

# Converting Colors

XYZ(33.3912, 19.7425, 3.1479)

Have a look what the booklet for  
XYZ(33.3912, 19.7425, 3.1479)  
contains.

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# Color

**XYZ(33.2963, 19.6978,  
3.1458)**

# Conversions

## Conversions Part 1

Format	Color
Hex	E23E1C
RGB	226, 62, 28
RGB Percent	89%, 24%, 11%
CMY	0.1137, 0.7568, 0.8902
CMYK	0.00, 0.73, 0.88, 0.11
HSL	10°, 78%, 50%
HSV	10°, 88%, 89%
XYZ	33.2963, 19.6978, 3.1458
YIQ	107.1600, 108.6580, 24.1940

# Conversions

## Conversions Part 2

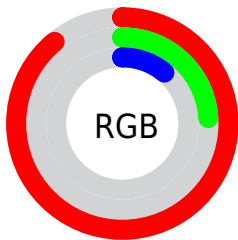
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	226, 69, 28
Decimal	14827036
CIE <sub>Lab</sub>	51.49, 61.55, 55.00
CIE <sub>LCh</sub>	51, 82.542, 41.783
Yxy	19.6978, 0.5931, 0.3509
Android (android.graphics.Color)	4293017116 (0xFFE23E1C)
YUV	107.1600, -39.0259, 104.2227
Hunter-Lab	44.3822, 56.2449, 26.8651

# Details

The XYZ color **33.2963, 19.6978, 3.1458** 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 **33.0538, 43.4329, 78.5924**, and the grayscale version is **14.1046, 14.8392, 16.1599**.

A 20% lighter version of the original color is **49.2960, 35.2288, 11.2228**, and **14.9003, 7.6814, 0.6973** is the 20% darker color. If you saturate the color by 10%, you get **32.2680, 17.9297, 1.9152**, and if you desaturate by 10%, it is **34.8750, 22.2489, 5.5425**.

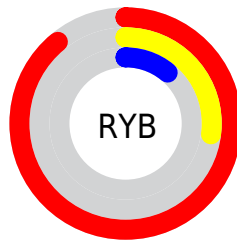
# Distribution



Red (89%)

Green (24%)

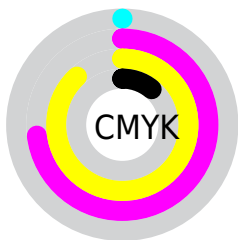
Blue (11%)



Red (89%)

Yellow (27%)

Blue (11%)

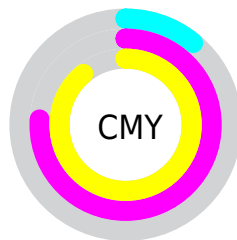


Cyan (0%)

Magenta (73%)

Yellow (88%)

Black (11%)



Cyan (11%)

Magenta (76%)


Yellow (89%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 33.2963, 19.6978, 3.1458 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 33.2963, 19.6978, 3.1458 by changing the saturation by 10% instead.





