

# Converting Colors

XYZ(31.0391, 15.9811, 2.3634)

Have a look what the booklet for  
XYZ(31.0391, 15.9811, 2.3634)  
contains.

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# Color

**XYZ(30.9159, 15.9175,  
2.3626)**

# Conversions

## Conversions Part 1

Format	Color
Hex	E00019
RGB	224, 0, 25
RGB Percent	88%, 0%, 10%
CMY	0.1216, 0.9998, 0.9020
CMYK	0.00, 1.00, 0.89, 0.12
HSL	353°, 100%, 44%
HSV	353°, 100%, 88%
XYZ	30.9159, 15.9175, 2.3626
YIQ	69.8260, 125.4790, 55.2630

# Conversions

## Conversions Part 2

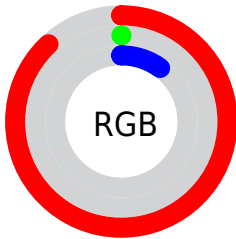
<b>Format</b>	<b>Color</b>
<b>RYB</b>	224, 0, 25
Decimal	14680089
CIELab	46.87, 72.89, 52.61
CIElCh	47, 89.889, 35.820
Yxy	15.9175, 0.6284, 0.3236
Android (android.graphics.Color)	4292870169 (0xFFE00019)
YUV	69.8260, -22.0992, 135.2106
Hunter-Lab	39.8967, 68.5000, 24.4167

# Details

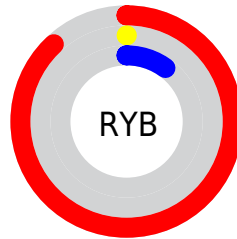
The XYZ color **30.9159, 15.9175, 2.3626** is a dark color, and the websafe version is hex **CC0000**. The color can be described as dark washed red. A complement of this color would be **36.9712, 57.4372, 63.2039**, and the grayscale version is **5.8185, 6.1215, 6.6663**.

A 20% lighter version of the original color is **46.0659, 29.0402, 9.3083**, and **14.1006, 7.2691, 0.6599** is the 20% darker color. If you saturate the color by 10%, you get **30.9151, 15.9171, 2.3598**, and if you desaturate by 10%, it is **31.5077, 16.6272, 4.0218**.

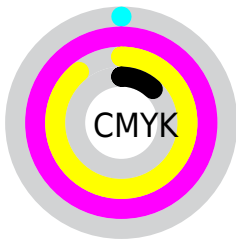
# Distribution



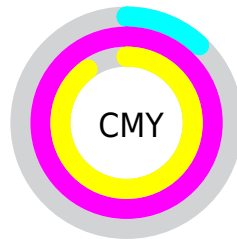
- Red (88%)
- Green (0%)
- Blue (10%)



- Red (88%)
- Yellow (0%)
- Blue (10%)



- Cyan (0%)
- Magenta (100%)
- Yellow (89%)
- Black (12%)




- Cyan (12%)
- Magenta (100%)
- Yellow (90%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 30.9159, 15.9175, 2.3626 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 30.9159, 15.9175, 2.3626 by changing the saturation by 10% instead.





