

# Converting Colors

XYZ(33.8789, 27.3828, 4.2177)

Have a look what the booklet for  
XYZ(33.8789, 27.3828, 4.2177)  
contains.

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# Color

**XYZ(34.0032, 27.4841,  
4.2223)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	D47815
RGB	212, 120, 21
RGB Percent	83%, 47%, 8%
CMY	0.1686, 0.5294, 0.9176
CMYK	0.00, 0.43, 0.90, 0.17
HSL	31°, 82%, 46%
HSV	31°, 90%, 83%
XYZ	34.0032, 27.4841, 4.2223
YIQ	136.2220, 86.6110, -11.2850

# Conversions

## Conversions Part 2

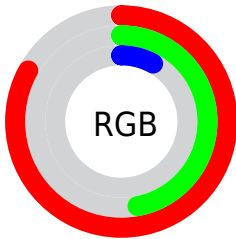
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	198, 212, 21
Decimal	13924373
CIE Lab	59.42, 29.86, 62.34
CIE LCh	59, 69.122, 64.404
Yxy	27.4841, 0.5175, 0.4183
Android (android.graphics.Color)	4292114453 (0xFFD47815)
YUV	136.2220, -56.8044, 66.4573
Hunter-Lab	52.4253, 24.0314, 31.9225

# Details

The XYZ color **34.0032, 27.4841, 4.2223** 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 **18.0979, 16.7229, 64.5608**, and the grayscale version is **23.6697, 24.9023, 27.1186**.

A 20% lighter version of the original color is **57.5587, 51.6972, 14.1526**, and **14.9527, 10.9596, 1.3273** is the 20% darker color. If you saturate the color by 10%, you get **32.7151, 25.1248, 3.1253**, and if you desaturate by 10%, it is **35.5844, 30.1887, 6.1613**.

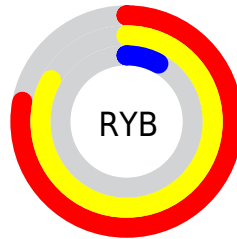
# Distribution



Red (83%)

Green (47%)

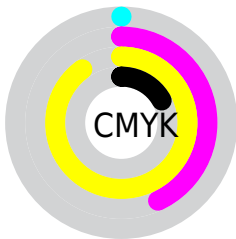
Blue (8%)



Red (78%)

Yellow (83%)

Blue (8%)

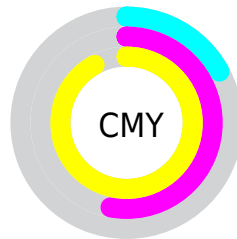


Cyan (0%)

Magenta (43%)

Yellow (90%)

Black (17%)



Cyan (17%)

Magenta (53%)


Yellow (92%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 34.0032, 27.4841, 4.2223 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 34.0032, 27.4841, 4.2223 by changing the saturation by 10% instead.





