

# Converting Colors

XYZ(30.8011, 36.7193, 5.4642)

Have a look what the booklet for  
XYZ(30.8011, 36.7193, 5.4642)  
contains.

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# Color

**XYZ(30.7972, 36.6632,  
5.4535)**

# Conversions

## Conversions Part 1

Format	Color
Hex	ABA800
RGB	171, 168, 0
RGB Percent	67%, 66%, 0%
CMY	0.3294, 0.3412, 0.9999
CMYK	0.00, 0.02, 1.00, 0.33
HSL	59°, 100%, 34%
HSV	59°, 100%, 67%
XYZ	30.7972, 36.6632, 5.4535
YIQ	149.7450, 55.7160, -51.6120

# Conversions

## Conversions Part 2

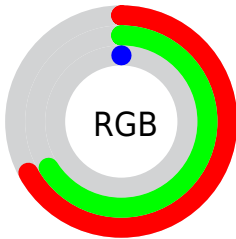
<b>Format</b>	<b>Color</b>
<b>RYB</b>	3, 171, 0
Decimal	11249664
CIELab	67.02, -14.44, 69.42
CIELCh	67, 70.907, 101.749
Yxy	36.6632, 0.4224, 0.5028
Android (android.graphics.Color)	4289439744 (0xFFABA800)
YUV	149.7450, -73.8243, 18.6406
Hunter-Lab	60.5501, -15.1735, 37.0451

# Details

The XYZ color **30.7972, 36.6632, 5.4535** is a dark color, and the websafe version is hex **999900**. A complement of this color would be **7.3835, 3.0057, 38.7187**, and the grayscale version is **29.1693, 30.6884, 33.4197**.

A 20% lighter version of the original color is **60.3253, 70.1201, 17.1925**, and **13.1848, 16.0682, 2.4066** is the 20% darker color. If you saturate the color by 10%, you get **30.7979, 36.6648, 5.4538**, and if you desaturate by 10%, it is **30.9554, 36.8164, 6.0098**.

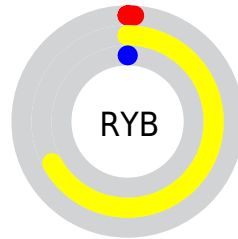
# Distribution



Red (67%)

Green (66%)

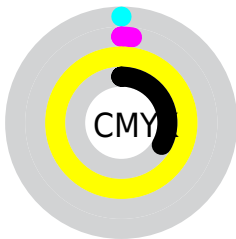
Blue (0%)



Red (1%)

Yellow (67%)

Blue (0%)

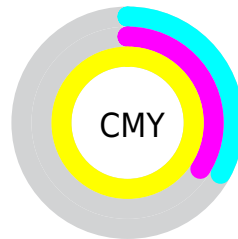


Cyan (0%)

Magenta (2%)

Yellow (100%)

Black (33%)



Cyan (33%)

Magenta (34%)


Yellow (100%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 30.7972, 36.6632, 5.4535 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 30.7972, 36.6632, 5.4535 by changing the saturation by 10% instead.





