

# Converting Colors

XYZ(51.4715, 49.6864, 16.3295)

Have a look what the booklet for  
XYZ(51.4715, 49.6864, 16.3295)  
contains.

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# Color

**XYZ(51.4570, 49.6580,  
16.3241)**

# Conversions

## Conversions Part 1

Format	Color
Hex	EAB159
RGB	234, 177, 89
RGB Percent	92%, 69%, 35%
CMY	0.0824, 0.3059, 0.6510
CMYK	0.00, 0.24, 0.62, 0.08
HSL	36°, 78%, 63%
HSV	36°, 62%, 92%
XYZ	51.4570, 49.6580, 16.3241
YIQ	184.0110, 62.2200, -15.2840

# Conversions

## Conversions Part 2

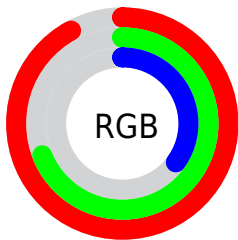
<b>Format</b>	<b>Color</b>
<b>RYB</b>	183, 234, 89
Decimal	15380825
CIELab	75.86, 11.57, 52.13
CIElCh	76, 53.397, 77.489
Yxy	49.6580, 0.4382, 0.4228
Android (android.graphics.Color)	4293570905 (0xFFEAB159)
YUV	184.0110, -46.8404, 43.8404
Hunter-Lab	70.4684, 7.0234, 35.5933

# Details

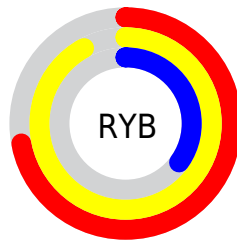
The XYZ color **51.4570, 49.6580, 16.3241** is a light color, and the websafe version is hex **FFCC66**. The color can be described as light muted orange. A complement of this color would be **29.2495, 28.6209, 81.8242**, and the grayscale version is **45.7938, 48.1786, 52.4665**.

A 20% lighter version of the original color is **75.2614, 81.4908, 37.3538**, and **25.3467, 23.9148, 5.0304** is the 20% darker color. If you saturate the color by 10%, you get **48.8705, 45.8157, 11.3606**, and if you desaturate by 10%, it is **54.4805, 53.8750, 22.9745**.

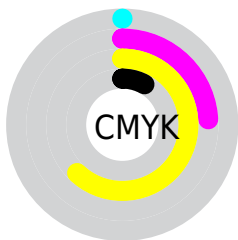
# Distribution



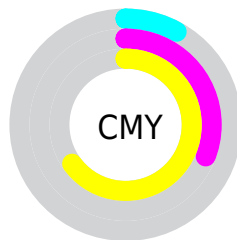
- Red (92%)
- Green (69%)
- Blue (35%)



- Red (72%)
- Yellow (92%)
- Blue (35%)



- Cyan (0%)
- Magenta (24%)
- Yellow (62%)
- Black (8%)



- Cyan (8%)
- Magenta (31%)
- Yellow (65%)

# Brightness & Saturation Gradients

These gradients show how the XYZ color 51.4570, 49.6580, 16.3241 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 51.4570, 49.6580, 16.3241 by changing the saturation by 10% instead.



