

# Converting Colors

XYZ(29.6864, 32.8107, 4.7685)

Have a look what the booklet for  
XYZ(29.6864, 32.8107, 4.7685)  
contains.

<b>XYZ(29.6258, 32.6728, 4.7450)</b> .....	3
<b><i>Conversions</i></b> .....	4
<b><i>Details</i></b> .....	6
<b><i>Harmonies</i></b> .....	12
<b><i>Previews</i></b> .....	24
<b><i>Color Blindness Simulation</i></b> .....	28
<b><i>CSS Examples</i></b> .....	31

# Color

**XYZ(29.6258, 32.6728,  
4.7450)**

# Conversions

## Conversions Part 1

Format	Color
Hex	B09B00
RGB	176, 155, 0
RGB Percent	69%, 61%, 0%
CMY	0.3098, 0.3921, 1.0000
CMYK	0.00, 0.12, 1.00, 0.31
HSL	53°, 100%, 35%
HSV	53°, 100%, 69%
XYZ	29.6258, 32.6728, 4.7450
YIQ	143.6090, 62.2710, -43.7530

# Conversions

## Conversions Part 2

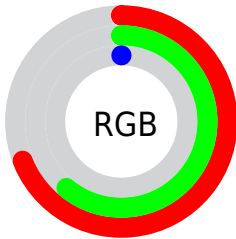
<b>Format</b>	<b>Color</b>
R <sub>Y</sub> B	24, 176, 0
Decimal	11574016
CIE Lab	63.90, -5.36, 67.37
CIE LCh	64, 67.582, 94.553
Yxy	32.6728, 0.4419, 0.4873
Android (android.graphics.Color)	4289764096 (0xFFB09B00)
YUV	143.6090, -70.7992, 28.4069
Hunter-Lab	57.1601, -7.5146, 35.0903

# Details

The XYZ color **29.6258, 32.6728, 4.7450** is a dark color, and the websafe version is hex **999900**. A complement of this color would be **8.1048, 3.6712, 41.3553**, and the grayscale version is **26.6113, 27.9971, 30.4889**.

A 20% lighter version of the original color is **58.2974, 63.7575, 15.7124**, and **12.5581, 13.8226, 2.0061** is the 20% darker color. If you saturate the color by 10%, you get **29.6262, 32.6739, 4.7452**, and if you desaturate by 10%, it is **30.0850, 33.4217, 5.4212**.

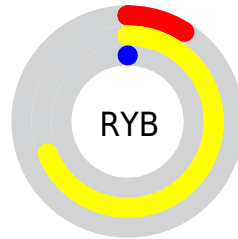
# Distribution



Red (69%)

Green (61%)

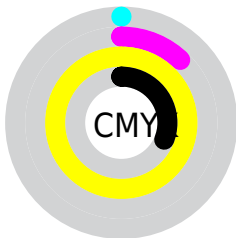
Blue (0%)



Red (9%)

Yellow (69%)

Blue (0%)

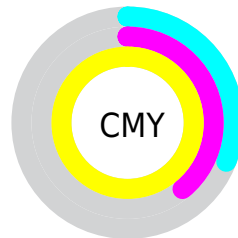


Cyan (0%)

Magenta (12%)

Yellow (100%)

Black (31%)



Cyan (31%)

Magenta (39%)

Yellow (100%)

# Brightness & Saturation Gradients

These gradients show how the XYZ color 29.6258, 32.6728, 4.7450 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 29.6258, 32.6728, 4.7450 by changing the saturation by 10% instead.



