

# Converting Colors

XYZ(27.2772, 10.0184, 0.1974)

Have a look what the booklet for  
XYZ(27.2772, 10.0184, 0.1974)  
contains.

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# Color

**XYZ(30.1242, 15.5296,  
1.4098)**

# Conversions

## Conversions Part 1

Format	Color
Hex	DE0000
RGB	222, 0, 0
RGB Percent	87%, 0%, 0%
CMY	0.1294, 0.9998, 1.0000
CMYK	0.00, 1.00, 1.00, 0.13
HSL	0°, 100%, 44%
HSV	0°, 100%, 87%
XYZ	30.1242, 15.5296, 1.4098
YIQ	66.3780, 132.3120, 47.0640

# Conversions

## Conversions Part 2

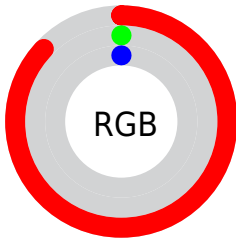
<b>Format</b>	<b>Color</b>
<a href="#">RYB</a>	<a href="#">222, 0, 0</a>
Decimal	<a href="#">14548992</a>
CIELab	<a href="#">46.35, 72.15, 60.54</a>
CIElCh	<a href="#">46, 94.181, 40.000</a>
Yxy	<a href="#">15.5296, 0.6401, 0.3300</a>
Android (android.graphics.Color)	<a href="#">4292739072</a> ( <a href="#">0xFFDE0000</a> )
YUV	<a href="#">66.3780, -32.7244, 136.4805</a>
Hunter-Lab	<a href="#">39.4076, 67.4867, 25.4642</a>

# Details

The XYZ color **30.1242, 15.5296, 1.4098** 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 **39.2922, 57.4888, 78.1322**, and the grayscale version is **5.2769, 5.5517, 6.0458**.

A 20% lighter version of the original color is **45.5020, 28.6806, 6.7521**, and **13.7103, 7.0679, 0.6416** is the 20% darker color. If you saturate the color by 10%, you get **30.1245, 15.5306, 1.4100**, and if you desaturate by 10%, it is **30.5624, 16.1715, 2.2799**.

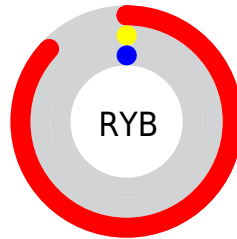
# Distribution



Red (87%)

Green (0%)

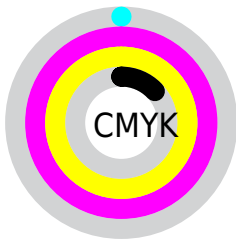
Blue (0%)



Red (87%)

Yellow (0%)

Blue (0%)

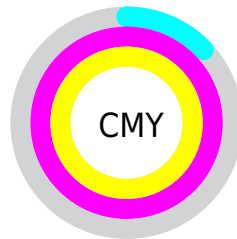


Cyan (0%)

Magenta (100%)

Yellow (100%)

Black (13%)



Cyan (13%)

Magenta (100%)


Yellow (100%)


# Brightness & Saturation Gradients


These gradients show how the XYZ color 30.1242, 15.5296, 1.4098 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 30.1242, 15.5296, 1.4098 by changing the saturation by 10% instead.




