

# Converting Colors

XYZ(42.2435, 37.9571, 10.6356)

Have a look what the booklet for  
XYZ(42.2435, 37.9571, 10.6356)  
contains.

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# Color

**XYZ(42.0739, 37.7596,  
10.5396)**

# Conversions

## Conversions Part 1

Format	Color
Hex	DE9644
RGB	222, 150, 68
RGB Percent	87%, 59%, 27%
CMY	0.1294, 0.4117, 0.7333
CMYK	0.00, 0.32, 0.69, 0.13
HSL	32°, 70%, 57%
HSV	32°, 69%, 87%
XYZ	42.0739, 37.7596, 10.5396
YIQ	162.1800, 69.2340, -10.2380

# Conversions

## Conversions Part 2

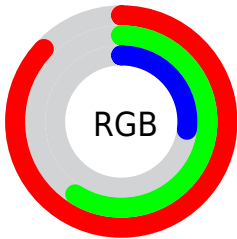
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	203, 222, 68
Decimal	14587460
CIE <sub>Lab</sub>	67.84, 19.67, 52.73
CIE <sub>LCh</sub>	68, 56.276, 69.543
Yxy	37.7596, 0.4656, 0.4178
Android (android.graphics.Color)	4292777540 (0xFFDE9644)
YUV	162.1800, -46.4307, 52.4621
Hunter-Lab	61.4488, 14.6831, 32.8449

# Details

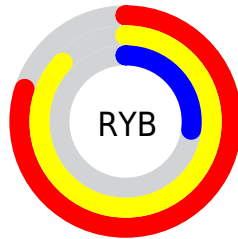
The XYZ color **42.0739, 37.7596, 10.5396** is a dark color, and the websafe version is hex **CC9933**. The color can be described as middle muted orange. A complement of this color would be **24.9462, 25.2577, 72.6672**, and the grayscale version is **34.6161, 36.4189, 39.6601**.

A 20% lighter version of the original color is **66.2230, 65.8018, 26.9800**, and **19.4348, 16.6341, 2.5672** is the 20% darker color. If you saturate the color by 10%, you get **39.9370, 34.3727, 7.0941**, and if you desaturate by 10%, it is **44.6156, 41.5463, 15.3858**.

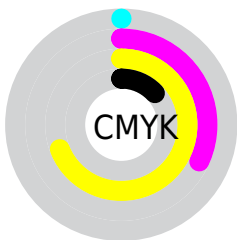
# Distribution



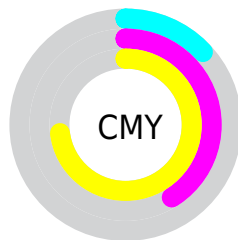
- Red (87%)
- Green (59%)
- Blue (27%)



- Red (80%)
- Yellow (87%)
- Blue (27%)



- Cyan (0%)
- Magenta (32%)
- Yellow (69%)
- Black (13%)




- Cyan (13%)
- Magenta (41%)
- Yellow (73%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 42.0739, 37.7596, 10.5396 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 42.0739, 37.7596, 10.5396 by changing the saturation by 10% instead.





