

# Converting Colors

XYZ(36.3131, 33.5505, 4.5620)

Have a look what the booklet for  
XYZ(36.3131, 33.5505, 4.5620)  
contains.

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# Color

**XYZ(36.2678, 33.5018,  
4.5550)**

# Conversions

## Conversions Part 1

Format	Color
Hex	D19000
RGB	209, 144, 0
RGB Percent	82%, 56%, 0%
CMY	0.1804, 0.4353, 1.0000
CMYK	0.00, 0.31, 1.00, 0.18
HSL	41°, 100%, 41%
HSV	41°, 100%, 82%
XYZ	36.2678, 33.5018, 4.5550
YIQ	147.0190, 84.9640, -31.0040

# Conversions

## Conversions Part 2

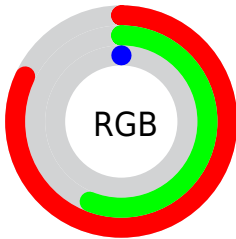
Format	Color
R <sub>Y</sub> B	94, 209, 0
Decimal	13733888
CIE Lab	64.57, 15.39, 69.48
CIE LCh	65, 71.162, 77.506
Yxy	33.5018, 0.4880, 0.4507
Android (android.graphics.Color)	4291923968 (0xFFD19000)
YUV	147.0190, -72.4804, 54.3573
Hunter-Lab	57.8807, 10.5560, 35.8506

# Details

The XYZ color **36.2678, 33.5018, 4.5550** 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 **13.3994, 8.3848, 61.2335**, and the grayscale version is **28.0083, 29.4669, 32.0895**.

A 20% lighter version of the original color is **62.6367, 62.1292, 14.9942**, and **16.3971, 14.3950, 1.9143** is the 20% darker color. If you saturate the color by 10%, you get **36.2679, 33.5023, 4.5551**, and if you desaturate by 10%, it is **37.4161, 35.5834, 5.6015**.

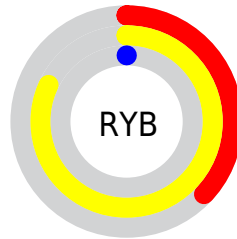
# Distribution



Red (82%)

Green (56%)

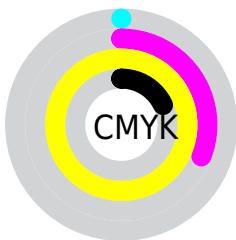
Blue (0%)



Red (37%)

Yellow (82%)

Blue (0%)

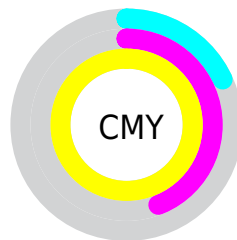


Cyan (0%)

Magenta (31%)

Yellow (100%)

Black (18%)



Cyan (18%)

Magenta (44%)


Yellow (100%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 36.2678, 33.5018, 4.5550 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 36.2678, 33.5018, 4.5550 by changing the saturation by 10% instead.





