

# Converting Colors

XYZ(32.2484, 32.5080, 4.5750)

Have a look what the booklet for  
XYZ(32.2484, 32.5080, 4.5750)  
contains.

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# Color

**XYZ(32.2333, 32.5713,  
4.5880)**

# Conversions

## Conversions Part 1

Format	Color
Hex	BF9500
RGB	191, 149, 0
RGB Percent	75%, 58%, 0%
CMY	0.2510, 0.4157, 1.0000
CMYK	0.00, 0.22, 1.00, 0.25
HSL	47°, 100%, 37%
HSV	47°, 100%, 75%
XYZ	32.2333, 32.5713, 4.5880
YIQ	144.5720, 72.8610, -37.4350

# Conversions

## Conversions Part 2

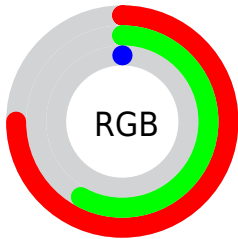
<b>Format</b>	<b>Color</b>
R <sub>Y</sub> B	54, 191, 0
Decimal	12555520
CIE Lab	63.81, 4.66, 68.01
CIE LCh	64, 68.171, 86.080
Yxy	32.5713, 0.4645, 0.4694
Android (android.graphics.Color)	4290745600 (0xFFBF9500)
YUV	144.5720, -71.2740, 40.7174
Hunter-Lab	57.0713, 0.9403, 35.1835

# Details

The XYZ color **32.2333, 32.5713, 4.5880** is a dark color, and the websafe version is hex **CC9900**. A complement of this color would be **10.2322, 5.4180, 49.7962**, and the grayscale version is **27.0004, 28.4065, 30.9347**.

A 20% lighter version of the original color is **62.7034, 63.8884, 15.3302**, and **13.9776, 13.8292, 1.9326** is the 20% darker color. If you saturate the color by 10%, you get **32.2335, 32.5720, 4.5881**, and if you desaturate by 10%, it is **33.0290, 33.9733, 5.4378**.

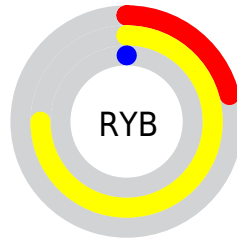
# Distribution



Red (75%)

Green (58%)

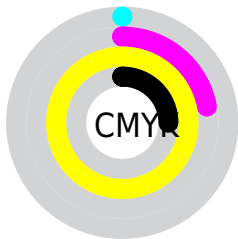
Blue (0%)



Red (21%)

Yellow (75%)

Blue (0%)

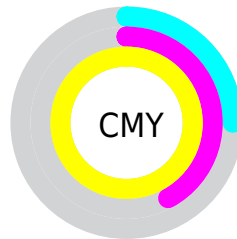


Cyan (0%)

Magenta (22%)

Yellow (100%)

Black (25%)



Cyan (25%)

Magenta (42%)


Yellow (100%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 32.2333, 32.5713, 4.5880 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 32.2333, 32.5713, 4.5880 by changing the saturation by 10% instead.