 30.7972, 36.6632,  
5.4535


 30.7972, 36.6632,  
5.4535


297.4465,  
331.8501, 163.2225


 20.5955, 24.9468,  
2.4524


 60.2987, 70.0545,  
17.2432


 12.9394, 16.0374,  
0.8148


 80.3292, 92.4982,  
26.8689

 7.4636, 9.5507,  
0.0000


 104.3667,  
119.2864, 39.5399

 3.8026, 5.1021,  
0.0000

 132.7765,  
150.8037, 55.6746

 1.5911, 2.3073,  
0.0000

 165.9241,  
187.4342, 75.6917

 0.3866, 0.7776,  
0.0000

 204.1747,

 0.0000, 0.0000,

229.5626, 100.0097

0.0000

247.8937,  
277.5730, 129.0472

■ 30.7972, 36.6632,  
5.4535

■ 30.7972, 36.6632,  
5.4535

■ 30.7979, 36.6648,  
5.4538

■ 30.9554, 36.8164,  
6.0098

■ 31.2006, 37.0033,  
7.0276

■ 31.5689, 37.2396,  
8.6926

■ 32.0762, 37.5317,  
11.0892

■ 32.7362, 37.8851,  
14.2891

■ 33.5609, 38.3045,  
18.3555

■ 34.5610, 38.7944,  
23.3451

■ 35.7464, 39.3585,  
29.3102

■ 37.1263, 40.0007,  
36.2987

# Harmonies

## Analogous

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



41.7453, 36.6632, 5.9286



30.7972, 36.6632, 5.4535



22.7941, 36.6632, 10.0025

# Triad

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



30.7972, 36.6632, 5.4535



21.5652, 36.6632, 93.8837



58.4533, 36.6632, 61.5300

# Complementary

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



30.7972, 36.6632, 5.4535



7.3835, 3.0057, 38.7187

# 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.



50.5400, 36.6632, 102.5510



30.7972, 36.6632, 5.4535



28.7543, 36.6632, 126.9193

# Square

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



30.7972, 36.6632, 5.4535



18.2469, 36.6632, 53.2594



39.2377, 36.6632, 130.7218



59.3159, 36.6632, 29.0176



# Rectangle

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



30.7972, 36.6632, 5.4535



19.6001, 36.6632, 17.9095



39.2377, 36.6632, 130.7218



56.4640, 36.6632, 75.0980

# Sweetspot

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



30.7980, 36.6649, 5.4542



61.7927, 69.4288, 41.2847



16.8259, 8.6707, 0.9509



13.6094, 15.3999, 8.3533



82.5889, 86.8899, 94.6231



15.4596, 16.2647, 17.7123



# Same Dimension

The Same Dimension uses a secret algorithm to generate beautiful new colors.



30.7980, 36.6649, 5.4542



55.1405, 65.6305, 9.7617



18.8976, 31.3602, 5.0576



8.6505, 9.3058, 8.5536



23.2216, 27.6487, 4.1128



0.6497, 0.7766, 0.1156



# Inverse Universe

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



7.3835, 3.0057, 38.7187



13.2069, 5.3502, 69.3385



10.6428, 4.6377, 38.8619



7.5897, 7.7788, 10.0541



5.5699, 2.2737, 29.1898



0.1585, 0.0704, 0.8132



# Previews

## White Background



This preview shows how the XYZ color 30.7972, 36.6632, 5.4535 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 30.7972, 36.6632, 5.4535 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 30.7972, 36.6632, 5.4535**

## **Background**



This preview shows how black text looks on a background with the XYZ color 30.7972, 36.6632, 5.4535.



This preview shows how white text looks on a background with the XYZ color 30.7972, 36.6632,



# 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

30.7972, 36.6632, 5.4535

### Protanopia

33.0426, 36.7413, 5.3502

### Deuteranopia

37.3504, 36.6347, 6.0223



## Tritanopia

38.2478, 36.5492, 42.0846

# Trichromacy



## Original Color

30.7972, 36.6632, 5.4535

## Protanomaly

32.0455, 36.4940, 5.3551

## Deuteranomaly

34.6567, 36.5165, 5.7120

## Tritanomaly

33.5847, 35.6681, 19.0244

# Monochromacy



## Original Color

30.7972, 36.6632, 5.4535

## Achromatopsia

28.9890, 30.4987, 33.2131

## Achromatomaly

28.2231, 32.2093, 15.5560

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 30.7972, 36.6632, 5.4535 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(171, 168, 0)` looks like.

```
.text, #text, p{  
    color:rgb(171, 168, 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(171, 168, 0) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(171, 168, 0) }
```

## Border

The CSS property to change the border of an element to XYZ 30.7972, 36.6632, 5.4535 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(171, 168, 0) }
```



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

```
.border{ border-color:rgb(171, 168, 0) }
```

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

Here you see how a box with a 4 pixel `rgb(171, 168, 0)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(171, 168, 0); -webkit-box-  
shadow:4px 4px 4px 4px rgb(171, 168, 0);  
box-shadow:4px 4px 4px 4px rgb(171, 168,  
0) }
```

# Background

The CSS property to change the background color of an element to XYZ 30.7972, 36.6632, 5.4535 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(171, 168, 0) }
```

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

```
.background{ background-color: rgb(171,  
168, 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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