

# Converting Colors

XYZ(47.7069, 45.6101, 19.3524)

Have a look what the booklet for  
XYZ(47.7069, 45.6101, 19.3524)  
contains.

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# Color

**XYZ(47.6139, 45.5962,  
19.3881)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	E0AA68
RGB	224, 170, 104
RGB Percent	88%, 67%, 41%
CMY	0.1216, 0.3333, 0.5921
CMYK	0.00, 0.24, 0.54, 0.12
HSL	33°, 66%, 64%
HSV	33°, 54%, 88%
XYZ	47.6139, 45.5962, 19.3881
YIQ	178.6220, 53.3700, -9.0780

# Conversions

## Conversions Part 2

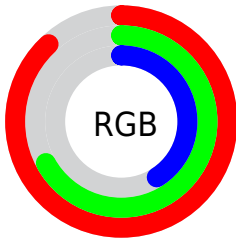
Format	Color
R <sub>YB</sub>	202, 224, 104
Decimal	14723688
CIE Lab	73.28, 12.26, 41.42
CIE LCh	73, 43.195, 73.508
Yxy	45.5962, 0.4229, 0.4049
Android (android.graphics.Color)	4292913768 (0xFFE0AA68)
YUV	178.6220, -36.7886, 39.7965
Hunter-Lab	67.5250, 7.6971, 30.2438

# Details

The XYZ color **47.6139, 45.5962, 19.3881** is a light color, and the websafe version is hex **CC9966**. A complement of this color would be **31.3898, 32.7772, 75.1930**, and the grayscale version is **42.8171, 45.0470, 49.0561**.

A 20% lighter version of the original color is **74.1660, 77.5107, 42.5046**, and **22.8939, 21.3397, 6.5268** is the 20% darker color. If you saturate the color by 10%, you get **44.8064, 41.5667, 13.5651**, and if you desaturate by 10%, it is **50.8707, 50.0408, 26.8526**.

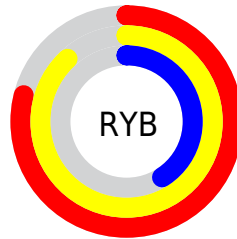
# Distribution



Red (88%)

Green (67%)

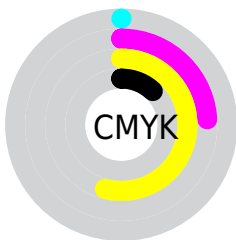
Blue (41%)



Red (79%)

Yellow (88%)

Blue (41%)

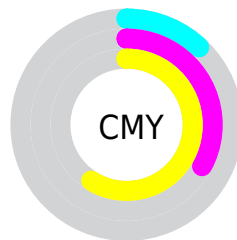


Cyan (0%)

Magenta (24%)

Yellow (54%)

Black (12%)



Cyan (12%)

Magenta (33%)

Yellow (59%)

# Brightness & Saturation Gradients

These gradients show how the XYZ color 47.6139, 45.5962, 19.3881 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 47.6139, 45.5962, 19.3881 by changing the saturation by 10% instead.



