

# Converting Colors

XYZ(28.3670, 30.2849, 29.4660)

Have a look what the booklet for  
XYZ(28.3670, 30.2849, 29.4660)  
contains.

<b>XYZ(28.2917, 30.2198, 29.5412)</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(28.2917, 30.2198,  
29.5412)**

# Conversions

## Conversions Part 1

Format	Color
Hex	96968D
RGB	150, 150, 141
RGB Percent	59%, 59%, 55%
CMY	0.4118, 0.4117, 0.4471
CMYK	0.00, 0.00, 0.06, 0.41
HSL	60°, 4%, 57%
HSV	60°, 6%, 59%
XYZ	28.2917, 30.2198, 29.5412
YIQ	148.9740, 2.8890, -2.7990

# Conversions

## Conversions Part 2

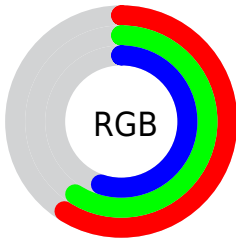
<b>Format</b>	<b>Color</b>
<b>RYB</b>	141, 150, 141
Decimal	9868941
CIELab	61.84, -1.69, 4.74
CIELCh	62, 5.029, 109.610
Yxy	30.2198, 0.3213, 0.3432
Android (android.graphics.Color)	4288059021 (0xFF96968D)
YUV	148.9740, -3.9312, 0.8998
Hunter-Lab	54.9725, -4.3366, 6.6195

# Details

The XYZ color **28.2917, 30.2198, 29.5412** is a dark color, and the websafe version is hex **999999**. A complement of this color would be **26.0157, 26.9154, 32.6798**, and the grayscale version is **28.5720, 30.0599, 32.7353**.

A 20% lighter version of the original color is **56.3450, 59.9632, 60.2341**, and **11.4958, 12.3317, 11.6719** is the 20% darker color. If you saturate the color by 10%, you get **27.2497, 29.8038, 24.0554**, and if you desaturate by 10%, it is **29.4866, 30.6989, 35.8246**.

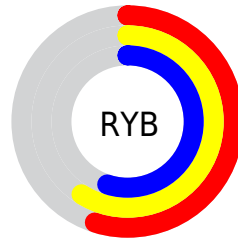
# Distribution



Red (59%)

Green (59%)

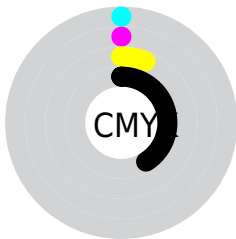
Blue (55%)



Red (55%)

Yellow (59%)

Blue (55%)

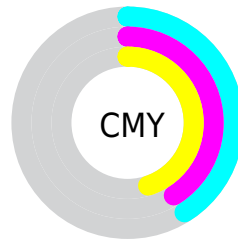


Cyan (0%)

Magenta (0%)

Yellow (6%)

Black (41%)



Cyan (41%)

Magenta (41%)

Yellow (45%)

# Brightness & Saturation Gradients

These gradients show how the XYZ color 28.2917, 30.2198, 29.5412 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 28.2917, 30.2198, 29.5412 by changing the saturation by 10% instead.



