

# Converting Colors

XYZ(28.6357, 27.5911, 11.7593)

Have a look what the booklet for  
XYZ(28.6357, 27.5911, 11.7593)  
contains.

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# Color

**XYZ(28.6872, 27.6825,  
11.8139)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	B28852
RGB	178, 136, 82
RGB Percent	70%, 53%, 32%
CMY	0.3020, 0.4666, 0.6784
CMYK	0.00, 0.24, 0.54, 0.30
HSL	34°, 38%, 51%
HSV	34°, 54%, 70%
XYZ	28.6872, 27.6825, 11.8139
YIQ	142.4020, 42.3660, -7.8900

# Conversions

## Conversions Part 2

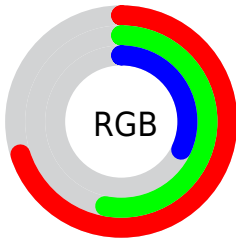
<b>Format</b>	<b>Color</b>
<b>RYB</b>	157, 178, 82
Decimal	11700306
CIELab	59.60, 9.53, 34.96
CIELCh	60, 36.230, 74.755
Yxy	27.6825, 0.4207, 0.4060
Android (android.graphics.Color)	4289890386 (0xFFB28852)
YUV	142.4020, -29.7782, 31.2194
Hunter-Lab	52.6142, 5.2501, 23.5170

# Details

The XYZ color **28.6872, 27.6825, 11.8139** is a dark color, and the websafe version is hex **CC9966**. A complement of this color would be **18.7228, 19.4225, 44.8813**, and the grayscale version is **25.9738, 27.3264, 29.7585**.

A 20% lighter version of the original color is **57.0233, 55.9215, 29.9788**, and **11.7995, 10.9879, 3.0891** is the 20% darker color. If you saturate the color by 10%, you get **27.0388, 25.3327, 8.3452**, and if you desaturate by 10%, it is **30.5923, 30.2646, 16.2355**.

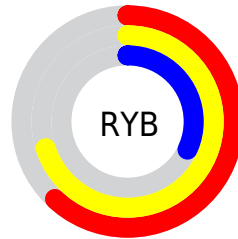
# Distribution



Red (70%)

Green (53%)

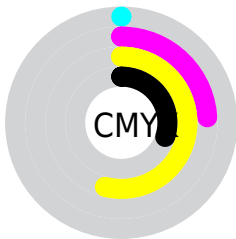
Blue (32%)



Red (62%)

Yellow (70%)

Blue (32%)

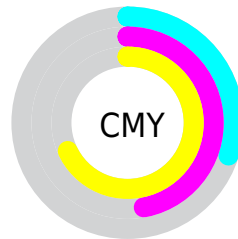


Cyan (0%)

Magenta (24%)

Yellow (54%)

Black (30%)



Cyan (30%)

Magenta (47%)


Yellow (68%)

# Brightness & Saturation Gradients

These gradients show how the XYZ color 28.6872, 27.6825, 11.8139 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 28.6872, 27.6825, 11.8139 by changing the saturation by 10% instead.





