

# Converting Colors

XYZ(38.6517, 33.3770, 6.2390)

Have a look what the booklet for  
XYZ(38.6517, 33.3770, 6.2390)  
contains.

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# Color

**XYZ(38.6517, 33.3770,  
6.2390)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	DB8A26
RGB	219, 138, 38
RGB Percent	86%, 54%, 15%
CMY	0.1412, 0.4588, 0.8510
CMYK	0.00, 0.37, 0.83, 0.14
HSL	33°, 72%, 50%
HSV	33°, 83%, 86%
XYZ	38.6517, 33.3770, 6.2390
YIQ	150.8190, 80.3760, -13.9280

# Conversions

## Conversions Part 2

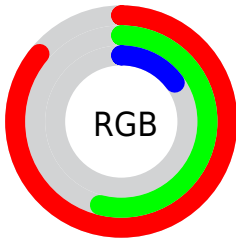
Format	Color
<a href="#">RYB</a>	<a href="#">185, 219, 38</a>
Decimal	<a href="#">14387750</a>
CIELab	<a href="#">64.47, 23.60, 61.63</a>
CIELCh	<a href="#">64, 65.994, 69.043</a>
Yxy	<a href="#">33.3770, 0.4938, 0.4264</a>
Android (android.graphics.Color)	<a href="#">4292577830</a> ( <a href="#">0xFFDB8A26</a> )
YUV	<a href="#">150.8190, -55.6198, 59.7947</a>
Hunter-Lab	<a href="#">57.7728, 18.3192, 34.0381</a>

# Details

The XYZ color **38.6517, 33.3770, 6.2390** is a dark color, and the websafe version is hex **FF9933**. The color can be described as dark washed orange. A complement of this color would be **20.1819, 18.7194, 69.5666**, and the grayscale version is **29.5453, 31.0839, 33.8504**.

A 20% lighter version of the original color is **62.0214, 59.7320, 18.3858**, and **17.5903, 14.2485, 1.8231** is the 20% darker color. If you saturate the color by 10%, you get **37.0536, 30.5900, 4.4458**, and if you desaturate by 10%, it is **40.5858, 36.5043, 9.1686**.

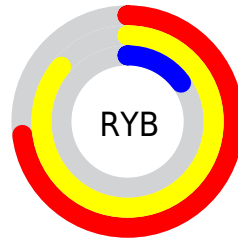
# Distribution



Red (86%)

Green (54%)

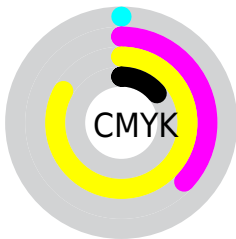
Blue (15%)



Red (73%)

Yellow (86%)

Blue (15%)

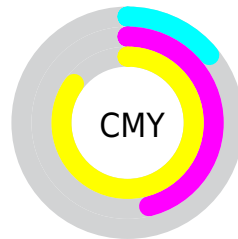


Cyan (0%)

Magenta (37%)

Yellow (83%)

Black (14%)



Cyan (14%)

Magenta (46%)


Yellow (85%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 38.6517, 33.3770, 6.2390 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 38.6517, 33.3770, 6.2390 by changing the saturation by 10% instead.