 32.2333, 32.5713,  
4.5880


 32.2333, 32.5713,  
4.5880


303.9071,  
313.7135, 154.5525

 21.6962, 21.7982,  
1.9532


 62.5394, 63.7056,  
15.3446


 13.7492, 13.7087,  
0.5262


 83.0390, 84.8357,  
24.3035


 8.0269, 7.9184,  
0.0000


 107.5903,  
110.1869, 36.2075

 4.1641, 4.0428,  
0.0000

 136.5584,  
140.1436, 51.4751

 1.7954, 1.6975,  
0.0000

 170.3088,  
175.0902, 70.5248

 0.5149, 0.4220,  
0.0000

 209.2068,

 0.0000, 0.0000,

215.4112, 93.7753

0.0000

■ 253.6178,  
261.4908, 121.6450

■ 32.2333, 32.5713,  
4.5880

■ 32.2333, 32.5713,  
4.5880

■ 32.2335, 32.5720,  
4.5881

■ 33.0290, 33.9733,  
5.4378

■ 33.9645, 35.4687,  
6.9077

■ 35.0827, 37.0763,  
9.2192

■ 36.4051, 38.8050,  
12.4841

■ 37.9500, 40.6626,  
16.7973

■ 39.7332, 42.6559,  
22.2419

■ 41.7693, 44.7908,  
28.8929

■ 44.0715, 47.0732,  
36.8186

■ 46.6519, 49.5082,  
46.0823

# Harmonies

## Analogous

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



42.4056, 32.5713, 7.2433



32.2333, 32.5713, 4.5880



23.5515, 32.5713, 6.0641

# Triad

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



32.2333, 32.5713, 4.5880



17.1955, 32.5713, 64.0493



48.8789, 32.5713, 73.7576

# Complementary

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



32.2333, 32.5713, 4.5880



10.2322, 5.4180, 49.7962

# 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.



39.7742, 32.5713, 106.9947



32.2333, 32.5713, 4.5880



21.7818, 32.5713, 99.6465

# Square

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



32.2333, 32.5713, 4.5880



15.9878, 32.5713, 31.9821



29.7169, 32.5713, 118.3200



53.1881, 32.5713, 39.1912



# Rectangle

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



32.2333, 32.5713, 4.5880



19.5036, 32.5713, 10.0283



29.7169, 32.5713, 118.3200



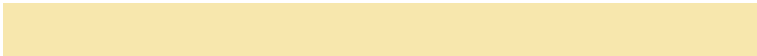
46.1968, 32.5713, 86.0281

# Sweetspot

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



32.2340, 32.5729, 4.5886



74.6236, 80.0315, 51.1233



21.9513, 11.2627, 3.4570



16.0345, 17.2100, 10.0600



92.9021, 97.7402, 106.4391



19.4759, 20.4902, 22.3138



# Same Dimension

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



32.2340, 32.5729, 4.5886



57.5432, 57.9616, 8.1549



29.4576, 42.8427, 6.7172



10.1394, 10.7549, 10.1181



21.2451, 21.5290, 3.0358



0.8771, 0.9331, 0.1339



# Inverse Universe

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



10.2322, 5.4180, 49.7962



18.1798, 9.4115, 89.1375



10.7663, 4.4641, 49.5839



9.1821, 9.5565, 12.0328



6.7742, 3.6602, 32.7423

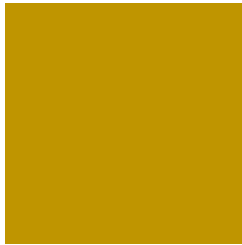


0.3151, 0.2429, 1.2991



# Previews

## White Background



This preview shows how the XYZ color 32.2333, 32.5713, 4.5880 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 32.2333, 32.5713, 4.5880 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 32.2333, 32.5713, 4.5880**

## **Background**



This preview shows how black text looks on a background with the XYZ color 32.2333, 32.5713, 4.5880.



This preview shows how white text looks on a background with the XYZ color 32.2333, 32.5713,



# 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

32.2333, 32.5713, 4.5880

### Protanopia

29.4498, 32.5764, 4.9941

### Deuteranopia

33.2535, 32.6251, 4.8318



## Tritanopia

37.8020, 32.3527, 32.6861

# Trichromacy



## Original Color

32.2333, 32.5713, 4.5880

## Protanomaly

30.4802, 32.6194, 4.8620

## Deuteranomaly

32.8709, 32.6623, 4.7443

## Tritanomaly

34.2442, 31.7743, 15.1547

# Monochromacy



## Original Color

32.2333, 32.5713, 4.5880

## Achromatopsia

26.9133, 28.3149, 30.8349

## Achromatomaly

27.1109, 29.0119, 14.2962

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 32.2333, 32.5713, 4.5880 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(191, 149, 0)` looks like.

```
.text, #text, p{  
    color:rgb(191, 149, 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(191, 149, 0) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(191, 149, 0) }
```

## Border

The CSS property to change the border of an element to XYZ 32.2333, 32.5713, 4.5880 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(191, 149, 0) }
```



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

```
.border{ border-color:rgb(191, 149, 0) }
```

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

Here you see how a box with a 4 pixel rgb(191, 149, 0) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(191, 149, 0); -webkit-box-  
shadow:4px 4px 4px 4px rgb(191, 149, 0);  
box-shadow:4px 4px 4px 4px rgb(191, 149,  
0) }
```

# Background

The CSS property to change the background color of an element to XYZ 32.2333, 32.5713, 4.5880 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(191, 149, 0) }
```

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

```
.background{ background-color: rgb(191,  
149, 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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