

# Converting Colors

XYZ(42.5097, 34.3555, 4.3908)

Have a look what the booklet for  
XYZ(42.5097, 34.3555, 4.3908)  
contains.

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# Color

**XYZ(42.6485, 34.4372,  
4.3992)**

# Conversions

## Conversions Part 1

Format	Color
Hex	EB8500
RGB	235, 133, 0
RGB Percent	92%, 52%, 0%
CMY	0.0784, 0.4784, 1.0000
CMYK	0.00, 0.43, 1.00, 0.08
HSL	34°, 100%, 46%
HSV	34°, 100%, 92%
XYZ	42.6485, 34.4372, 4.3992
YIQ	148.3360, 103.4850, -19.7390

# Conversions

## Conversions Part 2

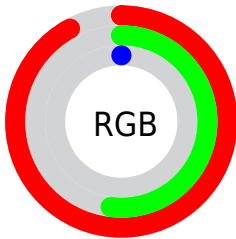
Format	Color
<a href="#">RYB</a>	<a href="#">180, 235, 0</a>
Decimal	<a href="#">15435008</a>
CIELab	<a href="#">65.31, 32.32, 71.56</a>
CIELCh	<a href="#">65, 78.520, 65.692</a>
Yxy	<a href="#">34.4372, 0.5234, 0.4226</a>
Android (android.graphics.Color)	<a href="#">4293625088 (0xFFEB8500)</a>
YUV	<a href="#">148.3360, -73.1296, 76.0043</a>
Hunter-Lab	<a href="#">58.6832, 27.0307, 36.6336</a>

# Details

The XYZ color **42.6485, 34.4372, 4.3992** 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 **19.7470, 15.5013, 80.5480**, and the grayscale version is **28.5562, 30.0433, 32.7172**.

A 20% lighter version of the original color is **60.1800, 57.2685, 14.0130**, and **20.0306, 14.8052, 1.8020** is the 20% darker color. If you saturate the color by 10%, you get **42.6486, 34.4379, 4.3993**, and if you desaturate by 10%, it is **44.2740, 37.4330, 5.7294**.

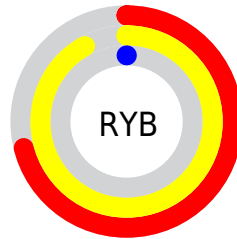
# Distribution



Red (92%)

Green (52%)

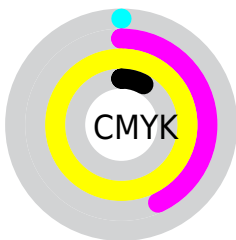
Blue (0%)



Red (71%)

Yellow (92%)

Blue (0%)

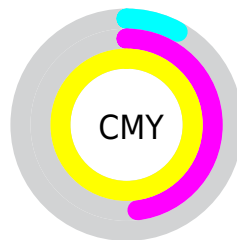


Cyan (0%)

Magenta (43%)

Yellow (100%)

Black (8%)



Cyan (8%)

Magenta (48%)


Yellow (100%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 42.6485, 34.4372, 4.3992 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 42.6485, 34.4372, 4.3992 by changing the saturation by 10% instead.





