

# Converting Colors

XYZ(30.7918, 32.1503, 3.9197)

Have a look what the booklet for  
XYZ(30.7918, 32.1503, 3.9197)  
contains.

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# Color

**XYZ(30.9139, 32.1270,  
4.5718)**

# Conversions

## Conversions Part 1

Format	Color
Hex	B99600
RGB	185, 150, 0
RGB Percent	73%, 59%, 0%
CMY	0.2745, 0.4117, 0.9999
CMYK	0.00, 0.19, 1.00, 0.27
HSL	49°, 100%, 36%
HSV	49°, 100%, 73%
XYZ	30.9139, 32.1270, 4.5718
YIQ	143.3650, 69.0100, -39.2300

# Conversions

## Conversions Part 2

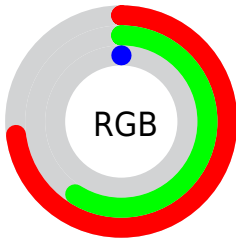
<b>Format</b>	<b>Color</b>
<b>RYB</b>	43, 185, 0
Decimal	12162560
CIELab	63.45, 1.41, 67.46
CIELCh	63, 67.479, 88.805
Yxy	32.1270, 0.4572, 0.4752
Android (android.graphics.Color)	4290352640 (0xFFB99600)
YUV	143.3650, -70.6789, 36.5139
Hunter-Lab	56.6807, -1.8365, 34.8942

# Details

The XYZ color **30.9139, 32.1270, 4.5718** is a dark color, and the websafe version is hex **CC9900**. A complement of this color would be **9.3582, 4.7053, 46.3134**, and the grayscale version is **26.5106, 27.8912, 30.3735**.

A 20% lighter version of the original color is **60.4517, 63.0792, 15.2927**, and **13.3096, 13.6264, 1.9287** is the 20% darker color. If you saturate the color by 10%, you get **30.9142, 32.1278, 4.5719**, and if you desaturate by 10%, it is **31.5948, 33.3076, 5.3583**.

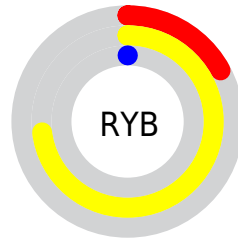
# Distribution



Red (73%)

Green (59%)

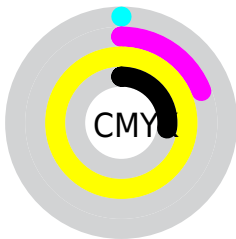
Blue (0%)



Red (17%)

Yellow (73%)

Blue (0%)

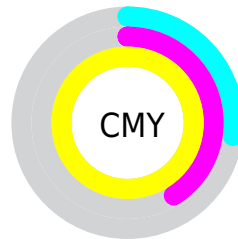


Cyan (0%)

Magenta (19%)

Yellow (100%)

Black (27%)



Cyan (27%)

Magenta (41%)


Yellow (100%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 30.9139, 32.1270, 4.5718 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 30.9139, 32.1270, 4.5718 by changing the saturation by 10% instead.





