

# Converting Colors

XYZ(28.4213, 28.7980, 9.8587)

Have a look what the booklet for  
XYZ(28.4213, 28.7980, 9.8587)  
contains.

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# Color

**XYZ(28.4577, 28.9022,  
9.8731)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	AF8E46
RGB	175, 142, 70
RGB Percent	69%, 56%, 27%
CMY	0.3137, 0.4431, 0.7255
CMYK	0.00, 0.19, 0.60, 0.31
HSL	41°, 43%, 48%
HSV	41°, 60%, 69%
XYZ	28.4577, 28.9022, 9.8731
YIQ	143.6590, 42.7800, -15.3960

# Conversions

## Conversions Part 2

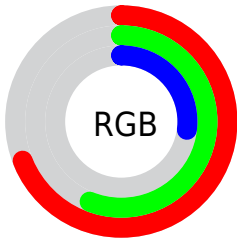
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	118, 175, 70
Decimal	11505222
CIE <sub>Lab</sub>	60.70, 3.91, 42.38
CIE <sub>LCh</sub>	61, 42.561, 84.725
Yxy	28.9022, 0.4233, 0.4299
Android (android.graphics.Color)	4289695302 (0xFFAF8E46)
YUV	143.6590, -36.3139, 27.4861
Hunter-Lab	53.7608, 0.4058, 26.7440

# Details

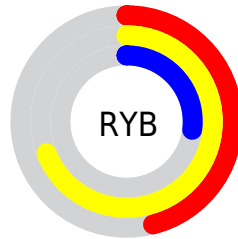
The XYZ color **28.4577, 28.9022, 9.8731** is a dark color, and the websafe version is hex **CC9966**. A complement of this color would be **15.1136, 14.0971, 42.4817**, and the grayscale version is **26.5020, 27.8822, 30.3637**.

A 20% lighter version of the original color is **56.5706, 57.7343, 26.2514**, and **11.6991, 11.6979, 2.3031** is the 20% darker color. If you saturate the color by 10%, you get **27.1859, 27.1175, 7.1097**, and if you desaturate by 10%, it is **29.9323, 30.8348, 13.4988**.

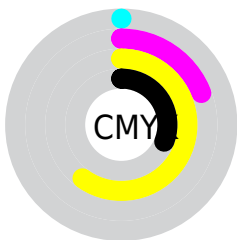
# Distribution



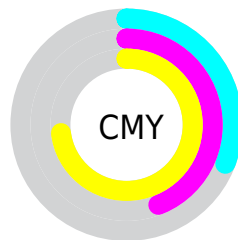
- Red (69%)
- Green (56%)
- Blue (27%)



- Red (46%)
- Yellow (69%)
- Blue (27%)



- Cyan (0%)
- Magenta (19%)
- Yellow (60%)
- Black (31%)



- Cyan (31%)
- Magenta (44%)
- Yellow (73%)

# Brightness & Saturation Gradients

These gradients show how the XYZ color 28.4577, 28.9022, 9.8731 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 28.4577, 28.9022, 9.8731 by changing the saturation by 10% instead.





