

# Converting Colors

XYZ(27.9113, 14.3748, 1.9397)

Have a look what the booklet for  
XYZ(27.9113, 14.3748, 1.9397)  
contains.

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# Color

**XYZ(27.8491, 14.3432,  
1.9168)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	D60013
RGB	214, 0, 19
RGB Percent	84%, 0%, 7%
CMY	0.1608, 0.9998, 0.9255
CMYK	0.00, 1.00, 0.91, 0.16
HSL	355°, 100%, 42%
HSV	355°, 100%, 84%
XYZ	27.8491, 14.3432, 1.9168
YIQ	66.1520, 121.4450, 51.2770

# Conversions

## Conversions Part 2

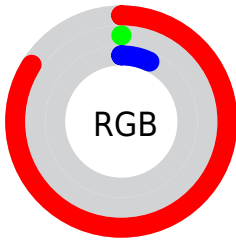
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	214, 0, 19
Decimal	14024723
CIE Lab	44.72, 70.36, 52.66
CIE LCh	45, 87.890, 36.813
Yxy	14.3432, 0.6314, 0.3252
Android (android.graphics.Color)	4292214803 (0xFFD60013)
YUV	66.1520, -23.2459, 129.6627
Hunter-Lab	37.8724, 64.9814, 23.5099

# Details

The XYZ color **27.8491, 14.3432, 1.9168** is a dark color, and the websafe version is hex **CC0000**. The color can be described as dark washed red. A complement of this color would be **33.9028, 52.0354, 59.9157**, and the grayscale version is **5.2281, 5.5004, 5.9899**.

A 20% lighter version of the original color is **45.7428, 28.6447, 8.4283**, and **12.3944, 6.3896, 0.5800** is the 20% darker color. If you saturate the color by 10%, you get **27.8485, 14.3429, 1.9147**, and if you desaturate by 10%, it is **28.3659, 14.9923, 3.2755**.

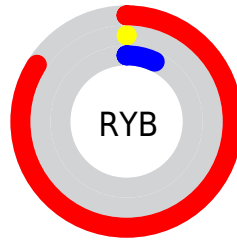
# Distribution



Red (84%)

Green (0%)

Blue (7%)



Red (84%)

Yellow (0%)

Blue (7%)

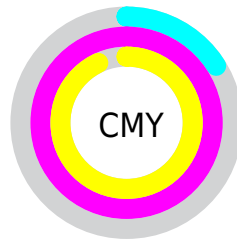


Cyan (0%)

Magenta (100%)

Yellow (91%)

Black (16%)



Cyan (16%)

Magenta (100%)


Yellow (93%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 27.8491, 14.3432, 1.9168 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 27.8491, 14.3432, 1.9168 by changing the saturation by 10% instead.