■ 29.6258, 32.6728,  
4.7450

■ 29.6258, 32.6728,  
4.7450

292.0975,  
314.1728, 156.1774

■ 19.7014, 21.8759,  
2.0423

■ 58.4606, 63.8644,  
15.6945

■ 12.2852, 13.7657,  
0.5811

■ 78.1017, 85.0278,  
24.7783

■ 7.0118, 7.9579,  
0.0000

■ 101.7124,  
110.4156, 36.8263

■ 3.5159, 4.0680,  
0.0000

■ 129.6581,  
140.4120, 52.2570

■ 1.4321, 1.7117,  
0.0000

■ 162.3041,  
175.4016, 71.4889

■ 0.2789, 0.4312,  
0.0000

■ 200.0157,

■ 0.0000, 0.0000,

215.7686, 94.9406

0.0000

243.1584,  
261.8976, 123.0306

29.6258, 32.6728,  
4.7450

29.6258, 32.6728,  
4.7450

29.6262, 32.6739,  
4.7452

30.0850, 33.4217,  
5.4212

30.6441, 34.2191,  
6.5965

31.3406, 35.0813,  
8.4651

32.1917, 36.0152,  
11.1177

33.2122, 37.0268,  
14.6315

■ 34.4150, 38.1212,  
19.0743

■ 35.8116, 39.3032,  
24.5072

■ 37.4128, 40.5770,  
30.9861

■ 39.2283, 41.9467,  
38.5627

# Harmonies

## Analogous

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



39.5915, 32.6728, 6.1471



29.6258, 32.6728, 4.7450



21.7964, 32.6728, 7.5288

# Triad

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



29.6258, 32.6728, 4.7450



18.2992, 32.6728, 74.3024



50.6621, 32.6728, 63.1500

# Complementary

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



29.6258, 32.6728, 4.7450



8.1048, 3.6712, 41.3553

# 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.



42.6209, 32.6728, 98.4728



29.6258, 32.6728, 4.7450



23.8425, 32.6728, 106.8957

# Square

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



29.6258, 32.6728, 4.7450



16.1621, 32.6728, 39.8952



32.5284, 32.6728, 117.4600



53.0777, 32.6728, 31.5787



# Rectangle

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



29.6258, 32.6728, 4.7450



18.4146, 32.6728, 13.0290



32.5284, 32.6728, 117.4600



48.4568, 32.6728, 75.4023

# Sweetspot

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



29.6265, 32.6744, 4.7456



64.8073, 71.1656, 43.8773



18.0639, 9.2941, 1.6778



13.8114, 15.2283, 8.5915



84.5950, 89.0005, 96.9216



16.2198, 17.0645, 18.5832



# Same Dimension

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



29.6265, 32.6744, 4.7456



53.6221, 59.0387, 8.5694



22.1401, 34.4605, 5.4850



9.1088, 9.7301, 9.0505



21.7657, 24.0300, 3.4911



0.7091, 0.8046, 0.1179



# Inverse Universe

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



8.1048, 3.6712, 41.3553



14.6134, 6.4864, 74.9771



9.9862, 4.2430, 41.3665



8.1209, 8.3881, 10.6974



5.9702, 2.7407, 30.3513

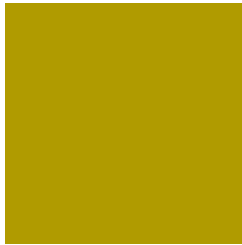


0.2139, 0.1384, 0.9637



# Previews

## White Background



This preview shows how the XYZ color 29.6258, 32.6728, 4.7450 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

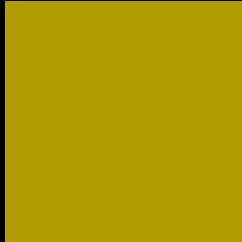
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 29.6258, 32.6728, 4.7450 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 29.6258, 32.6728, 4.7450**

## **Background**



This preview shows how black text looks on a background with the XYZ color 29.6258, 32.6728, 4.7450.



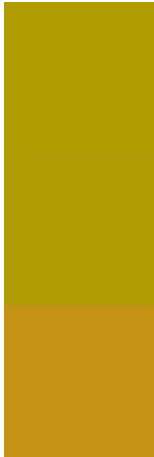
This preview shows how white text looks on a background with the XYZ color 29.6258, 32.6728,



# 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

29.6258, 32.6728, 4.7450

### Protanopia

29.4170, 32.5632, 4.8210

### Deuteranopia

33.3162, 32.6502, 5.1623



## Tritanopia

35.8972, 32.6274, 35.4161

# Trichromacy



## Original Color

29.6258, 32.6728, 4.7450

## Protanomaly

29.4115, 32.5610, 4.7922

## Deuteranomaly

31.9590, 32.6581, 4.9670

## Tritanomaly

32.1334, 32.0257, 16.2924

# Monochromacy



## Original Color

29.6258, 32.6728, 4.7450

## Achromatopsia

26.5089, 27.8894, 30.3716

## Achromatomaly

26.2320, 29.0204, 14.3441

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 29.6258, 32.6728, 4.7450 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(176, 155, 0)` looks like.

```
.text, #text, p{  
    color:rgb(176, 155, 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(176, 155, 0) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(176, 155, 0) }
```

## Border

The CSS property to change the border of an element to XYZ 29.6258, 32.6728, 4.7450 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(176, 155, 0) }
```



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

```
.border{ border-color:rgb(176, 155, 0) }
```

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

Here you see how a box with a 4 pixel `rgb(176, 155, 0)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(176, 155, 0); -webkit-box-  
shadow:4px 4px 4px 4px rgb(176, 155, 0);  
box-shadow:4px 4px 4px 4px rgb(176, 155,  
0) }
```

# Background

The CSS property to change the background color of an element to XYZ 29.6258, 32.6728, 4.7450 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(176, 155, 0) }
```

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

```
.background{ background-color: rgb(176,  
155, 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](#).

Hey! You found this booklet interesting? Support Converting Colors with the new Membership Option!

The pro membership hides all ads, plus gives you double the colors in the color bucket, and more awesome pro features!

**[Learn more, Memberships starting at \\$2.50/m!](#)**

**Follow me  
on Twitter!**

@ConvertingColor