

# Converting Colors

XYZ(40.0617, 42.9473, 6.8613)

Have a look what the booklet for  
XYZ(40.0617, 42.9473, 6.8613)  
contains.

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# Color

**XYZ(39.9717, 42.7750,  
6.8115)**

# Conversions

## Conversions Part 1

Format	Color
Hex	CCAD14
RGB	204, 173, 20
RGB Percent	80%, 68%, 8%
CMY	0.2000, 0.3215, 0.9215
CMYK	0.00, 0.15, 0.90, 0.20
HSL	50°, 82%, 44%
HSV	50°, 90%, 80%
XYZ	39.9717, 42.7750, 6.8115
YIQ	164.8270, 67.5890, -41.0110

# Conversions

## Conversions Part 2

<b>Format</b>	<b>Color</b>
<b>RYB</b>	57, 204, 20
Decimal	13413652
CIELab	71.40, -2.13, 71.30
CIElCh	71, 71.330, 91.709
Yxy	42.7750, 0.4463, 0.4776
Android (android.graphics.Color)	4291603732 (0xFFCCAD14)
YUV	164.8270, -71.3997, 34.3547
Hunter-Lab	65.4026, -5.3618, 39.6069

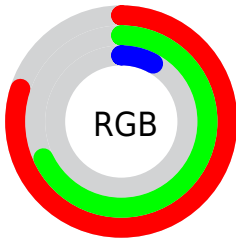
# Details

The XYZ color **39.9717, 42.7750, 6.8115** is a dark color, and the websafe version is hex **CC9900**.

The color can be described as dark washed orange. A complement of this color would be **12.3718, 6.8765, 57.8016**, and the grayscale version is **35.9915, 37.8659, 41.2359**.

A 20% lighter version of the original color is **70.6631, 77.4187, 20.0231**, and **18.5144, 19.6945, 2.8256** is the 20% darker color. If you saturate the color by 10%, you get **39.2080, 41.4499, 5.9341**, and if you desaturate by 10%, it is **40.9038, 44.2176, 8.4233**.

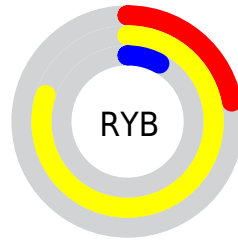
# Distribution



Red (80%)

Green (68%)

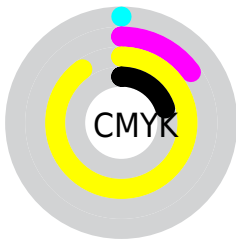
Blue (8%)



Red (22%)

Yellow (80%)

Blue (8%)

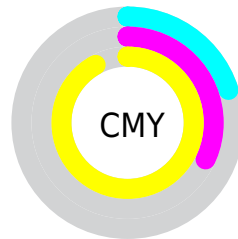


Cyan (0%)

Magenta (15%)

Yellow (90%)

Black (20%)



Cyan (20%)

Magenta (32%)


Yellow (92%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 39.9717, 42.7750, 6.8115 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 39.9717, 42.7750, 6.8115 by changing the saturation by 10% instead.





