

# Converting Colors

XYZ(46.7989, 40.5822, 15.8598)

Have a look what the booklet for  
XYZ(46.7989, 40.5822, 15.8598)  
contains.

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# Color

**XYZ(46.8529, 40.5883,  
15.9546)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	E9985E
RGB	233, 152, 94
RGB Percent	91%, 60%, 37%
CMY	0.0863, 0.4039, 0.6314
CMYK	0.00, 0.35, 0.60, 0.09
HSL	25°, 76%, 64%
HSV	25°, 60%, 91%
XYZ	46.8529, 40.5883, 15.9546
YIQ	169.6070, 66.8940, -0.8660

# Conversions

## Conversions Part 2

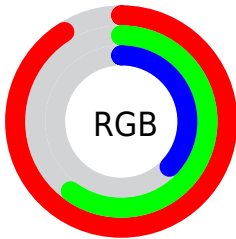
Format	Color
<a href="#">RYB</a>	<a href="#">233, 194, 94</a>
Decimal	<a href="#">15308894</a>
CIELab	<a href="#">69.89, 24.77, 42.64</a>
CIElCh	<a href="#">70, 49.315, 59.843</a>
Yxy	<a href="#">40.5883, 0.4531, 0.3926</a>
Android (android.graphics.Color)	<a href="#">4293498974 (0xFFE9985E)</a>
YUV	<a href="#">169.6070, -37.2743, 55.5957</a>
Hunter-Lab	<a href="#">63.7089, 19.7820, 29.7483</a>

# Details

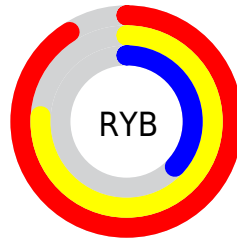
The XYZ color **46.8529, 40.5883, 15.9546** is a light color, and the websafe version is hex **FF9966**. The color can be described as light muted orange. A complement of this color would be **34.6531, 38.9208, 82.7764**, and the grayscale version is **38.1701, 40.1579, 43.7320**.

A 20% lighter version of the original color is **68.7411, 67.9610, 36.6889**, and **22.3609, 18.3811, 4.8520** is the 20% darker color. If you saturate the color by 10%, you get **43.8822, 36.0752, 10.5616**, and if you desaturate by 10%, it is **50.3933, 45.7362, 23.0948**.

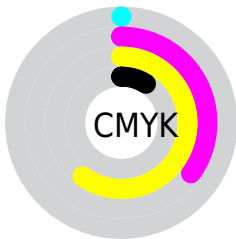
# Distribution



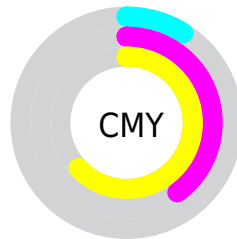
- Red (91%)
- Green (60%)
- Blue (37%)



- Red (91%)
- Yellow (76%)
- Blue (37%)



- Cyan (0%)
- Magenta (35%)
- Yellow (60%)
- Black (9%)




- Cyan (9%)
- Magenta (40%)
- Yellow (63%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 46.8529, 40.5883, 15.9546 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 46.8529, 40.5883, 15.9546 by changing the saturation by 10% instead.