 38.6517, 33.3770,  
6.2390


 38.6517, 33.3770,  
6.2390


331.6401,  
317.3451, 170.5651


 26.6684, 22.4154,  
2.9198


 72.4034, 64.9637,  
18.9111

 17.4596, 14.1625,  
1.0538


 94.9025, 86.3575,  
29.1012

 10.6601, 8.2337,  
0.0000


 121.6376,  
111.9976, 42.4186

 5.9043, 4.2449,  
0.0000

 152.9740,  
142.2683, 59.2819

 2.8271, 1.8115,  
0.0000

 189.2771,  
177.5540, 80.1097

 1.0630, 0.4943,  
0.0000

 230.9123,

 0.0000, 0.0000,

218.2391, 105.3204

0.0000

278.2448,  
264.7080, 135.3327

■ 38.6517, 33.3770,  
6.2390

■ 38.6517, 33.3770,  
6.2390

■ 37.0536, 30.5900,  
4.4458

■ 40.5858, 36.5043,  
9.1686

■ 36.0505, 28.7347,  
3.6463

■ 42.8885, 39.9858,  
13.4012

■ 45.5900, 43.8399,  
19.0771

■ 48.7163, 48.0818,  
26.3180

■ 52.2908, 52.7255,  
35.2325

■ 56.3347, 57.7840,  
45.9194

■ 60.8679, 63.2697,  
58.4697

■ 65.9091, 69.1941,  
72.9682

■ 71.4757, 75.5685,  
89.4945

# Harmonies

## Analogous

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



47.9695, 33.3770, 12.4848



38.6517, 33.3770, 6.2390



28.9620, 33.3770, 5.4173

# Triad

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



38.6517, 33.3770, 6.2390



16.9901, 33.3770, 45.1176



44.5523, 33.3770, 93.3368

# Complementary

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



38.6517, 33.3770, 6.2390



20.1819, 18.7194, 69.5666

# 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.



34.6559, 33.3770, 115.3883



38.6517, 33.3770, 6.2390



19.6353, 33.3770, 79.7759

# Square

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



38.6517, 33.3770, 6.2390



17.6399, 33.3770, 20.7692



25.6776, 33.3770, 109.4732



51.8175, 33.3770, 58.2268



# Rectangle

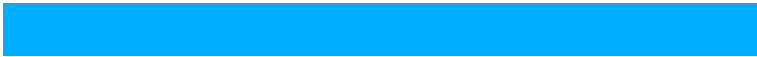
The Rectangle color scheme consists of four colors that form a rectangle on the color wheel.



38.6517, 33.3770, 6.2390



23.7198, 33.3770, 7.2431



25.6776, 33.3770, 109.4732



41.3520, 33.3770, 103.1532

# Sweetspot

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



38.6524, 33.3787, 6.2396



77.9966, 79.6828, 60.7040



33.2633, 17.7892, 19.2759



16.2582, 16.5108, 11.8363



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.



38.6524, 33.3787, 6.2396



50.9318, 40.6213, 5.2295



52.2450, 64.4966, 11.5296



13.6495, 14.2384, 13.7545



21.4874, 17.2603, 2.1991



1.4776, 1.2893, 0.1710



# Inverse Universe

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



20.1819, 18.7194, 69.5666



24.2718, 19.6163, 97.1148



14.6541, 7.1065, 67.6164



12.8160, 13.5717, 16.5963



10.2772, 8.4239, 40.8227



0.7510, 0.7160, 2.6731



# Previews

## White Background



This preview shows how the XYZ color 38.6517, 33.3770, 6.2390 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 38.6517, 33.3770, 6.2390 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 38.6517, 33.3770, 6.2390**

## **Background**



This preview shows how black text looks on a background with the XYZ color 38.6517, 33.3770, 6.2390.



This preview shows how white text looks on a background with the XYZ color 38.6517, 33.3770,



# 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

38.6517, 33.3770, 6.2390

### Protanopia

30.3975, 33.5185, 7.1531

### Deuteranopia

34.0479, 33.4750, 6.1056



## Tritanopia

43.1782, 33.3828, 28.2125

# Trichromacy



## Original Color

38.6517, 33.3770, 6.2390

## Protanomaly

33.0448, 33.1793, 6.7604

## Deuteranomaly

35.6056, 33.3513, 6.1509

## Tritanomaly

40.7737, 32.9914, 16.7893

# Monochromacy



## Original Color

38.6517, 33.3770, 6.2390

## Achromatopsia

29.4150, 30.9469, 33.7012

## Achromatomaly

30.9979, 30.9137, 19.0850

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 38.6517, 33.3770, 6.2390 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(219, 138, 38)` looks like.

```
.text, #text, p{  
    color:rgb(219, 138, 38)  
}
```

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(219, 138, 38) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(219, 138, 38) }
```

## Border

The CSS property to change the border of an element to XYZ 38.6517, 33.3770, 6.2390 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(219, 138, 38) }
```



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

```
.border{ border-color:rgb(219, 138, 38) }
```

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

Here you see how a box with a 4 pixel `rgb(219, 138, 38)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(219, 138, 38); -webkit-box-  
shadow:4px 4px 4px 4px rgb(219, 138, 38);  
box-shadow:4px 4px 4px 4px rgb(219, 138,  
38) }
```

# Background

The CSS property to change the background color of an element to XYZ 38.6517, 33.3770, 6.2390 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(219, 138, 38) }
```

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

```
.background{ background-color: rgb(219,  
138, 38) }
```

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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