

# Converting Colors

XYZ(27.8113, 24.3593, 3.2360)

Have a look what the booklet for  
XYZ(27.8113, 24.3593, 3.2360)  
contains.

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# Color

**XYZ(27.7027, 24.2518,  
3.2210)**

# Conversions

## Conversions Part 1

Format	Color
Hex	BD7800
RGB	189, 120, 0
RGB Percent	74%, 47%, 0%
CMY	0.2588, 0.5294, 1.0000
CMYK	0.00, 0.37, 1.00, 0.26
HSL	38°, 100%, 37%
HSV	38°, 100%, 74%
XYZ	27.7027, 24.2518, 3.2210
YIQ	126.9510, 79.6440, -22.6920

# Conversions

## Conversions Part 2

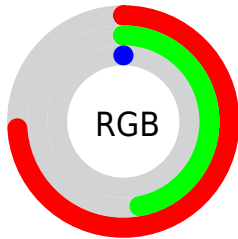
<b>Format</b>	<b>Color</b>
<b>RYB</b>	109, 189, 0
Decimal	12417024
CIELab	56.34, 19.70, 62.87
CIELCh	56, 65.883, 72.597
Yxy	24.2518, 0.5021, 0.4395
Android (android.graphics.Color)	4290607104 (0xFFBD7800)
YUV	126.9510, -62.5868, 54.4170
Hunter-Lab	49.2461, 14.2319, 30.5943

# Details

The XYZ color **27.7027, 24.2518, 3.2210** is a dark color, and the websafe version is hex **996600**. A complement of this color would be **11.3136, 7.9306, 49.0780**, and the grayscale version is **20.3460, 21.4056, 23.3107**.

A 20% lighter version of the original color is **55.1900, 50.2343, 12.0975**, and **11.4592, 9.2523, 1.1819** is the 20% darker color. If you saturate the color by 10%, you get **27.7028, 24.2523, 3.2211**, and if you desaturate by 10%, it is **28.6799, 26.0197, 4.1227**.

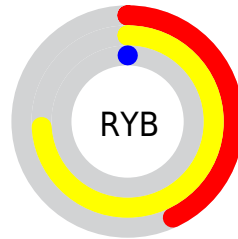
# Distribution



Red (74%)

Green (47%)

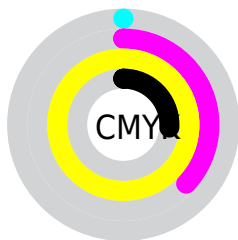
Blue (0%)



Red (43%)

Yellow (74%)

Blue (0%)

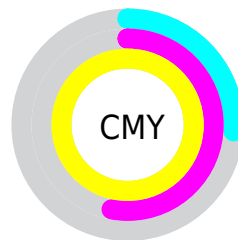


Cyan (0%)

Magenta (37%)

Yellow (100%)

Black (26%)



Cyan (26%)

Magenta (53%)


Yellow (100%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 27.7027, 24.2518, 3.2210 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 27.7027, 24.2518, 3.2210 by changing the saturation by 10% instead.