 46.8529, 40.5883,  
15.9546


 46.8529, 40.5883,  
15.9546


364.8858,  
348.5970, 240.9102

 33.1268, 27.9975,  
9.3380


 84.7141, 76.0585,  
37.2851


 22.3833, 18.3238,  
4.8625


 109.5799, 99.7068,  
52.8360

 14.2570, 11.1827,  
2.1095

 138.8897,  
127.8096, 72.2022

 8.3825, 6.1899,  
0.6214

 173.0089,  
160.7515, 95.8022

 4.3945, 2.9609,  
0.0000

212.3027,  
198.9168, 124.0544

 1.9277, 1.1113,  
0.0000

257.1365,

 0.5928, 0.0000,

242.6899, 157.3774

0.0000

307.8758,  
292.4551, 196.1899

■ 0.0000, 0.0000,  
0.0000

■ 46.8529, 40.5883,  
15.9546

■ 46.8529, 40.5883,  
15.9546

■ 43.8822, 36.0752,  
10.5616

■ 50.3933, 45.7362,  
23.0948

■ 41.4404, 32.1621,  
6.7558

■ 54.5344, 51.5392,  
32.1180

■ 39.4847, 28.8192,  
4.3513

■ 59.3079, 58.0239,  
43.1493

■ 37.9481, 26.0046,  
3.0423

■ 64.7422, 65.2137,  
56.3022

■ 37.9003, 25.9160,  
3.0047

■ 70.8639, 73.1305,  
71.6816

■ 77.6981, 81.7951,  
89.3854

■ 84.9282, 91.0917,  
107.7140

■ 87.4141, 96.0635,  
108.5426

# Harmonies

## Analogous

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



53.5553, 40.5883, 25.6620



46.8529, 40.5883, 15.9546



38.6202, 40.5883, 13.1125

# Triad

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



46.8529, 40.5883, 15.9546



25.1235, 40.5883, 44.0729



46.7697, 40.5883, 94.6202

# Complementary

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



46.8529, 40.5883, 15.9546



34.6531, 38.9208, 82.7764

# 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.



38.5357, 40.5883, 104.6833



46.8529, 40.5883, 15.9546



26.6910, 40.5883, 70.0080

# Square

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



46.8529, 40.5883, 15.9546



26.7240, 40.5883, 25.5165



31.3396, 40.5883, 94.4195



53.5027, 40.5883, 70.2930



# Rectangle

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



46.8529, 40.5883, 15.9546



33.5778, 40.5883, 14.3136



31.3396, 40.5883, 94.4195



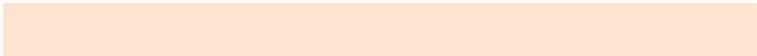
44.0514, 40.5883, 100.0940

# Sweetspot

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



46.8539, 40.5903, 15.9554



80.5745, 81.4953, 71.8700



45.3531, 28.4277, 43.6973



16.8022, 16.8628, 14.2868



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.



46.8539, 40.5903, 15.9554



52.9829, 42.9054, 11.5178



61.5911, 70.0647, 20.8678



15.5819, 16.0869, 15.8025



21.6216, 14.9374, 1.7436



1.7909, 1.3590, 0.1679



# Inverse Universe

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



34.6531, 38.9208, 82.7764



36.6745, 40.5679, 100.5052



24.4356, 18.4857, 79.3706



14.9604, 16.0072, 19.2235



13.4479, 13.5428, 45.6482



1.1506, 1.2528, 3.6160



# Previews

## White Background



This preview shows how the XYZ color 46.8529, 40.5883, 15.9546 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 46.8529, 40.5883, 15.9546 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

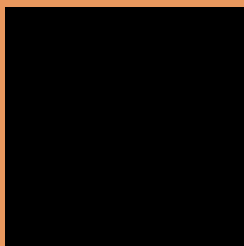
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**XYZ 46.8529, 40.5883, 15.9546**

## **Background**



This preview shows how black text looks on a background with the XYZ color 46.8529, 40.5883, 15.9546.



This preview shows how white text looks on a background with the XYZ color 46.8529, 40.5883,



# 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

46.8529, 40.5883, 15.9546

### Protanopia

37.4054, 40.6302, 18.1829

### Deuteranopia

41.6073, 40.6687, 15.7821



## Tritanopia

50.9668, 40.6219, 36.1649

# Trichromacy



## Original Color

46.8529, 40.5883, 15.9546

## Protanomaly

40.3819, 40.2701, 17.1998

## Deuteranomaly

43.2874, 40.4920, 15.8902

## Tritanomaly

49.4156, 40.7061, 27.4429

# Monochromacy



## Original Color

46.8529, 40.5883, 15.9546

## Achromatopsia

38.2080, 40.1978, 43.7754

## Achromatomaly

39.9720, 39.4848, 31.1058

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 46.8529, 40.5883, 15.9546 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(233, 152, 94)` looks like.

```
.text, #text, p{  
    color:rgb(233, 152, 94)  
}
```

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(233, 152, 94) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(233, 152, 94) }
```

## Border

The CSS property to change the border of an element to XYZ 46.8529, 40.5883, 15.9546 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(233, 152, 94) }
```



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

```
.border{ border-color:rgb(233, 152, 94) }
```

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

Here you see how a box with a 4 pixel rgb(233, 152, 94) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(233, 152, 94); -webkit-box-  
shadow:4px 4px 4px 4px rgb(233, 152, 94);  
box-shadow:4px 4px 4px 4px rgb(233, 152,  
94) }
```

# Background

The CSS property to change the background color of an element to XYZ 46.8529, 40.5883, 15.9546 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(233, 152, 94) }
```

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

```
.background{ background-color: rgb(233,  
152, 94) }
```

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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