

# Converting Colors

XYZ(33.3222, 17.2187, 1.5673)

Have a look what the booklet for  
XYZ(33.3222, 17.2187, 1.5673)  
contains.

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# Color

**XYZ(33.3113, 17.2209,  
1.5683)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	E80300
RGB	232, 3, 0
RGB Percent	91%, 1%, 0%
CMY	0.0902, 0.9880, 1.0000
CMYK	0.00, 0.99, 1.00, 0.09
HSL	1°, 100%, 45%
HSV	1°, 100%, 91%
XYZ	33.3113, 17.2209, 1.5683
YIQ	71.1290, 137.4470, 47.6150

# Conversions

## Conversions Part 2

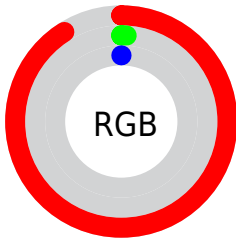
<b>Format</b>	<b>Color</b>
<b>RYB</b>	232, 3, 0
Decimal	15205120
CIELab	48.54, 74.35, 62.61
CIELCh	49, 97.197, 40.102
Yxy	17.2209, 0.6394, 0.3305
Android (android.graphics.Color)	4293395200 (0xFFE80300)
YUV	71.1290, -35.0666, 141.0839
Hunter-Lab	41.4981, 70.6638, 26.8080

# Details

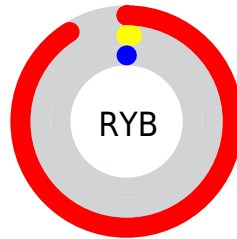
The XYZ color **33.3113, 17.2209, 1.5683** is a dark color, and the websafe version is hex **FF0000**. The color can be described as dark washed red. A complement of this color would be **42.5699, 61.8352, 86.0351**, and the grayscale version is **6.0574, 6.3728, 6.9400**.

A 20% lighter version of the original color is **45.7810, 29.1998, 6.9646**, and **15.5170, 7.9993, 0.7262** is the 20% darker color. If you saturate the color by 10%, you get **33.3116, 17.2220, 1.5685**, and if you desaturate by 10%, it is **33.8035, 17.9549, 2.5053**.

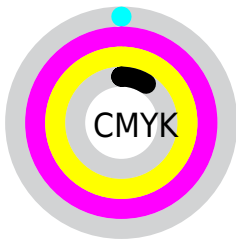
# Distribution



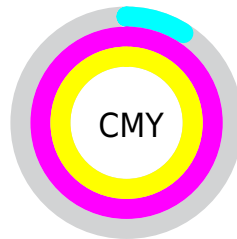
- Red (91%)
- Green (1%)
- Blue (0%)



- Red (91%)
- Yellow (1%)
- Blue (0%)



- Cyan (0%)
- Magenta (99%)
- Yellow (100%)
- Black (9%)




- Cyan (9%)
- Magenta (99%)
- Yellow (100%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 33.3113, 17.2209, 1.5683 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 33.3113, 17.2209, 1.5683 by changing the saturation by 10% instead.