 30.9159, 15.9175,  
2.3626


 30.9159, 15.9175,  
2.3626

297.9845,  
228.8544, 127.7750


 20.6863, 9.4658,  
0.7660


 60.4844, 36.4549,  
10.0103


 13.0061, 5.0462,  
0.0000


 80.5540, 51.3094,  
16.9118

 7.5098, 2.2744,  
0.0000


 104.6344, 69.7337,  
26.4230

 3.8320, 0.7601,  
0.0000

 133.0908, 92.1120,  
38.9626

 1.6076, 0.0000,  
0.0000

 166.2887,  
118.8288, 54.9491


 0.3973, 0.0000,  
0.0000


 204.5933,


 0.0000, 0.0000,


150.2686, 74.8009


0.0000


 248.3702,  
186.8157, 98.9367


 30.9159, 15.9175,  
2.3626


 30.9159, 15.9175,  
2.3626


 30.9151, 15.9171,  
2.3598

 31.5077, 16.6272,  
4.0218

 32.6217, 18.0923,  
6.7450

 34.3909, 20.5432,  
10.6876

 36.8976, 24.1135,  
15.9719

 40.2117, 28.9161,  
22.7050

■ 44.3951, 35.0501,  
30.9832

■ 49.5036, 42.6043,  
40.8945

■ 55.5881, 51.6602,  
52.5202

■ 62.6960, 62.2927,  
65.9362

# Harmonies

## Analogous

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



35.5945, 15.9175, 13.3167



30.9159, 15.9175, 2.3626



22.1722, 15.9175, 0.0000

# Triad

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



30.9159, 15.9175, 2.3626



5.1312, 15.9175, 4.9896



16.7077, 15.9175, 105.3541

# Complementary

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



30.9159, 15.9175, 2.3626



36.9712, 57.4372, 63.2039

# 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.



9.7620, 15.9175, 93.9325



30.9159, 15.9175, 2.3626



4.5500, 15.9175, 22.0815

# Square

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



30.9159, 15.9175, 2.3626



7.9177, 15.9175, 0.5534



5.9101, 15.9175, 56.7956



25.7618, 15.9175, 81.0779



# Rectangle

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



30.9159, 15.9175, 2.3626



16.2534, 15.9175, 0.0000



5.9101, 15.9175, 56.7956



14.0579, 15.9175, 105.7126

# Sweetspot

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



30.9162, 15.9185, 2.3628



66.2320, 56.8889, 54.5154



36.7101, 17.3714, 71.9385



13.5229, 11.2084, 10.4061



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.



30.9162, 15.9185, 2.3628



41.4545, 21.3458, 3.0594



34.0603, 22.4869, 2.5468



13.7690, 13.7252, 14.5537



18.0159, 9.2734, 1.4836



1.2698, 0.6512, 0.2137



# Inverse Universe

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



30.9162, 15.9185, 2.3628



41.4545, 21.3458, 3.0594



22.5657, 23.6033, 73.8869



13.7690, 13.7252, 14.5537



18.0159, 9.2734, 1.4836



1.2698, 0.6512, 0.2137



# Previews

## White Background



This preview shows how the XYZ color 30.9159, 15.9175, 2.3626 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 30.9159, 15.9175, 2.3626 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 30.9159, 15.9175, 2.3626**

## **Background**



This preview shows how black text looks on a background with the XYZ color 30.9159, 15.9175, 2.3626.



This preview shows how white text looks on a background with the XYZ color 30.9159, 15.9175,



# 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

30.9159, 15.9175, 2.3626

### Protanopia

14.9830, 16.4353, 4.8653

### Deuteranopia

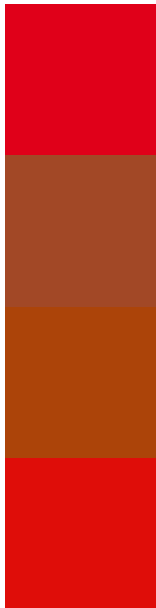
16.5854, 16.3550, 2.2827



## Tritanopia

30.6816, 16.1883, 1.5076

# Trichromacy



## Original Color

30.9159, 15.9175, 2.3626

## Protanomaly

17.5675, 12.4561, 3.3121

## Deuteranomaly

19.1297, 12.9246, 1.7449

## Tritanomaly

30.6247, 15.9955, 1.7318

# Monochromacy



## Original Color

30.9159, 15.9175, 2.3626

## Achromatopsia

5.8214, 6.1246, 6.6697

## Achromatomaly

10.2084, 6.5787, 4.2218

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 30.9159, 15.9175, 2.3626 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(224, 0, 25)` looks like.

```
.text, #text, p{  
  color:rgb(224, 0, 25)  
}
```

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(224, 0, 25) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(224, 0, 25) }
```

## Border

The CSS property to change the border of an element to XYZ 30.9159, 15.9175, 2.3626 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(224, 0, 25) }
```



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

```
.border{ border-color:rgb(224, 0, 25) }
```

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

Here you see how a box with a 4 pixel rgb(224, 0, 25) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(224, 0, 25); -webkit-box-  
shadow:4px 4px 4px 4px rgb(224, 0, 25);  
box-shadow:4px 4px 4px 4px rgb(224, 0, 25)  
}
```

# Background

The CSS property to change the background color of an element to XYZ 30.9159, 15.9175, 2.3626 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(224, 0, 25) }
```

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

```
.background{ background-color: rgb(224, 0,  
25) }
```

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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