

# Converting Colors

XYZ(56.5014, 58.2326, 6.7898)

Have a look what the booklet for  
XYZ(56.5014, 58.2326, 6.7898)  
contains.

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# Color

**XYZ(56.8233, 58.2633,  
8.2510)**

# Conversions

## Conversions Part 1

Format	Color
Hex	F4C300
RGB	244, 195, 0
RGB Percent	96%, 76%, 0%
CMY	0.0431, 0.2353, 0.9999
CMYK	0.00, 0.20, 1.00, 0.04
HSL	48°, 100%, 48%
HSV	48°, 100%, 96%
XYZ	56.8233, 58.2633, 8.2510
YIQ	187.4210, 91.7990, -50.2570

# Conversions

## Conversions Part 2

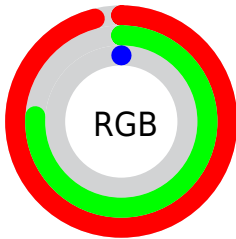
Format	Color
RYB	61, 244, 0
Decimal	16040704
CIELab	80.88, 3.60, 82.41
CIElCh	81, 82.488, 87.497
Yxy	58.2633, 0.4607, 0.4724
Android (android.graphics.Color)	4294230784 (0xFFFF4C300)
YUV	187.4210, -92.3986, 49.6198
Hunter-Lab	76.3304, -0.6959, 47.0223

# Details

The XYZ color **56.8233, 58.2633, 8.2510** is a light color, and the websafe version is hex **FFCC00**. The color can be described as light saturated yellow. A complement of this color would be **17.4281, 8.7295, 86.3536**, and the grayscale version is **47.9449, 50.4417, 54.9310**.

A 20% lighter version of the original color is **77.3769, 90.9102, 22.0636**, and **28.9644, 29.2911, 4.1272** is the 20% darker color. If you saturate the color by 10%, you get **56.8235, 58.2642, 8.2512**, and if you desaturate by 10%, it is **58.1098, 60.5658, 9.5150**.

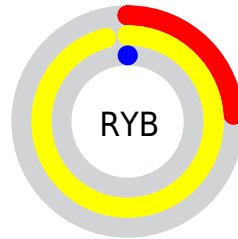
# Distribution



Red (96%)

Green (76%)

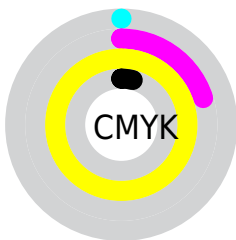
Blue (0%)



Red (24%)

Yellow (96%)

Blue (0%)

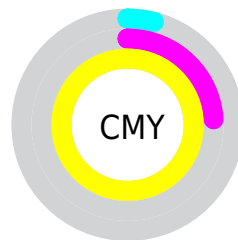


Cyan (0%)

Magenta (20%)

Yellow (100%)

Black (4%)



Cyan (4%)

Magenta (24%)


Yellow (100%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 56.8233, 58.2633, 8.2510 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 56.8233, 58.2633, 8.2510 by changing the saturation by 10% instead.