 39.9717, 42.7750,  
6.8115


 39.9717, 42.7750,  
6.8115


337.1407,  
357.6856, 175.6592

 27.7006, 29.7086,  
3.2678


 74.4050, 79.3712,  
20.0994


 18.2394, 19.6175,  
1.2330


 97.2980, 103.6698,  
30.6806

 11.2227, 12.1173,  
0.0059


 124.4622,  
132.4813, 44.4449

 6.2852, 6.8236,  
0.0000

 156.2632,  
166.1901, 61.8106

 3.0616, 3.3520,  
0.0000

 193.0661,  
205.1805, 83.1963

 1.1864, 1.3182,  
0.0000

 235.2365,

 0.0956, 0.1552,

249.8370, 109.0206

0.0000

283.1396,  
300.5439, 139.7021

■ 0.0000, 0.0000,  
0.0000

■ 39.9717, 42.7750,  
6.8115

■ 39.9717, 42.7750,  
6.8115

■ 39.2080, 41.4499,  
5.9341

■ 40.9038, 44.2176,  
8.4233

■ 42.0356, 45.7656,  
11.0063

■ 43.3933, 47.4316,  
14.6942

■ 44.9983, 49.2242,  
19.5989

■ 46.8694, 51.1511,  
25.8187

■ 49.0234, 53.2192,  
33.4416

■ 51.4757, 55.4350,  
42.5483

■ 54.2405, 57.8043,  
53.2132

■ 57.3312, 60.3326,  
65.5057

# Harmonies

## Analogous

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



52.6133, 42.7750, 9.2383



39.9717, 42.7750, 6.8115



29.6863, 42.7750, 9.9253

# Triad

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



39.9717, 42.7750, 6.8115



24.0046, 42.7750, 90.7025



64.5700, 42.7750, 85.4797

# Complementary

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



39.9717, 42.7750, 6.8115



12.3718, 6.8765, 57.8016

# 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.



54.0423, 42.7750, 128.5397



39.9717, 42.7750, 6.8115



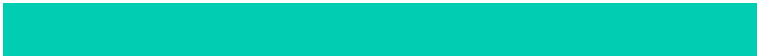
30.6639, 42.7750, 132.4587

# Square

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



39.9717, 42.7750, 6.8115



21.6661, 42.7750, 48.5746



41.3488, 42.7750, 148.8948



68.3838, 42.7750, 44.6305



# Rectangle

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



39.9717, 42.7750, 6.8115



25.0911, 42.7750, 16.4372



41.3488, 42.7750, 148.8948



61.6087, 42.7750, 100.7543

# Sweetspot

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



39.9727, 42.7771, 6.8123



82.2899, 89.1535, 59.4092



25.8118, 13.6019, 4.7234



17.3273, 18.8180, 11.6717



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.



39.9727, 42.7771, 6.8123



64.7944, 68.3688, 9.7815



33.5263, 49.3229, 8.4156



11.9868, 12.7625, 11.9111



24.7374, 26.2078, 3.7548



1.3199, 1.4395, 0.2083



# Inverse Universe

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



12.3718, 6.8765, 57.8016



18.9123, 8.9446, 95.3374



14.3137, 6.4916, 57.6250



10.7519, 11.1443, 14.1548



7.2734, 3.5708, 36.2622



0.4238, 0.2814, 1.8869



# Previews

## White Background



This preview shows how the XYZ color 39.9717, 42.7750, 6.8115 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 39.9717, 42.7750, 6.8115 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 39.9717, 42.7750, 6.8115**

## **Background**



This preview shows how black text looks on a background with the XYZ color 39.9717, 42.7750, 6.8115.



This preview shows how white text looks on a background with the XYZ color 39.9717, 42.7750,



# 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

39.9717, 42.7750, 6.8115

### Protanopia

38.4913, 42.5844, 6.9004

### Deuteranopia

43.6528, 42.7237, 6.9827



## Tritanopia

47.7283, 42.6530, 45.2525

# Trichromacy



## Original Color

39.9717, 42.7750, 6.8115

## Protanomaly

39.0908, 42.6056, 6.8729

## Deuteranomaly

42.3772, 42.8890, 6.9090

## Tritanomaly

43.2444, 41.8963, 22.6372

# Monochromacy



## Original Color

39.9717, 42.7750, 6.8115

## Achromatopsia

35.7637, 37.6262, 40.9749

## Achromatomaly

35.5177, 38.7588, 20.9385

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 39.9717, 42.7750, 6.8115 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, 173, 20)` looks like.

```
.text, #text, p{  
    color:rgb(204, 173, 20)  
}
```

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, 173, 20) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(204, 173, 20) }
```

## Border

The CSS property to change the border of an element to XYZ 39.9717, 42.7750, 6.8115 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, 173, 20) }
```



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

```
.border{ border-color:rgb(204, 173, 20) }
```

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

Here you see how a box with a 4 pixel `rgb(204, 173, 20)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(204, 173, 20); -webkit-box-  
shadow:4px 4px 4px 4px rgb(204, 173, 20);  
box-shadow:4px 4px 4px 4px rgb(204, 173,  
20) }
```

# Background

The CSS property to change the background color of an element to XYZ 39.9717, 42.7750, 6.8115 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(204, 173, 20) }
```

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

```
.background{ background-color: rgb(204,  
173, 20) }
```

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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