

# Converting Colors

XYZ(28.9954, 32.2025, 7.6541)

Have a look what the booklet for  
XYZ(28.9954, 32.2025, 7.6541)  
contains.

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# Color

**XYZ(29.0917, 32.3309,  
7.7248)**

# Conversions

## Conversions Part 1

Format	Color
Hex	AB9B32
RGB	171, 155, 50
RGB Percent	67%, 61%, 20%
CMY	0.3294, 0.3921, 0.8039
CMYK	0.00, 0.09, 0.71, 0.33
HSL	52°, 55%, 43%
HSV	52°, 71%, 67%
XYZ	29.0917, 32.3309, 7.7248
YIQ	147.8140, 43.2410, -29.2630

# Conversions

## Conversions Part 2

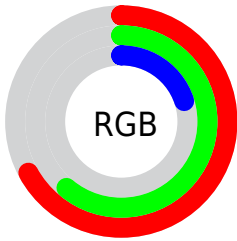
Format	Color
<a href="#">RYB</a>	<a href="#">68, 171, 50</a>
Decimal	<a href="#">11246386</a>
CIELab	<a href="#">63.62, -6.21, 54.47</a>
CIELCh	<a href="#">64, 54.825, 96.502</a>
Yxy	<a href="#">32.3309, 0.4207, 0.4676</a>
Android (android.graphics.Color)	<a href="#">4289436466</a> ( <a href="#">0xFFAB9B32</a> )
YUV	<a href="#">147.8140, -48.2223, 20.3341</a>
Hunter-Lab	<a href="#">56.8603, -8.1786, 31.7473</a>

# Details

The XYZ color **29.0917, 32.3309, 7.7248** is a dark color, and the websafe version is hex **999933**. A complement of this color would be **10.6144, 7.5147, 39.4190**, and the grayscale version is **28.2536, 29.7249, 32.3705**.

A 20% lighter version of the original color is **57.5617, 63.2382, 22.0043**, and **12.0205, 13.5455, 1.9810** is the 20% darker color. If you saturate the color by 10%, you get **28.4171, 31.4659, 6.0076**, and if you desaturate by 10%, it is **29.9126, 33.2681, 10.1713**.

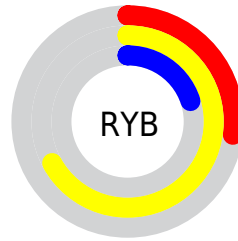
# Distribution



Red (67%)

Green (61%)

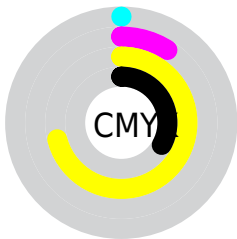
Blue (20%)



Red (27%)

Yellow (67%)

Blue (20%)

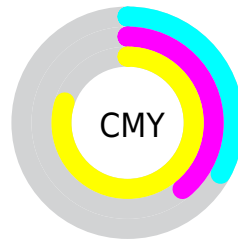


Cyan (0%)

Magenta (9%)

Yellow (71%)

Black (33%)



Cyan (33%)

Magenta (39%)


Yellow (80%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 29.0917, 32.3309, 7.7248 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 29.0917, 32.3309, 7.7248 by changing the saturation by 10% instead.




