

# Converting Colors

XYZ(36.7974, 35.8010, 7.5579)

Have a look what the booklet for  
XYZ(36.7974, 35.8010, 7.5579)  
contains.

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# Color

**XYZ(36.7862, 35.8171,  
7.5593)**

# Conversions

## Conversions Part 1

Format	Color
Hex	CC992E
RGB	204, 153, 46
RGB Percent	80%, 60%, 18%
CMY	0.2000, 0.4000, 0.8196
CMYK	0.00, 0.25, 0.77, 0.20
HSL	41°, 63%, 49%
HSV	41°, 77%, 80%
XYZ	36.7862, 35.8171, 7.5593
YIQ	156.0510, 64.7430, -22.4650

# Conversions

## Conversions Part 2

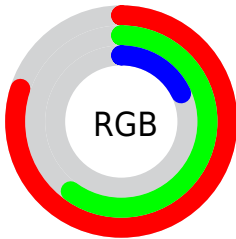
<b>Format</b>	<b>Color</b>
<b>RYB</b>	121, 204, 46
Decimal	13408558
CIELab	66.38, 9.29, 59.83
CIELCh	66, 60.552, 81.173
Yxy	35.8171, 0.4589, 0.4468
Android (android.graphics.Color)	4291598638 (0xFFCC992E)
YUV	156.0510, -54.2551, 42.0513
Hunter-Lab	59.8474, 4.9851, 34.4043

# Details

The XYZ color **36.7862, 35.8171, 7.5593** is a dark color, and the websafe version is hex **CC9933**. The color can be described as dark muted orange. A complement of this color would be **16.3003, 13.4894, 58.8709**, and the grayscale version is **31.8380, 33.4961, 36.4772**.

A 20% lighter version of the original color is **65.8531, 66.8057, 21.4806**, and **16.4284, 15.5225, 2.1303** is the 20% darker color. If you saturate the color by 10%, you get **35.4277, 33.5981, 5.5721**, and if you desaturate by 10%, it is **38.3968, 38.2350, 10.5732**.

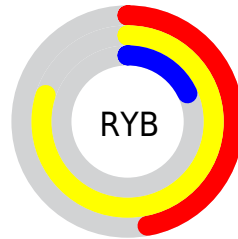
# Distribution



Red (80%)

Green (60%)

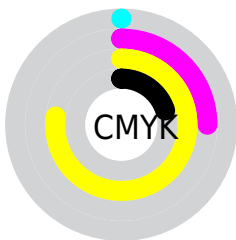
Blue (18%)



Red (47%)

Yellow (80%)

Blue (18%)

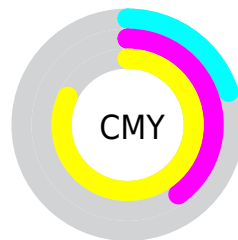


Cyan (0%)

Magenta (25%)

Yellow (77%)

Black (20%)



Cyan (20%)

Magenta (40%)


Yellow (82%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 36.7862, 35.8171, 7.5593 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 36.7862, 35.8171, 7.5593 by changing the saturation by 10% instead.





