

# Converting Colors

XYZ(37.0218, 37.0772, 5.2054)

Have a look what the booklet for  
XYZ(37.0218, 37.0772, 5.2054)  
contains.

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# Color

**XYZ(36.9588, 36.9513,  
5.1844)**

# Conversions

## Conversions Part 1

Format	Color
Hex	CC9D00
RGB	204, 157, 0
RGB Percent	80%, 62%, 0%
CMY	0.2000, 0.3843, 0.9999
CMYK	0.00, 0.23, 1.00, 0.20
HSL	46°, 100%, 40%
HSV	46°, 100%, 80%
XYZ	36.9588, 36.9513, 5.1844
YIQ	153.1550, 78.4090, -38.8630

# Conversions

## Conversions Part 2

Format	Color
R <sub>Y</sub> B	61, 204, 0
Decimal	13409536
CIE Lab	67.24, 6.15, 71.03
CIE LCh	67, 71.294, 85.050
Yxy	36.9513, 0.4673, 0.4672
Android (android.graphics.Color)	4291599616 (0xFFCC9D00)
YUV	153.1550, -75.5054, 44.5911
Hunter-Lab	60.7876, 2.1496, 37.4946

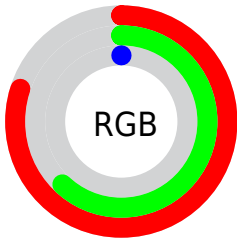
# Details

The XYZ color **36.9588, 36.9513, 5.1844** 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 **11.9160, 6.3934, 57.7322**, and the grayscale version is **30.6423, 32.2381, 35.1073**.

A 20% lighter version of the original color is **65.8043, 68.3565, 16.3825**, and **16.6556, 16.2374, 2.2563** is the 20% darker color. If you saturate the color by 10%, you get **36.9590, 36.9519, 5.1845**, and if you desaturate by 10%, it is **37.9001, 38.6262, 6.1394**.

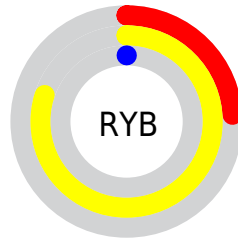
# Distribution



Red (80%)

Green (62%)

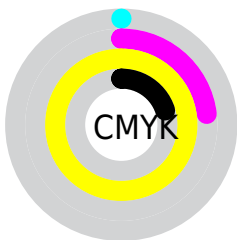
Blue (0%)



Red (24%)

Yellow (80%)

Blue (0%)

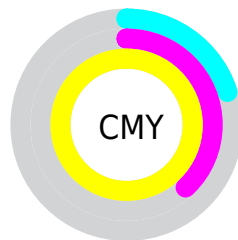


Cyan (0%)

Magenta (23%)

Yellow (100%)

Black (20%)



Cyan (20%)

Magenta (38%)


Yellow (100%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 36.9588, 36.9513, 5.1844 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 36.9588, 36.9513, 5.1844 by changing the saturation by 10% instead.





