

# Converting Colors

XYZ(39.4846, 40.7494, 7.8295)

Have a look what the booklet for  
XYZ(39.4846, 40.7494, 7.8295)  
contains.

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# Color

**XYZ(39.6553, 40.9124,  
7.8143)**

# Conversions

## Conversions Part 1

Format	Color
Hex	CEA728
RGB	206, 167, 40
RGB Percent	81%, 65%, 16%
CMY	0.1922, 0.3451, 0.8431
CMYK	0.00, 0.19, 0.81, 0.19
HSL	46°, 67%, 48%
HSV	46°, 81%, 81%
XYZ	39.6553, 40.9124, 7.8143
YIQ	164.1830, 64.0110, -31.2290

# Conversions

## Conversions Part 2

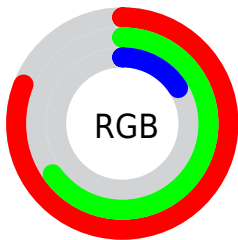
<b>Format</b>	<b>Color</b>
R <sub>YB</sub>	91, 206, 40
Decimal	13543208
CIE Lab	70.11, 2.43, 65.36
CIE LCh	70, 65.405, 87.869
Yxy	40.9124, 0.4487, 0.4629
Android (android.graphics.Color)	4291733288 (0xFFCEA728)
YUV	164.1830, -61.2222, 36.6735
Hunter-Lab	63.9628, -1.2695, 37.5305

# Details

The XYZ color **39.6553, 40.9124, 7.8143** is a dark color, and the websafe version is hex **CC9900**. The color can be described as middle muted orange. A complement of this color would be **14.8117, 10.4992, 59.6380**, and the grayscale version is **35.6361, 37.4920, 40.8288**.

A 20% lighter version of the original color is **69.5189, 74.3656, 21.9992**, and **18.2780, 18.6938, 2.6449** is the 20% darker color. If you saturate the color by 10%, you get **38.5241, 39.0694, 6.1451**, and if you desaturate by 10%, it is **41.0081, 42.9003, 10.4785**.

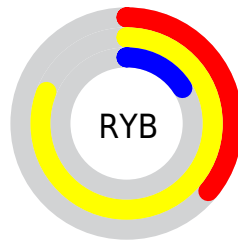
# Distribution



Red (81%)

Green (65%)

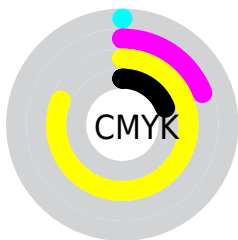
Blue (16%)



Red (36%)

Yellow (81%)

Blue (16%)

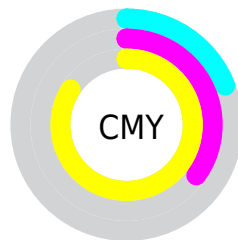


Cyan (0%)

Magenta (19%)

Yellow (81%)

Black (19%)



Cyan (19%)

Magenta (35%)


Yellow (84%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 39.6553, 40.9124, 7.8143 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 39.6553, 40.9124, 7.8143 by changing the saturation by 10% instead.





