

# Converting Colors

XYZ(31.1582, 16.0287, 2.9907)

Have a look what the booklet for  
XYZ(31.1582, 16.0287, 2.9907)  
contains.

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# Color

**XYZ(31.0292, 15.9628,  
2.9591)**

# Conversions

## Conversions Part 1

Format	Color
Hex	E00022
RGB	224, 0, 34
RGB Percent	88%, 0%, 13%
CMY	0.1216, 0.9998, 0.8667
CMYK	0.00, 1.00, 0.85, 0.12
HSL	351°, 100%, 44%
HSV	351°, 100%, 88%
XYZ	31.0292, 15.9628, 2.9591
YIQ	70.8520, 122.5900, 58.0620

# Conversions

## Conversions Part 2

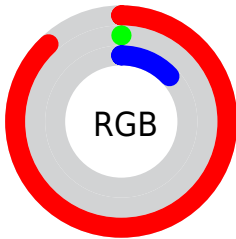
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	224, 0, 34
Decimal	14680098
CIE Lab	46.93, 73.05, 48.36
CIE LCh	47, 87.608, 33.506
Yxy	15.9628, 0.6212, 0.3196
Android (android.graphics.Color)	4292870178 (0xFFE00022)
YUV	70.8520, -18.1680, 134.3108
Hunter-Lab	39.9535, 68.7105, 23.5762

# Details

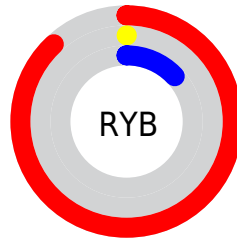
The XYZ color **31.0292, 15.9628, 2.9591** is a dark color, and the websafe version is hex **FF3333**. The color can be described as dark washed red. A complement of this color would be **35.9561, 57.0312, 57.8582**, and the grayscale version is **5.9843, 6.2959, 6.8563**.

A 20% lighter version of the original color is **46.3441, 29.1515, 10.7736**, and **14.2981, 7.3709, 0.6691** is the 20% darker color. If you saturate the color by 10%, you get **31.0283, 15.9624, 2.9557**, and if you desaturate by 10%, it is **31.6786, 16.6956, 4.9217**.

# Distribution



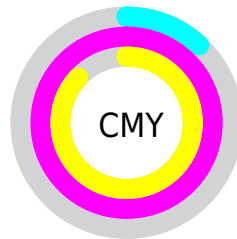
- Red (88%)
- Green (0%)
- Blue (13%)



- Red (88%)
- Yellow (0%)
- Blue (13%)



- Cyan (0%)
- Magenta (100%)
- Yellow (85%)
- Black (12%)




- Cyan (12%)
- Magenta (100%)
- Yellow (87%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 31.0292, 15.9628, 2.9591 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 31.0292, 15.9628, 2.9591 by changing the saturation by 10% instead.





