

# Converting Colors

XYZ(45.1793, 42.0015, 13.9419)

Have a look what the booklet for  
XYZ(45.1793, 42.0015, 13.9419)  
contains.

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# Color

**XYZ(45.0467, 41.9616,  
13.9088)**

# Conversions

## Conversions Part 1

Format	Color
Hex	E0A153
RGB	224, 161, 83
RGB Percent	88%, 63%, 33%
CMY	0.1216, 0.3686, 0.6745
CMYK	0.00, 0.28, 0.63, 0.12
HSL	33°, 69%, 60%
HSV	33°, 63%, 88%
XYZ	45.0467, 41.9616, 13.9088
YIQ	170.9450, 62.5860, -10.9020

# Conversions

## Conversions Part 2

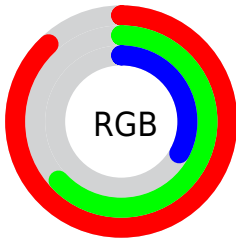
<b>Format</b>	<b>Color</b>
<b>RYB</b>	197, 224, 83
Decimal	14721363
CIELab	70.84, 15.50, 49.01
CIELCh	71, 51.400, 72.445
Yxy	41.9616, 0.4464, 0.4158
Android (android.graphics.Color)	4292911443 (0xFFE0A153)
YUV	170.9450, -43.3569, 46.5292
Hunter-Lab	64.7778, 10.7684, 32.6140

# Details

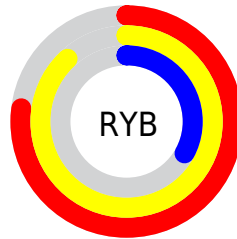
The XYZ color **45.0467, 41.9616, 13.9088** is a light color, and the websafe version is hex **CC9933**. The color can be described as light muted orange. A complement of this color would be **27.3002, 27.7773, 74.4433**, and the grayscale version is **38.8709, 40.8952, 44.5349**.

A 20% lighter version of the original color is **70.1690, 72.1210, 33.1441**, and **21.2464, 19.0409, 3.9220** is the 20% darker color. If you saturate the color by 10%, you get **42.6383, 38.3126, 9.5067**, and if you desaturate by 10%, it is **47.8764, 46.0065, 19.8300**.

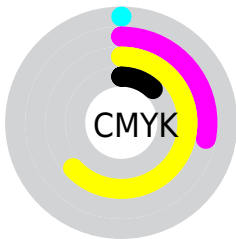
# Distribution



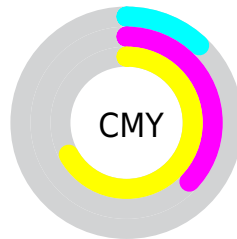
- Red (88%)
- Green (63%)
- Blue (33%)



- Red (77%)
- Yellow (88%)
- Blue (33%)



- Cyan (0%)
- Magenta (28%)
- Yellow (63%)
- Black (12%)




- Cyan (12%)
- Magenta (37%)
- Yellow (67%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 45.0467, 41.9616, 13.9088 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 45.0467, 41.9616, 13.9088 by changing the saturation by 10% instead.





