

# Converting Colors

XYZ(27.3176, 22.2382, 1.8016)

Have a look what the booklet for  
XYZ(27.3176, 22.2382, 1.8016)  
contains.

<b>XYZ(27.4610, 22.2747, 2.8521)</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(27.4610, 22.2747,  
2.8521)**

# Conversions

## Conversions Part 1

Format	Color
Hex	C16D00
RGB	193, 109, 0
RGB Percent	76%, 43%, 0%
CMY	0.2431, 0.5725, 1.0000
CMYK	0.00, 0.44, 1.00, 0.24
HSL	34°, 100%, 38%
HSV	34°, 100%, 76%
XYZ	27.4610, 22.2747, 2.8521
YIQ	121.6900, 85.0530, -16.0910

# Conversions

## Conversions Part 2

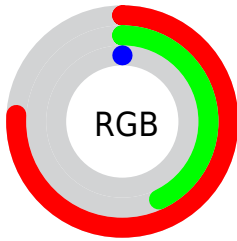
<b>Format</b>	<b>Color</b>
<b>RYB</b>	149, 193, 0
Decimal	12676352
CIELab	54.32, 27.45, 61.84
CIELCh	54, 67.659, 66.062
Yxy	22.2747, 0.5222, 0.4236
Android (android.graphics.Color)	4290866432 (0xFFC16D00)
YUV	121.6900, -59.9932, 62.5389
Hunter-Lab	47.1961, 21.2669, 29.4543

# Details

The XYZ color **27.4610, 22.2747, 2.8521** is a dark color, and the websafe version is hex **CC6600**. The color can be described as dark washed orange. A complement of this color would be **12.7961, 10.1911, 51.7445**, and the grayscale version is **18.5683, 19.5353, 21.2740**.

A 20% lighter version of the original color is **54.9390, 47.1314, 11.2027**, and **11.2887, 8.2183, 0.9913** is the 20% darker color. If you saturate the color by 10%, you get **27.4611, 22.2752, 2.8522**, and if you desaturate by 10%, it is **28.5210, 24.2027, 3.7983**.

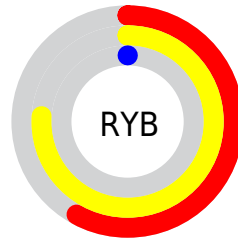
# Distribution



Red (76%)

Green (43%)

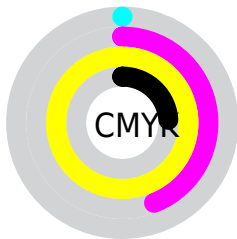
Blue (0%)



Red (58%)

Yellow (76%)

Blue (0%)

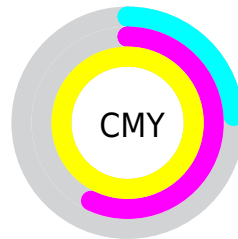


Cyan (0%)

Magenta (44%)

Yellow (100%)

Black (24%)



Cyan (24%)

Magenta (57%)

Yellow (100%)

# Brightness & Saturation Gradients

These gradients show how the XYZ color 27.4610, 22.2747, 2.8521 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 27.4610, 22.2747, 2.8521 by changing the saturation by 10% instead.