 30.1242, 15.5296,  
1.4098


 30.1242, 15.5296,  
1.4098


 294.3824,  
226.5497, 112.4092

 20.0814, 9.1919,  
0.1493


 59.2438, 35.7796,  
7.3534

 12.5628, 4.8666,  
0.0000


 79.0514, 50.4607,  
13.0816

 7.2031, 2.1692,  
0.0000


 102.8445, 68.6918,  
21.2055

 3.6369, 0.7031,  
0.0000

 130.9887, 90.8571,  
32.1437

 1.4989, 0.0000,  
0.0000

 163.8492,  
117.3412, 46.3146


 0.3251, 0.0000,  
0.0000


 201.7914,


 0.0000, 0.0000,


148.5284, 64.1368


0.0000


 245.1807,  
184.8031, 86.0288


 30.1242, 15.5296,  
1.4098


 30.1242, 15.5296,  
1.4098


 30.1245, 15.5306,  
1.4100

 30.5624, 16.1715,  
2.2799

 31.5034, 17.5488,  
4.1494

 33.1108, 19.9012,  
7.3438

 35.4772, 23.3642,  
12.0473

 38.6806, 28.0518,  
18.4150

■ 42.7893, 34.0642,  
26.5829

■ 47.8648, 41.4909,  
36.6729

■ 53.9628, 50.4139,  
48.7962

■ 61.1353, 60.9088,  
63.0558

# Harmonies

## Analogous

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



35.9229, 15.5296, 10.3064



30.1242, 15.5296, 1.4098



20.7292, 15.5296, 0.0000

# Triad

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



30.1242, 15.5296, 1.4098



4.4533, 15.5296, 5.8089



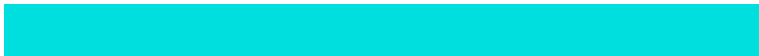
17.6224, 15.5296, 109.2949

# Complementary

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



30.1242, 15.5296, 1.4098



39.2922, 57.4888, 78.1322

# 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.



10.0638, 15.5296, 102.4845



30.1242, 15.5296, 1.4098



4.1458, 15.5296, 25.8599

# Square

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



30.1242, 15.5296, 1.4098



6.8640, 15.5296, 0.5432



5.7788, 15.5296, 64.5819



27.1505, 15.5296, 78.9116



# Rectangle

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



30.1242, 15.5296, 1.4098



14.7604, 15.5296, 0.0000



5.7788, 15.5296, 64.5819



14.7605, 15.5296, 111.6545

# Sweetspot

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



30.1245, 15.5306, 1.4100



65.3498, 56.5417, 49.8525



43.3087, 20.8034, 70.8395



13.3229, 11.1297, 9.3491



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.



30.1245, 15.5306, 1.4100



41.2406, 21.2613, 1.9302



35.8084, 26.8984, 3.3046



13.7075, 13.7011, 14.2289



17.8936, 9.2252, 0.8375

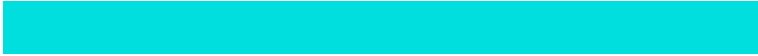


1.2404, 0.6396, 0.0581



# Inverse Universe

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



39.2922, 57.4888, 78.1322



53.7912, 78.7025, 106.9637



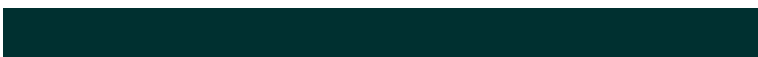
18.8692, 16.6428, 71.3245



14.1163, 15.5718, 17.6493



23.3391, 34.1478, 46.4094



1.6178, 2.3671, 3.2169



# Previews

## White Background



This preview shows how the XYZ color 30.1242, 15.5296, 1.4098 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



## 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 30.1242, 15.5296, 1.4098**

## **Background**



This preview shows how black text looks on a background with the XYZ color 30.1242, 15.5296, 1.4098.



This preview shows how white text looks on a background with the XYZ color 30.1242, 15.5296,

1.4098.

# 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

30.1242, 15.5296, 1.4098

### Protanopia

14.6201, 16.1127, 3.5019

### Deuteranopia

16.1385, 15.9708, 2.2321



## Tritanopia

29.7834, 15.7520, 1.4707

# Trichromacy



## Original Color

30.1242, 15.5296, 1.4098

## Protanomaly

17.0604, 12.1272, 2.0139

## Deuteranomaly

18.5847, 12.5604, 1.4449

## Tritanomaly

29.9627, 15.6600, 1.4435

# Monochromacy



## Original Color

30.1242, 15.5296, 1.4098

## Achromatopsia

5.1784, 5.4480, 5.9329

## Achromatomaly

9.4143, 6.0340, 2.8590

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 30.1242, 15.5296, 1.4098 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(222, 0, 0)` looks like.

```
.text, #text, p{  
    color:rgb(222, 0, 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(222, 0, 0) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(222, 0, 0) }
```

## Border

The CSS property to change the border of an element to XYZ 30.1242, 15.5296, 1.4098 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(222, 0, 0) }
```



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

```
.border{ border-color:rgb(222, 0, 0) }
```

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

Here you see how a box with a 4 pixel `rgb(222, 0, 0)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(222, 0, 0); -webkit-box-shadow:4px  
4px 4px 4px rgb(222, 0, 0); box-shadow:4px  
4px 4px 4px rgb(222, 0, 0) }
```

# Background

The CSS property to change the background color of an element to XYZ 30.1242, 15.5296, 1.4098 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(222, 0, 0) }
```

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

```
.background{ background-color: rgb(222, 0,  
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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