 36.9588, 36.9513,  
5.1844


 36.9588, 36.9513,  
5.1844

324.4907,  
333.0996, 160.5988


 25.3491, 25.1698,  
2.2952


 69.8237, 70.4979,  
16.6604

 16.4675, 16.2036,  
0.7285


 91.8095, 93.0317,  
26.0843

 9.9485, 9.6683,  
0.0000


 117.9849,  
119.9185, 38.5236

 5.4268, 5.1796,  
0.0000

 148.7150,  
151.5425, 54.3967

 2.5371, 2.3530,  
0.0000

 184.3653,  
188.2883, 74.1223

 0.9140, 0.8016,  
0.0000

 225.3011,

 0.0000, 0.0000,

230.5401, 98.1188

0.0000

271.8878,  
278.6824, 126.8047

36.9588, 36.9513,  
5.1844

36.9588, 36.9513,  
5.1844

36.9590, 36.9519,  
5.1845

37.9001, 38.6262,  
6.1394

39.0086, 40.4160,  
7.8260

40.3324, 42.3419,  
10.4923

41.8970, 44.4146,  
14.2706

43.7238, 46.6433,  
19.2727

■ 45.8318, 49.0360,  
25.5965

■ 48.2381, 51.5999,  
33.3303

■ 50.9580, 54.3419,  
42.5543

■ 54.0061, 57.2682,  
53.3431

# Harmonies

## Analogous

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



48.5317, 36.9513, 8.3826



36.9588, 36.9513, 5.1844



26.9815, 36.9513, 6.6926

# Triad

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



36.9588, 36.9513, 5.1844



19.3636, 36.9513, 71.3352



55.2281, 36.9513, 85.2844

# Complementary

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



36.9588, 36.9513, 5.1844



11.9160, 6.3934, 57.7322

# 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.



44.7524, 36.9513, 122.6666



36.9588, 36.9513, 5.1844



24.4410, 36.9513, 112.1065

# Square

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



36.9588, 36.9513, 5.1844



18.1197, 36.9513, 35.2785



33.3454, 36.9513, 134.4108



60.3808, 36.9513, 45.6324



# Rectangle

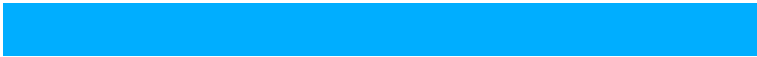
The Rectangle color scheme consists of four colors that form a rectangle on the color wheel.



36.9588, 36.9513, 5.1844



22.2901, 36.9513, 11.0004



33.3454, 36.9513, 134.4108



52.1195, 36.9513, 99.2008

# Sweetspot

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



36.9596, 36.9531, 5.1851



79.7194, 85.2808, 54.6424



25.4273, 13.0478, 3.9327



16.6875, 17.8589, 10.4707



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.



36.9596, 36.9531, 5.1851



61.0372, 60.8543, 8.5291



34.0976, 49.6319, 7.7832



11.9262, 12.6414, 11.8909



23.3360, 23.4050, 3.2877



1.2588, 1.3172, 0.1879



# Inverse Universe

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



11.9160, 6.3934, 57.7322



19.6010, 10.3219, 95.5670



12.4426, 5.1556, 57.4656



10.8080, 11.2564, 14.1734



7.5591, 4.1421, 36.3574

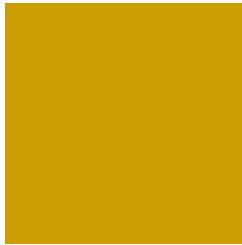


0.4495, 0.3329, 1.8955



# Previews

## White Background



This preview shows how the XYZ color 36.9588, 36.9513, 5.1844 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

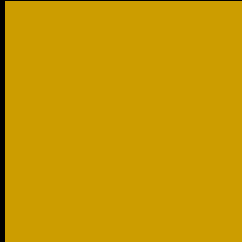
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 36.9588, 36.9513, 5.1844 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 36.9588, 36.9513, 5.1844**

## **Background**



This preview shows how black text looks on a background with the XYZ color 36.9588, 36.9513, 5.1844.



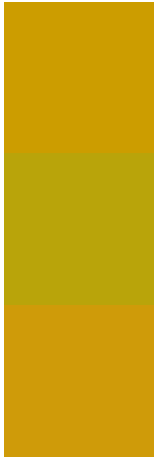
This preview shows how white text looks on a background with the XYZ color 36.9588, 36.9513,



# 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

36.9588, 36.9513, 5.1844

### Protanopia

33.3378, 36.8871, 5.6500

### Deuteranopia

37.5028, 36.7278, 5.3710



## Tritanopia

43.5161, 36.9891, 36.7444

# Trichromacy



## Original Color

36.9588, 36.9513, 5.1844

## Protanomaly

34.5160, 36.7094, 5.4387

## Deuteranomaly

37.3749, 36.9119, 5.3271

## Tritanomaly

39.5011, 36.2881, 16.9790

# Monochromacy



## Original Color

36.9588, 36.9513, 5.1844

## Achromatopsia

30.2779, 31.8547, 34.6897

## Achromatomaly

30.7265, 32.7449, 16.0102

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 36.9588, 36.9513, 5.1844 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(204, 157, 0)` looks like.

```
.text, #text, p{  
    color:rgb(204, 157, 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(204, 157, 0) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(204, 157, 0) }
```

## Border

The CSS property to change the border of an element to XYZ 36.9588, 36.9513, 5.1844 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(204, 157, 0) }
```



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

```
.border{ border-color:rgb(204, 157, 0) }
```

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

Here you see how a box with a 4 pixel rgb(204, 157, 0) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(204, 157, 0); -webkit-box-  
shadow:4px 4px 4px 4px rgb(204, 157, 0);  
box-shadow:4px 4px 4px 4px rgb(204, 157,  
0) }
```

# Background

The CSS property to change the background color of an element to XYZ 36.9588, 36.9513, 5.1844 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(204, 157, 0) }
```

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

```
.background{ background-color: rgb(204,  
157, 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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