

# Converting Colors

XYZ(51.9859, 52.4589, 12.8891)

Have a look what the booklet for  
XYZ(51.9859, 52.4589, 12.8891)  
contains.

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# Color

**XYZ(51.9966, 52.4389,  
12.8500)**

# Conversions

## Conversions Part 1

| Format      | Color                       |
|-------------|-----------------------------|
| Hex         | E9B944                      |
| RGB         | 233, 185, 68                |
| RGB Percent | 91%, 73%, 27%               |
| CMY         | 0.0863, 0.2745, 0.7333      |
| CMYK        | 0.00, 0.21, 0.71, 0.09      |
| HSL         | 43°, 79%, 59%               |
| HSV         | 43°, 71%, 91%               |
| XYZ         | 51.9966, 52.4389, 12.8500   |
| YIQ         | 186.0140, 66.1650, -26.2110 |

# Conversions

## Conversions Part 2

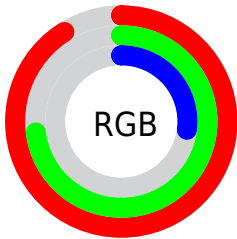
| <b>Format</b>                       | <b>Color</b>                   |
|-------------------------------------|--------------------------------|
| <b>RYB</b>                          | 136, 233, 68                   |
| Decimal                             | 15317316                       |
| CIELab                              | 77.54, 5.73, 63.18             |
| CIELCh                              | 78, 63.438, 84.818             |
| Yxy                                 | 52.4389, 0.4433,<br>0.4471     |
| Android<br>(android.graphics.Color) | 4293507396<br>(0xFFE9B944)     |
| YUV                                 | 186.0140, -58.1809,<br>41.2067 |
| Hunter-Lab                          | 72.4147, 1.4443,<br>40.1693    |

# Details

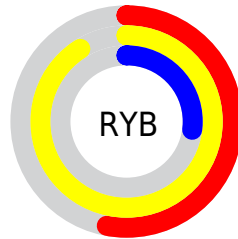
The XYZ color **51.9966, 52.4389, 12.8500** is a light color, and the websafe version is hex **FFCC66**. The color can be described as light muted orange. A complement of this color would be **23.3370, 19.6022, 79.6439**, and the grayscale version is **46.9710, 49.4172, 53.8153**.

A 20% lighter version of the original color is **76.2081, 85.5757, 30.9135**, and **25.4848, 25.3868, 3.5569** is the 20% darker color. If you saturate the color by 10%, you get **50.0380, 49.4427, 9.3589**, and if you desaturate by 10%, it is **54.3076, 55.6884, 17.8529**.

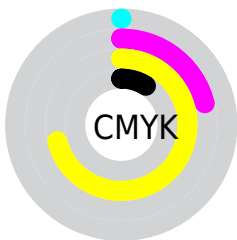
# Distribution



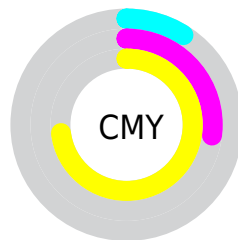
- Red (91%)
- Green (73%)
- Blue (27%)



- Red (53%)
- Yellow (91%)
- Blue (27%)



- Cyan (0%)
- Magenta (21%)
- Yellow (71%)
- Black (9%)




- Cyan (9%)
- Magenta (27%)
- Yellow (73%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 51.9966, 52.4389, 12.8500 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 51.9966, 52.4389, 12.8500 by changing the saturation by 10% instead.





