

# Converting Colors

XYZ(27.9119, 17.4680, 1.9005)

Have a look what the booklet for  
XYZ(27.9119, 17.4680, 1.9005)  
contains.

<b>XYZ(27.7992, 17.3996, 1.8933)</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(27.7992, 17.3996,  
1.8933)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	CF4400
RGB	207, 68, 0
RGB Percent	81%, 27%, 0%
CMY	0.1882, 0.7333, 1.0000
CMYK	0.00, 0.67, 1.00, 0.19
HSL	20°, 100%, 41%
HSV	20°, 100%, 81%
XYZ	27.7992, 17.3996, 1.8933
YIQ	101.8090, 104.6720, 8.3200

# Conversions

## Conversions Part 2

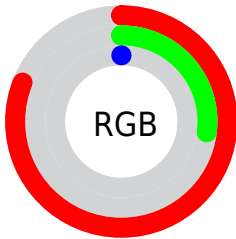
<b>Format</b>	<b>Color</b>
<b>RYB</b>	207, 101, 0
Decimal	13583360
CIELab	48.76, 52.76, 59.84
CIELCh	49, 79.777, 48.598
Yxy	17.3996, 0.5903, 0.3695
Android (android.graphics.Color)	4291773440 (0xFFCF4400)
YUV	101.8090, -50.1918, 92.2525
Hunter-Lab	41.7128, 45.9625, 26.5079

# Details

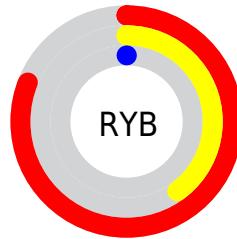
The XYZ color **27.7992, 17.3996, 1.8933** is a dark color, and the websafe version is hex **CC3300**. The color can be described as dark washed red. A complement of this color would be **20.4941, 22.9684, 62.3841**, and the grayscale version is **12.6881, 13.3489, 14.5370**.

A 20% lighter version of the original color is **49.1124, 35.7417, 8.4480**, and **11.5016, 5.9293, 0.5383** is the 20% darker color. If you saturate the color by 10%, you get **27.7994, 17.4003, 1.8934**, and if you desaturate by 10%, it is **28.8749, 19.3391, 2.9061**.

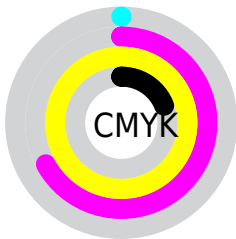
# Distribution



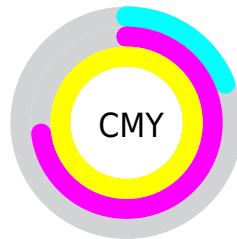
- Red (81%)
- Green (27%)
- Blue (0%)



- Red (81%)
- Yellow (40%)
- Blue (0%)



- Cyan (0%)
- Magenta (67%)
- Yellow (100%)
- Black (19%)




- Cyan (19%)
- Magenta (73%)
- Yellow (100%)


# Brightness & Saturation Gradients


These gradients show how the XYZ color 27.7992, 17.3996, 1.8933 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 27.7992, 17.3996, 1.8933 by changing the saturation by 10% instead.