■ 27.4610, 22.2747,  
2.8521

■ 27.4610, 22.2747,  
2.8521

282.0093,  
263.9775, 134.4540

■ 18.0581, 14.0589,  
1.0196

■ 55.0374, 47.1996,  
11.2613

■ 11.0917, 8.1616,  
0.0000

■ 73.9417, 64.6775,  
18.6750

■ 6.1963, 4.1985,  
0.0000

■ 96.7438, 86.0115,  
28.7863

■ 3.0066, 1.7852,  
0.0000

■ 123.8091,  
111.5860, 42.0136

■ 1.1572, 0.4779,  
0.0000

■ 155.5029,  
141.7855, 58.7755


■ 0.0722, 0.0000,  
0.0000


■ 192.1907,


■ 0.0000, 0.0000,


176.9943, 79.4905


0.0000


 234.2377,  
217.5968, 104.5771


 27.4610, 22.2747,  
2.8521


 27.4610, 22.2747,  
2.8521


 27.4611, 22.2752,  
2.8522

 28.5210, 24.2027,  
3.7983

 29.7879, 26.3532,  
5.4022

 31.3070, 28.7488,  
7.8896

 33.1023, 31.4025,  
11.3761

 35.1942, 34.3258,  
15.9596

■ 37.6011, 37.5292,  
21.7262

■ 40.3393, 41.0224,  
28.7530

■ 43.4241, 44.8145,  
37.1110

■ 46.8696, 48.9140,  
46.8656

# Harmonies

## Analogous

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



34.8256, 22.2747, 7.3430



27.4610, 22.2747, 2.8521



19.7091, 22.2747, 2.1379

# Triad

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



27.4610, 22.2747, 2.8521



9.9706, 22.2747, 28.7993



30.6625, 22.2747, 74.1134

# Complementary

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



27.4610, 22.2747, 2.8521



12.7961, 10.1911, 51.7445

# 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.



22.7044, 22.2747, 91.1854



27.4610, 22.2747, 2.8521



11.6538, 22.2747, 56.8689

# Square

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



27.4610, 22.2747, 2.8521



10.6768, 22.2747, 11.2269



15.9240, 22.2747, 83.5153



36.9540, 22.2747, 44.7411



# Rectangle

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



27.4610, 22.2747, 2.8521



15.5332, 22.2747, 3.0076



15.9240, 22.2747, 83.5153



28.0315, 22.2747, 82.0729

# Sweetspot

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



27.4615, 22.2759, 2.8525



72.0024, 73.1638, 50.8485



23.7066, 12.0233, 10.0567



14.9866, 15.1142, 9.7107



92.9021, 97.7402, 106.4391



19.4759, 20.4902, 22.3138



# Same Dimension

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



27.4615, 22.2759, 2.8525



48.9339, 39.3963, 5.0251



38.6817, 48.2500, 7.2746



10.5346, 11.0006, 10.6300



18.3457, 14.9772, 1.9240



0.8602, 0.7822, 0.1056



# Inverse Universe

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



12.7961, 10.1911, 51.7445



22.6828, 17.7822, 92.5971



9.7465, 3.9127, 50.6934



9.8808, 10.4530, 12.7817



8.5872, 6.9309, 34.4418



0.4395, 0.4363, 1.5109



# Previews

## White Background



This preview shows how the XYZ color 27.4610, 22.2747, 2.8521 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 27.4610, 22.2747, 2.8521 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 27.4610, 22.2747, 2.8521**

## **Background**



This preview shows how black text looks on a background with the XYZ color 27.4610, 22.2747, 2.8521.



This preview shows how white text looks on a background with the XYZ color 27.4610, 22.2747,



# 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

27.4610, 22.2747, 2.8521

### Protanopia

20.2351, 22.4701, 3.7226

### Deuteranopia

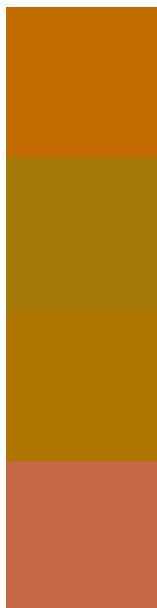
22.7247, 22.4146, 3.1287



## Tritanopia

30.4400, 22.2818, 17.1645

# Trichromacy



## Original Color

27.4610, 22.2747, 2.8521

## Protanomaly

22.4476, 22.0803, 3.3660

## Deuteranomaly

24.2760, 22.3076, 3.0263

## Tritanomaly

28.7894, 22.0661, 8.3720

# Monochromacy



## Original Color

27.4610, 22.2747, 2.8521

## Achromatopsia

18.4984, 19.4618, 21.1939

## Achromatomaly

19.9492, 19.5685, 9.9334

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 27.4610, 22.2747, 2.8521 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(193, 109, 0)` looks like.

```
.text, #text, p{  
    color:rgb(193, 109, 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(193, 109, 0) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(193, 109, 0) }
```

## Border

The CSS property to change the border of an element to XYZ 27.4610, 22.2747, 2.8521 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(193, 109, 0) }
```



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

```
.border{ border-color:rgb(193, 109, 0) }
```

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

Here you see how a box with a 4 pixel rgb(193, 109, 0) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(193, 109, 0); -webkit-box-  
shadow:4px 4px 4px 4px rgb(193, 109, 0);  
box-shadow:4px 4px 4px 4px rgb(193, 109,  
0) }
```

# Background

The CSS property to change the background color of an element to XYZ 27.4610, 22.2747, 2.8521 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(193, 109, 0) }
```

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

```
.background{ background-color: rgb(193,  
109, 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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