 36.7862, 35.8171,  
7.5593


 36.7862, 35.8171,  
7.5593


323.7556,  
328.1604, 182.0369


 25.2149, 24.2930,  
3.7306


 69.5598, 68.7497,  
21.6216

 16.3668, 15.5511,  
1.4787


 91.4928, 90.9269,  
32.6922


 9.8766, 9.2071,  
0.2020


 117.6105,  
117.4240, 47.0139

 5.3788, 4.8765,  
0.0000

 148.2781,  
148.6252, 65.0052

 2.5082, 2.1750,  
0.0000

 183.8611,  
184.9151, 87.0845

 0.8994, 0.7063,  
0.0000

 224.7248,

 0.0000, 0.0000,

226.6780, 113.6706

0.0000

271.2345,  
274.2983, 145.1819

■ 36.7862, 35.8171,  
7.5593

■ 36.7862, 35.8171,  
7.5593

■ 35.4277, 33.5981,  
5.5721

■ 38.3968, 38.2350,  
10.5732

■ 34.2845, 31.5574,  
4.4336

■ 40.2818, 40.8579,  
14.7381

■ 34.0128, 31.0596,  
4.2024

■ 42.4634, 43.6975,  
20.1625

■ 44.9606, 46.7629,  
26.9419

■ 47.7906, 50.0623,  
35.1625

■ 50.9691, 53.6033,  
44.9031

■ 54.5108, 57.3933,  
56.2371

■ 58.4295, 61.4389,  
69.2328

■ 62.7381, 65.7467,  
83.9546

# Harmonies

## Analogous

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



46.1714, 35.8171, 11.6185



36.7862, 35.8171, 7.5593



28.1323, 35.8171, 8.5278

# Triad

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



36.7862, 35.8171, 7.5593



20.2485, 35.8171, 59.9298



49.4929, 35.8171, 79.3742

# Complementary

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



36.7862, 35.8171, 7.5593



16.3003, 13.4894, 58.8709

# 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.



40.7287, 35.8171, 106.4494



36.7862, 35.8171, 7.5593



24.2496, 35.8171, 92.1890

# Square

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



36.7862, 35.8171, 7.5593



19.5706, 35.8171, 31.8345



31.4398, 35.8171, 111.9642



54.3154, 35.8171, 47.1644



# Rectangle

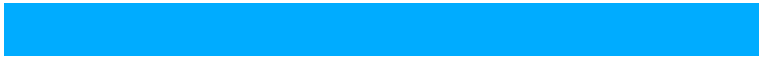
The Rectangle color scheme consists of four colors that form a rectangle on the color wheel.



36.7862, 35.8171, 7.5593



23.8167, 35.8171, 12.2137



31.4398, 35.8171, 111.9642



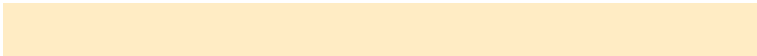
46.8438, 35.8171, 89.8798

# Sweetspot

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



36.7870, 35.8189, 7.5600



81.2595, 85.2930, 64.6140



28.1151, 15.6861, 13.2674



16.9929, 17.8054, 12.6206



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.



36.7870, 35.8189, 7.5600



57.3599, 53.3270, 7.8358



40.3696, 52.8083, 10.6505



11.8367, 12.4624, 11.8611



21.4957, 19.7244, 2.6742



1.1759, 1.1514, 0.1603



# Inverse Universe

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



16.3003, 13.4894, 58.8709



22.3342, 15.4223, 96.4074



14.5738, 7.7045, 57.8453



10.8925, 11.4254, 14.2016



8.1559, 5.3357, 36.5563



0.4896, 0.4130, 1.9088



# Previews

## White Background



This preview shows how the XYZ color 36.7862, 35.8171, 7.5593 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 36.7862, 35.8171, 7.5593 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 36.7862, 35.8171, 7.5593**

## **Background**



This preview shows how black text looks on a background with the XYZ color 36.7862, 35.8171, 7.5593.



This preview shows how white text looks on a background with the XYZ color 36.7862, 35.8171,



# 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

36.7862, 35.8171, 7.5593

### Protanopia

32.5099, 35.8778, 8.0080

### Deuteranopia

36.5130, 35.6762, 7.5465



## Tritanopia

42.5192, 35.8269, 35.2461

# Trichromacy



## Original Color

36.7862, 35.8171, 7.5593

## Protanomaly

33.8975, 35.8203, 7.8167

## Deuteranomaly

36.5130, 35.6762, 7.5465

## Tritanomaly

39.5407, 35.5151, 20.9907

# Monochromacy



## Original Color

36.7862, 35.8171, 7.5593

## Achromatopsia

31.5995, 33.2452, 36.2040

## Achromatomaly

32.1073, 33.5879, 21.3139

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 36.7862, 35.8171, 7.5593 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(204, 153, 46)` looks like.

```
.text, #text, p{  
    color:rgb(204, 153, 46)  
}
```

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(204, 153, 46) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(204, 153, 46) }
```

## Border

The CSS property to change the border of an element to XYZ 36.7862, 35.8171, 7.5593 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(204, 153, 46) }
```



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

```
.border{ border-color:rgb(204, 153, 46) }
```

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

Here you see how a box with a 4 pixel rgb(204, 153, 46) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(204, 153, 46); -webkit-box-  
shadow:4px 4px 4px 4px rgb(204, 153, 46);  
box-shadow:4px 4px 4px 4px rgb(204, 153,  
46) }
```

# Background

The CSS property to change the background color of an element to XYZ 36.7862, 35.8171, 7.5593 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(204, 153, 46) }
```

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

```
.background{ background-color: rgb(204,  
153, 46) }
```

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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