

# Converting Colors

XYZ(33.0382, 19.1574, 0.8450)

Have a look what the booklet for  
XYZ(33.0382, 19.1574, 0.8450)  
contains.

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# Color

**XYZ(33.0927, 19.1592,  
1.9539)**

# Conversions

## Conversions Part 1

Format	Color
Hex	E33800
RGB	227, 56, 0
RGB Percent	89%, 22%, 0%
CMY	0.1098, 0.7803, 1.0000
CMYK	0.00, 0.75, 1.00, 0.11
HSL	15°, 100%, 45%
HSV	15°, 100%, 89%
XYZ	33.0927, 19.1592, 1.9539
YIQ	100.7450, 119.8920, 18.8360

# Conversions

## Conversions Part 2

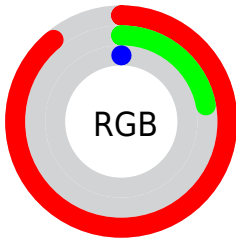
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	227, 74, 0
Decimal	14891008
CIE Lab	50.87, 63.50, 62.94
CIE LCh	51, 89.409, 44.743
Yxy	19.1592, 0.6105, 0.3535
Android (android.graphics.Color)	4293081088 (0xFFE33800)
YUV	100.7450, -49.6673, 110.7256
Hunter-Lab	43.7712, 58.3531, 27.9932

# Details

The XYZ color **33.0927, 19.1592, 1.9539** 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 **28.4257, 34.6673, 77.8657**, and the grayscale version is **12.4076, 13.0538, 14.2156**.

A 20% lighter version of the original color is **48.1602, 33.8372, 8.1306**, and **14.9003, 7.6814, 0.6973** is the 20% darker color. If you saturate the color by 10%, you get **33.0930, 19.1602, 1.9541**, and if you desaturate by 10%, it is **34.2199, 21.1712, 3.0779**.

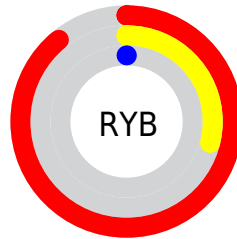
# Distribution



Red (89%)

Green (22%)

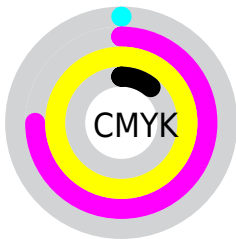
Blue (0%)



Red (89%)

Yellow (29%)

Blue (0%)

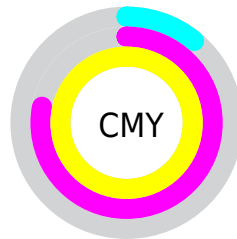


Cyan (0%)

Magenta (75%)

Yellow (100%)

Black (11%)



Cyan (11%)

Magenta (78%)


Yellow (100%)


# Brightness & Saturation Gradients


These gradients show how the XYZ color 33.0927, 19.1592, 1.9539 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 33.0927, 19.1592, 1.9539 by changing the saturation by 10% instead.