 33.3113, 17.2209,  
1.5683


 33.3113, 17.2209,  
1.5683


 308.6904,  
236.4422, 115.2657


 22.5254, 10.3921,  
0.2680


 64.2127, 38.7052,  
7.8229


 14.3622, 5.6597,  
0.0000


 85.0589, 54.1295,  
13.7685

 8.4564, 2.6393,  
0.0000


 109.9892, 73.1877,  
22.1510

 4.4426, 0.9465,  
0.0000

 139.3690, 96.2643,  
33.3889

 1.9555, 0.0000,  
0.0000

 173.5637,  
123.7437, 47.9007

 0.6088, 0.0000,  
0.0000


 212.9386,


 0.0000, 0.0000,


156.0102, 66.1052


0.0000


 257.8590,  
193.4482, 88.4206


 33.3113, 17.2209,  
1.5683


 33.3113, 17.2209,  
1.5683


 33.3116, 17.2220,  
1.5685

 33.8035, 17.9549,  
2.5053

 34.8714, 19.5398,  
4.5601

 36.6720, 22.1939,  
8.0797

 39.3048, 26.0611,  
13.2687

 42.8540, 31.2627,  
20.2992

■ 47.3935, 37.9057,  
29.3221

■ 52.9895, 46.0860,  
40.4726

■ 59.7028, 55.8913,  
53.8741

■ 67.5893, 67.4027,  
69.6406

# Harmonies

## Analogous

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



39.7358, 17.2209, 11.3850



33.3113, 17.2209, 1.5683



22.9293, 17.2209, 0.0000

# Triad

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



33.3113, 17.2209, 1.5683



4.9550, 17.2209, 6.5062



19.5655, 17.2209, 120.6523

# Complementary

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



33.3113, 17.2209, 1.5683



42.5699, 61.8352, 86.0351

# 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.



11.1955, 17.2209, 113.2942



33.3113, 17.2209, 1.5683



4.6209, 17.2209, 28.7573

# Square

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



33.3113, 17.2209, 1.5683



7.6170, 17.2209, 0.6529



6.4394, 17.2209, 71.5520



30.0938, 17.2209, 87.0405



# Rectangle

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



33.3113, 17.2209, 1.5683



16.3374, 17.2209, 0.0000



6.4394, 17.2209, 71.5520



16.3985, 17.2209, 123.3066

# Sweetspot

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



33.3117, 17.2220, 1.5685



65.5480, 56.9381, 49.9186



47.8439, 22.9819, 78.2577



13.3676, 11.2190, 9.3640



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.



33.3117, 17.2220, 1.5685



41.2764, 21.3328, 1.9421



39.5240, 29.6467, 3.6393



14.3921, 14.3982, 14.9250



18.5005, 9.5752, 0.8731



1.3725, 0.7184, 0.0663



# Inverse Universe

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



42.5699, 61.8352, 86.0351



52.7489, 76.6177, 106.6163



20.8109, 18.3171, 78.7821



14.7904, 16.3021, 18.5114



23.6412, 34.3445, 47.7663



1.7523, 2.5484, 3.5315



# Previews

## White Background



This preview shows how the XYZ color 33.3113, 17.2209, 1.5683 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 33.3113, 17.2209, 1.5683**

## **Background**



This preview shows how black text looks on a background with the XYZ color 33.3113, 17.2209, 1.5683.



This preview shows how white text looks on a background with the XYZ color 33.3113, 17.2209,

1.5683.

# 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

33.3113, 17.2209, 1.5683

### Protanopia

15.9557, 17.6416, 3.7925

### Deuteranopia

17.7171, 17.5719, 2.4579



## Tritanopia

32.9013, 17.3593, 1.6166

# Trichromacy



## Original Color

33.3113, 17.2209, 1.5683

## Protanomaly

18.8504, 13.5407, 2.2362

## Deuteranomaly

20.6775, 14.0997, 1.6317

## Tritanomaly

33.1120, 17.3030, 1.5946

# Monochromacy



## Original Color

33.3113, 17.2209, 1.5683

## Achromatopsia

5.9891, 6.3010, 6.8618

## Achromatomaly

10.6566, 6.8893, 3.2507

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 33.3113, 17.2209, 1.5683 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(232, 3, 0)` looks like.

```
.text, #text, p{  
    color:rgb(232, 3, 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(232, 3, 0) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(232, 3, 0) }
```

## Border

The CSS property to change the border of an element to XYZ 33.3113, 17.2209, 1.5683 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(232, 3, 0) }
```



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

```
.border{ border-color:rgb(232, 3, 0) }
```

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

Here you see how a box with a 4 pixel `rgb(232, 3, 0)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(232, 3, 0); -webkit-box-shadow:4px  
4px 4px 4px rgb(232, 3, 0); box-shadow:4px  
4px 4px 4px rgb(232, 3, 0) }
```

# Background

The CSS property to change the background color of an element to XYZ 33.3113, 17.2209, 1.5683 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(232, 3, 0) }
```

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

```
.background{ background-color: rgb(232, 3,  
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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