 51.9966, 52.4389,  
12.8500


 51.9966, 52.4389,  
12.8500


384.7477,  
396.1287, 221.1280

 37.2266, 37.3550,  
7.1958


 92.3005, 93.7782,  
31.7213


 25.5575, 25.4825,  
3.5046


 118.5651,  
120.8024, 45.7754


 16.6238, 16.4369,  
1.3577


 149.3920,  
152.5756, 63.4667

 10.0603, 9.8338,  
0.1084

 185.1465,  
189.4820, 85.2136

 5.5015, 5.2889,  
0.0000

 226.1939,  
231.9061, 111.4346

 2.5822, 2.4178,  
0.0000

272.8997,

 0.9369, 0.8350,

280.2324, 142.5483

0.0000

325.6292,  
334.8451, 178.9733

■ 0.0000, 0.0000,  
0.0000

■ 51.9966, 52.4389,  
12.8500

■ 51.9966, 52.4389,  
12.8500

■ 50.0380, 49.4427,  
9.3589

■ 54.3076, 55.6884,  
17.8529

■ 48.3915, 46.6759,  
7.1881


■ 56.9983, 59.1973,  
24.5223


■ 47.0999, 44.3153,  
6.0713


■ 60.0968, 62.9804,  
32.9970


■ 63.6274, 67.0487,  
43.4004

■ 67.6122, 71.4126,  
55.8448

 72.0718, 76.0815,  
70.4341

 77.0252, 81.0645,  
87.2649

 82.4905, 86.3700,  
106.4279

 84.6105, 90.4565,  
107.6081

# Harmonies

## Analogous

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



64.6622, 52.4389, 17.8357



51.9966, 52.4389, 12.8500



40.6047, 52.4389, 15.1784

# Triad

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



51.9966, 52.4389, 12.8500



31.3930, 52.4389, 90.3034



71.6483, 52.4389, 105.3789

# Complementary

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



51.9966, 52.4389, 12.8500



23.3370, 19.6022, 79.6439

# 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.



60.3827, 52.4389, 142.6798



51.9966, 52.4389, 12.8500



37.4785, 52.4389, 131.7655

# Square

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



51.9966, 52.4389, 12.8500



29.8917, 52.4389, 51.2258



47.7470, 52.4389, 153.9141



77.1339, 52.4389, 63.4006



# Rectangle

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



51.9966, 52.4389, 12.8500



35.0304, 52.4389, 21.3992



47.7470, 52.4389, 153.9141



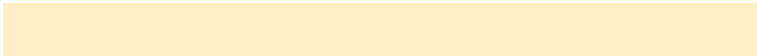
68.3307, 52.4389, 119.4641

# Sweetspot

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



51.9978, 52.4415, 12.8510



82.8263, 87.4796, 68.0561



38.9119, 22.7544, 19.3260



17.4265, 18.3989, 13.6089



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.



51.9978, 52.4415, 12.8510



60.4332, 59.0802, 10.0734



54.0017, 70.9742, 16.3226



15.9604, 16.8438, 15.9287



26.8376, 25.3694, 3.4823



2.1896, 2.1564, 0.3008



# Inverse Universe

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



23.3370, 19.6022, 79.6439



23.5411, 17.0020, 96.6487



22.1423, 12.7847, 78.3909



14.5882, 15.2627, 19.0994



9.6034, 5.8538, 44.3667



0.8344, 0.6203, 3.5106



# Previews

## White Background



This preview shows how the XYZ color 51.9966, 52.4389, 12.8500 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 51.9966, 52.4389, 12.8500 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 51.9966, 52.4389, 12.8500

## Background



This preview shows how black text looks on a background with the XYZ color 51.9966, 52.4389, 12.8500.



This preview shows how white text looks on a background with the XYZ color 51.9966, 52.4389,



# 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

51.9966, 52.4389, 12.8500

### Protanopia

47.6867, 52.4376, 13.4025

### Deuteranopia

53.3987, 52.2363, 12.8984



## Tritanopia

60.4244, 52.3096, 53.3664

# Trichromacy



## Original Color

51.9966, 52.4389, 12.8500

## Protanomaly

49.0906, 52.1970, 13.1179

## Deuteranomaly

52.9327, 52.3012, 12.9355

## Tritanomaly

56.2767, 51.7782, 33.0147

# Monochromacy



## Original Color

51.9966, 52.4389, 12.8500

## Achromatopsia

46.6715, 49.1021, 53.4722

## Achromatomaly

47.1454, 49.7975, 33.1136

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 51.9966, 52.4389, 12.8500 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(233, 185, 68)` looks like.

```
.text, #text, p{  
    color:rgb(233, 185, 68)  
}
```

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(233, 185, 68) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(233, 185, 68) }
```

## Border

The CSS property to change the border of an element to XYZ 51.9966, 52.4389, 12.8500 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(233, 185, 68) }
```



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

```
.border{ border-color:rgb(233, 185, 68) }
```

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

Here you see how a box with a 4 pixel `rgb(233, 185, 68)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(233, 185, 68); -webkit-box-  
shadow:4px 4px 4px 4px rgb(233, 185, 68);  
box-shadow:4px 4px 4px 4px rgb(233, 185,  
68) }
```

# Background

The CSS property to change the background color of an element to XYZ 51.9966, 52.4389, 12.8500 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(233, 185, 68) }
```

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

```
.background{ background-color: rgb(233,  
185, 68) }
```

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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