 34.0032, 27.4841,  
4.2223


 34.0032, 27.4841,  
4.2223


311.7320,  
289.9935, 150.6651


 23.0590, 17.9371,  
1.7481


 65.2829, 55.6597,  
14.5193


 14.7580, 10.9049,  
0.3934


 86.3491, 75.0572,  
23.1791

 8.7349, 6.0029,  
0.0000


 111.5199, 98.5069,  
34.7379

 4.6244, 2.8468,  
0.0000

 141.1608,  
126.3933, 49.6142

 2.0611, 1.0523,  
0.0000

 175.6371,  
159.1007, 68.2265

 0.6679, 0.0000,  
0.0000

 215.3142,

 0.0000, 0.0000,

197.0137, 90.9934

0.0000

260.5574,  
240.5164, 118.3334

34.0032, 27.4841,  
4.2223

34.0032, 27.4841,  
4.2223

32.7151, 25.1248,  
3.1253

35.5844, 30.1887,  
6.1613

37.5006, 33.2420,  
9.2021

39.7839, 36.6639,  
13.4924

42.4613, 40.4710,  
19.1564

45.5568, 44.6785,  
26.3032

■ 49.0921, 49.3003,  
35.0307

■ 53.0871, 54.3496,  
45.4284

■ 57.5607, 59.8391,  
57.5790

■ 62.5302, 65.7804,  
71.5596

# Harmonies

## Analogous

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



42.4242, 27.4841, 10.2490



34.0032, 27.4841, 4.2223



24.8640, 27.4841, 3.1070

# Triad

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



34.0032, 27.4841, 4.2223



12.7820, 27.4841, 33.7418



36.7144, 27.4841, 89.0934

# Complementary

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



34.0032, 27.4841, 4.2223



18.0979, 16.7229, 64.5608

# 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.



27.4234, 27.4841, 107.1802



34.0032, 27.4841, 4.2223



14.6453, 27.4841, 65.7995

# Square

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



34.0032, 27.4841, 4.2223



13.7924, 27.4841, 13.6807



19.5650, 27.4841, 96.8947



44.2168, 27.4841, 55.6396



# Rectangle

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



34.0032, 27.4841, 4.2223



19.8252, 27.4841, 4.1096



19.5650, 27.4841, 96.8947



33.6301, 27.4841, 97.8157

# Sweetspot

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



34.0038, 27.4856, 4.2228



76.1972, 76.9681, 57.3783



30.4181, 15.7329, 17.1507



15.8817, 15.9269, 11.1898



0.0000, 0.0000, 0.0000



20.3446, 21.4041, 23.3091



# Same Dimension

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



34.0038, 27.4856, 4.2228



49.5154, 37.8109, 4.6885



49.9212, 60.6693, 9.7890



12.9504, 13.4750, 13.0791



20.2977, 15.7127, 1.9631



1.3070, 1.1132, 0.1460



# Inverse Universe

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



18.0979, 16.7229, 64.5608



25.1109, 21.3418, 97.4036



12.5330, 5.4865, 62.6853



12.2312, 12.9859, 15.7994



10.3757, 9.0131, 39.6460



0.7085, 0.7089, 2.4188



# Previews

## White Background



This preview shows how the XYZ color 34.0032, 27.4841, 4.2223 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 34.0032, 27.4841, 4.2223 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 34.0032, 27.4841, 4.2223**

## **Background**



This preview shows how black text looks on a background with the XYZ color 34.0032, 27.4841, 4.2223.



This preview shows how white text looks on a background with the XYZ color 34.0032, 27.4841,



# 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

34.0032, 27.4841, 4.2223

### Protanopia

25.0832, 27.7117, 5.1255

### Deuteranopia

28.0956, 27.5534, 3.8375



## Tritanopia

37.5032, 27.5433, 21.1091

# Trichromacy



## Original Color

34.0032, 27.4841, 4.2223

## Protanomaly

27.6618, 27.1014, 4.6929

## Deuteranomaly

30.0188, 27.3203, 3.9209

## Tritanomaly

35.7553, 27.3486, 11.7818

# Monochromacy



## Original Color

34.0032, 27.4841, 4.2223

## Achromatopsia

23.4014, 24.6201, 26.8113

## Achromatomaly

25.3129, 24.6659, 14.0165

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 34.0032, 27.4841, 4.2223 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(212, 120, 21)` looks like.

```
.text, #text, p{  
    color:rgb(212, 120, 21)  
}
```

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(212, 120, 21) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(212, 120, 21) }
```

## Border

The CSS property to change the border of an element to XYZ 34.0032, 27.4841, 4.2223 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(212, 120, 21) }
```



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

```
.border{ border-color:rgb(212, 120, 21) }
```

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

Here you see how a box with a 4 pixel `rgb(212, 120, 21)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(212, 120, 21); -webkit-box-  
shadow:4px 4px 4px 4px rgb(212, 120, 21);  
box-shadow:4px 4px 4px 4px rgb(212, 120,  
21) }
```

# Background

The CSS property to change the background color of an element to XYZ 34.0032, 27.4841, 4.2223 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(212, 120, 21) }
```

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

```
.background{ background-color: rgb(212,  
120, 21) }
```

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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