 27.7027, 24.2518,  
3.2210


 27.7027, 24.2518,  
3.2210


283.1495,  
274.0910, 139.1274


 18.2410, 15.5205,  
1.2086


 55.4214, 50.4408,  
12.1691

 11.2239, 9.1855,  
0.0000


 74.4091, 68.6673,  
19.9418


 6.2860, 4.8624,  
0.0000


 97.3028, 90.8276,  
30.4716

 3.0621, 2.1667,  
0.0000

 124.4680,  
117.3062, 44.1772

 1.1867, 0.7018,  
0.0000

 156.2698,  
148.4875, 61.4771


 0.0958, 0.0000,  
0.0000


 193.0738,


 0.0000, 0.0000,


184.7558, 82.7897


0.0000


 235.2452,  
226.4955, 108.5336


 27.7027, 24.2518,  
3.2210


 27.7027, 24.2518,  
3.2210

 27.7028, 24.2523,  
3.2211

 28.6799, 26.0197,  
4.1227

 29.8310, 27.9538,  
5.6409

 31.1987, 30.0740,  
7.9934

 32.8049, 32.3910,  
11.2894

 34.6683, 34.9139,  
15.6215

■ 36.8052, 37.6512,  
21.0711

■ 39.2307, 40.6105,  
27.7115

■ 41.9583, 43.7988,  
35.6094

■ 45.0009, 47.2230,  
44.8269

# Harmonies

## Analogous

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



35.5663, 24.2518, 7.0025



27.7027, 24.2518, 3.2210



20.0085, 24.2518, 3.0028

# Triad

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



27.7027, 24.2518, 3.2210



11.5292, 24.2518, 36.6244



34.4220, 24.2518, 70.7413

# Complementary

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



27.7027, 24.2518, 3.2210



11.3136, 7.9306, 49.0780

# 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.



26.3864, 24.2518, 91.9162



27.7027, 24.2518, 3.2210



13.8809, 24.2518, 66.0627

# Square

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



27.7027, 24.2518, 3.2210



11.7302, 24.2518, 15.7636



18.9509, 24.2518, 89.8462



39.9934, 24.2518, 41.0032



# Rectangle

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



27.7027, 24.2518, 3.2210



16.0410, 24.2518, 4.5135



18.9509, 24.2518, 89.8462



31.8523, 24.2518, 79.6774

# Sweetspot

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



27.7032, 24.2531, 3.2214



70.0403, 72.4681, 49.0045



22.0698, 11.2524, 6.6887



14.6565, 15.0946, 9.4121



90.7827, 95.5105, 104.0109



18.6292, 19.5994, 21.3438



# Same Dimension

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



27.7032, 24.2531, 3.2214



49.3800, 42.9635, 5.6902



33.4661, 44.2660, 6.7806



10.0214, 10.5188, 10.0788



18.7143, 16.4674, 2.1922



0.7933, 0.7655, 0.1060



# Inverse Universe

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



11.3136, 7.9306, 49.0780



20.0539, 13.7864, 87.8303



9.5913, 3.8836, 48.3876



9.2940, 9.7804, 12.0702



7.6790, 5.4697, 33.0439

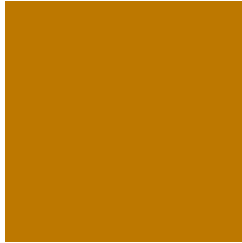


0.3637, 0.3401, 1.3153



# Previews

## White Background



This preview shows how the XYZ color 27.7027, 24.2518, 3.2210 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

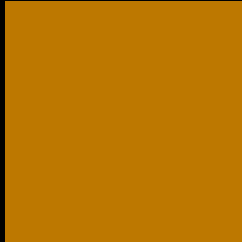
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 27.7027, 24.2518, 3.2210 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 27.7027, 24.2518, 3.2210**

## **Background**



This preview shows how black text looks on a background with the XYZ color 27.7027, 24.2518, 3.2210.



This preview shows how white text looks on a background with the XYZ color 27.7027, 24.2518,



# 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

27.7027, 24.2518, 3.2210

### Protanopia

22.0137, 24.4097, 3.9321

### Deuteranopia

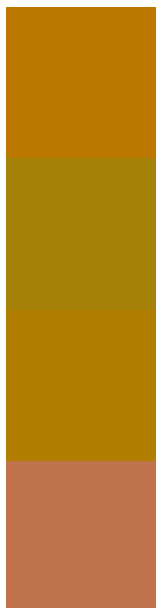
24.6448, 24.3584, 3.4027



## Tritanopia

31.4325, 24.4137, 20.8249

# Trichromacy



## Original Color

27.7027, 24.2518, 3.2210

## Protanomaly

23.7523, 24.0898, 3.6276

## Deuteranomaly

25.8210, 24.3867, 3.3462

## Tritanomaly

29.1735, 23.9897, 9.9303

# Monochromacy



## Original Color

27.7027, 24.2518, 3.2210

## Achromatopsia

20.1725, 21.2231, 23.1119

## Achromatomaly

21.2705, 21.4934, 10.8121

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 27.7027, 24.2518, 3.2210 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(189, 120, 0)` looks like.

```
.text, #text, p{  
    color:rgb(189, 120, 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(189, 120, 0) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(189, 120, 0) }
```

## Border

The CSS property to change the border of an element to XYZ 27.7027, 24.2518, 3.2210 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(189, 120, 0) }
```



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

```
.border{ border-color:rgb(189, 120, 0) }
```

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

Here you see how a box with a 4 pixel `rgb(189, 120, 0)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(189, 120, 0); -webkit-box-  
shadow:4px 4px 4px 4px rgb(189, 120, 0);  
box-shadow:4px 4px 4px 4px rgb(189, 120,  
0) }
```

# Background

The CSS property to change the background color of an element to XYZ 27.7027, 24.2518, 3.2210 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(189, 120, 0) }
```

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

```
.background{ background-color: rgb(189,  
120, 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](#).

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