

# Converting Colors

XYZ(45.0432, 37.0249, 18.0736)

Have a look what the booklet for  
XYZ(45.0432, 37.0249, 18.0736)  
contains.

<b>XYZ(45.0297, 37.0586, 18.1443)</b> .....	3
<b><i>Conversions</i></b> .....	4
<b><i>Details</i></b> .....	6
<b><i>Harmonies</i></b> .....	12
<b><i>Previews</i></b> .....	24
<b><i>Color Blindness Simulation</i></b> .....	28
<b><i>CSS Examples</i></b> .....	31

# Color

**XYZ(45.0297, 37.0586,  
18.1443)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	E78D69
RGB	231, 141, 105
RGB Percent	91%, 55%, 41%
CMY	0.0941, 0.4470, 0.5882
CMYK	0.00, 0.39, 0.55, 0.09
HSL	17°, 72%, 66%
HSV	17°, 55%, 91%
XYZ	45.0297, 37.0586, 18.1443
YIQ	163.8060, 65.1960, 7.8840

# Conversions

## Conversions Part 2

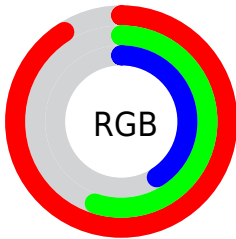
<b>Format</b>	<b>Color</b>
R <sub>Y</sub> B	231, 155, 105
Decimal	15175017
CIE Lab	67.32, 30.64, 33.60
CIE LCh	67, 45.473, 47.635
Yxy	37.0586, 0.4493, 0.3697
Android (android.graphics.Color)	4293365097 (0xFFE78D69)
YUV	163.8060, -28.9914, 58.9291
Hunter-Lab	60.8758, 25.5035, 24.9414

# Details

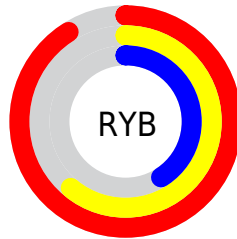
The XYZ color **45.0297, 37.0586, 18.1443** is a light color, and the websafe version is hex **FF9966**. A complement of this color would be **39.7635, 47.8006, 82.7317**, and the grayscale version is **35.3070, 37.1457, 40.4517**.

A 20% lighter version of the original color is **66.8409, 62.7245, 40.4824**, and **21.4079, 16.3784, 5.9039** is the 20% darker color. If you saturate the color by 10%, you get **41.7456, 32.1394, 11.9663**, and if you desaturate by 10%, it is **49.0005, 42.8354, 26.1425**.

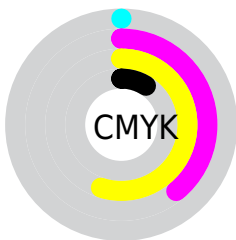
# Distribution



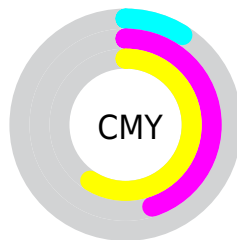
- Red (91%)
- Green (55%)
- Blue (41%)



- Red (91%)
- Yellow (61%)
- Blue (41%)



- Cyan (0%)
- Magenta (39%)
- Yellow (55%)
- Black (9%)



- Cyan (9%)
- Magenta (45%)
- Yellow (59%)

# Brightness & Saturation Gradients

These gradients show how the XYZ color 45.0297, 37.0586, 18.1443 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 45.0297, 37.0586, 18.1443 by changing the saturation by 10% instead.



