

# Converting Colors

XYZ(47.9886, 47.0009, 15.9925)

Have a look what the booklet for  
XYZ(47.9886, 47.0009, 15.9925)  
contains.

<b>XYZ(47.9906, 47.0009, 15.9939)</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(47.9906, 47.0009,  
15.9939)**

# Conversions

## Conversions Part 1

Format	Color
Hex	E1AE59
RGB	225, 174, 89
RGB Percent	88%, 68%, 35%
CMY	0.1176, 0.3176, 0.6510
CMYK	0.00, 0.23, 0.60, 0.12
HSL	38°, 69%, 62%
HSV	38°, 60%, 88%
XYZ	47.9906, 47.0009, 15.9939
YIQ	179.5590, 57.6810, -15.6230

# Conversions

## Conversions Part 2

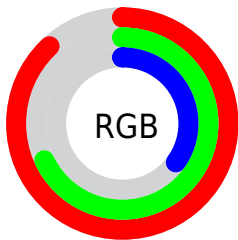
<b>Format</b>	<b>Color</b>
<b>RYB</b>	171, 225, 89
Decimal	14790233
CIELab	74.19, 9.39, 49.97
CIELCh	74, 50.850, 79.353
Yxy	47.0009, 0.4324, 0.4235
Android (android.graphics.Color)	4292980313 (0xFFE1AE59)
YUV	179.5590, -44.6456, 39.8518
Hunter-Lab	68.5572, 4.9763, 34.1581

# Details

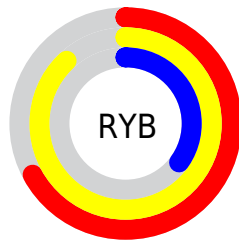
The XYZ color **47.9906, 47.0009, 15.9939** is a light color, and the websafe version is hex **CC9933**. The color can be described as light muted orange. A complement of this color would be **27.0882, 26.3153, 74.8856**, and the grayscale version is **43.3570, 45.6149, 49.6747**.

A 20% lighter version of the original color is **74.0670, 79.2217, 36.5869**, and **23.0353, 22.1660, 4.8981** is the 20% darker color. If you saturate the color by 10%, you get **45.6075, 43.5229, 11.2293**, and if you desaturate by 10%, it is **50.7670, 50.8037, 22.3148**.

# Distribution



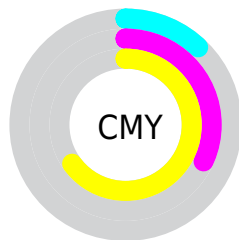
- Red (88%)
- Green (68%)
- Blue (35%)



- Red (67%)
- Yellow (88%)
- Blue (35%)



- Cyan (0%)
- Magenta (23%)
- Yellow (60%)
- Black (12%)




- Cyan (12%)
- Magenta (32%)
- Yellow (65%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 47.9906, 47.0009, 15.9939 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 47.9906, 47.0009, 15.9939 by changing the saturation by 10% instead.