47.6139, 45.5962,  
19.3881

47.6139, 45.5962,  
19.3881

367.8678,  
369.1829, 261.0767

33.7312, 31.9273,  
11.7714

85.8424, 83.6144,  
43.2343

22.8491, 21.3060,  
6.4676

110.9190,  
108.7324, 60.3008

14.6022, 13.3478,  
3.0581

140.4576,  
138.4356, 81.3544

8.6252, 7.6685,  
1.1244

174.8235,  
173.1083, 106.8136

4.5527, 3.8836,  
0.0000

214.3821,  
213.1351, 137.0968

2.0193, 1.6086,  
0.0000

259.4988,

0.6448, 0.3634,

258.9001, 172.6228

0.0000

310.5389,  
310.7879, 213.8099

■ 0.0000, 0.0000,  
0.0000

■ 47.6139, 45.5962,  
19.3881

■ 47.6139, 45.5962,  
19.3881

■ 44.8064, 41.5667,  
13.5651

■ 50.8707, 50.0408,  
26.8526

■ 42.4171, 37.9293,  
9.2506

■ 54.5984, 54.9088,  
36.0717

■ 40.4155, 34.6682,  
6.2955

■ 58.8209, 60.2164,  
47.1517

■ 38.7638, 31.7629,  
4.5177

■ 63.5595, 65.9768,  
60.1896

■ 37.8494, 30.0652,  
3.8083

■ 68.8339, 72.2023,  
75.2754

■ 74.6627, 78.9051,  
92.4938

■ 80.1153, 85.7171,  
106.9303

■ 83.1746, 91.8357,  
107.9500

■ 84.5504, 94.5873,  
108.4086

# Harmonies

## Analogous

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



54.8067, 45.5962, 26.0744



47.6139, 45.5962, 19.3881



40.0178, 45.5962, 19.0887

# Triad

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



47.6139, 45.5962, 19.3881



30.6408, 45.5962, 60.0623



54.1807, 45.5962, 86.5455

# Complementary

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



47.6139, 45.5962, 19.3881



31.3898, 32.7772, 75.1930

# 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.



46.8366, 45.5962, 102.3792



47.6139, 45.5962, 19.3881



33.5921, 45.5962, 84.3354

# Square

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



47.6139, 45.5962, 19.3881



30.7972, 45.5962, 38.7022



39.3257, 45.5962, 101.4692



58.8903, 45.5962, 62.4810



# Rectangle

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



47.6139, 45.5962, 19.3881



35.7706, 45.5962, 22.3165



39.3257, 45.5962, 101.4692



51.9033, 45.5962, 93.2830

# Sweetspot

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



47.6150, 45.5984, 19.3890



83.5837, 86.4864, 76.0405



41.8625, 28.2169, 35.5882



17.6038, 18.1648, 15.4828



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.



47.6150, 45.5984, 19.3890



59.8024, 55.3080, 17.6030



58.0678, 69.2161, 23.3967



14.3291, 14.9441, 14.4361



22.1476, 17.7331, 2.2555



1.6242, 1.4073, 0.1860

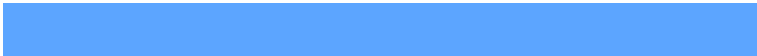


# Inverse Universe

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



31.3898, 32.7772, 75.1930



35.9409, 36.4794, 99.7547



24.8356, 18.5979, 72.8016



13.4573, 14.2538, 17.4297



10.6398, 8.7491, 42.1763

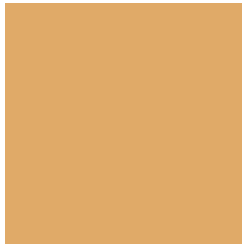


0.8259, 0.7834, 2.9529



# Previews

## White Background



This preview shows how the XYZ color 47.6139, 45.5962, 19.3881 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 47.6139, 45.5962, 19.3881 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

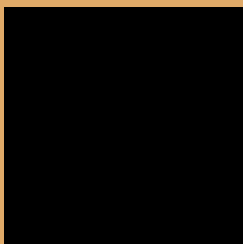
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**XYZ 47.6139, 45.5962, 19.3881**

## **Background**



This preview shows how black text looks on a background with the XYZ color 47.6139, 45.5962, 19.3881.



This preview shows how white text looks on a background with the XYZ color 47.6139, 45.5962,



# 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

47.6139, 45.5962, 19.3881

### Protanopia

42.0540, 45.5955, 20.7717

### Deuteranopia

46.7664, 45.7202, 19.4567



## Tritanopia

53.1934, 45.7196, 46.0656

# Trichromacy



## Original Color

47.6139, 45.5962, 19.3881

## Protanomaly

43.9113, 45.3776, 20.3543

## Deuteranomaly

46.8804, 45.4974, 19.4077

## Tritanomaly

50.8749, 45.5742, 34.5491

# Monochromacy



## Original Color

47.6139, 45.5962, 19.3881

## Achromatopsia

42.8472, 45.0786, 49.0906

## Achromatomaly

43.6985, 44.9198, 36.0730

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 47.6139, 45.5962, 19.3881 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(224, 170, 104)` looks like.

```
.text, #text, p{  
    color:rgb(224, 170, 104)  
}
```

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(224, 170, 104) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(224, 170, 104) }
```

## Border

The CSS property to change the border of an element to XYZ 47.6139, 45.5962, 19.3881 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(224, 170, 104) }
```



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

```
.border{ border-color:rgb(224, 170, 104) }
```

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

Here you see how a box with a 4 pixel `rgb(224, 170, 104)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(224, 170, 104); -webkit-box-  
shadow:4px 4px 4px 4px rgb(224, 170, 104);  
box-shadow:4px 4px 4px 4px rgb(224, 170,  
104) }
```

# Background

The CSS property to change the background color of an element to XYZ 47.6139, 45.5962, 19.3881 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(224, 170, 104) }
```

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

```
.background{ background-color: rgb(224,  
170, 104) }
```

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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