 33.2963, 19.6978,  
3.1458


 33.2963, 19.6978,  
3.1458


308.6242,  
250.2744, 138.1965


 22.5138, 12.1756,  
1.1696


 64.1894, 42.9099,  
11.9861

 14.3537, 6.8634,  
0.0000


 85.0308, 59.3686,  
19.6873


 8.4504, 3.3768,  
0.0000


 109.9559, 79.5749,  
30.1339

 4.4387, 1.3315,  
0.0000

 139.3301,  
103.9132, 43.7444

 1.9532, 0.1654,  
0.0000

 173.5186,  
132.7680, 60.9373


 0.6075, 0.0000,  
0.0000


 212.8869,


 0.0000, 0.0000,


166.5235, 82.1313


0.0000


 257.8003,  
205.5641, 107.7448


 33.2963, 19.6978,  
3.1458


 33.2963, 19.6978,  
3.1458


 32.2680, 17.9297,  
1.9152


 34.8750, 22.2489,  
5.5425

 32.0834, 17.6078,  
1.7077

 37.0775, 25.6611,  
9.3374

 39.9640, 30.0054,  
14.7039

 43.5869, 35.3445,  
21.7899

 47.9934, 41.7352,  
30.7262

■ 53.2266, 49.2304,  
41.6308

■ 59.3265, 57.8790,  
54.6118

■ 66.3304, 67.7272,  
69.7696

■ 74.2733, 78.8186,  
87.1979

# Harmonies

## Analogous

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



39.0562, 19.6978, 13.4123



33.2963, 19.6978, 3.1458



24.1588, 19.6978, 0.7255

# Triad

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



33.2963, 19.6978, 3.1458



7.2981, 19.6978, 10.1101



22.1687, 19.6978, 104.3274

# Complementary

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



33.2963, 19.6978, 3.1458



33.0538, 43.4329, 78.5924

# 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.



14.1693, 19.6978, 100.5680



33.2963, 19.6978, 3.1458



7.0539, 19.6978, 32.1829

# Square

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



33.2963, 19.6978, 3.1458



9.9847, 19.6978, 2.2423



9.1760, 19.6978, 68.4946



31.4744, 19.6978, 76.6523



# Rectangle

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



33.2963, 19.6978, 3.1458



18.2306, 19.6978, 0.4391



9.1760, 19.6978, 68.4946



19.2225, 19.6978, 107.0484

# Sweetspot

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



33.2967, 19.6990, 3.1461



71.0674, 66.2705, 57.0194



41.4048, 20.8495, 52.2941



14.6585, 13.3967, 11.0403



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.



33.2967, 19.6990, 3.1461



42.1333, 23.0465, 2.2278



44.1443, 41.3942, 6.7620



13.8966, 14.0791, 14.2919



18.3631, 10.1641, 0.9940



1.3306, 0.8200, 0.0882

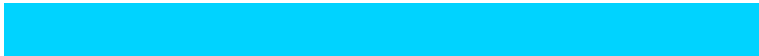


# Inverse Universe

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



33.0538, 43.4329, 78.5924



41.3939, 53.9078, 102.8313



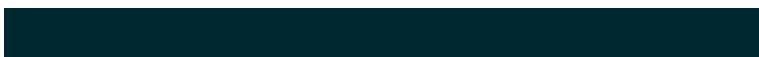
18.2092, 13.7435, 73.6441



13.9058, 15.1507, 17.5791



18.0685, 23.6066, 44.6526



1.3059, 1.7434, 3.1129



# Previews

## White Background



This preview shows how the XYZ color 33.2963, 19.6978, 3.1458 looks on a white 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



# Black Background



This preview shows how the XYZ color 33.2963, 19.6978, 3.1458 looks on a black 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

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

**XYZ 33.2963, 19.6978, 3.1458**

## **Background**



This preview shows how black text looks on a background with the XYZ color 33.2963, 19.6978, 3.1458.



This preview shows how white text looks on a background with the XYZ color 33.2963, 19.6978,

3.1458.

# 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

33.2963, 19.6978, 3.1458

### Protanopia

18.1249, 19.9930, 5.1892

### Deuteranopia

20.0716, 19.7905, 2.7621



## Tritanopia

34.0848, 19.7957, 6.4394

# Trichromacy



## Original Color

33.2963, 19.6978, 3.1458

## Protanomaly

21.5811, 17.9933, 4.1693

## Deuteranomaly

23.3855, 18.3951, 2.6052

## Tritanomaly

33.8488, 19.7844, 4.9405

# Monochromacy



## Original Color

33.2963, 19.6978, 3.1458

## Achromatopsia

13.9749, 14.7027, 16.0113

## Achromatomaly

17.6939, 14.5163, 9.0771

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 33.2963, 19.6978, 3.1458 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(226, 62, 28)` looks like.

```
.text, #text, p{  
    color:rgb(226, 62, 28)  
}
```

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(226, 62, 28) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(226, 62, 28) }
```

## Border

The CSS property to change the border of an element to XYZ 33.2963, 19.6978, 3.1458 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(226, 62, 28) }
```



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

```
.border{ border-color:rgb(226, 62, 28) }
```

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

Here you see how a box with a 4 pixel `rgb(226, 62, 28)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(226, 62, 28); -webkit-box-  
shadow:4px 4px 4px 4px rgb(226, 62, 28);  
box-shadow:4px 4px 4px 4px rgb(226, 62,  
28) }
```

# Background

The CSS property to change the background color of an element to XYZ 33.2963, 19.6978, 3.1458 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(226, 62, 28) }
```

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

```
.background{ background-color: rgb(226, 62,  
28) }
```

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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