 33.0927, 19.1592,  
1.9539


 33.0927, 19.1592,  
1.9539


 307.7248,  
247.3262, 121.6568


 22.3570, 11.7854,  
0.5267


 63.8739, 42.0029,  
8.9144

 14.2376, 6.5977,  
0.0000


 84.6502, 58.2416,  
15.3476


 8.3689, 3.2118,  
0.0000


 109.5041, 78.2041,  
24.3075

 4.3857, 1.2433,  
0.0000

 138.8009,  
102.2746, 36.2127

 1.9225, 0.0966,  
0.0000

 172.9061,  
130.8378, 51.4817


 0.5899, 0.0000,  
0.0000


 212.1849,


 0.0000, 0.0000,


164.2778, 70.5330


0.0000


 257.0027,  
202.9792, 93.7852


 33.0927, 19.1592,  
1.9539


 33.0927, 19.1592,  
1.9539


 33.0930, 19.1602,  
1.9541

 34.2199, 21.1712,  
3.0779

 35.8337, 23.8712,  
5.2423

 38.0148, 27.3294,  
8.7566

 40.8170, 31.6005,  
13.8009

 44.2870, 36.7339,  
20.5274

■ 48.4670, 42.7749,  
29.0696

■ 53.3952, 49.7654,  
39.5475

■ 59.1071, 57.7446,  
52.0708

■ 65.6359, 66.7496,  
66.7409

# Harmonies

## Analogous

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



40.0052, 19.1592, 10.7880



33.0927, 19.1592, 1.9539



23.0435, 19.1592, 0.1017

# Triad

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



33.0927, 19.1592, 1.9539



6.2662, 19.1592, 10.5188



22.8718, 19.1592, 111.7887

# Complementary

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



33.0927, 19.1592, 1.9539



28.4257, 34.6673, 77.8657

# 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.



14.1050, 19.1592, 111.4434



33.0927, 19.1592, 1.9539



6.2469, 19.1592, 35.8084

# Square

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



33.0927, 19.1592, 1.9539



8.6968, 19.1592, 1.8910



8.6312, 19.1592, 77.0636



32.9326, 19.1592, 77.8028



# Rectangle

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



33.0927, 19.1592, 1.9539



16.8448, 19.1592, 0.0000



8.6312, 19.1592, 77.0636



19.6475, 19.1592, 116.2299

# Sweetspot

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



33.0931, 19.1604, 1.9542



69.3780, 64.5981, 51.1952



39.3215, 19.3881, 41.7311



14.2427, 12.9693, 9.6557



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.



33.0931, 19.1604, 1.9542



43.0131, 24.8062, 2.5210



45.3995, 43.7731, 6.0563



14.6644, 14.9427, 15.0158



19.3774, 11.3289, 1.1654



1.5039, 0.9811, 0.1101

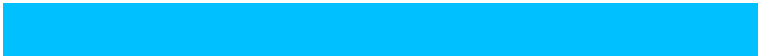


# Inverse Universe

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



28.4257, 34.6673, 77.8657



36.9170, 44.9541, 101.3390



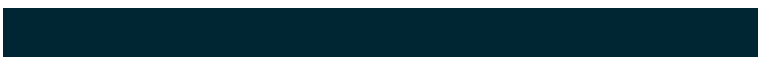
15.5090, 8.8340, 73.5602



14.4904, 15.7023, 18.4114



16.6744, 20.4108, 45.4440



1.3040, 1.6520, 3.3821



# Previews

## White Background



This preview shows how the XYZ color 33.0927, 19.1592, 1.9539 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 33.0927, 19.1592, 1.9539 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 33.0927, 19.1592, 1.9539**

## **Background**



This preview shows how black text looks on a background with the XYZ color 33.0927, 19.1592, 1.9539.



This preview shows how white text looks on a background with the XYZ color 33.0927, 19.1592,

1.9539.

# 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

33.0927, 19.1592, 1.9539

### Protanopia

17.4625, 19.3120, 3.7845

### Deuteranopia

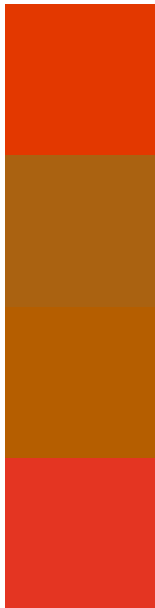
19.5718, 19.3608, 2.7055



## Tritanopia

33.8655, 19.2070, 5.2906

# Trichromacy



## Original Color

33.0927, 19.1592, 1.9539

## Protanomaly

21.0464, 17.3219, 2.7645

## Deuteranomaly

23.0588, 17.8292, 2.2260

## Tritanomaly

33.5567, 19.1557, 3.4422

# Monochromacy



## Original Color

33.0927, 19.1592, 1.9539

## Achromatopsia

12.3695, 13.0136, 14.1719

## Achromatomaly

16.2065, 13.0702, 6.5191

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 33.0927, 19.1592, 1.9539 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(227, 56, 0)` looks like.

```
.text, #text, p{  
    color:rgb(227, 56, 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(227, 56, 0) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(227, 56, 0) }
```

## Border

The CSS property to change the border of an element to XYZ 33.0927, 19.1592, 1.9539 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(227, 56, 0) }
```



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

```
.border{ border-color:rgb(227, 56, 0) }
```

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

Here you see how a box with a 4 pixel `rgb(227, 56, 0)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(227, 56, 0); -webkit-box-  
shadow:4px 4px 4px 4px rgb(227, 56, 0);  
box-shadow:4px 4px 4px 4px rgb(227, 56, 0)  
}
```

# Background

The CSS property to change the background color of an element to XYZ 33.0927, 19.1592, 1.9539 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(227, 56, 0) }
```

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

```
.background{ background-color: rgb(227, 56,  
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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