

# Converting Colors

XYZ(45.9239, 40.7218, 15.4790)

Have a look what the booklet for  
XYZ(45.9239, 40.7218, 15.4790)  
contains.

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# Color

**XYZ(45.8005, 40.5419,  
15.5366)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	E59A5C
RGB	229, 154, 92
RGB Percent	90%, 60%, 36%
CMY	0.1020, 0.3961, 0.6392
CMYK	0.00, 0.33, 0.60, 0.10
HSL	27°, 72%, 63%
HSV	27°, 60%, 90%
XYZ	45.8005, 40.5419, 15.5366
YIQ	169.3570, 64.6020, -3.3820

# Conversions

## Conversions Part 2

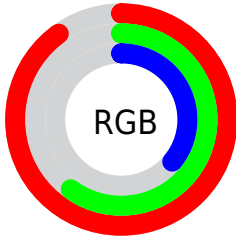
Format	Color
R <sub>Y</sub> B	229, 205, 92
Decimal	15047260
CIE Lab	69.85, 21.94, 43.51
CIE LCh	70, 48.729, 63.246
Yxy	40.5419, 0.4496, 0.3979
Android (android.graphics.Color)	4293237340 (0xFFE59A5C)
YUV	169.3570, -38.1370, 52.3069
Hunter-Lab	63.6725, 16.9705, 30.1035

# Details

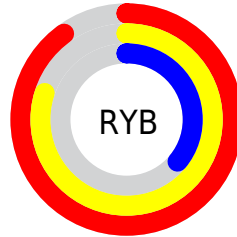
The XYZ color **45.8005, 40.5419, 15.5366** is a light color, and the websafe version is hex **FF9966**. The color can be described as light muted orange. A complement of this color would be **32.3745, 35.5682, 79.2876**, and the grayscale version is **38.0506, 40.0322, 43.5950**.

A 20% lighter version of the original color is **69.0745, 68.8745, 36.0391**, and **21.8639, 18.4210, 4.6887** is the 20% darker color. If you saturate the color by 10%, you get **42.9848, 36.2777, 10.3836**, and if you desaturate by 10%, it is **49.1368, 45.3633, 22.3562**.

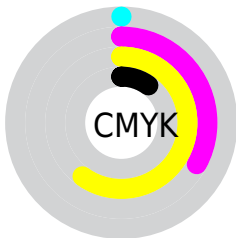
# Distribution



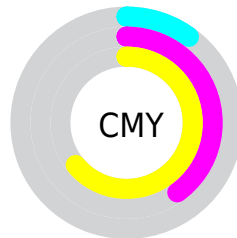
- Red (90%)
- Green (60%)
- Blue (36%)



- Red (90%)
- Yellow (80%)
- Blue (36%)



- Cyan (0%)
- Magenta (33%)
- Yellow (60%)
- Black (10%)



- Cyan (10%)
- Magenta (40%)
- Yellow (64%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 45.8005, 40.5419, 15.5366 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 45.8005, 40.5419, 15.5366 by changing the saturation by 10% instead.





