

# Converting Colors

XYZ(41.6118, 34.9089, 4.5449)

Have a look what the booklet for  
XYZ(41.6118, 34.9089, 4.5449)  
contains.

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# Color

**XYZ(41.7216, 35.0000,  
4.5567)**

# Conversions

## Conversions Part 1

Format	Color
Hex	E68A00
RGB	230, 138, 0
RGB Percent	90%, 54%, 0%
CMY	0.0980, 0.4588, 1.0000
CMYK	0.00, 0.40, 1.00, 0.10
HSL	36°, 100%, 45%
HSV	36°, 100%, 90%
XYZ	41.7216, 35.0000, 4.5567
YIQ	149.7760, 99.1300, -23.4140

# Conversions

## Conversions Part 2

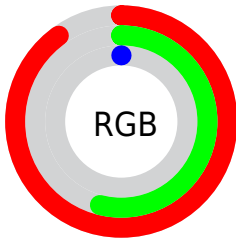
Format	Color
<a href="#">RYB</a>	<a href="#">153, 230, 0</a>
Decimal	<a href="#">15108608</a>
CIELab	<a href="#">65.75, 27.63, 71.51</a>
CIElCh	<a href="#">66, 76.661, 68.874</a>
Yxy	<a href="#">35.0000, 0.5133, 0.4306</a>
Android (android.graphics.Color)	<a href="#">4293298688</a> <a href="#">(0xFFE68A00)</a>
YUV	<a href="#">149.7760, -73.8396, 70.3564</a>
Hunter-Lab	<a href="#">59.1608, 22.3510, 36.8459</a>

# Details

The XYZ color **41.7216, 35.0000, 4.5567** is a dark color, and the websafe version is hex **FF9900**. The color can be described as dark washed orange. A complement of this color would be **18.1103, 13.3679, 76.4880**, and the grayscale version is **29.1697, 30.6888, 33.4201**.

A 20% lighter version of the original color is **61.2922, 59.4403, 14.5460**, and **19.5566, 15.1412, 1.8918** is the 20% darker color. If you saturate the color by 10%, you get **41.7217, 35.0006, 4.5568**, and if you desaturate by 10%, it is **43.2535, 37.8165, 5.8308**.

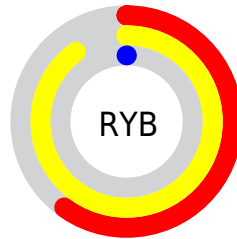
# Distribution



Red (90%)

Green (54%)

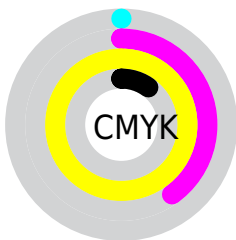
Blue (0%)



Red (60%)

Yellow (90%)

Blue (0%)

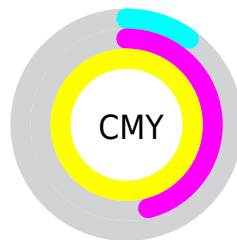


Cyan (0%)

Magenta (40%)

Yellow (100%)

Black (10%)



Cyan (10%)

Magenta (46%)

Yellow (100%)

# Brightness & Saturation Gradients

These gradients show how the XYZ color 41.7216, 35.0000, 4.5567 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 41.7216, 35.0000, 4.5567 by changing the saturation by 10% instead.