 36.2678, 33.5018,  
4.5550


 36.2678, 33.5018,  
4.5550


321.5404,  
317.9048, 154.2077

 24.8122, 22.5111,  
1.9345


 68.7664, 65.1582,  
15.2708

 16.0651, 14.2330,  
0.5145


 90.5400, 86.5927,  
24.2031


 9.6614, 8.2829,  
0.0000


 116.4837,  
112.2772, 36.0765

 5.2356, 4.2765,  
0.0000

 146.9628,  
142.5963, 51.3095

 2.4223, 1.8294,  
0.0000

 182.3427,  
177.9341, 70.3205

 0.8562, 0.5054,  
0.0000

 222.9887,

 0.0000, 0.0000,

218.6753, 93.5282

0.0000

269.2661,  
265.2040, 121.3511

36.2678, 33.5018,  
4.5550

36.2678, 33.5018,  
4.5550

36.2679, 33.5023,  
4.5551

37.4161, 35.5834,  
5.6015

38.7668, 37.8368,  
7.4329

40.3706, 40.2850,  
10.3086

42.2551, 42.9405,  
14.3694

44.4436, 45.8141,  
19.7341

■ 46.9568, 48.9152,  
26.5071

■ 49.8132, 52.2527,  
34.7820

■ 53.0299, 55.8347,  
44.6444

■ 56.6225, 59.6687,  
56.1733

# Harmonies

## Analogous

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



46.9809, 33.5018, 8.7887



36.2678, 33.5018, 4.5550



26.3094, 33.5018, 4.8795

# Triad

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



36.2678, 33.5018, 4.5550



16.5843, 33.5018, 56.0746



48.5674, 33.5018, 88.9667

# Complementary

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



36.2678, 33.5018, 4.5550



13.3994, 8.3848, 61.2335

# 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.



38.1015, 33.5018, 120.3210



36.2678, 33.5018, 4.5550



20.3650, 33.5018, 95.3977

# Square

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



36.2678, 33.5018, 4.5550



16.2991, 33.5018, 25.6440



27.7926, 33.5018, 123.1550



55.0333, 33.5018, 49.9998



# Rectangle

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



36.2678, 33.5018, 4.5550



21.3491, 33.5018, 7.6296



27.7926, 33.5018, 123.1550



45.3099, 33.5018, 101.4748

# Sweetspot

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



36.2685, 33.5035, 4.5556



77.9606, 81.7633, 54.0561



27.2835, 13.9511, 6.4388



16.2652, 17.0142, 10.3299



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.



36.2685, 33.5035, 4.5556



56.7059, 52.1917, 7.0853



39.5265, 54.2233, 8.3832



12.4803, 13.1514, 12.4927



22.4531, 20.8393, 2.8390



1.3244, 1.3031, 0.1817



# Inverse Universe

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



13.3994, 8.3848, 61.2335



20.8679, 12.8559, 95.9893



12.3201, 5.0220, 60.6413



11.4593, 12.0090, 14.9576



8.3391, 5.3248, 37.7808



0.5367, 0.4387, 2.1359



# Previews

## White Background



This preview shows how the XYZ color 36.2678, 33.5018, 4.5550 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 36.2678, 33.5018, 4.5550 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 36.2678, 33.5018, 4.5550**

## **Background**



This preview shows how black text looks on a background with the XYZ color 36.2678, 33.5018, 4.5550.



This preview shows how white text looks on a background with the XYZ color 36.2678, 33.5018,



# 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

36.2678, 33.5018, 4.5550

### Protanopia

30.2611, 33.4901, 5.2501

### Deuteranopia

34.3006, 33.6370, 4.6848



## Tritanopia

41.5835, 33.5109, 30.6621

# Trichromacy



## Original Color

36.2678, 33.5018, 4.5550

## Protanomaly

32.2583, 33.2928, 4.9557

## Deuteranomaly

35.0623, 33.5639, 4.6305

## Tritanomaly

38.4608, 33.0958, 14.4862

# Monochromacy



## Original Color

36.2678, 33.5018, 4.5550

## Achromatopsia

27.7328, 29.1771, 31.7738

## Achromatomaly

28.8768, 29.9120, 14.8413

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 36.2678, 33.5018, 4.5550 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(209, 144, 0)` looks like.

```
.text, #text, p{  
    color:rgb(209, 144, 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(209, 144, 0) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(209, 144, 0) }
```

## Border

The CSS property to change the border of an element to XYZ 36.2678, 33.5018, 4.5550 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(209, 144, 0) }
```



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

```
.border{ border-color:rgb(209, 144, 0) }
```

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

Here you see how a box with a 4 pixel `rgb(209, 144, 0)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(209, 144, 0); -webkit-box-  
shadow:4px 4px 4px 4px rgb(209, 144, 0);  
box-shadow:4px 4px 4px 4px rgb(209, 144,  
0) }
```

# Background

The CSS property to change the background color of an element to XYZ 36.2678, 33.5018, 4.5550 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(209, 144, 0) }
```

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

```
.background{ background-color: rgb(209,  
144, 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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