

# Converting Colors

XYZ(37.9676, 33.5665, 4.4779)

Have a look what the booklet for  
XYZ(37.9676, 33.5665, 4.4779)  
contains.

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# Color

**XYZ(37.9934, 33.5079,  
4.4652)**

# Conversions

## Conversions Part 1

Format	Color
Hex	D98C00
RGB	217, 140, 0
RGB Percent	85%, 55%, 0%
CMY	0.1490, 0.4510, 1.0000
CMYK	0.00, 0.35, 1.00, 0.15
HSL	39°, 100%, 43%
HSV	39°, 100%, 85%
XYZ	37.9934, 33.5079, 4.4652
YIQ	147.0630, 90.8320, -27.2160

# Conversions

## Conversions Part 2

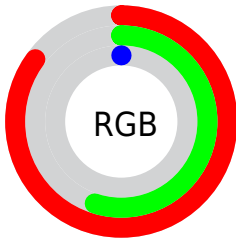
Format	Color
<a href="#">RYB</a>	<a href="#">119, 217, 0</a>
Decimal	<a href="#">14257152</a>
CIELab	<a href="#">64.57, 21.04, 69.94</a>
CIElCh	<a href="#">65, 73.039, 73.261</a>
Yxy	<a href="#">33.5079, 0.5001, 0.4411</a>
Android (android.graphics.Color)	<a href="#">4292447232</a> ( <a href="#">0xFFD98C00</a> )
YUV	<a href="#">147.0630, -72.5021, 61.3347</a>
Hunter-Lab	<a href="#">57.8860, 15.8577, 35.9467</a>

# Details

The XYZ color **37.9934, 33.5079, 4.4652** 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 **15.1786, 10.3181, 66.8368**, and the grayscale version is **28.0250, 29.4845, 32.1086**.

A 20% lighter version of the original color is **61.7344, 60.3246, 14.6934**, and **17.3665, 14.3802, 1.8604** is the 20% darker color. If you saturate the color by 10%, you get **37.9935, 33.5085, 4.4653**, and if you desaturate by 10%, it is **39.3010, 35.8961, 5.6018**.

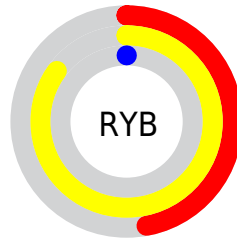
# Distribution



Red (85%)

Green (55%)

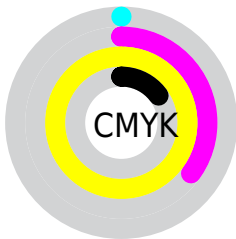
Blue (0%)



Red (47%)

Yellow (85%)

Blue (0%)

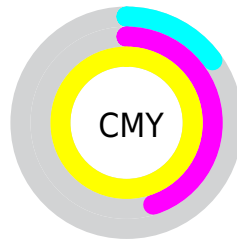


Cyan (0%)

Magenta (35%)

Yellow (100%)

Black (15%)



Cyan (15%)

Magenta (45%)


Yellow (100%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 37.9934, 33.5079, 4.4652 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 37.9934, 33.5079, 4.4652 by changing the saturation by 10% instead.