41.7216, 35.0000,  
4.5567

41.7216, 35.0000,  
4.5567

344.3389,  
324.5683, 154.2255

29.0735, 23.6629,  
1.9355

77.0459, 67.4858,  
15.2746

19.2810, 15.0837,  
0.5152

100.4529, 89.4032,  
24.2083

11.9787, 8.8782,  
0.0000

128.1768,  
115.6162, 36.0833

6.8013, 4.6618,  
0.0000

160.5831,  
146.5091, 51.3180

3.3834, 2.0502,  
0.0000

198.0371,  
182.4664, 70.3311


1.3596, 0.6364,  
0.0000

240.9041,


0.2272, 0.0000,


223.8725, 93.5410


0.0000


 289.5496,  
271.1116, 121.3663


 0.0000, 0.0000,  
0.0000


 41.7216, 35.0000,  
4.5567


 41.7216, 35.0000,  
4.5567


 41.7217, 35.0006,  
4.5568

 43.2535, 37.8165,  
5.8308

 45.0829, 40.9337,  
8.1107

 47.2720, 44.3820,  
11.7070

 49.8572, 48.1800,  
16.7995

 52.8695, 52.3440,  
23.5396

■ 56.3363, 56.8887,  
32.0600

■ 60.2823, 61.8275,  
42.4795

■ 64.7302, 67.1732,  
54.9069

■ 69.7012, 72.9376,  
69.4425

# Harmonies

## Analogous

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



53.1948, 35.0000, 10.8886



41.7216, 35.0000, 4.5567



30.0281, 35.0000, 3.7729

# Triad

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



41.7216, 35.0000, 4.5567



16.0949, 35.0000, 48.5292



48.8388, 35.0000, 109.9124

# Complementary

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



41.7216, 35.0000, 4.5567



18.1103, 13.3679, 76.4880

# 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.



36.7296, 35.0000, 138.4781



41.7216, 35.0000, 4.5567



19.0642, 35.0000, 91.9739

# Square

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



41.7216, 35.0000, 4.5567



16.8454, 35.0000, 19.8037



26.0385, 35.0000, 130.5173



57.9078, 35.0000, 65.2011



# Rectangle

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



41.7216, 35.0000, 4.5567



23.8447, 35.0000, 5.4741



26.0385, 35.0000, 130.5173



44.8912, 35.0000, 122.6136

# Sweetspot

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



41.7224, 35.0018, 4.5573



76.0898, 78.0217, 53.4325



34.5650, 17.5959, 11.7012



15.8185, 16.1210, 10.1810



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.



41.7224, 35.0018, 4.5573



52.6318, 44.0437, 5.7273



54.0288, 69.8585, 10.6367



15.0926, 15.7992, 15.1585



23.7434, 20.0610, 2.6208



1.8449, 1.6631, 0.2238



# Inverse Universe

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



18.1103, 13.3679, 76.4880



22.8010, 16.7220, 96.6337



14.6365, 5.8956, 75.2287



14.0536, 14.8285, 18.2658



10.3648, 7.7917, 43.3408



0.8548, 0.7535, 3.2324



# Previews

## White Background



This preview shows how the XYZ color 41.7216, 35.0000, 4.5567 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 41.7216, 35.0000, 4.5567 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 41.7216, 35.0000, 4.5567**

## **Background**



This preview shows how black text looks on a background with the XYZ color 41.7216, 35.0000, 4.5567.



This preview shows how white text looks on a background with the XYZ color 41.7216, 35.0000,



# 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

41.7216, 35.0000, 4.5567

### Protanopia

31.9021, 35.3540, 5.6729

### Deuteranopia

35.5854, 35.0130, 4.8826



## Tritanopia

46.5676, 34.9355, 28.3336

# Trichromacy



## Original Color

41.7216, 35.0000, 4.5567

## Protanomaly

35.0048, 34.9487, 5.2174

## Deuteranomaly

37.5851, 34.8645, 4.7486

## Tritanomaly

43.6170, 34.5307, 13.5988

# Monochromacy



## Original Color

41.7216, 35.0000, 4.5567

## Achromatopsia

28.9890, 30.4987, 33.2131

## Achromatomaly

30.9348, 30.9677, 15.1734

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 41.7216, 35.0000, 4.5567 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(230, 138, 0)` looks like.

```
.text, #text, p{  
    color:rgb(230, 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(230, 138, 0) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(230, 138, 0) }
```

## Border

The CSS property to change the border of an element to XYZ 41.7216, 35.0000, 4.5567 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(230, 138, 0) }
```



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

```
.border{ border-color:rgb(230, 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(230, 138, 0)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(230, 138, 0); -webkit-box-  
shadow:4px 4px 4px 4px rgb(230, 138, 0);  
box-shadow:4px 4px 4px 4px rgb(230, 138,  
0) }
```

# Background

The CSS property to change the background color of an element to XYZ 41.7216, 35.0000, 4.5567 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(230, 138, 0) }
```

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

```
.background{ background-color: rgb(230,  
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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