 28.4577, 28.9022,  
9.8731


 28.4577, 28.9022,  
9.8731

286.6881,  
296.7532, 200.2158


 18.8132, 19.0068,  
5.2104


 56.6179, 57.9217,  
26.1606


 11.6386, 11.6752,  
2.3103


 75.8643, 77.8146,  
38.6225

 6.5685, 6.5229,  
0.7370


 99.0420, 101.8088,  
54.5212

 3.2377, 3.1656,  
0.0000

 126.5164,  
130.2887, 74.2752

 1.2807, 1.2188,  
0.0000

 158.6529,  
163.6387, 98.3032

 0.1687, 0.0770,  
0.0000

195.8168,

 0.0000, 0.0000,

202.2432, 127.0236

0.0000

238.3734,  
246.4866, 160.8549

■ 28.4577, 28.9022,  
9.8731

■ 28.4577, 28.9022,  
9.8731

■ 27.1859, 27.1175,  
7.1097

■ 29.9323, 30.8348,  
13.4988

■ 26.0997, 25.4696,  
5.1308

■ 31.6208, 32.9174,  
18.0522

■ 25.1823, 23.9520,  
3.8471

■ 33.5359, 35.1570,  
23.5942

■ 24.3966, 22.5488,  
3.0666

■ 35.6886, 37.5590,  
30.1802

■ 24.3965, 22.5486,  
3.0665

■ 38.0892, 40.1281,  
37.8612

■ 40.7471, 42.8691,  
46.6852

■ 43.6715, 45.7865,  
56.6969

■ 46.8708, 48.8844,  
67.9390

■ 50.3531, 52.1668,  
80.4517

# Harmonies

## Analogous

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



34.0650, 28.9022, 12.6096



28.4577, 28.9022, 9.8731



23.2675, 28.9022, 11.1514

# Triad

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



28.4577, 28.9022, 9.8731



18.9162, 28.9022, 45.9673



37.0751, 28.9022, 52.4820

# Complementary

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



28.4577, 28.9022, 9.8731



15.1136, 14.0971, 42.4817

# 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.



32.1519, 28.9022, 67.9267



28.4577, 28.9022, 9.8731



21.7875, 28.9022, 63.3669

# Square

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



28.4577, 28.9022, 9.8731



18.2020, 28.9022, 28.7579



26.5067, 28.9022, 72.4618



39.4484, 28.9022, 34.3466



# Rectangle

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



28.4577, 28.9022, 9.8731



20.6602, 28.9022, 14.4408



26.5067, 28.9022, 72.4618



35.6341, 28.9022, 58.3728

# Sweetspot

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



28.4584, 28.9036, 9.8737



64.6114, 68.0225, 56.2338



22.3302, 14.4788, 14.5159



14.1005, 14.8350, 11.6830



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.



28.4584, 28.9036, 9.8737



48.0227, 47.5825, 11.4363



30.0974, 38.1450, 11.5711



8.4472, 8.8992, 8.4859



17.5281, 16.2616, 2.2150



0.5336, 0.5444, 0.0770



# Inverse Universe

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



15.1136, 14.0971, 42.4817



22.0619, 18.8555, 75.1136



14.0721, 9.6120, 41.6709



7.7766, 8.1526, 10.1164



6.5690, 4.2718, 29.5228



0.2324, 0.2182, 0.8379



# Previews

## White Background



This preview shows how the XYZ color 28.4577, 28.9022, 9.8731 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 28.4577, 28.9022, 9.8731 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

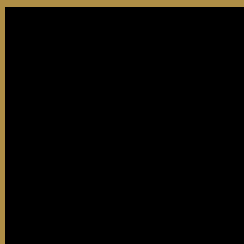
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA × Fail

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

**XYZ 28.4577, 28.9022, 9.8731**

## **Background**



This preview shows how black text looks on a background with the XYZ color 28.4577, 28.9022, 9.8731.



This preview shows how white text looks on a background with the XYZ color 28.4577, 28.9022,



# 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

28.4577, 28.9022, 9.8731

### Protanopia

26.5037, 29.0167, 10.3348

### Deuteranopia

29.5715, 29.0349, 10.0069



## Tritanopia

32.6152, 28.8876, 30.2424

# Trichromacy



## Original Color

28.4577, 28.9022, 9.8731

## Protanomaly

27.1991, 28.9212, 10.1100

## Deuteranomaly

29.2526, 29.0884, 10.0341

## Tritanomaly

30.7470, 28.7594, 20.7602

# Monochromacy



## Original Color

28.4577, 28.9022, 9.8731

## Achromatopsia

26.5089, 27.8894, 30.3716

## Achromatomaly

26.5509, 27.8978, 20.8151

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 28.4577, 28.9022, 9.8731 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(175, 142, 70)` looks like.

```
.text, #text, p{  
    color:rgb(175, 142, 70)  
}
```

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(175, 142, 70) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(175, 142, 70) }
```

## Border

The CSS property to change the border of an element to XYZ 28.4577, 28.9022, 9.8731 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(175, 142, 70) }
```



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

```
.border{ border-color:rgb(175, 142, 70) }
```

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

Here you see how a box with a 4 pixel rgb(175, 142, 70) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(175, 142, 70); -webkit-box-  
shadow:4px 4px 4px 4px rgb(175, 142, 70);  
box-shadow:4px 4px 4px 4px rgb(175, 142,  
70) }
```

# Background

The CSS property to change the background color of an element to XYZ 28.4577, 28.9022, 9.8731 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(175, 142, 70) }
```

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

```
.background{ background-color: rgb(175,  
142, 70) }
```

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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