 31.0292, 15.9628,  
2.9591


 31.0292, 15.9628,  
2.9591


298.4973,  
229.1221, 135.8380


 20.7730, 9.4978,  
1.0738


 60.6616, 36.5336,  
11.5273


 13.0697, 5.0673,  
0.0000


 80.7685, 51.4082,  
19.0474


 7.5539, 2.2868,  
0.0000


 104.8897, 69.8549,  
29.2827

 3.8602, 0.7667,  
0.0000

 133.3905, 92.2579,  
42.6519

 1.6234, 0.0000,  
0.0000

 166.6363,  
119.0018, 59.5735


 0.4076, 0.0000,  
0.0000


 204.9925,


 0.0000, 0.0000,


150.4708, 80.4660


0.0000


 248.8244,  
187.0495, 105.7480


 31.0292, 15.9628,  
2.9591


 31.0292, 15.9628,  
2.9591


 31.0283, 15.9624,  
2.9557

 31.6786, 16.6956,  
4.9217

 32.8430, 18.1808,  
7.9107

 34.6514, 20.6472,  
12.0597

 37.1827, 24.2273,  
17.4737

 40.5042, 29.0329,  
24.2459

■ 44.6755, 35.1619,  
32.4605

■ 49.7503, 42.7026,  
42.1948

■ 55.7778, 51.7356,  
53.5206

■ 62.8037, 62.3353,  
66.5050

# Harmonies

## Analogous

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



35.0860, 15.9628, 14.9311



31.0292, 15.9628, 2.9591



22.7213, 15.9628, 0.1747

# Triad

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



31.0292, 15.9628, 2.9591



5.4514, 15.9628, 4.5513



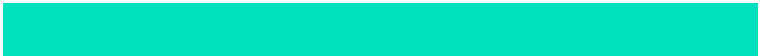
16.0891, 15.9628, 102.3810

# Complementary

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



31.0292, 15.9628, 2.9591



35.9561, 57.0312, 57.8582

# 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.



9.5132, 15.9628, 88.8587



31.0292, 15.9628, 2.9591



4.7203, 15.9628, 20.0847

# Square

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



31.0292, 15.9628, 2.9591



8.4174, 15.9628, 0.5492



5.9185, 15.9628, 52.5241



24.8210, 15.9628, 81.4346



# Rectangle

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



31.0292, 15.9628, 2.9591



16.8965, 15.9628, 0.0000



5.9185, 15.9628, 52.5241



13.5693, 15.9628, 101.7581

# Sweetspot

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



31.0295, 15.9638, 2.9593



66.5649, 57.0221, 56.2684



33.8691, 15.9068, 71.8056



13.5989, 11.2388, 10.8067



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.



31.0295, 15.9638, 2.9593



41.6005, 21.4042, 3.8284



33.2364, 20.8391, 2.2721



13.7915, 13.7342, 14.6722



18.0872, 9.3019, 1.8592



1.2805, 0.6555, 0.2699



# Inverse Universe

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



31.0295, 15.9638, 2.9593



41.6005, 21.4042, 3.8284



24.2581, 26.9882, 74.4511



13.7915, 13.7342, 14.6722



18.0872, 9.3019, 1.8592



1.2805, 0.6555, 0.2699



# Previews

## White Background



This preview shows how the XYZ color 31.0292, 15.9628, 2.9591 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 31.0292, 15.9628, 2.9591 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 31.0292, 15.9628, 2.9591**

## **Background**



This preview shows how black text looks on a background with the XYZ color 31.0292, 15.9628, 2.9591.



This preview shows how white text looks on a background with the XYZ color 31.0292, 15.9628,



# 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

31.0292, 15.9628, 2.9591

### Protanopia

15.0764, 16.4558, 6.1230

### Deuteranopia

16.5854, 16.3550, 2.2827



## Tritanopia

30.6816, 16.1883, 1.5076

# Trichromacy



## Original Color

31.0292, 15.9628, 2.9591

## Protanomaly

17.5488, 12.4252, 4.2697

## Deuteranomaly

19.1467, 12.9314, 1.8347

## Tritanomaly

30.6417, 16.0024, 1.8216

# Monochromacy



## Original Color

31.0292, 15.9628, 2.9591

## Achromatopsia

5.9891, 6.3010, 6.8618

## Achromatomaly

10.4545, 6.6943, 4.7441

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 31.0292, 15.9628, 2.9591 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, 34)` looks like.

```
.text, #text, p{  
    color:rgb(224, 0, 34)  
}
```

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, 34) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(224, 0, 34) }
```

## Border

The CSS property to change the border of an element to XYZ 31.0292, 15.9628, 2.9591 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, 34) }
```



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

```
.border{ border-color:rgb(224, 0, 34) }
```

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, 34) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(224, 0, 34); -webkit-box-  
shadow:4px 4px 4px 4px rgb(224, 0, 34);  
box-shadow:4px 4px 4px 4px rgb(224, 0, 34)  
}
```

# Background

The CSS property to change the background color of an element to XYZ 31.0292, 15.9628, 2.9591 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, 34) }
```

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

```
.background{ background-color: rgb(224, 0,  
34) }
```

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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