 42.0739, 37.7596,  
10.5396


 42.0739, 37.7596,  
10.5396


345.7756,  
336.5876, 205.1038


 29.3505, 25.7962,  
5.6479


 77.5759, 71.7395,  
27.4291


 19.4918, 16.6712,  
2.5669


 101.0853, 94.5248,  
40.2640


 12.1323, 10.0004,  
0.8753


 128.9207,  
121.6861, 56.5838

 6.9067, 5.3992,  
0.0000

 161.4474,  
153.6079, 76.8069

 3.4496, 2.4833,  
0.0000

 199.0310,  
190.6746, 101.3519

 1.3957, 0.8683,  
0.0000

242.0366,

 0.2532, 0.0000,

233.2705, 130.6374

0.0000

290.8297,  
281.7800, 165.0819

■ 0.0000, 0.0000,  
0.0000

■ 42.0739, 37.7596,  
10.5396

■ 42.0739, 37.7596,  
10.5396

■ 39.9370, 34.3727,  
7.0941

■ 44.6156, 41.5463,  
15.3858

■ 38.1679, 31.3601,  
4.8841

■ 47.5892, 45.7446,  
21.7682

■ 36.7131, 28.6955,  
3.6441

■ 51.0218, 50.3728,  
29.8088

■ 36.6278, 28.5371,  
3.5777

■ 54.9372, 55.4458,  
39.6163

■ 59.3575, 60.9775,  
51.2902

■ 64.3030, 66.9814,  
64.9225

■ 69.7931, 73.4701,  
80.5990

■ 75.8458, 80.4556,  
98.4005

■ 80.3480, 87.0974,  
107.1844

# Harmonies

## Analogous

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



50.4332, 37.7596, 17.4944



42.0739, 37.7596, 10.5396



33.1809, 37.7596, 9.6142

# Triad

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



42.0739, 37.7596, 10.5396



21.7644, 37.7596, 49.5992



47.6568, 37.7596, 90.3703

# Complementary

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



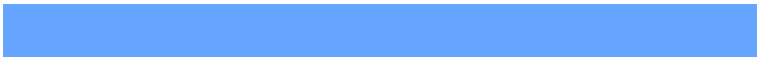
42.0739, 37.7596, 10.5396



24.9462, 25.2577, 72.6672

# 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.



38.7413, 37.7596, 108.9717



42.0739, 37.7596, 10.5396



24.4507, 37.7596, 79.8868

# Square

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



42.0739, 37.7596, 10.5396



22.3611, 37.7596, 26.5115



30.3427, 37.7596, 104.5070



54.0014, 37.7596, 60.2829



# Rectangle

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



42.0739, 37.7596, 10.5396



28.2409, 37.7596, 11.8908



30.3427, 37.7596, 104.5070



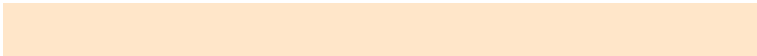
44.8073, 37.7596, 98.6332

# Sweetspot

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



42.0748, 37.7615, 10.5403



80.1229, 82.0727, 67.1550



37.1064, 21.6301, 27.9817



16.7816, 17.1090, 13.3939



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.



42.0748, 37.7615, 10.5403



53.5801, 45.2321, 8.2260



56.5083, 67.7869, 15.5751



14.3085, 14.9030, 14.4292



21.8687, 17.1753, 2.1626



1.6052, 1.3693, 0.1797



# Inverse Universe

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



24.9462, 25.2577, 72.6672



28.7781, 27.1753, 98.3363



17.8190, 10.7317, 70.2390



13.4777, 14.2944, 17.4364



10.8682, 9.2059, 42.2525



0.8423, 0.8161, 2.9584



# Previews

## White Background



This preview shows how the XYZ color 42.0739, 37.7596, 10.5396 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 42.0739, 37.7596, 10.5396 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 42.0739, 37.7596, 10.5396**

## **Background**



This preview shows how black text looks on a background with the XYZ color 42.0739, 37.7596, 10.5396.



This preview shows how white text looks on a background with the XYZ color 42.0739, 37.7596,



# 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

42.0739, 37.7596, 10.5396

### Protanopia

34.6060, 37.9438, 11.8033

### Deuteranopia

38.6638, 37.9689, 10.4452



## Tritanopia

46.8709, 37.6476, 34.5021

# Trichromacy



## Original Color

42.0739, 37.7596, 10.5396

## Protanomaly

36.9968, 37.6023, 11.2693

## Deuteranomaly

39.8858, 37.8450, 10.5128

## Tritanomaly

44.4758, 37.3345, 22.9513

# Monochromacy



## Original Color

42.0739, 37.7596, 10.5396

## Achromatopsia

34.3422, 36.1307, 39.3463

## Achromatomaly

35.8903, 36.2026, 25.5182

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 42.0739, 37.7596, 10.5396 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(222, 150, 68)` looks like.

```
.text, #text, p{  
    color:rgb(222, 150, 68)  
}
```

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(222, 150, 68) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(222, 150, 68) }
```

## Border

The CSS property to change the border of an element to XYZ 42.0739, 37.7596, 10.5396 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(222, 150, 68) }
```



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

```
.border{ border-color:rgb(222, 150, 68) }
```

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

Here you see how a box with a 4 pixel `rgb(222, 150, 68)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(222, 150, 68); -webkit-box-  
shadow:4px 4px 4px 4px rgb(222, 150, 68);  
box-shadow:4px 4px 4px 4px rgb(222, 150,  
68) }
```

# Background

The CSS property to change the background color of an element to XYZ 42.0739, 37.7596, 10.5396 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(222, 150, 68) }
```

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

```
.background{ background-color: rgb(222,  
150, 68) }
```

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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