 47.9906, 47.0009,  
15.9939


 47.9906, 47.0009,  
15.9939


369.3381,  
374.8181, 241.1502


 34.0307, 33.0364,  
9.3655


 86.4002, 85.7150,  
37.3543


 23.0802, 22.1543,  
4.8803


 111.5806,  
111.2333, 52.9233

 14.7737, 13.9703,  
2.1197


 141.2318,  
141.3717, 72.3097

 8.7460, 8.1000,  
0.6275

 175.7192,  
176.5145, 95.9319

 4.6317, 4.1590,  
0.0000

215.4082,  
217.0461, 124.2086

 2.0653, 1.7629,  
0.0000

260.6641,

 0.6703, 0.4639,

263.3510, 157.5581

0.0000

311.8523,  
315.8136, 196.3992

■ 0.0000, 0.0000,  
0.0000

■ 47.9906, 47.0009,  
15.9939

■ 47.9906, 47.0009,  
15.9939

■ 45.6075, 43.5229,  
11.2293

■ 50.7670, 50.8037,  
22.3148

■ 43.5853, 40.3482,  
7.8739

■ 53.9589, 54.9377,  
30.3152

■ 41.8907, 37.4623,  
5.7572

■ 57.5908, 59.4172,  
40.1093

■ 40.5221, 34.9493,  
4.6101

■ 61.6837, 64.2534,  
51.8001

■ 66.2574, 69.4569,  
65.4830

■ 71.3302, 75.0377,  
81.2469

■ 76.9196, 81.0053,  
99.1750

■ 80.7045, 86.4339,  
107.0376

■ 83.2668, 91.5587,  
107.8917

# Harmonies

## Analogous

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



57.0924, 47.0009, 21.7534



47.9906, 47.0009, 15.9939



39.1119, 47.0009, 16.9196

# Triad

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



47.9906, 47.0009, 15.9939



30.0907, 47.0009, 69.6812



59.3373, 47.0009, 91.3396

# Complementary

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



47.9906, 47.0009, 15.9939



27.0882, 26.3153, 74.8856

# 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.



50.7376, 47.0009, 114.6608



47.9906, 47.0009, 15.9939



34.1993, 47.0009, 99.5008

# Square

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



47.9906, 47.0009, 15.9939



29.5646, 47.0009, 42.4495



41.5118, 47.0009, 118.0715



64.2107, 47.0009, 61.0232



# Rectangle

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



47.9906, 47.0009, 15.9939



34.4537, 47.0009, 21.3440



41.5118, 47.0009, 118.0715



56.7361, 47.0009, 100.6402

# Sweetspot

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



47.9917, 47.0032, 15.9948



83.2742, 86.8948, 72.7699



39.4416, 25.0798, 28.0140



17.4600, 18.1785, 14.5060



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.



47.9917, 47.0032, 15.9948



59.7005, 56.4698, 13.3590



55.0607, 68.1463, 19.7033



14.4174, 15.1207, 14.4655



23.4665, 20.3708, 2.6951



1.7117, 1.5823, 0.2152



# Inverse Universe

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



27.0882, 26.3153, 74.8856



29.6755, 26.8435, 98.2250



22.9734, 15.5767, 73.0297



13.3710, 14.0812, 17.4009



9.7783, 7.0261, 41.8892



0.7619, 0.6552, 2.9316



# Previews

## White Background



This preview shows how the XYZ color 47.9906, 47.0009, 15.9939 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 47.9906, 47.0009, 15.9939 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 47.9906, 47.0009, 15.9939**

## **Background**



This preview shows how black text looks on a background with the XYZ color 47.9906, 47.0009, 15.9939.



This preview shows how white text looks on a background with the XYZ color 47.9906, 47.0009,



# 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

47.9906, 47.0009, 15.9939

### Protanopia

43.2224, 47.1962, 16.9569

### Deuteranopia

47.9906, 47.0009, 15.9939



## Tritanopia

54.4900, 46.8810, 47.7720

# Trichromacy



## Original Color

47.9906, 47.0009, 15.9939

## Protanomaly

44.7879, 47.0995, 16.6281

## Deuteranomaly

47.9906, 47.0009, 15.9939

## Tritanomaly

51.4266, 46.7076, 33.0931

# Monochromacy



## Original Color

47.9906, 47.0009, 15.9939

## Achromatopsia

43.3819, 45.6411, 49.7032

## Achromatomaly

43.9518, 45.6831, 34.1050

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 47.9906, 47.0009, 15.9939 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(225, 174, 89)` looks like.

```
.text, #text, p{  
    color:rgb(225, 174, 89)  
}
```

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(225, 174, 89) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(225, 174, 89) }
```

## Border

The CSS property to change the border of an element to XYZ 47.9906, 47.0009, 15.9939 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(225, 174, 89) }
```



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

```
.border{ border-color:rgb(225, 174, 89) }
```

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

Here you see how a box with a 4 pixel `rgb(225, 174, 89)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(225, 174, 89); -webkit-box-  
shadow:4px 4px 4px 4px rgb(225, 174, 89);  
box-shadow:4px 4px 4px 4px rgb(225, 174,  
89) }
```

# Background

The CSS property to change the background color of an element to XYZ 47.9906, 47.0009, 15.9939 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(225, 174, 89) }
```

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

```
.background{ background-color: rgb(225,  
174, 89) }
```

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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