45.0297, 37.0586,  
18.1443

45.0297, 37.0586,  
18.1443

357.6755,  
333.5642, 253.9465

31.6822, 25.2529,  
10.8831

82.0018, 70.6629,  
41.1003

21.2732, 16.2655,  
5.8751

106.3570, 93.2303,  
57.6322

13.4375, 9.7123,  
2.7017

135.1123,  
120.1536, 78.0915

7.8095, 5.2086,  
0.9443

168.6329,  
151.8174, 102.8966

4.0241, 2.3702,  
0.0000

207.2841,  
188.6059, 132.4661

1.7158, 0.8105,  
0.0000

251.4314,

0.4661, 0.0000,

230.9036, 167.2186

0.0000

301.4401,  
279.0949, 207.5725

■ 0.0000, 0.0000,  
0.0000

■ 45.0297, 37.0586,  
18.1443

■ 45.0297, 37.0586,  
18.1443

■ 41.7456, 32.1394,  
11.9663

■ 49.0005, 42.8354,  
26.1425

■ 39.1026, 28.0295,  
7.4600

■ 53.6941, 49.5036,  
36.0891

■ 37.0536, 24.6840,  
4.4568

■ 59.1470, 57.1020,  
48.1030

■ 35.5418, 22.0505,  
2.7503

■ 65.3924, 65.6653,  
62.2928

■ 34.9037, 20.8865,  
2.1919

■ 72.4615, 75.2264,  
78.7597

■ 80.3837, 85.8166,  
97.5984

■ 86.7649, 95.7289,  
108.5123

# Harmonies

## Analogous

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



49.5740, 37.0586, 29.8196



45.0297, 37.0586, 18.1443



38.1664, 37.0586, 13.3020

# Triad

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



45.0297, 37.0586, 18.1443



23.7039, 37.0586, 32.6892



39.4339, 37.0586, 88.9901

# Complementary

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



45.0297, 37.0586, 18.1443



39.7635, 47.8006, 82.7317

# 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.



32.4351, 37.0586, 90.5443



45.0297, 37.0586, 18.1443



23.9493, 37.0586, 53.1079

# Square

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



45.0297, 37.0586, 18.1443



26.2335, 37.0586, 19.6464



26.9549, 37.0586, 75.7997



46.0623, 37.0586, 72.0692



# Rectangle

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



45.0297, 37.0586, 18.1443



33.4751, 37.0586, 13.0417



26.9549, 37.0586, 75.7997



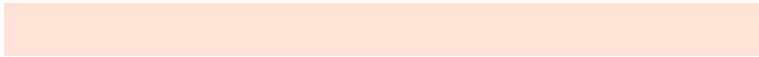
37.0309, 37.0586, 91.4886

# Sweetspot

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



45.0306, 37.0605, 18.1450



80.5612, 80.4413, 75.0330



47.8909, 31.0460, 55.2762



16.8863, 16.7298, 15.2436



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.



45.0306, 37.0605, 18.1450



51.9446, 39.7674, 14.4444



57.0264, 61.0521, 22.1436



14.7107, 15.0354, 15.0312



19.6592, 11.8926, 1.2593



1.5301, 1.0335, 0.1188



# Inverse Universe

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



39.7635, 47.8006, 82.7317



44.6610, 54.2905, 102.7330



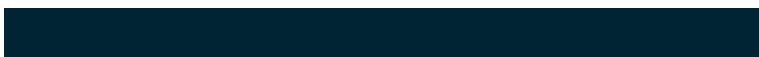
28.5418, 25.3571, 78.9912



14.4412, 15.6038, 18.3950



15.7393, 18.5406, 45.1323

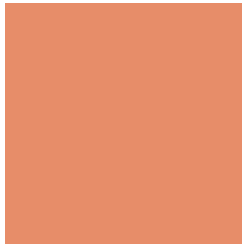


1.2414, 1.5267, 3.3612



# Previews

## White Background



This preview shows how the XYZ color 45.0297, 37.0586, 18.1443 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 45.0297, 37.0586, 18.1443 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 45.0297, 37.0586, 18.1443**

## **Background**



This preview shows how black text looks on a background with the XYZ color 45.0297, 37.0586, 18.1443.



This preview shows how white text looks on a background with the XYZ color 45.0297, 37.0586,



# 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

45.0297, 37.0586, 18.1443

### Protanopia

34.4442, 37.1129, 21.2677

### Deuteranopia

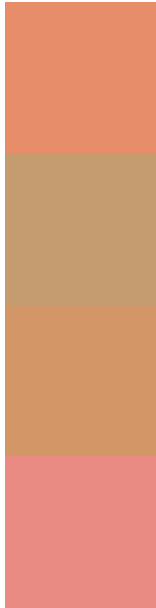
38.0084, 37.2154, 17.7504



## Tritanopia

47.9242, 37.1761, 31.8439

# Trichromacy



**Original Color**

45.0297, 37.0586, 18.1443

**Protanomaly**

37.7837, 36.7949, 20.1496

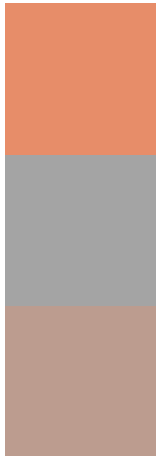
**Deuteranomaly**

40.3788, 36.9614, 17.8380

**Tritanomaly**

46.7895, 37.1393, 26.1753

# Monochromacy



**Original Color**

45.0297, 37.0586, 18.1443

**Achromatopsia**

35.2861, 37.1238, 40.4278

**Achromatomaly**

37.5854, 36.4515, 31.0415

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 45.0297, 37.0586, 18.1443 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(231, 141, 105)` looks like.

```
.text, #text, p{  
    color:rgb(231, 141, 105)  
}
```

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(231, 141, 105) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(231, 141, 105) }
```

## Border

The CSS property to change the border of an element to XYZ 45.0297, 37.0586, 18.1443 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(231, 141, 105) }
```



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

```
.border{ border-color:rgb(231, 141, 105) }
```

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

Here you see how a box with a 4 pixel `rgb(231, 141, 105)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(231, 141, 105); -webkit-box-  
shadow:4px 4px 4px 4px rgb(231, 141, 105);  
box-shadow:4px 4px 4px 4px rgb(231, 141,  
105) }
```

# Background

The CSS property to change the background color of an element to XYZ 45.0297, 37.0586, 18.1443 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(231, 141, 105) }
```

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

```
.background{ background-color: rgb(231,  
141, 105) }
```

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](#).

Hey! You found this booklet interesting? Support Converting Colors with the new Membership Option!

The pro membership hides all ads, plus gives you double the colors in the color bucket, and more awesome pro features!

**[Learn more, Memberships starting at \\$2.50/m!](#)**

**Follow me  
on Twitter!**

@ConvertingColor