51.4570, 49.6580,  
16.3241

51.4570, 49.6580,  
16.3241

382.6952,  
385.3270, 243.1573

36.7950, 35.1417,  
9.5970

91.5089, 89.6679,  
37.9345

25.2217, 23.7721,  
5.0305

117.6295,  
115.9304, 53.6549

16.3719, 15.1646,  
2.2061

148.3003,  
146.8771, 73.2101

9.8802, 8.9350,  
0.6779

183.8867,  
182.8923, 97.0187

5.3813, 4.6988,  
0.0000

224.7540,  
224.3605, 125.4991

2.5097, 2.0717,  
0.0000

271.2677,

0.9002, 0.6486,

271.6661, 159.0700

0.0000

323.7929,  
325.1935, 198.1499

■ 0.0000, 0.0000,  
0.0000

■ 51.4570, 49.6580,  
16.3241

■ 51.4570, 49.6580,  
16.3241

■ 48.8705, 45.8157,  
11.3606

■ 54.4805, 53.8750,  
22.9745

■ 46.6844, 42.3236,  
7.9183

■ 57.9666, 58.4748,  
31.4506

■ 44.8603, 39.1646,  
5.8024

■ 61.9427, 63.4738,  
41.8800

■ 43.6078, 36.8451,  
4.8134

■ 66.4326, 68.8852,  
54.3779

■ 71.4586, 74.7212,  
69.0504

■ 77.0414, 80.9936,  
85.9964

■ 83.2005, 87.7134,  
105.3087

■ 86.3500, 93.4494,  
108.0941

■ 87.7415, 96.2323,  
108.5580

# Harmonies

## Analogous

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



61.3136, 49.6580, 22.9445



51.4570, 49.6580, 16.3241



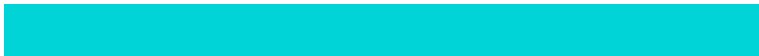
41.6891, 49.6580, 16.8837

# Triad

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



51.4570, 49.6580, 16.3241



31.2277, 49.6580, 72.2262



62.7207, 49.6580, 100.0823

# Complementary

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



51.4570, 49.6580, 16.3241



29.2495, 28.6209, 81.8242

# 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.



53.1730, 49.6580, 124.8009



51.4570, 49.6580, 16.3241



35.4351, 49.6580, 105.2325

# Square

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



51.4570, 49.6580, 16.3241



30.9028, 49.6580, 43.0665



43.1816, 49.6580, 126.9607



68.4029, 49.6580, 66.8021



# Rectangle

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



51.4570, 49.6580, 16.3241



36.5043, 49.6580, 21.2489



43.1816, 49.6580, 126.9607



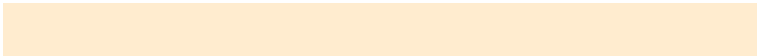
59.8004, 49.6580, 110.1067

# Sweetspot

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



51.4582, 49.6604, 16.3251



82.4303, 85.7086, 70.9423



42.7706, 26.7441, 30.5122



17.2823, 17.9203, 14.1467



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.



51.4582, 49.6604, 16.3251



58.7213, 54.6351, 12.6514



60.5899, 74.7043, 20.6777



15.8262, 16.5755, 15.8840



24.6314, 20.9570, 2.7469



2.0274, 1.8321, 0.2468



# Inverse Universe

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



29.2495, 28.6209, 81.8242



29.7641, 27.2829, 98.3051



24.0751, 15.9990, 79.6607



14.7169, 15.5202, 19.1423



10.6093, 7.8656, 44.7020



0.9244, 0.8003, 3.5406



# Previews

## White Background



This preview shows how the XYZ color 51.4570, 49.6580, 16.3241 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 51.4570, 49.6580, 16.3241 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 51.4570, 49.6580, 16.3241**

## **Background**



This preview shows how black text looks on a background with the XYZ color 51.4570, 49.6580, 16.3241.



This preview shows how white text looks on a background with the XYZ color 51.4570, 49.6580,



# 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

51.4570, 49.6580, 16.3241

### Protanopia

45.4342, 49.5788, 17.3002

### Deuteranopia

50.6786, 49.5510, 16.3444



## Tritanopia

58.3326, 49.6335, 49.6858

# Trichromacy



**Original Color**

51.4570, 49.6580, 16.3241

**Protanomaly**

47.4371, 49.3740, 16.9275

**Deuteranomaly**

51.0023, 49.7179, 16.3596

**Tritanomaly**

55.0893, 49.4095, 34.2372

# Monochromacy



**Original Color**

51.4570, 49.6580, 16.3241

**Achromatopsia**

45.5594, 47.9320, 52.1980

**Achromatomaly**

46.3058, 47.7742, 35.2145

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 51.4570, 49.6580, 16.3241 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(234, 177, 89)` looks like.

```
.text, #text, p{  
    color:rgb(234, 177, 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(234, 177, 89) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(234, 177, 89) }
```

## Border

The CSS property to change the border of an element to XYZ 51.4570, 49.6580, 16.3241 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(234, 177, 89) }
```



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

```
.border{ border-color:rgb(234, 177, 89) }
```

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

Here you see how a box with a 4 pixel `rgb(234, 177, 89)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(234, 177, 89); -webkit-box-  
shadow:4px 4px 4px 4px rgb(234, 177, 89);  
box-shadow:4px 4px 4px 4px rgb(234, 177,  
89) }
```

# Background

The CSS property to change the background color of an element to XYZ 51.4570, 49.6580, 16.3241 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(234, 177, 89) }
```

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

```
.background{ background-color: rgb(234,  
177, 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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