 27.7992, 17.3996,  
1.8933

 27.7992, 17.3996,  
1.8933


 283.6037,  
237.4647, 120.6973

 18.3140, 10.5198,  
0.4885


 55.5746, 39.0116,  
8.7470

 11.2767, 5.7449,  
0.0000


 74.5955, 54.5125,  
15.1069


 6.3219, 2.6906,  
0.0000


 97.5257, 73.6560,  
23.9802

 3.0843, 0.9724,  
0.0000

 124.7306, 96.8263,  
35.7855

 1.1985, 0.0000,  
0.0000

 156.5755,  
124.4080, 50.9414

 0.1052, 0.0000,  
0.0000


 193.4257,


 0.0000, 0.0000,


156.7854, 69.8662


0.0000


 235.6467,  
194.3428, 92.9787


 27.7992, 17.3996,  
1.8933


 27.7992, 17.3996,  
1.8933


 27.7994, 17.4003,  
1.8934

 28.8749, 19.3391,  
2.9061

 30.3045, 21.7589,  
4.7376

 32.1486, 24.7029,  
7.6461

 34.4440, 28.2036,  
11.7723

 37.2231, 32.2900,  
17.2356

■ 40.5147, 36.9893,  
24.1405

■ 44.3453, 42.3266,  
32.5815

■ 48.7393, 48.3256,  
42.6447

■ 53.7197, 55.0086,  
54.4098

# Harmonies

## Analogous

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



33.9457, 17.3996, 8.7208



27.7992, 17.3996, 1.8933



19.5022, 17.3996, 0.4101

# Triad

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



27.7992, 17.3996, 1.8933



6.1686, 17.3996, 11.9980



21.4849, 17.3996, 89.3804

# Complementary

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



27.7992, 17.3996, 1.8933



20.4941, 22.9684, 62.3841

# 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.



13.8901, 17.3996, 93.1433



27.7992, 17.3996, 1.8933



6.4104, 17.3996, 35.0724

# Square

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



27.7992, 17.3996, 1.8933



8.0190, 17.3996, 2.7805



8.8212, 17.3996, 68.6472



29.6168, 17.3996, 60.4900



# Rectangle

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



27.7992, 17.3996, 1.8933



14.5071, 17.3996, 0.3627



8.8212, 17.3996, 68.6472



18.7496, 17.3996, 94.1442

# Sweetspot

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



27.7996, 17.4006, 1.8936



70.8319, 67.5059, 51.6799



30.5732, 15.2019, 26.6983



14.5800, 13.6440, 9.7682



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.



27.7996, 17.4006, 1.8936



44.3930, 27.5660, 2.9810



39.9292, 41.6598, 5.9368



12.1214, 12.4336, 12.3731



17.5925, 11.1181, 1.2188



1.0556, 0.7656, 0.0921



# Inverse Universe

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



20.4941, 22.9684, 62.3841



32.6551, 36.4303, 99.9184



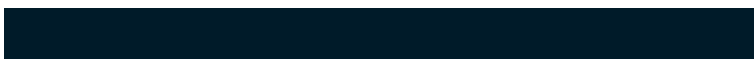
11.9540, 5.8882, 59.5374



11.8174, 12.7251, 15.0770



13.0018, 14.6503, 39.3350



0.7978, 0.9608, 2.2230



# Previews

## White Background



This preview shows how the XYZ color 27.7992, 17.3996, 1.8933 looks on a white 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



# Black Background



This preview shows how the XYZ color 27.7992, 17.3996, 1.8933 looks on a black 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

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

**XYZ 27.7992, 17.3996, 1.8933**

## **Background**



This preview shows how black text looks on a background with the XYZ color 27.7992, 17.3996, 1.8933.



This preview shows how white text looks on a background with the XYZ color 27.7992, 17.3996,



# 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

27.7992, 17.3996, 1.8933

### Protanopia

15.8662, 17.6058, 3.3211

### Deuteranopia

17.7171, 17.5719, 2.4579



## Tritanopia

28.8031, 17.3702, 7.1449

# Trichromacy



## Original Color

27.7992, 17.3996, 1.8933

## Protanomaly

18.8392, 16.3263, 2.5738

## Deuteranomaly

20.4544, 16.6194, 2.1298

## Tritanomaly

28.3388, 17.3649, 4.1436

# Monochromacy



## Original Color

27.7992, 17.3996, 1.8933

## Achromatopsia

12.6291, 13.2868, 14.4694

## Achromatomaly

15.4255, 13.2694, 6.7493

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 27.7992, 17.3996, 1.8933 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(207, 68, 0)` looks like.

```
.text, #text, p{  
    color:rgb(207, 68, 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(207, 68, 0) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(207, 68, 0) }
```

## Border

The CSS property to change the border of an element to XYZ 27.7992, 17.3996, 1.8933 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(207, 68, 0) }
```



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

```
.border{ border-color:rgb(207, 68, 0) }
```

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

Here you see how a box with a 4 pixel `rgb(207, 68, 0)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(207, 68, 0); -webkit-box-  
shadow:4px 4px 4px 4px rgb(207, 68, 0);  
box-shadow:4px 4px 4px 4px rgb(207, 68, 0)  
}
```

# Background

The CSS property to change the background color of an element to XYZ 27.7992, 17.3996, 1.8933 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(207, 68, 0) }
```

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

```
.background{ background-color: rgb(207, 68,  
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](#).

Hey! You found this booklet interesting? Support Converting Colors with the new Membership Option!

The pro membership hides all ads, plus gives you double the colors in the color bucket, and more awesome pro features!

**[Learn more, Memberships starting at \\$2.50/m!](#)**

**Follow me  
on Twitter!**

@ConvertingColor