

# Converting Colors

XYZ(44.9169, 36.6403, 4.7049)

Have a look what the booklet for  
XYZ(44.9169, 36.6403, 4.7049)  
contains.

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# Color

**XYZ(45.0237, 36.7022,  
4.7112)**

# Conversions

## Conversions Part 1

Format	Color
Hex	F08A00
RGB	240, 138, 0
RGB Percent	94%, 54%, 0%
CMY	0.0588, 0.4588, 1.0000
CMYK	0.00, 0.42, 1.00, 0.06
HSL	35°, 100%, 47%
HSV	35°, 100%, 94%
XYZ	45.0237, 36.7022, 4.7112
YIQ	152.7660, 105.0900, -21.2940

# Conversions

## Conversions Part 2

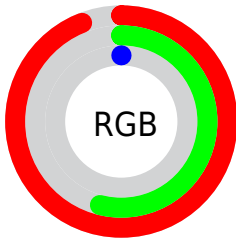
Format	Color
<a href="#">RYB</a>	<a href="#">177, 240, 0</a>
Decimal	<a href="#">15763968</a>
CIELab	<a href="#">67.05, 31.78, 72.98</a>
CIELCh	<a href="#">67, 79.600, 66.470</a>
Yxy	<a href="#">36.7022, 0.5209, 0.4246</a>
Android (android.graphics.Color)	<a href="#">4293954048</a> ( <a href="#">0xFFFF08A00</a> )
YUV	<a href="#">152.7660, -75.3136, 76.5042</a>
Hunter-Lab	<a href="#">60.5823, 26.6389, 37.7969</a>

# Details

The XYZ color **45.0237, 36.7022, 4.7112** is a dark color, and the websafe version is hex **FF9900**. The color can be described as dark saturated orange. A complement of this color would be **20.4798, 15.7945, 84.4068**, and the grayscale version is **30.4631, 32.0496, 34.9020**.

A 20% lighter version of the original color is **61.3257, 59.4537, 14.7221**, and **21.5397, 16.1635, 1.9846** is the 20% darker color. If you saturate the color by 10%, you get **45.0238, 36.7029, 4.7114**, and if you desaturate by 10%, it is **46.7223, 39.8359, 6.0913**.

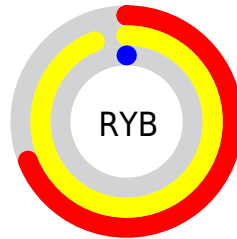
# Distribution



Red (94%)

Green (54%)

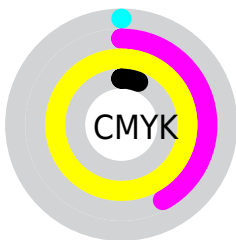
Blue (0%)



Red (69%)

Yellow (94%)

Blue (0%)

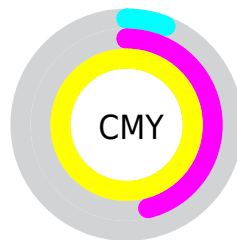


Cyan (0%)

Magenta (42%)

Yellow (100%)

Black (6%)



Cyan (6%)

Magenta (46%)


Yellow (100%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 45.0237, 36.7022, 4.7112 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 45.0237, 36.7022, 4.7112 by changing the saturation by 10% instead.