 42.6485, 34.4372,  
4.3992


 42.6485, 34.4372,  
4.3992


348.1103,  
322.0771, 152.5642


 29.8027, 23.2297,  
1.8468


 78.4392, 66.6130,  
14.9204


 19.8362, 14.7632,  
0.4586


 102.1148, 88.3500,  
23.7264

 12.3836, 8.6534,  
0.0000


 130.1312,  
114.3657, 35.4539

 7.0796, 4.5158,  
0.0000

 162.8535,  
145.0443, 50.5215

 3.5587, 1.9661,  
0.0000

 200.6472,  
180.7704, 69.3478


 1.4556, 0.5876,  
0.0000

 243.8777,


 0.2953, 0.0000,


221.9283, 92.3514


0.0000


 292.9103,  
268.9024, 119.9506


 0.0000, 0.0000,  
0.0000


 42.6485, 34.4372,  
4.3992


 42.6485, 34.4372,  
4.3992

 42.6486, 34.4379,  
4.3993

 44.2740, 37.4330,  
5.7294

 46.2318, 40.7831,  
8.1255

 48.5874, 44.5208,  
11.9115

 51.3800, 48.6674,  
17.2776

 54.6432, 53.2416,  
24.3836

■ 58.4065, 58.2602,  
33.3698

■ 62.6968, 63.7391,  
44.3618

■ 67.5385, 69.6928,  
57.4744

■ 72.9547, 76.1351,  
72.8134

# Harmonies

## Analogous

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



54.0474, 34.4372, 11.4408



42.6485, 34.4372, 4.3992



30.5977, 34.4372, 3.2522

# Triad

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



42.6485, 34.4372, 4.3992



15.3579, 34.4372, 44.0987



47.3176, 34.4372, 115.4751

# Complementary

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



42.6485, 34.4372, 4.3992



19.7470, 15.5013, 80.5480

# 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.



34.9623, 34.4372, 141.6263



42.6485, 34.4372, 4.3992



17.9180, 34.4372, 87.5763

# Square

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



42.6485, 34.4372, 4.3992



16.4972, 34.4372, 17.0806



24.4850, 34.4372, 129.2137



57.1533, 34.4372, 69.8717



# Rectangle

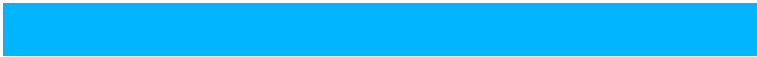
The Rectangle color scheme consists of four colors that form a rectangle on the color wheel.



42.6485, 34.4372, 4.3992



24.0903, 34.4372, 4.5551



24.4850, 34.4372, 129.2137



43.2255, 34.4372, 127.7521

# Sweetspot

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



42.6493, 34.4390, 4.3998



75.3935, 76.6292, 53.2004



36.8496, 18.6978, 15.2358



15.6530, 15.7900, 10.1258



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.



42.6493, 34.4390, 4.3998



51.2622, 41.3044, 5.2707



60.2166, 75.1440, 11.3308



15.7729, 16.4689, 15.8662



23.8654, 19.4250, 2.4916



1.9694, 1.7161, 0.2274



# Inverse Universe

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



19.7470, 15.5013, 80.5480



23.6993, 18.5186, 96.9331



15.1437, 6.0748, 78.9711



14.7690, 15.6244, 19.1597



11.1115, 8.8699, 44.8694



0.9666, 0.8846, 3.5547



# Previews

## White Background



This preview shows how the XYZ color 42.6485, 34.4372, 4.3992 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 42.6485, 34.4372, 4.3992 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 42.6485, 34.4372, 4.3992**

## **Background**



This preview shows how black text looks on a background with the XYZ color 42.6485, 34.4372, 4.3992.



This preview shows how white text looks on a background with the XYZ color 42.6485, 34.4372,



# 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

42.6485, 34.4372, 4.3992

### Protanopia

31.1061, 34.4270, 5.6217

### Deuteranopia

35.1540, 34.5507, 4.8161



## Tritanopia

47.3077, 34.6065, 26.0161

# Trichromacy



## Original Color

42.6485, 34.4372, 4.3992

## Protanomaly

34.5259, 33.9814, 5.0872

## Deuteranomaly

37.4138, 34.0927, 4.6086

## Tritanomaly

44.4495, 33.9960, 12.6066

# Monochromacy



## Original Color

42.6485, 34.4372, 4.3992

## Achromatopsia

28.1479, 29.6138, 32.2495

## Achromatomaly

30.6652, 30.1564, 14.7942

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 42.6485, 34.4372, 4.3992 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, 133, 0)` looks like.

```
.text, #text, p{  
    color:rgb(235, 133, 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(235, 133, 0) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(235, 133, 0) }
```

## Border

The CSS property to change the border of an element to XYZ 42.6485, 34.4372, 4.3992 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, 133, 0) }
```



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

```
.border{ border-color:rgb(235, 133, 0) }
```

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

Here you see how a box with a 4 pixel rgb(235, 133, 0) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(235, 133, 0); -webkit-box-  
shadow:4px 4px 4px 4px rgb(235, 133, 0);  
box-shadow:4px 4px 4px 4px rgb(235, 133,  
0) }
```

# Background

The CSS property to change the background color of an element to XYZ 42.6485, 34.4372, 4.3992 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(235, 133, 0) }
```

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

```
.background{ background-color: rgb(235,  
133, 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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