 28.6872, 27.6825,  
11.8139


 28.6872, 27.6825,  
11.8139


287.7571,  
290.9467, 214.1033


 18.9874, 18.0865,  
6.4961


 56.9807, 55.9771,  
29.8150


 11.7651, 11.0121,  
3.0754


 76.3052, 75.4445,  
43.3354


 6.6550, 6.0750,  
1.1333


 99.5686, 98.9712,  
60.4271

 3.2917, 2.8907,  
0.0000

 127.1363,  
126.9414, 81.5085

 1.3098, 1.0749,  
0.0000

 159.3736,  
159.7397, 106.9984

 0.1906, 0.0000,  
0.0000

196.6460,

 0.0000, 0.0000,

197.7504, 137.3151

0.0000

239.3187,  
241.3579, 172.8772

■ 28.6872, 27.6825,  
11.8139

■ 28.6872, 27.6825,  
11.8139

■ 27.0388, 25.3327,  
8.3452

■ 30.5923, 30.2646,  
16.2355

■ 25.6296, 23.2024,  
5.7541

■ 32.7662, 33.0832,  
21.6743

■ 24.4424, 21.2829,  
3.9565

■ 35.2224, 36.1474,  
28.1908

■ 23.4564, 19.5630,  
2.8504

■ 37.9728, 39.4644,  
35.8402

■ 22.9299, 18.6048,  
2.3826

■ 41.0287, 43.0411,  
44.6740

■ 44.4004, 46.8839,  
54.7404

■ 48.0981, 50.9992,  
66.0849

■ 52.1312, 55.3930,  
78.7508

■ 56.5088, 60.0711,  
92.7793

# Harmonies

## Analogous

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



33.0485, 27.6825, 15.6827



28.6872, 27.6825, 11.8139



24.1390, 27.6825, 11.7841

# Triad

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



28.6872, 27.6825, 11.8139



18.7045, 27.6825, 37.0064



32.9866, 27.6825, 51.7445

# Complementary

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



28.6872, 27.6825, 11.8139



18.7228, 19.4225, 44.8813

# 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.



28.6103, 27.6825, 61.5648



28.6872, 27.6825, 11.8139



20.5584, 27.6825, 51.5265

# Square

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



28.6872, 27.6825, 11.8139



18.7200, 27.6825, 24.0038



24.0705, 27.6825, 61.4751



35.7193, 27.6825, 37.2454



# Rectangle

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



28.6872, 27.6825, 11.8139



21.6189, 27.6825, 13.8484



24.0705, 27.6825, 61.4751



31.6380, 27.6825, 55.8663

# Sweetspot

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



28.6879, 27.6838, 11.8144



67.6432, 70.1143, 61.5518



25.0919, 16.9855, 21.4253



14.7579, 15.2597, 12.9972



86.6293, 91.1408, 99.2523



17.0014, 17.8868, 19.4787



# Same Dimension

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



28.6879, 27.6838, 11.8144



48.4369, 45.0587, 13.9717



34.7211, 41.3568, 14.1356



8.8797, 9.2718, 8.9742



16.4702, 13.4390, 1.7259



0.5751, 0.5365, 0.0732



# Inverse Universe

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



18.7228, 19.4225, 44.8813



28.4494, 28.5175, 80.3862



14.9652, 11.2658, 43.5049



8.3376, 8.8214, 10.7696



7.7528, 6.3059, 30.9455

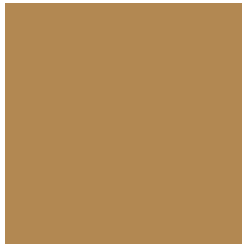


0.3024, 0.3153, 0.9932



# Previews

## White Background



This preview shows how the XYZ color 28.6872, 27.6825, 11.8139 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

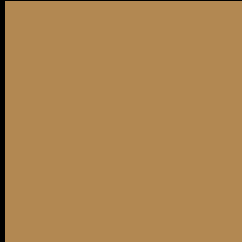
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 28.6872, 27.6825, 11.8139 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

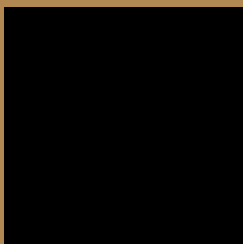
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA × Fail

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

**XYZ 28.6872, 27.6825, 11.8139**

## **Background**



This preview shows how black text looks on a background with the XYZ color 28.6872, 27.6825, 11.8139.



This preview shows how white text looks on a background with the XYZ color 28.6872, 27.6825,



# 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

28.6872, 27.6825, 11.8139

### Protanopia

25.5176, 27.7705, 12.6097

### Deuteranopia

28.1478, 27.6145, 11.8292



## Tritanopia

32.0389, 27.6319, 28.0709

# Trichromacy



## Original Color

28.6872, 27.6825, 11.8139

## Protanomaly

26.6422, 27.6892, 12.3279

## Deuteranomaly

28.3731, 27.7306, 11.8398

## Tritanomaly

30.5773, 27.6343, 20.8619

# Monochromacy



## Original Color

28.6872, 27.6825, 11.8139

## Achromatopsia

25.7108, 27.0498, 29.4572

## Achromatomaly

26.2858, 27.0808, 21.6110

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 28.6872, 27.6825, 11.8139 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(178, 136, 82)` looks like.

```
.text, #text, p{  
    color:rgb(178, 136, 82)  
}
```

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(178, 136, 82) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(178, 136, 82) }
```

## Border

The CSS property to change the border of an element to XYZ 28.6872, 27.6825, 11.8139 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(178, 136, 82) }
```



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

```
.border{ border-color:rgb(178, 136, 82) }
```

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

Here you see how a box with a 4 pixel `rgb(178, 136, 82)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(178, 136, 82); -webkit-box-  
shadow:4px 4px 4px 4px rgb(178, 136, 82);  
box-shadow:4px 4px 4px 4px rgb(178, 136,  
82) }
```

# Background

The CSS property to change the background color of an element to XYZ 28.6872, 27.6825, 11.8139 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(178, 136, 82) }
```

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

```
.background{ background-color: rgb(178,  
136, 82) }
```

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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