■ 28.2917, 30.2198,  
29.5412

■ 28.2917, 30.2198,  
29.5412

285.9130,  
302.9276, 313.9005

■ 18.6872, 20.0055,  
19.2415

■ 56.3552, 60.0096,  
59.9883

■ 11.5472, 12.3990,  
11.6663

■ 75.5450, 80.3539,  
80.9727

■ 6.5061, 7.0160,  
6.3971

■ 98.6605, 104.8436,  
106.3558

■ 3.1988, 3.4721,  
3.0154

126.0673,  
133.8632, 136.5562

■ 1.2597, 1.3829,  
1.1025

158.1305,  
167.7969, 171.9923

■ 0.1528, 0.2041,  
0.0000

195.2157,

■ 0.0000, 0.0000,

207.0294, 213.0826

0.0000

237.6881,  
251.9448, 260.2459

■ 28.2917, 30.2198,  
29.5412

■ 28.2917, 30.2198,  
29.5412

■ 27.2497, 29.8038,  
24.0554

■ 29.4866, 30.6989,  
35.8246

■ 26.3520, 29.4447,  
19.3335

■ 30.8376, 31.2394,  
42.9335

■ 25.5930, 29.1410,  
15.3422

■ 32.3509, 31.8448,  
50.8973

■ 24.9659, 28.8900,  
12.0450

■ 34.0317, 32.5172,  
59.7428

■ 24.4630, 28.6887,  
9.4023

■ 35.8848, 33.2586,  
69.4961

■ 24.0762, 28.5339,  
7.3705

■ 37.9151, 34.0708,  
80.1819

■ 23.7961, 28.4217,  
5.9007

■ 40.1269, 34.9557,  
91.8241

■ 23.6120, 28.3480,  
4.9366

■ 41.5428, 35.5222,  
99.2747

■ 23.5085, 28.3065,  
4.3969

■ 41.5438, 35.5227,  
99.2747

# Harmonies

## Analogous

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



28.9566, 30.2198, 29.3982



28.2917, 30.2198, 29.5412



27.7504, 30.2198, 30.5650

# Triad

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



28.2917, 30.2198, 29.5412



27.8942, 30.2198, 35.8029



30.0123, 30.2198, 33.5759

# Complementary

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



28.2917, 30.2198, 29.5412



26.0157, 26.9154, 32.6798

# 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.



29.7181, 30.2198, 35.3599



28.2917, 30.2198, 29.5412



28.4907, 30.2198, 36.6785

# Square

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



28.2917, 30.2198, 29.5412



27.5234, 30.2198, 34.1614



29.1587, 30.2198, 36.5133



29.9570, 30.2198, 31.6783



# Rectangle

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



28.2917, 30.2198, 29.5412



27.5292, 30.2198, 31.6322



29.1587, 30.2198, 36.5133



29.9508, 30.2198, 34.2099

# Sweetspot

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



28.2925, 30.2211, 29.5419



50.7297, 53.6517, 56.3537



26.9112, 27.4576, 29.0812



11.2483, 11.8923, 12.5200



71.1368, 74.8414, 81.5023



11.3376, 11.9280, 12.9896



# Same Dimension

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



28.2925, 30.2211, 29.5419



49.7049, 53.2417, 50.9620



27.4806, 29.8025, 29.5039



6.3099, 6.7624, 6.4470



19.4689, 23.4644, 3.5030



0.2383, 0.2872, 0.0429



# Inverse Universe

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



26.0157, 26.9154, 32.6798



44.9618, 46.3551, 57.4989



26.7962, 27.3177, 32.7163



5.6899, 5.8623, 7.3014



4.5664, 1.8266, 24.0429



0.0559, 0.0224, 0.2943



# Previews

## White Background



This preview shows how the XYZ color 28.2917, 30.2198, 29.5412 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 28.2917, 30.2198, 29.5412 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

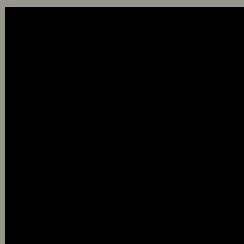
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**XYZ 28.2917, 30.2198, 29.5412**

## **Background**



This preview shows how black text looks on a background with the XYZ color 28.2917, 30.2198, 29.5412.



This preview shows how white text looks on a background with the XYZ color 28.2917, 30.2198,



# 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

28.2917, 30.2198, 29.5412

### Protanopia

28.8075, 30.2584, 29.1331

### Deuteranopia

30.5816, 30.0065, 29.7712



## Tritanopia

29.8286, 30.1429, 37.0469

# Trichromacy



## Original Color

28.2917, 30.2198, 29.5412

## Protanomaly

28.6179, 30.1606, 29.1242

## Deuteranomaly

29.6586, 29.9843, 29.8156

## Tritanomaly

29.2063, 30.1222, 33.9806

# Monochromacy



## Original Color

28.2917, 30.2198, 29.5412

## Achromatopsia

28.5667, 30.0544, 32.7292

## Achromatomaly

28.3302, 29.9598, 31.4838

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 28.2917, 30.2198, 29.5412 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(150, 150, 141)` looks like.

```
.text, #text, p{  
    color:rgb(150, 150, 141)  
}
```

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(150, 150, 141) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(150, 150, 141) }
```

## Border

The CSS property to change the border of an element to XYZ 28.2917, 30.2198, 29.5412 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(150, 150, 141) }
```



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

```
.border{ border-color:rgb(150, 150, 141) }
```

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

Here you see how a box with a 4 pixel `rgb(150, 150, 141)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(150, 150, 141); -webkit-box-  
shadow:4px 4px 4px 4px rgb(150, 150, 141);  
box-shadow:4px 4px 4px 4px rgb(150, 150,  
141) }
```

# Background

The CSS property to change the background color of an element to XYZ 28.2917, 30.2198, 29.5412 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(150, 150, 141) }
```

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

```
.background{ background-color: rgb(150,  
150, 141) }
```

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