 56.8233, 58.2633,  
8.2510

 56.8233, 58.2633,  
8.2510


402.8118,  
418.1663, 187.6952

 41.1030, 42.0204,  
4.1659


 99.3402, 102.3062,  
23.0033


 28.5876, 29.1172,  
1.7168


 126.8674,  
130.8749, 34.5076

 18.9118, 19.1695,  
0.3722

 159.0610,  
164.3210, 49.3220

 11.7102, 11.7928,  
0.0000

 196.2863,  
203.0290, 67.8651

 6.6174, 6.6028,  
0.0000

 238.9087,  
247.3830, 90.5554

 3.2682, 3.2149,  
0.0000

 287.2935,

 1.2971, 1.2450,

297.7677, 117.8115

0.0000

341.8061,  
354.5673, 150.0519

■ 0.1811, 0.0980,  
0.0000

■ 0.0000, 0.0000,  
0.0000

■ 56.8233, 58.2633,  
8.2510

■ 56.8233, 58.2633,  
8.2510

■ 56.8235, 58.2642,  
8.2512

■ 58.1098, 60.5658,  
9.5150

■ 59.6434, 63.0230,  
11.9071

■ 61.4918, 65.6649,  
15.7755

■ 63.6947, 68.5077,  
21.3279

■ 66.2855, 71.5655,  
28.7391

■ 69.2935, 74.8505,  
38.1615

■ 72.7451, 78.3736,  
49.7321

■ 76.6641, 82.1449,  
63.5756

■ 81.0728, 86.1739,  
79.8072

# Harmonies

## Analogous

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



74.9486, 58.2633, 12.6057



56.8233, 58.2633, 8.2510



41.5666, 58.2633, 11.2589

# Triad

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



56.8233, 58.2633, 8.2510



31.0714, 58.2633, 117.4733



87.9187, 58.2633, 128.5248

# Complementary

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



56.8233, 58.2633, 8.2510



17.4281, 8.7295, 86.3536

# 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.



71.9518, 58.2633, 188.6507



56.8233, 58.2633, 8.2510



39.5496, 58.2633, 180.2884

# Square

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



56.8233, 58.2633, 8.2510



28.6375, 58.2633, 59.4216



53.9565, 58.2633, 211.2665



95.0564, 58.2633, 67.6331



# Rectangle

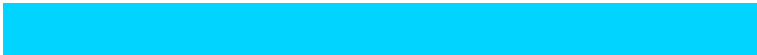
The Rectangle color scheme consists of four colors that form a rectangle on the color wheel.



56.8233, 58.2633, 8.2510



34.5369, 58.2633, 18.7711



53.9565, 58.2633, 211.2665



83.2641, 58.2633, 150.4759

# Sweetspot

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



56.8246, 58.2662, 8.2521



80.3799, 86.6019, 54.8625



37.9480, 19.4894, 5.1158



16.8467, 18.1773, 10.5237



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.



56.8246, 58.2662, 8.2521



62.7840, 64.3480, 9.1113



50.0010, 73.8000, 11.6101



17.6155, 18.7151, 17.4815



30.9972, 31.8800, 4.5197



2.7944, 2.9420, 0.4206



# Inverse Universe

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



17.4281, 8.7295, 86.3536



19.2428, 9.6057, 95.4476



18.7940, 7.8027, 86.1027



15.8506, 16.4655, 20.8853



9.5523, 4.8985, 46.9801



0.9092, 0.5697, 4.1523



# Previews

## White Background



This preview shows how the XYZ color 56.8233, 58.2633, 8.2510 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 56.8233, 58.2633, 8.2510 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 56.8233, 58.2633, 8.2510**

## **Background**



This preview shows how black text looks on a background with the XYZ color 56.8233, 58.2633, 8.2510.



This preview shows how white text looks on a background with the XYZ color 56.8233, 58.2633,



# 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

56.8233, 58.2633, 8.2510

### Protanopia

52.8595, 58.5961, 8.8408

### Deuteranopia

59.5974, 58.3698, 8.6156



## Tritanopia

67.2473, 58.0587, 59.2919

# Trichromacy



## Original Color

56.8233, 58.2633, 8.2510

## Protanomaly

54.0660, 58.1858, 8.5824

## Deuteranomaly

58.3288, 58.0452, 8.4167

## Tritanomaly

60.6213, 56.8970, 26.8559

# Monochromacy



## Original Color

56.8233, 58.2633, 8.2510

## Achromatopsia

47.2335, 49.6933, 54.1160

## Achromatomaly

47.7557, 51.5687, 24.8895

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 56.8233, 58.2633, 8.2510 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(244, 195, 0)` looks like.

```
.text, #text, p{  
    color:rgb(244, 195, 0)  
}
```

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(244, 195, 0) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(244, 195, 0) }
```

## Border

The CSS property to change the border of an element to XYZ 56.8233, 58.2633, 8.2510 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(244, 195, 0) }
```



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

```
.border{ border-color:rgb(244, 195, 0) }
```

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

Here you see how a box with a 4 pixel `rgb(244, 195, 0)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(244, 195, 0); -webkit-box-  
shadow:4px 4px 4px 4px rgb(244, 195, 0);  
box-shadow:4px 4px 4px 4px rgb(244, 195,  
0) }
```

# Background

The CSS property to change the background color of an element to XYZ 56.8233, 58.2633, 8.2510 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(244, 195, 0) }
```

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

```
.background{ background-color: rgb(244,  
195, 0) }
```

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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