

# Converting Colors

XYZ(47.1879, 42.7767, 12.8397)

Have a look what the booklet for  
XYZ(47.1879, 42.7767, 12.8397)  
contains.

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# Color

**XYZ(47.1891, 42.8332,  
12.8017)**

# Conversions

## Conversions Part 1

Format	Color
Hex	E8A04D
RGB	232, 160, 77
RGB Percent	91%, 63%, 30%
CMY	0.0902, 0.3725, 0.6980
CMYK	0.00, 0.31, 0.67, 0.09
HSL	32°, 77%, 61%
HSV	32°, 67%, 91%
XYZ	47.1891, 42.8332, 12.8017
YIQ	172.0660, 69.5550, -10.5490

# Conversions

## Conversions Part 2

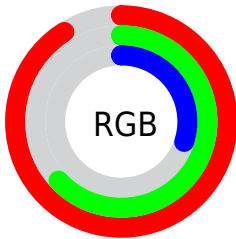
Format	Color
<b>R<sub>YB</sub></b>	211, 232, 77
Decimal	15245389
CIE <sub>Lab</sub>	71.44, 19.01, 52.78
CIE <sub>LCh</sub>	71, 56.103, 70.190
Yxy	42.8332, 0.4589, 0.4166
Android (android.graphics.Color)	4293435469 (0xFFE8A04D)
YUV	172.0660, -46.8675, 52.5621
Hunter-Lab	65.4471, 14.1709, 34.2156

# Details

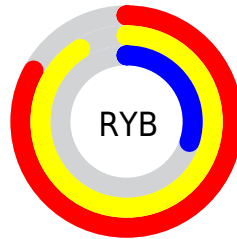
The XYZ color **47.1891, 42.8332, 12.8017** is a light color, and the websafe version is hex **CC9933**. The color can be described as light muted orange. A complement of this color would be **28.3730, 28.8977, 80.4260**, and the grayscale version is **39.4523, 41.5069, 45.2010**.

A 20% lighter version of the original color is **69.5029, 71.4459, 30.8961**, and **22.5407, 19.5617, 3.4519** is the 20% darker color. If you saturate the color by 10%, you get **44.7237, 38.9880, 8.6340**, and if you desaturate by 10%, it is **50.1104, 47.1233, 18.5627**.

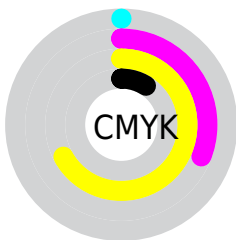
# Distribution



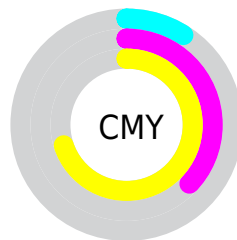
- Red (91%)
- Green (63%)
- Blue (30%)



- Red (83%)
- Yellow (91%)
- Blue (30%)



- Cyan (0%)
- Magenta (31%)
- Yellow (67%)
- Black (9%)




- Cyan (9%)
- Magenta (37%)
- Yellow (70%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 47.1891, 42.8332, 12.8017 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 47.1891, 42.8332, 12.8017 by changing the saturation by 10% instead.





