

# Converting Colors

XYZ(39.8345, 37.3099, 7.5847)

Have a look what the booklet for  
XYZ(39.8345, 37.3099, 7.5847)  
contains.

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# Color

**XYZ(39.8892, 37.4190,  
7.6028)**

# Conversions

## Conversions Part 1

Format	Color
Hex	D7992D
RGB	215, 153, 45
RGB Percent	84%, 60%, 18%
CMY	0.1569, 0.4000, 0.8235
CMYK	0.00, 0.29, 0.79, 0.16
HSL	38°, 68%, 51%
HSV	38°, 79%, 84%
XYZ	39.8892, 37.4190, 7.6028
YIQ	159.2260, 71.6200, -20.4440

# Conversions

## Conversions Part 2

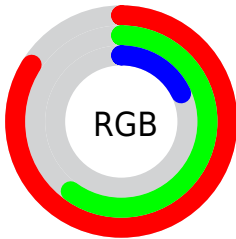
<b>Format</b>	<b>Color</b>
R <sub>Y</sub> B	143, 215, 45
Decimal	14129453
CIE Lab	67.59, 14.05, 61.76
CIE LCh	68, 63.341, 77.188
Yxy	37.4190, 0.4698, 0.4407
Android (android.graphics.Color)	4292319533 (0xFFD7992D)
YUV	159.2260, -56.3134, 48.9138
Hunter-Lab	61.1711, 9.3491, 35.4507

# Details

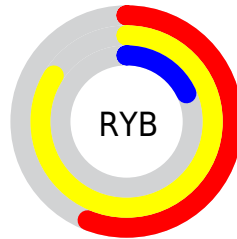
The XYZ color **39.8892, 37.4190, 7.6028** is a dark color, and the websafe version is hex **CC9933**. The color can be described as middle washed orange. A complement of this color would be **18.6054, 15.9790, 66.3931**, and the grayscale version is **33.2860, 35.0195, 38.1362**.

A 20% lighter version of the original color is **65.8050, 66.7865, 21.2272**, and **18.2689, 16.4713, 2.2164** is the 20% darker color. If you saturate the color by 10%, you get **38.3346, 34.8123, 5.5363**, and if you desaturate by 10%, it is **41.7405, 40.2824, 10.8078**.

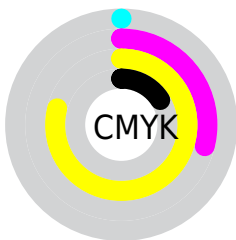
# Distribution



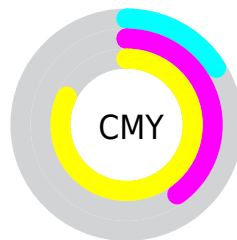
- Red (84%)
- Green (60%)
- Blue (18%)



- Red (56%)
- Yellow (84%)
- Blue (18%)



- Cyan (0%)
- Magenta (29%)
- Yellow (79%)
- Black (16%)




- Cyan (16%)
- Magenta (40%)
- Yellow (82%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 39.8892, 37.4190, 7.6028 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 39.8892, 37.4190, 7.6028 by changing the saturation by 10% instead.