 37.9934, 33.5079,  
4.4652


 37.9934, 33.5079,  
4.4652


328.8730,  
317.9322, 153.2637


 26.1548, 22.5158,  
1.8839


 71.4020, 65.1677,  
15.0692


 17.0727, 14.2364,  
0.4824


 93.7026, 86.6042,  
23.9289


 10.3820, 8.2853,  
0.0000


 120.2213,  
112.2909, 35.7185

 5.7172, 4.2780,  
0.0000

 151.3234,  
142.6123, 50.8566

 2.7129, 1.8303,  
0.0000

 187.3743,  
177.9527, 69.7615


 1.0038, 0.5059,  
0.0000


 228.7393,


 0.0000, 0.0000,


218.6966, 92.8520


0.0000


 275.7837,  
265.2283, 120.5466

 37.9934, 33.5079,  
4.4652


 37.9934, 33.5079,  
4.4652


 37.9935, 33.5085,  
4.4653

 39.3010, 35.8961,  
5.6018

 40.8477, 38.5070,  
7.6049

 42.6883, 41.3664,  
10.7525

 44.8538, 44.4889,  
15.1995

 47.3702, 47.8873,  
21.0768

■ 50.2605, 51.5730,  
28.4989

■ 53.5457, 55.5566,  
37.5688

■ 57.2449, 59.8479,  
48.3803

■ 61.3756, 64.4559,  
61.0204

# Harmonies

## Analogous

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



48.8376, 33.5079, 9.5492



37.9934, 33.5079, 4.4652



27.4576, 33.5079, 4.2460

# Triad

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



37.9934, 33.5079, 4.4652



16.0201, 33.5079, 51.3416



47.6998, 33.5079, 96.4895

# Complementary

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



37.9934, 33.5079, 4.4652



15.1786, 10.3181, 66.8368

# 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.



36.6836, 33.5079, 126.0560



37.9934, 33.5079, 4.4652



19.3415, 33.5079, 91.8427

# Square

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



37.9934, 33.5079, 4.4652



16.2206, 33.5079, 22.2928



26.4042, 33.5079, 124.0011



55.2271, 33.5079, 55.6961



# Rectangle

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



37.9934, 33.5079, 4.4652



22.0497, 33.5079, 6.4191



26.4042, 33.5079, 124.0011



44.1893, 33.5079, 108.8635

# Sweetspot

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



37.9941, 33.5096, 4.4658



77.0299, 79.9020, 53.7459



30.0475, 15.3248, 8.8813



16.0426, 16.5692, 10.2557



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.



37.9941, 33.5096, 4.4658



54.6086, 47.9972, 6.3862



45.5684, 60.3254, 9.2426



13.7533, 14.4460, 13.7890



23.1024, 20.4903, 2.7374



1.5768, 1.4876, 0.2040



# Inverse Universe

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



15.1786, 10.3181, 66.8368



21.7468, 14.6137, 96.2823



13.0295, 5.2703, 65.9758



12.7148, 13.3694, 16.5625



9.2786, 6.4267, 40.4898



0.6807, 0.5756, 2.6497



# Previews

## White Background



This preview shows how the XYZ color 37.9934, 33.5079, 4.4652 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 37.9934, 33.5079, 4.4652 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 37.9934, 33.5079, 4.4652**

## **Background**



This preview shows how black text looks on a background with the XYZ color 37.9934, 33.5079, 4.4652.



This preview shows how white text looks on a background with the XYZ color 37.9934, 33.5079,



# 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

37.9934, 33.5079, 4.4652

### Protanopia

30.4445, 33.8353, 5.3782

### Deuteranopia

34.3006, 33.6370, 4.6848



## Tritanopia

43.1477, 33.5467, 29.0120

# Trichromacy



## Original Color

37.9934, 33.5079, 4.4652

## Protanomaly

32.8596, 33.3616, 4.9947

## Deuteranomaly

35.7325, 33.6796, 4.6175

## Tritanomaly

40.1471, 33.1436, 13.7326

# Monochromacy



## Original Color

37.9934, 33.5079, 4.4652

## Achromatopsia

27.7328, 29.1771, 31.7738

## Achromatomaly

29.0069, 29.5253, 14.7598

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 37.9934, 33.5079, 4.4652 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(217, 140, 0)` looks like.

```
.text, #text, p{  
    color:rgb(217, 140, 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(217, 140, 0) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(217, 140, 0) }
```

## Border

The CSS property to change the border of an element to XYZ 37.9934, 33.5079, 4.4652 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(217, 140, 0) }
```



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

```
.border{ border-color:rgb(217, 140, 0) }
```

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

Here you see how a box with a 4 pixel rgb(217, 140, 0) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(217, 140, 0); -webkit-box-  
shadow:4px 4px 4px 4px rgb(217, 140, 0);  
box-shadow:4px 4px 4px 4px rgb(217, 140,  
0) }
```

# Background

The CSS property to change the background color of an element to XYZ 37.9934, 33.5079, 4.4652 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(217, 140, 0) }
```

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

```
.background{ background-color: rgb(217,  
140, 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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