 47.1891, 42.8332,  
12.8017


 47.1891, 42.8332,  
12.8017


366.2052,  
357.9254, 220.8059


 33.3937, 29.7543,  
7.1630


 85.2128, 79.4591,  
31.6330


 22.5889, 19.6521,  
3.4843


 110.1719,  
103.7748, 45.6627


 14.4093, 12.1424,  
1.3469


 139.5830,  
132.6050, 63.3265

 8.4895, 6.8408,  
0.0998

 173.8114,  
166.3339, 85.0430

 4.4641, 3.3627,  
0.0000

 213.2224,  
205.3460, 111.2306

 1.9679, 1.3239,  
0.0000

258.1815,

 0.6158, 0.1596,

250.0257, 142.3079

0.0000

309.0540,  
300.7573, 178.6935

■ 0.0000, 0.0000,  
0.0000

■ 47.1891, 42.8332,  
12.8017

■ 47.1891, 42.8332,  
12.8017

■ 44.7237, 38.9880,  
8.6340

■ 50.1104, 47.1233,  
18.5627

■ 42.6745, 35.5602,  
5.8836

■ 53.5166, 51.8711,  
26.0628


■ 40.9964, 32.5265,  
4.3301


■ 57.4370, 57.0960,  
35.4339


■ 40.5163, 31.6312,  
3.9700


■ 61.8975, 62.8144,  
46.7943

■ 66.9222, 69.0416,  
60.2526

 72.5333, 75.7919,  
75.9093

 78.7519, 83.0793,  
93.8585

 84.3494, 90.4175,  
107.6144

 87.0886, 95.8957,  
108.5274

# Harmonies

## Analogous

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



56.2387, 42.8332, 20.4615



47.1891, 42.8332, 12.8017



37.5795, 42.8332, 11.8706

# Triad

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



47.1891, 42.8332, 12.8017



25.3118, 42.8332, 56.4685



53.6066, 42.8332, 98.7903

# Complementary

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



47.1891, 42.8332, 12.8017



28.3730, 28.8977, 80.4260

# 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.



44.0132, 42.8332, 118.9435



47.1891, 42.8332, 12.8017



28.3431, 42.8332, 88.9518

# Square

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



47.1891, 42.8332, 12.8017



25.8911, 42.8332, 31.1242



34.8559, 42.8332, 114.7742



60.3229, 42.8332, 66.6028



# Rectangle

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



47.1891, 42.8332, 12.8017



32.2369, 42.8332, 14.5576



34.8559, 42.8332, 114.7742



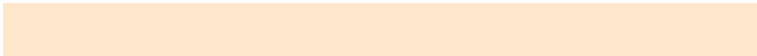
50.5551, 42.8332, 107.6703

# Sweetspot

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



47.1901, 42.8354, 12.8025



80.8022, 82.9459, 68.8782



41.3842, 24.6445, 31.1497



16.9172, 17.2861, 13.7297



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.



47.1901, 42.8354, 12.8025



54.4510, 46.7259, 9.2811



61.8220, 74.5526, 18.1534



15.0130, 15.6398, 15.1320



22.6206, 17.8153, 2.2465



1.7644, 1.5020, 0.1969



# Inverse Universe

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



28.3730, 28.8977, 80.4260



29.6563, 28.4059, 98.5276



20.7139, 12.9357, 77.7487



14.1318, 14.9851, 18.2919



11.1726, 9.4072, 43.6101



0.9178, 0.8795, 3.2534



# Previews

## White Background



This preview shows how the XYZ color 47.1891, 42.8332, 12.8017 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

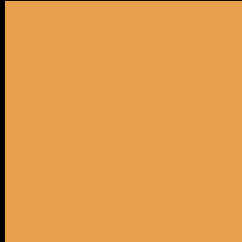
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 47.1891, 42.8332, 12.8017 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 47.1891, 42.8332, 12.8017**

## **Background**



This preview shows how black text looks on a background with the XYZ color 47.1891, 42.8332, 12.8017.



This preview shows how white text looks on a background with the XYZ color 47.1891, 42.8332,



# 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

47.1891, 42.8332, 12.8017

### Protanopia

39.2965, 43.1292, 14.2363

### Deuteranopia

43.7040, 42.8971, 12.6331



## Tritanopia

52.8481, 42.9190, 39.6812

# Trichromacy



## Original Color

47.1891, 42.8332, 12.8017

## Protanomaly

41.8351, 42.7385, 13.6338

## Deuteranomaly

44.7042, 42.6023, 12.7044

## Tritanomaly

50.2444, 42.5828, 27.0439

# Monochromacy



## Original Color

47.1891, 42.8332, 12.8017

## Achromatopsia

39.2122, 41.2543, 44.9259

## Achromatomaly

40.7661, 41.2807, 29.4863

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 47.1891, 42.8332, 12.8017 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(232, 160, 77)` looks like.

```
.text, #text, p{  
    color:rgb(232, 160, 77)  
}
```

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(232, 160, 77) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(232, 160, 77) }
```

## Border

The CSS property to change the border of an element to XYZ 47.1891, 42.8332, 12.8017 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(232, 160, 77) }
```



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

```
.border{ border-color:rgb(232, 160, 77) }
```

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

Here you see how a box with a 4 pixel `rgb(232, 160, 77)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(232, 160, 77); -webkit-box-  
shadow:4px 4px 4px 4px rgb(232, 160, 77);  
box-shadow:4px 4px 4px 4px rgb(232, 160,  
77) }
```

# Background

The CSS property to change the background color of an element to XYZ 47.1891, 42.8332, 12.8017 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(232, 160, 77) }
```

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

```
.background{ background-color: rgb(232,  
160, 77) }
```

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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