 45.0467, 41.9616,  
13.9088

 45.0467, 41.9616,  
13.9088


357.7432,  
354.3237, 228.0714

 31.6956, 29.0712,  
7.9192


 82.0271, 78.1415,  
33.6419

 21.2836, 19.1347,  
3.9563


 106.3872,  
102.1998, 48.2225


 13.4451, 11.7677,  
1.6014


 135.1477,  
130.7496, 66.5039

 7.8148, 6.5857,  
0.2918

 168.6739,  
164.1752, 88.9047

 4.0275, 3.2044,  
0.0000

 207.3312,  
202.8610, 115.8432

 1.7177, 1.2393,  
0.0000

251.4849,

 0.4673, 0.0935,

247.1914, 147.7382

0.0000

301.5005,  
297.5509, 185.0080

■ 0.0000, 0.0000,  
0.0000

■ 45.0467, 41.9616,  
13.9088

■ 45.0467, 41.9616,  
13.9088

■ 42.6383, 38.3126,  
9.5067

■ 47.8764, 46.0065,  
19.8300

■ 40.6170, 35.0355,  
6.4727

■ 51.1518, 50.4570,  
27.3971

■ 38.9464, 32.1122,  
4.6281

■ 54.8988, 55.3300,  
36.7259

■ 37.9383, 30.2433,  
3.8380

■ 59.1399, 60.6393,  
47.9211

■ 63.8961, 66.3980,  
61.0794

■ 69.1872, 72.6182,  
76.2903

■ 75.0317, 79.3119,  
93.6380

■ 80.2655, 86.0176,  
106.9804

■ 83.3109, 92.1083,  
107.9955

# Harmonies

## Analogous

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



53.2768, 41.9616, 20.7228



45.0467, 41.9616, 13.9088



36.4464, 41.9616, 13.4233

# Triad

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



45.0467, 41.9616, 13.9088



25.8950, 41.9616, 56.5977



52.0304, 41.9616, 89.9482

# Complementary

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



45.0467, 41.9616, 13.9088



27.3002, 27.7773, 74.4433

# 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.



43.5297, 41.9616, 108.7589



45.0467, 41.9616, 13.9088



28.9466, 41.9616, 85.3689

# Square

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



45.0467, 41.9616, 13.9088



26.1803, 41.9616, 32.9159



35.1302, 41.9616, 106.8348



57.6877, 41.9616, 61.4011



# Rectangle

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



45.0467, 41.9616, 13.9088



31.7024, 41.9616, 16.3736



35.1302, 41.9616, 106.8348



49.3627, 41.9616, 98.0108

# Sweetspot

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



45.0477, 41.9637, 13.9096



81.6868, 84.2215, 70.6945



39.0572, 24.1235, 29.9762



17.1023, 17.5604, 14.0867



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.



45.0477, 41.9637, 13.9096



56.1673, 49.7582, 11.0871



56.8172, 68.6796, 18.4460



14.3328, 14.9515, 14.4373



22.1994, 17.8368, 2.2728



1.6277, 1.4143, 0.1872



# Inverse Universe

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



27.3002, 27.7773, 74.4433



30.5429, 29.3306, 98.6593



20.7694, 13.7449, 72.0790



13.4537, 14.2464, 17.4284



10.5994, 8.6684, 42.1629



0.8230, 0.7775, 2.9519



# Previews

## White Background



This preview shows how the XYZ color 45.0467, 41.9616, 13.9088 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 45.0467, 41.9616, 13.9088 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 45.0467, 41.9616, 13.9088**

## **Background**



This preview shows how black text looks on a background with the XYZ color 45.0467, 41.9616, 13.9088.



This preview shows how white text looks on a background with the XYZ color 45.0467, 41.9616,



# 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

45.0467, 41.9616, 13.9088

### Protanopia

38.5946, 42.1667, 15.1217

### Deuteranopia

42.7097, 41.8156, 13.8028



## Tritanopia

50.4722, 41.9238, 40.0823

# Trichromacy



## Original Color

45.0467, 41.9616, 13.9088

## Protanomaly

40.7695, 41.8852, 14.7400

## Deuteranomaly

43.7119, 42.0655, 13.7982

## Tritanomaly

48.0193, 41.6579, 28.0641

# Monochromacy



## Original Color

45.0467, 41.9616, 13.9088

## Achromatopsia

38.7082, 40.7240, 44.3485

## Achromatomaly

39.7141, 40.4487, 30.1403

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 45.0467, 41.9616, 13.9088 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(224, 161, 83)` looks like.

```
.text, #text, p{  
    color:rgb(224, 161, 83)  
}
```

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(224, 161, 83) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(224, 161, 83) }
```

## Border

The CSS property to change the border of an element to XYZ 45.0467, 41.9616, 13.9088 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(224, 161, 83) }
```



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

```
.border{ border-color:rgb(224, 161, 83) }
```

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

Here you see how a box with a 4 pixel `rgb(224, 161, 83)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px 4px rgb(224, 161, 83); -webkit-box-shadow:4px 4px 4px 4px rgb(224, 161, 83); box-shadow:4px 4px 4px 4px rgb(224, 161, 83) }
```

# Background

The CSS property to change the background color of an element to XYZ 45.0467, 41.9616, 13.9088 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(224, 161, 83) }
```

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

```
.background{ background-color: rgb(224,  
161, 83) }
```

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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