 27.8491, 14.3432,  
1.9168


 27.8491, 14.3432,  
1.9168


283.8383,  
219.3556, 121.0712


 18.3518, 8.3598,  
0.5034


 55.6538, 33.6968,  
8.8121


 11.3041, 4.3260,  
0.0000


 74.6918, 47.8357,  
15.2005


 6.3405, 1.8575,  
0.0000


 97.6409, 65.4618,  
24.1076

 3.0959, 0.5227,  
0.0000

 124.8663, 86.9597,  
35.9519

 1.2047, 0.0000,  
0.0000

 156.7334,  
112.7136, 51.1518


 0.1100, 0.0000,  
0.0000


 193.6075,


 0.0000, 0.0000,


143.1079, 70.1260


0.0000


 235.8540,  
178.5271, 93.2929


 27.8491, 14.3432,  
1.9168


 27.8491, 14.3432,  
1.9168


 27.8485, 14.3429,  
1.9147

 28.3659, 14.9923,  
3.2755

 29.3537, 16.3185,  
5.6069

 30.9366, 18.5342,  
9.0636

 33.1897, 21.7592,  
13.7644

 36.1771, 26.0950,  
19.8130

■ 39.9552, 31.6303,  
27.3021

■ 44.5749, 38.4453,  
36.3163

■ 50.0828, 46.6128,  
46.9336

■ 56.5223, 56.2006,  
59.2266

# Harmonies

## Analogous

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



32.3221, 14.3432, 11.4007



27.8491, 14.3432, 1.9168



19.7869, 14.3432, 0.0000

# Triad

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



27.8491, 14.3432, 1.9168



4.5042, 14.3432, 4.6856



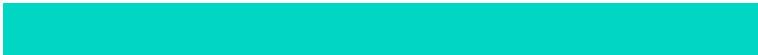
15.3277, 14.3432, 96.2744

# Complementary

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



27.8491, 14.3432, 1.9168



33.9028, 52.0354, 59.9157

# 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.



8.9087, 14.3432, 86.8515



27.8491, 14.3432, 1.9168



4.0375, 14.3432, 20.7632

# Square

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



27.8491, 14.3432, 1.9168



6.9482, 14.3432, 0.4713



5.3286, 14.3432, 53.0293



23.6291, 14.3432, 73.0137



# Rectangle

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



27.8491, 14.3432, 1.9168



14.4107, 14.3432, 0.0000



5.3286, 14.3432, 53.0293



12.8833, 14.3432, 97.0054

# Sweetspot

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



27.8494, 14.3441, 1.9170



66.0462, 56.8146, 53.5371



34.0296, 16.1416, 64.9398



13.4805, 11.1915, 10.1833



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.



27.8494, 14.3441, 1.9170



41.3905, 21.3202, 2.7227



31.0299, 20.8927, 2.3987



12.4675, 12.4385, 13.1360



16.8491, 8.6760, 1.2435



1.0320, 0.5296, 0.1581



# Inverse Universe

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



27.8494, 14.3441, 1.9170



41.3905, 21.3202, 2.7227



19.9121, 20.4034, 66.5065



12.4675, 12.4385, 13.1360



16.8491, 8.6760, 1.2435



1.0320, 0.5296, 0.1581



# Previews

## White Background



This preview shows how the XYZ color 27.8491, 14.3432, 1.9168 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

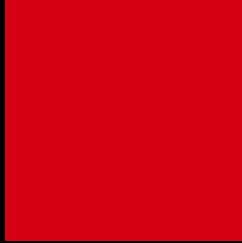
Any Text WCAG AA ✓ Pass

Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 27.8491, 14.3432, 1.9168 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 27.8491, 14.3432, 1.9168**

## **Background**



This preview shows how black text looks on a background with the XYZ color 27.8491, 14.3432, 1.9168.



This preview shows how white text looks on a background with the XYZ color 27.8491, 14.3432,

1.9168.

# 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

27.8491, 14.3432, 1.9168

### Protanopia

13.5976, 14.9300, 3.9988

### Deuteranopia

15.0036, 14.9347, 2.0919



## Tritanopia

27.6907, 14.6464, 1.3676

# Trichromacy



## Original Color

27.8491, 14.3432, 1.9168

## Protanomaly

15.8930, 11.3237, 2.6444

## Deuteranomaly

17.2964, 11.8043, 1.5678

## Tritanomaly

27.6228, 14.4493, 1.5341

# Monochromacy



## Original Color

27.8491, 14.3432, 1.9168

## Achromatopsia

5.1784, 5.4480, 5.9329

## Achromatomaly

9.1281, 5.8707, 3.5578

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 27.8491, 14.3432, 1.9168 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(214, 0, 19)` looks like.

```
.text, #text, p{  
    color:rgb(214, 0, 19)  
}
```

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(214, 0, 19) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(214, 0, 19) }
```

## Border

The CSS property to change the border of an element to XYZ 27.8491, 14.3432, 1.9168 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(214, 0, 19) }
```



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

```
.border{ border-color:rgb(214, 0, 19) }
```

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

Here you see how a box with a 4 pixel rgb(214, 0, 19) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(214, 0, 19); -webkit-box-  
shadow:4px 4px 4px 4px rgb(214, 0, 19);  
box-shadow:4px 4px 4px 4px rgb(214, 0, 19)  
}
```

# Background

The CSS property to change the background color of an element to XYZ 27.8491, 14.3432, 1.9168 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(214, 0, 19) }
```

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

```
.background{ background-color: rgb(214, 0,  
19) }
```

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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