 29.0917, 32.3309,  
7.7248


 29.0917, 32.3309,  
7.7248


289.6338,  
312.6239, 183.4105

 19.2948, 21.6144,  
3.8341


 57.6193, 63.3295,  
21.9543


 11.9888, 13.5738,  
1.5348


 77.0807, 84.3803,  
33.1303


 6.8082, 7.8249,  
0.2436


 100.4944,  
109.6447, 47.5717

 3.3877, 3.9831,  
0.0000

 128.2257,  
139.5071, 65.6972

 1.3619, 1.6641,  
0.0000

 160.6399,  
174.3517, 87.9253

 0.2289, 0.4003,  
0.0000

 198.1024,

 0.0000, 0.0000,

214.5632, 114.6746

0.0000

240.9786,  
260.5258, 146.3634

■ 29.0917, 32.3309,  
7.7248

■ 29.0917, 32.3309,  
7.7248

■ 28.4171, 31.4659,  
6.0076

■ 29.9126, 33.2681,  
10.1713

■ 27.8703, 30.6620,  
4.9320

■ 30.8915, 34.2786,  
13.4176

■ 27.4464, 29.9616,  
4.3366

■ 32.0411, 35.3689,  
17.5281

■ 33.3724, 36.5432,  
22.5601

■ 34.8954, 37.8057,  
28.5660

■ 36.6193, 39.1601,  
35.5941

■ 38.5527, 40.6100,  
43.6898

■ 40.7038, 42.1586,  
52.8955

■ 43.0801, 43.8091,  
63.2514

# Harmonies

## Analogous

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



36.9839, 32.3309, 8.9591



29.0917, 32.3309, 7.7248



22.7747, 32.3309, 11.0175

# Triad

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



29.0917, 32.3309, 7.7248



20.3458, 32.3309, 66.7275



46.3120, 32.3309, 54.8412

# Complementary

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



29.0917, 32.3309, 7.7248



10.6144, 7.5147, 39.4190

# 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.



40.3497, 32.3309, 81.1596



29.0917, 32.3309, 7.7248



25.2233, 32.3309, 89.7843

# Square

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



29.0917, 32.3309, 7.7248



18.2960, 32.3309, 40.1987



32.4277, 32.3309, 95.9429



47.8087, 32.3309, 30.6391



# Rectangle

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



29.0917, 32.3309, 7.7248



20.0112, 32.3309, 16.6778



32.4277, 32.3309, 95.9429



44.7204, 32.3309, 63.9911

# Sweetspot

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



29.0924, 32.3324, 7.7255



62.3187, 67.5650, 50.4490



18.9227, 11.3344, 6.3658



13.7283, 14.9295, 10.5765



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.



29.0924, 32.3324, 7.7255



50.3051, 55.5141, 9.5232



23.8367, 33.8401, 8.2935



8.5710, 9.1469, 8.5271



20.7181, 22.6418, 3.2783



0.6009, 0.6789, 0.0994



# Inverse Universe

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



10.6144, 7.5147, 39.4190



15.3243, 8.6407, 69.8620



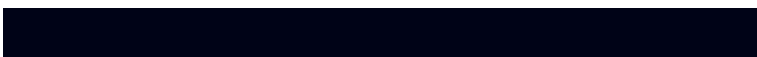
13.1454, 7.6210, 39.3061



7.6611, 7.9216, 10.0779



5.7895, 2.7129, 29.2630



0.1871, 0.1275, 0.8227



# Previews

## White Background



This preview shows how the XYZ color 29.0917, 32.3309, 7.7248 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 29.0917, 32.3309, 7.7248 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

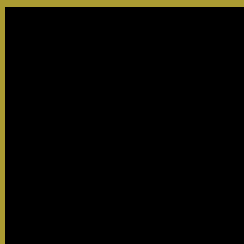
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

If you want to check with other color combinations, try the [Color Contrast Checker](#).

**XYZ 29.0917, 32.3309, 7.7248**

## **Background**



This preview shows how black text looks on a background with the XYZ color 29.0917, 32.3309, 7.7248.



This preview shows how white text looks on a background with the XYZ color 29.0917, 32.3309,



# 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

29.0917, 32.3309, 7.7248

### Protanopia

29.3649, 32.2257, 7.6901

### Deuteranopia

32.9138, 32.1523, 7.8394



## Tritanopia

34.9485, 32.3544, 35.8555

# Trichromacy



## Original Color

29.0917, 32.3309, 7.7248

## Protanomaly

29.1446, 32.1121, 7.6798

## Deuteranomaly

31.3749, 32.0571, 7.7828

## Tritanomaly

32.0898, 32.1264, 21.3393

# Monochromacy



## Original Color

29.0917, 32.3309, 7.7248

## Achromatopsia

28.1479, 29.6138, 32.2495

## Achromatomaly

27.7015, 30.3710, 19.7314

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 29.0917, 32.3309, 7.7248 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, 155, 50)` looks like.

```
.text, #text, p{  
    color:rgb(171, 155, 50)  
}
```

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, 155, 50) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(171, 155, 50) }
```

## Border

The CSS property to change the border of an element to XYZ 29.0917, 32.3309, 7.7248 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, 155, 50) }
```



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

```
.border{ border-color:rgb(171, 155, 50) }
```

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

Here you see how a box with a 4 pixel `rgb(171, 155, 50)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(171, 155, 50); -webkit-box-  
shadow:4px 4px 4px 4px rgb(171, 155, 50);  
box-shadow:4px 4px 4px 4px rgb(171, 155,  
50) }
```

# Background

The CSS property to change the background color of an element to XYZ 29.0917, 32.3309, 7.7248 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(171, 155, 50) }
```

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

```
.background{ background-color: rgb(171,  
155, 50) }
```

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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