 39.8892, 37.4190,  
7.6028


 39.8892, 37.4190,  
7.6028


336.7988,  
335.1210, 182.3992

 27.6360, 25.5321,  
3.7578


 74.2802, 71.2167,  
21.7092

 18.1905, 16.4739,  
1.4934


 97.1487, 93.8963,  
32.8076

 11.1874, 9.8601,  
0.2130


 124.2863,  
120.9423, 47.1609

 6.2612, 5.3063,  
0.0000

 156.0584,  
152.7390, 65.1876

 3.0467, 2.4281,  
0.0000

 192.8303,  
189.6708, 87.3062

 1.1785, 0.8403,  
0.0000

 234.9675,

 0.0893, 0.0000,

232.1221, 113.9353

0.0000

282.8352,  
280.4774, 145.4935

■ 0.0000, 0.0000,  
0.0000

■ 39.8892, 37.4190,  
7.6028

■ 39.8892, 37.4190,  
7.6028

■ 38.3346, 34.8123,  
5.5363

■ 41.7405, 40.2824,  
10.8078

■ 37.0270, 32.4352,  
4.3666

■ 43.9155, 43.4112,  
15.2979

■ 36.9122, 32.2231,  
4.2742

■ 46.4406, 46.8199,  
21.2000

■ 49.3381, 50.5198,  
28.6248

■ 52.6284, 54.5214,  
37.6722

■ 56.3300, 58.8343,  
48.4333

■ 60.4604, 63.4678,  
60.9924

■ 65.0356, 68.4303,  
75.4283

■ 70.0711, 73.7303,  
91.8151

# Harmonies

## Analogous

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



49.8964, 37.4190, 12.6750



39.8892, 37.4190, 7.6028



30.3056, 37.4190, 7.9548

# Triad

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



39.8892, 37.4190, 7.6028



20.4872, 37.4190, 58.7689



51.1766, 37.4190, 89.2393

# Complementary

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



39.8892, 37.4190, 7.6028



18.6054, 15.9790, 66.3931

# 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.



41.4016, 37.4190, 116.6263



39.8892, 37.4190, 7.6028



24.2807, 37.4190, 94.2221

# Square

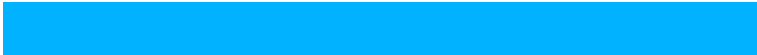
The Square scheme is like the rectangle color scheme, but the four colors are evenly spaced on the color wheel.



39.8892, 37.4190, 7.6028



20.2316, 37.4190, 29.9541



31.5664, 37.4190, 118.7802



57.1704, 37.4190, 53.8535



# Rectangle

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



39.8892, 37.4190, 7.6028



25.3901, 37.4190, 11.1825



31.5664, 37.4190, 118.7802



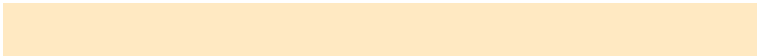
48.1506, 37.4190, 100.2710

# Sweetspot

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



39.8900, 37.4209, 7.6035



80.0041, 83.2439, 62.7723



31.6342, 17.3926, 15.6924



16.7141, 17.3359, 12.2557



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.



39.8900, 37.4209, 7.6035



55.0671, 48.8005, 6.8895



46.5967, 60.0400, 11.6160



13.0744, 13.7229, 13.1204



22.1822, 19.4816, 2.5912



1.4155, 1.3301, 0.1821



# Inverse Universe

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



18.6054, 15.9790, 66.3931



22.8750, 16.6290, 96.6118



15.5651, 8.0004, 65.0133



12.1097, 12.7428, 15.7589



9.0756, 6.4130, 39.2127



0.6250, 0.5419, 2.3910



# Previews

## White Background



This preview shows how the XYZ color 39.8892, 37.4190, 7.6028 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 39.8892, 37.4190, 7.6028 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 39.8892, 37.4190, 7.6028**

## **Background**



This preview shows how black text looks on a background with the XYZ color 39.8892, 37.4190, 7.6028.



This preview shows how white text looks on a background with the XYZ color 39.8892, 37.4190,



# 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

39.8892, 37.4190, 7.6028

### Protanopia

33.9962, 37.4380, 8.2308

### Deuteranopia

38.2437, 37.5612, 7.6172



## Tritanopia

45.7794, 37.5076, 35.3987

# Trichromacy



## Original Color

39.8892, 37.4190, 7.6028

## Protanomaly

36.0229, 37.4307, 8.0156

## Deuteranomaly

38.9214, 37.6604, 7.6007

## Tritanomaly

42.6844, 37.1424, 20.8391

# Monochromacy



## Original Color

39.8892, 37.4190, 7.6028

## Achromatopsia

32.9542, 34.6704, 37.7561

## Achromatomaly

33.9174, 35.0057, 22.1087

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 39.8892, 37.4190, 7.6028 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(215, 153, 45)` looks like.

```
.text, #text, p{  
    color:rgb(215, 153, 45)  
}
```

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(215, 153, 45) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(215, 153, 45) }
```

## Border

The CSS property to change the border of an element to XYZ 39.8892, 37.4190, 7.6028 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(215, 153, 45) }
```



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

```
.border{ border-color:rgb(215, 153, 45) }
```

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

Here you see how a box with a 4 pixel `rgb(215, 153, 45)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(215, 153, 45); -webkit-box-  
shadow:4px 4px 4px 4px rgb(215, 153, 45);  
box-shadow:4px 4px 4px 4px rgb(215, 153,  
45) }
```

# Background

The CSS property to change the background color of an element to XYZ 39.8892, 37.4190, 7.6028 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(215, 153, 45) }
```

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

```
.background{ background-color: rgb(215,  
153, 45) }
```

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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