 45.0237, 36.7022,  
4.7112


 45.0237, 36.7022,  
4.7112


357.6516,  
332.0194, 155.8297


 31.6775, 24.9770,  
2.0231


 81.9928, 70.1145,  
15.6194


 21.2696, 16.0599,  
0.5694


 106.3464, 92.5704,  
24.6765

 13.4348, 9.5666,  
0.0000


 135.0998,  
119.3721, 36.6937

 7.8077, 5.1125,  
0.0000

 168.6184,  
150.9038, 52.0895

 4.0229, 2.3134,  
0.0000

 207.2675,  
187.5500, 71.2825


 1.7151, 0.7808,  
0.0000

 251.4125,


 0.4657, 0.0000,


229.6950, 94.6911


0.0000


 301.4188,  
277.7234, 122.7340


 0.0000, 0.0000,  
0.0000


 45.0237, 36.7022,  
4.7112


 45.0237, 36.7022,  
4.7112


 45.0238, 36.7029,  
4.7114

 46.7223, 39.8359,  
6.0913

 48.7650, 43.3312,  
8.5910

 51.2198, 47.2227,  
12.5479

 54.1279, 51.5322,  
18.1626

 57.5245, 56.2790,  
25.6035

■ 61.4404, 61.4803,  
35.0181

■ 65.9036, 67.1524,  
46.5388

■ 70.9399, 73.3103,  
60.2862

■ 76.5732, 79.9681,  
76.3718

# Harmonies

## Analogous

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



57.1431, 36.7022, 11.9968



45.0237, 36.7022, 4.7112



32.3275, 36.7022, 3.5849

# Triad

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



45.0237, 36.7022, 4.7112



16.4947, 36.7022, 47.9518



50.6247, 36.7022, 121.0832

# Complementary

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



45.0237, 36.7022, 4.7112



20.4798, 15.7945, 84.4068

# 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.



37.5726, 36.7022, 149.4924



45.0237, 36.7022, 4.7112



19.3179, 36.7022, 94.1058

# Square

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



45.0237, 36.7022, 4.7112



17.6031, 36.7022, 18.8239



26.3944, 36.7022, 137.4972



60.8646, 36.7022, 72.9106



# Rectangle

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



45.0237, 36.7022, 4.7112



25.5063, 36.7022, 5.0672



26.3944, 36.7022, 137.4972



46.3183, 36.7022, 134.2307

# Sweetspot

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



45.0245, 36.7042, 4.7119



75.5774, 76.9969, 53.2617



38.4340, 19.5250, 14.8412



15.6967, 15.8773, 10.1404



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.



45.0245, 36.7042, 4.7119



51.6160, 42.0120, 5.3887



61.9004, 78.1671, 11.8256



16.5275, 17.2682, 16.6117



24.7815, 20.3612, 2.6240



2.1600, 1.8906, 0.2511



# Inverse Universe

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



20.4798, 15.7945, 84.4068



23.4519, 18.0237, 96.8506



15.9420, 6.4017, 82.8330



15.4495, 16.3331, 20.0599



11.3362, 8.8966, 46.2476



1.0396, 0.9333, 3.8796



# Previews

## White Background



This preview shows how the XYZ color 45.0237, 36.7022, 4.7112 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 45.0237, 36.7022, 4.7112 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 45.0237, 36.7022, 4.7112**

## **Background**



This preview shows how black text looks on a background with the XYZ color 45.0237, 36.7022, 4.7112.



This preview shows how white text looks on a background with the XYZ color 45.0237, 36.7022,



# 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

45.0237, 36.7022, 4.7112

### Protanopia

33.4006, 36.9122, 5.9805

### Deuteranopia

37.4535, 36.7081, 5.1114



## Tritanopia

49.9628, 36.6858, 28.4925

# Trichromacy



## Original Color

45.0237, 36.7022, 4.7112

## Protanomaly

36.9645, 36.4484, 5.4348

## Deuteranomaly

39.9609, 36.5550, 4.9496

## Tritanomaly

46.9749, 36.2618, 13.7559

# Monochromacy



## Original Color

45.0237, 36.7022, 4.7112

## Achromatopsia

30.2779, 31.8547, 34.6897

## Achromatomaly

32.7552, 32.3572, 15.8284

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 45.0237, 36.7022, 4.7112 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(240, 138, 0)` looks like.

```
.text, #text, p{  
    color:rgb(240, 138, 0)  
}
```

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(240, 138, 0) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(240, 138, 0) }
```

## Border

The CSS property to change the border of an element to XYZ 45.0237, 36.7022, 4.7112 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(240, 138, 0) }
```



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

```
.border{ border-color:rgb(240, 138, 0) }
```

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

Here you see how a box with a 4 pixel rgb(240, 138, 0) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(240, 138, 0); -webkit-box-  
shadow:4px 4px 4px 4px rgb(240, 138, 0);  
box-shadow:4px 4px 4px 4px rgb(240, 138,  
0) }
```

# Background

The CSS property to change the background color of an element to XYZ 45.0237, 36.7022, 4.7112 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(240, 138, 0) }
```

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

```
.background{ background-color: rgb(240,  
138, 0) }
```

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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