5803,  
36.7093

 23.7174, 20.4923,  
4.7152


 113.3958,  
106.3073, 52.1092

 15.2477, 12.7534,  
2.0253


 143.3549,  
135.5852, 71.3068

 9.0809, 7.2589,  
0.5708

 178.1744,  
169.7983, 94.7205

 4.8515, 3.6246,  
0.0000

218.2196,  
209.3311, 122.7690

 2.1943, 1.4658,  
0.0000

263.8557,

 0.7397, 0.2645,

254.5678, 155.8707

0.0000

315.4483,  
305.8929, 194.4442

■ 0.0000, 0.0000,  
0.0000

■ 49.0267, 44.2410,  
15.6282

■ 49.0267, 44.2410,  
15.6282

■ 46.1935, 39.9304,  
10.5049

■ 52.3742, 49.0746,  
22.4833

■ 43.8351, 36.1130,  
6.9458

■ 56.2650, 54.4457,  
31.2112

■ 41.9097, 32.7649,  
4.7542

■ 60.7291, 60.3761,  
41.9413

■ 40.5870, 30.3145,  
3.7121

■ 65.7933, 66.8842,  
54.7906

■ 71.4825, 73.9873,  
69.8670

■ 77.8199, 81.7020,  
87.2710

■ 84.8276, 90.0440,  
107.0969

■ 88.0707, 96.4021,  
108.5734

# Harmonies

## Analogous

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



57.2047, 44.2410, 24.1746



49.0267, 44.2410, 15.6282



39.9287, 44.2410, 14.0655

# Triad

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



49.0267, 44.2410, 15.6282



27.2500, 44.2410, 54.6186



53.2844, 44.2410, 98.6968

# Complementary

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



49.0267, 44.2410, 15.6282



32.3082, 34.3644, 83.5269

# 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.



44.2446, 44.2410, 115.0186



49.0267, 44.2410, 15.6282



29.8399, 44.2410, 84.3518

# Square

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



49.0267, 44.2410, 15.6282



28.1559, 44.2410, 31.5835



35.7682, 44.2410, 109.0050



59.8950, 44.2410, 69.7377



# Rectangle

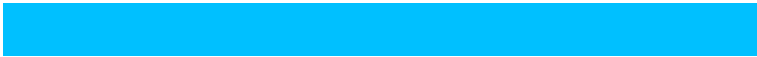
The Rectangle color scheme consists of four colors that form a rectangle on the color wheel.



49.0267, 44.2410, 15.6282



34.6901, 44.2410, 16.4057



35.7682, 44.2410, 109.0050



50.3830, 44.2410, 106.2361

# Sweetspot

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



49.0277, 44.2432, 15.6290



80.9144, 82.6767, 70.4370



44.7011, 27.6883, 38.5462



16.9158, 17.1874, 14.0246



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.



49.0277, 44.2432, 15.6290



54.8042, 46.8009, 11.3457



65.1272, 76.4421, 20.9955



15.6833, 16.2897, 15.8363



22.7162, 17.1266, 2.1085



1.8799, 1.5372, 0.1976



# Inverse Universe

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



32.3082, 34.3644, 83.5269



33.1132, 33.9810, 99.4215



23.0754, 15.8989, 80.4493



14.8578, 15.8021, 19.1893



12.0989, 10.8447, 45.1985



1.0463, 1.0441, 3.5813



# Previews

## White Background



This preview shows how the XYZ color 49.0267, 44.2410, 15.6282 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

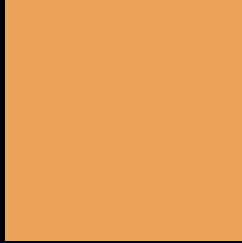
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 49.0267, 44.2410, 15.6282 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

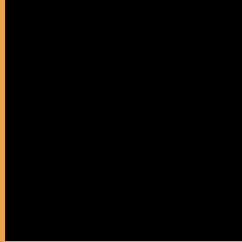
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

If you want to check with other color combinations, try the [Color Contrast Checker](#).

**XYZ 49.0267, 44.2410, 15.6282**

## **Background**



This preview shows how black text looks on a background with the XYZ color 49.0267, 44.2410, 15.6282.



This preview shows how white text looks on a background with the XYZ color 49.0267, 44.2410,

15.6282.

# 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

49.0267, 44.2410, 15.6282

### Protanopia

40.7509, 44.4028, 17.2493

### Deuteranopia

45.1628, 44.1406, 15.3722



## Tritanopia

54.1179, 44.0243, 41.2425

# Trichromacy



## Original Color

49.0267, 44.2410, 15.6282

## Protanomaly

43.3066, 43.9970, 16.5657

## Deuteranomaly

46.4907, 44.0013, 15.4940

## Tritanomaly

51.7358, 43.7891, 29.7701

# Monochromacy



## Original Color

49.0267, 44.2410, 15.6282

## Achromatopsia

41.2663, 43.4154, 47.2793

## Achromatomaly

42.6997, 43.0405, 32.8452

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 49.0267, 44.2410, 15.6282 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(235, 162, 90)` looks like.

```
.text, #text, p{  
    color:rgb(235, 162, 90)  
}
```

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(235, 162, 90) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(235, 162, 90) }
```

## Border

The CSS property to change the border of an element to XYZ 49.0267, 44.2410, 15.6282 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(235, 162, 90) }
```



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

```
.border{ border-color:rgb(235, 162, 90) }
```

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

Here you see how a box with a 4 pixel `rgb(235, 162, 90)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(235, 162, 90); -webkit-box-  
shadow:4px 4px 4px 4px rgb(235, 162, 90);  
box-shadow:4px 4px 4px 4px rgb(235, 162,  
90) }
```

# Background

The CSS property to change the background color of an element to XYZ 49.0267, 44.2410, 15.6282 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(235, 162, 90) }
```

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

```
.background{ background-color: rgb(235,  
162, 90) }
```

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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