 39.6553, 40.9124,  
7.8143


 39.6553, 40.9124,  
7.8143


335.8280,  
349.9544, 184.1480


 27.4529, 28.2506,  
3.8903


 73.9260, 76.5509,  
22.1337

 18.0520, 18.5147,  
1.5654


 96.7250, 100.2964,  
33.3662


 11.0872, 11.3201,  
0.2659


 123.7870,  
128.5053, 47.8719

 6.1933, 6.2826,  
0.0000

 155.4772,  
161.5620, 66.0694

 3.0047, 3.0177,  
0.0000

 192.1611,  
199.8509, 88.3772

 1.1563, 1.1410,  
0.0000

 234.2039,

 0.0714, 0.0127,

243.7563, 115.2139

0.0000

281.9711,  
293.6626, 146.9980

■ 0.0000, 0.0000,  
0.0000

■ 39.6553, 40.9124,  
7.8143

■ 39.6553, 40.9124,  
7.8143

■ 38.5241, 39.0694,  
6.1451

■ 41.0081, 42.9003,  
10.4785

■ 37.6135, 37.4419,  
5.2446

■ 42.6061, 45.0384,  
14.2726

■ 44.4724, 47.3380,  
19.3129

■ 46.6267, 49.8075,  
25.7005

■ 49.0864, 52.4545,  
33.5261

■ 51.8676, 55.2859,  
42.8726

■ 54.9852, 58.3081,  
53.8165

■ 58.4529, 61.5273,  
66.4292

■ 62.2839, 64.9492,  
80.7776

# Harmonies

## Analogous

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



50.8753, 40.9124, 10.9781



39.6553, 40.9124, 7.8143



30.0468, 40.9124, 10.1400

# Triad

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



39.6553, 40.9124, 7.8143



23.3979, 40.9124, 78.1217



59.0201, 40.9124, 83.7656

# Complementary

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



39.6553, 40.9124, 7.8143



14.8117, 10.4992, 59.6380

# 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.



49.3081, 40.9124, 119.4863



39.6553, 40.9124, 7.8143



28.9459, 40.9124, 115.3104

# Square

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



39.6553, 40.9124, 7.8143



21.7491, 40.9124, 42.3935



38.1267, 40.9124, 133.0738



63.2570, 40.9124, 46.7715



# Rectangle

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



39.6553, 40.9124, 7.8143



25.5468, 40.9124, 15.5755



38.1267, 40.9124, 133.0738



56.2094, 40.9124, 96.8580

# Sweetspot

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



39.6562, 40.9144, 7.8151



82.2991, 87.8340, 63.5373



27.7165, 15.2413, 9.3650



17.2697, 18.4471, 12.4409



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.



39.6562, 40.9144, 7.8151



61.2243, 61.1615, 8.7982



37.8676, 52.2414, 10.0957



11.9218, 12.6325, 11.8894



23.2388, 23.2106, 3.2553



1.2545, 1.3086, 0.1865



# Inverse Universe

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



14.8117, 10.4992, 59.6380



20.0797, 11.1373, 95.6991



15.3361, 7.7458, 59.0789



10.8121, 11.2647, 14.1748



7.5835, 4.1909, 36.3655



0.4514, 0.3366, 1.8961



# Previews

## White Background



This preview shows how the XYZ color 39.6553, 40.9124, 7.8143 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 39.6553, 40.9124, 7.8143 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 39.6553, 40.9124, 7.8143**

## **Background**



This preview shows how black text looks on a background with the XYZ color 39.6553, 40.9124, 7.8143.



This preview shows how white text looks on a background with the XYZ color 39.6553, 40.9124,



# 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

39.6553, 40.9124, 7.8143

### Protanopia

37.1451, 41.0026, 8.0544

### Deuteranopia

41.8340, 40.9605, 7.8918



## Tritanopia

46.6879, 40.9002, 42.4796

# Trichromacy



## Original Color

39.6553, 40.9124, 7.8143

## Protanomaly

38.0637, 40.9153, 7.9891

## Deuteranomaly

40.8271, 40.7081, 7.8034

## Tritanomaly

42.8860, 40.3710, 23.6212

# Monochromacy



## Original Color

39.6553, 40.9124, 7.8143

## Achromatopsia

35.2861, 37.1238, 40.4278

## Achromatomaly

35.3753, 37.8259, 22.8894

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 39.6553, 40.9124, 7.8143 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(206, 167, 40)` looks like.

```
.text, #text, p{  
    color:rgb(206, 167, 40)  
}
```

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(206, 167, 40) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(206, 167, 40) }
```

## Border

The CSS property to change the border of an element to XYZ 39.6553, 40.9124, 7.8143 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(206, 167, 40) }
```



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

```
.border{ border-color:rgb(206, 167, 40) }
```

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

Here you see how a box with a 4 pixel rgb(206, 167, 40) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(206, 167, 40); -webkit-box-  
shadow:4px 4px 4px 4px rgb(206, 167, 40);  
box-shadow:4px 4px 4px 4px rgb(206, 167,  
40) }
```

# Background

The CSS property to change the background color of an element to XYZ 39.6553, 40.9124, 7.8143 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(206, 167, 40) }
```

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

```
.background{ background-color: rgb(206,  
167, 40) }
```

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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