 45.8005, 40.5419,  
15.5366


 45.8005, 40.5419,  
15.5366


360.7354,  
348.4023, 238.3432


 32.2924, 27.9613,  
9.0461


 83.1500, 75.9880,  
36.5474

 21.7415, 18.2965,  
4.6740


 107.7222, 99.6223,  
51.9046

 13.7827, 11.1631,  
2.0019


 136.7130,  
127.7099, 71.0546

 8.0503, 6.1766,  
0.5565

 170.4879,  
160.6353, 94.4157

 4.1793, 2.9528,  
0.0000

209.4123,  
198.7829, 122.4066

 1.8040, 1.1071,  
0.0000

253.8514,

 0.5201, 0.0000,

242.5370, 155.4458

0.0000

304.1707,  
292.2820, 193.9518

■ 0.0000, 0.0000,  
0.0000

■ 45.8005, 40.5419,  
15.5366

■ 45.8005, 40.5419,  
15.5366

■ 42.9848, 36.2777,  
10.3836

■ 49.1368, 45.3633,  
22.3562

■ 40.6518, 32.5402,  
6.7440

■ 53.0217, 50.7584,  
30.9723

■ 38.7622, 29.3041,  
4.4398

■ 57.4845, 56.7502,  
41.5045

■ 37.2518, 26.5321,  
3.1694

■ 62.5512, 63.3583,  
54.0613

■ 37.2275, 26.4870,  
3.1504

■ 68.2461, 70.6016,  
68.7430

■ 74.5921, 78.4978,  
85.6432

■ 81.6109, 87.0640,  
104.8499

■ 85.8972, 94.9463,  
108.4070

■ 86.1230, 95.3980,  
108.4822

# Harmonies

## Analogous

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



52.7181, 40.5419, 24.2965



45.8005, 40.5419, 15.5366



37.6782, 40.5419, 13.3559

# Triad

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



45.8005, 40.5419, 15.5366



25.2464, 40.5419, 46.6583



47.4963, 40.5419, 91.5624

# Complementary

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



45.8005, 40.5419, 15.5366



32.3745, 35.5682, 79.2876

# 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.



39.4023, 40.5419, 103.5418



45.8005, 40.5419, 15.5366



27.1536, 40.5419, 72.6172

# Square

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



45.8005, 40.5419, 15.5366



26.4767, 40.5419, 27.2830



32.0796, 40.5419, 95.6367



53.7876, 40.5419, 66.8200



# Rectangle

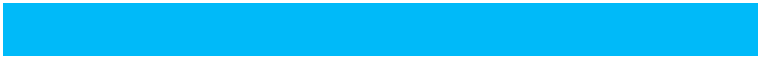
The Rectangle color scheme consists of four colors that form a rectangle on the color wheel.



45.8005, 40.5419, 15.5366



32.8327, 40.5419, 14.9812



32.0796, 40.5419, 95.6367



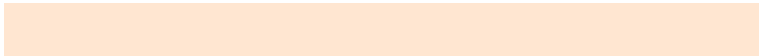
44.8595, 40.5419, 97.5372

# Sweetspot

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



45.8015, 40.5439, 15.5374



81.0228, 82.3920, 72.0194



43.1478, 27.1156, 39.6891



16.9110, 17.0804, 14.3230



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.



45.8015, 40.5439, 15.5374



54.0279, 44.9954, 11.8662



60.4059, 69.7529, 20.4055



14.9115, 15.4369, 15.0982



21.4017, 15.3776, 1.8402



1.6733, 1.3199, 0.1666



# Inverse Universe

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



32.3745, 35.5682, 79.2876



35.4122, 38.0432, 100.0844



23.0044, 16.8281, 76.1642



14.2335, 15.1883, 18.3258



12.4270, 11.9160, 44.0282



1.0108, 1.0656, 3.2844



# Previews

## White Background



This preview shows how the XYZ color 45.8005, 40.5419, 15.5366 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

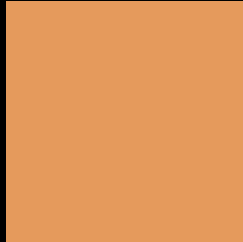
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 45.8005, 40.5419, 15.5366 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

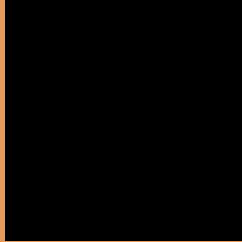
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

# XYZ 45.8005, 40.5419, 15.5366

## Background



This preview shows how black text looks on a background with the XYZ color 45.8005, 40.5419, 15.5366.



This preview shows how white text looks on a background with the XYZ color 45.8005, 40.5419,



# 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

45.8005, 40.5419, 15.5366

### Protanopia

37.5066, 40.6990, 17.4342

### Deuteranopia

41.5210, 40.6342, 15.3277



## Tritanopia

50.2964, 40.4845, 37.0617

# Trichromacy



**Original Color**

45.8005, 40.5419, 15.5366

**Protanomaly**

40.1951, 40.4513, 16.7557

**Deuteranomaly**

43.0744, 40.6487, 15.4732

**Tritanomaly**

48.2598, 40.3442, 27.4339

# Monochromacy



**Original Color**

45.8005, 40.5419, 15.5366

**Achromatopsia**

37.7116, 39.6755, 43.2066

**Achromatomaly**

39.5690, 39.5504, 30.7478

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 45.8005, 40.5419, 15.5366 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(229, 154, 92)` looks like.

```
.text, #text, p{  
    color:rgb(229, 154, 92)  
}
```

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(229, 154, 92) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(229, 154, 92) }
```

## Border

The CSS property to change the border of an element to XYZ 45.8005, 40.5419, 15.5366 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(229, 154, 92) }
```



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

```
.border{ border-color:rgb(229, 154, 92) }
```

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

Here you see how a box with a 4 pixel `rgb(229, 154, 92)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(229, 154, 92); -webkit-box-  
shadow:4px 4px 4px 4px rgb(229, 154, 92);  
box-shadow:4px 4px 4px 4px rgb(229, 154,  
92) }
```

# Background

The CSS property to change the background color of an element to XYZ 45.8005, 40.5419, 15.5366 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(229, 154, 92) }
```

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

```
.background{ background-color: rgb(229,  
154, 92) }
```

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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