 30.9139, 32.1270,  
4.5718


 30.9139, 32.1270,  
4.5718


297.9754,  
311.6974, 154.3834


 20.6848, 21.4585,  
1.9440


 60.4813, 63.0101,  
15.3084


 13.0049, 13.4596,  
0.5205


 80.5502, 83.9936,  
24.2543

 7.5090, 7.7458,  
0.0000


 104.6298,  
109.1841, 36.1432

 3.8315, 3.9327,  
0.0000

 133.0855,  
138.9662, 51.3938

 1.6073, 1.6360,  
0.0000

 166.2825,  
173.7241, 70.4246


 0.3971, 0.3817,  
0.0000


 204.5863,


 0.0000, 0.0000,


213.8424, 93.6541


0.0000


 248.3621,  
259.7053, 121.5009


 30.9139, 32.1270,  
4.5718

 30.9139, 32.1270,  
4.5718


 30.9142, 32.1278,  
4.5719

 31.5948, 33.3076,  
5.3583

 32.3992, 34.5633,  
6.7151

 33.3677, 35.9117,  
8.8522

 34.5199, 37.3610,  
11.8728

 35.8727, 38.9181,  
15.8643

■ 37.4408, 40.5891,  
20.9036

■ 39.2373, 42.3795,  
27.0599

■ 41.2745, 44.2944,  
34.3963

■ 43.5635, 46.3384,  
42.9713

# Harmonies

## Analogous

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



40.8723, 32.1270, 6.7760



30.9139, 32.1270, 4.5718



22.6379, 32.1270, 6.4213

# Triad

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



30.9139, 32.1270, 4.5718



17.2920, 32.1270, 66.2701



48.7259, 32.1270, 69.1717

# Complementary

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



30.9139, 32.1270, 4.5718



9.3582, 4.7053, 46.3134

# 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.



40.0852, 32.1270, 102.6508



30.9139, 32.1270, 4.5718



22.1077, 32.1270, 100.4559

# Square

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



30.9139, 32.1270, 4.5718



15.8104, 32.1270, 33.9133



30.1607, 32.1270, 116.3029



52.3721, 32.1270, 36.0705



# Rectangle

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



30.9139, 32.1270, 4.5718



18.8672, 32.1270, 10.7841



30.1607, 32.1270, 116.3029



46.2323, 32.1270, 81.2729

# Sweetspot

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



30.9146, 32.1286, 4.5724



70.1044, 75.7375, 47.8672



20.3416, 10.4481, 2.6957



14.8139, 16.0336, 9.2805



88.6918, 93.3107, 101.6153



17.8044, 18.7317, 20.3988



# Same Dimension

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



30.9146, 32.1286, 4.5724



55.2045, 57.2150, 8.1340



26.4787, 39.4042, 6.2106



9.6019, 10.2067, 9.5709



21.1002, 21.9767, 3.1298



0.7816, 0.8502, 0.1229



# Inverse Universe

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



9.3582, 4.7053, 46.3134



16.6352, 8.1766, 82.9061



10.3606, 4.3297, 46.1881



8.6549, 8.9871, 11.3580



6.4126, 3.2848, 31.5491

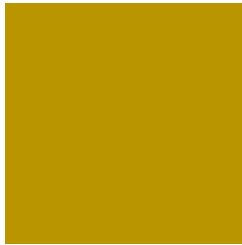


0.2678, 0.1993, 1.1261



# Previews

## White Background



This preview shows how the XYZ color 30.9139, 32.1270, 4.5718 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 30.9139, 32.1270, 4.5718 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 30.9139, 32.1270, 4.5718**

## **Background**



This preview shows how black text looks on a background with the XYZ color 30.9139, 32.1270, 4.5718.



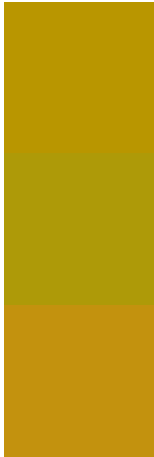
This preview shows how white text looks on a background with the XYZ color 30.9139, 32.1270,



# 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

30.9139, 32.1270, 4.5718

### Protanopia

29.0550, 32.1274, 4.8996

### Deuteranopia

32.8638, 32.1916, 4.8969



## Tritanopia

36.7300, 32.0047, 33.0958

# Trichromacy



## Original Color

30.9139, 32.1270, 4.5718

## Protanomaly

29.7787, 32.2584, 4.8006

## Deuteranomaly

31.9689, 31.9635, 4.7431

## Tritanomaly

33.1232, 31.4183, 15.1450

# Monochromacy



## Original Color

30.9139, 32.1270, 4.5718

## Achromatopsia

26.1081, 27.4677, 29.9124

## Achromatomaly

26.2678, 28.5822, 14.0300

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 30.9139, 32.1270, 4.5718 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(185, 150, 0)` looks like.

```
.text, #text, p{  
    color:rgb(185, 150, 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(185, 150, 0) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(185, 150, 0) }
```

## Border

The CSS property to change the border of an element to XYZ 30.9139, 32.1270, 4.5718 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(185, 150, 0) }
```



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

```
.border{ border-color:rgb(185, 150, 0) }
```

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

Here you see how a box with a 4 pixel rgb(185, 150, 0) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(185, 150, 0); -webkit-box-  
shadow:4px 4px 4px 4px rgb(185, 150, 0);  
box-shadow:4px 4px 4px 4px rgb(185, 150,  
0) }
```

# Background

The CSS property to change the background color of an element to XYZ 30.9139, 32.1270, 4.5718 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(185, 150, 0) }
```

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

```
.background{ background-color: rgb(185,  
150, 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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