

# Converting Colors

XYZ(33.2999, 17.1742, 1.5598)

Have a look what the booklet for  
XYZ(33.2999, 17.1742, 1.5598)  
contains.

<b>XYZ(33.2896, 17.1775, 1.5610)</b> .....	3
<b><i>Conversions</i></b> .....	4
<b><i>Details</i></b> .....	6
<b><i>Harmonies</i></b> .....	12
<b><i>Previews</i></b> .....	24
<b><i>Color Blindness Simulation</i></b> .....	28
<b><i>CSS Examples</i></b> .....	30

# Color

**XYZ(33.2896, 17.1775,  
1.5610)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	E80100
RGB	232, 1, 0
RGB Percent	91%, 0%, 0%
CMY	0.0902, 0.9959, 1.0000
CMYK	0.00, 1.00, 1.00, 0.09
HSL	0°, 100%, 45%
HSV	0°, 100%, 91%
XYZ	33.2896, 17.1775, 1.5610
YIQ	69.9550, 137.9970, 48.6610

# Conversions

## Conversions Part 2

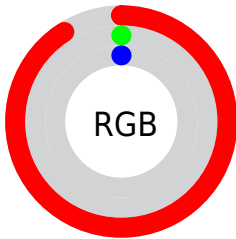
<b>Format</b>	<b>Color</b>
<b>RYB</b>	232, 1, 0
Decimal	15204608
CIELab	48.48, 74.50, 62.59
CIElCh	48, 97.306, 40.034
Yxy	17.1775, 0.6398, 0.3302
Android (android.graphics.Color)	4293394688 (0xFFE80100)
YUV	69.9550, -34.4878, 142.1135
Hunter-Lab	41.4457, 70.8428, 26.7789

# Details

The XYZ color **33.2896, 17.1775, 1.5610** 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 **43.1255, 62.9465, 86.2204**, and the grayscale version is **5.8585, 6.1636, 6.7122**.

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 **33.2900, 17.1786, 1.5612**, and if you desaturate by 10%, it is **33.7649, 17.8778, 2.4923**.

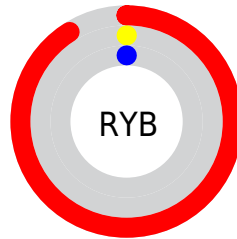
# Distribution



Red (91%)

Green (0%)

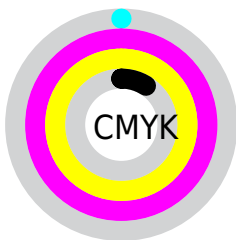
Blue (0%)



Red (91%)

Yellow (0%)

Blue (0%)

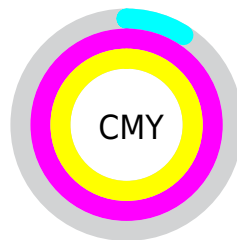


Cyan (0%)

Magenta (100%)

Yellow (100%)

Black (9%)



Cyan (9%)

Magenta (100%)


Yellow (100%)


# Brightness & Saturation Gradients


These gradients show how the XYZ color 33.2896, 17.1775, 1.5610 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 33.2896, 17.1775, 1.5610 by changing the saturation by 10% instead.





 33.2896, 17.1775,  
1.5610


 33.2896, 17.1775,  
1.5610

 308.5946,  
236.1932, 115.1374


 22.5087, 10.3611,  
0.2628


 64.1791, 38.6307,  
7.8016


 14.3498, 5.6390,  
0.0000


 85.0183, 54.0363,  
13.7374

 8.4477, 2.6269,  
0.0000


 109.9411, 73.0738,  
22.1083

 4.4369, 0.9402,  
0.0000

 139.3127, 96.1276,  
33.3327

 1.9522, 0.0000,  
0.0000

 173.4985,  
123.5820, 47.8293

 0.6069, 0.0000,  
0.0000


 212.8638,


 0.0000, 0.0000,


155.8215, 66.0166


0.0000


 257.7741,  
193.2304, 88.3132


 33.2896, 17.1775,  
1.5610


 33.2896, 17.1775,  
1.5610


 33.2900, 17.1786,  
1.5612

 33.7649, 17.8778,  
2.4923

 34.8059, 19.4087,  
4.5381

 36.5828, 22.0157,  
8.0497

 39.1979, 25.8474,  
13.2326

 42.7372, 31.0294,  
20.2597

■ 47.2762, 37.6715,  
29.2822

■ 52.8825, 45.8723,  
40.4359

■ 59.6179, 55.7219,  
53.8446

■ 67.5395, 67.3035,  
69.6226

# Harmonies

## Analogous

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



39.7018, 17.1775, 11.3853



33.2896, 17.1775, 1.5610



22.9097, 17.1775, 0.0000

# Triad

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



33.2896, 17.1775, 1.5610



4.9314, 17.1775, 6.4468



19.5004, 17.1775, 120.7113

# Complementary

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



33.2896, 17.1775, 1.5610



43.1255, 62.9465, 86.2204

# 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.



11.1436, 17.1775, 113.2431



33.2896, 17.1775, 1.5610



4.5935, 17.1775, 28.6312

# Square

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



33.2896, 17.1775, 1.5610



7.5941, 17.1775, 0.6354



6.4024, 17.1775, 71.4145



30.0271, 17.1775, 87.1303



# Rectangle

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



33.2896, 17.1775, 1.5610



16.3164, 17.1775, 0.0000



6.4024, 17.1775, 71.4145



16.3370, 17.1775, 123.3340

# Sweetspot

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



33.2900, 17.1786, 1.5612



65.4159, 56.6738, 49.8745



47.8439, 22.9819, 78.2577



13.3378, 11.1594, 9.3541



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.



33.2900, 17.1786, 1.5612



41.2526, 21.2852, 1.9342



39.5239, 29.6464, 3.6392



14.3823, 14.3784, 14.9217



18.4839, 9.5419, 0.8676



1.3678, 0.7088, 0.0647



# Inverse Universe

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



43.1255, 62.9465, 86.2204



53.4409, 78.0019, 106.8470



20.8107, 18.3169, 78.7821



14.8016, 16.3246, 18.5152



23.9445, 34.9512, 47.8674



1.7713, 2.5864, 3.5378



# Previews

## White Background



This preview shows how the XYZ color 33.2896, 17.1775, 1.5610 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 33.2896, 17.1775, 1.5610 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 33.2896, 17.1775, 1.5610**

## **Background**



This preview shows how black text looks on a background with the XYZ color 33.2896, 17.1775, 1.5610.



This preview shows how white text looks on a background with the XYZ color 33.2896, 17.1775,



# 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

33.2896, 17.1775, 1.5610

### Protanopia

15.9557, 17.6416, 3.7925

### Deuteranopia

17.7171, 17.5719, 2.4579

# Trichromacy



## Original Color

33.2896, 17.1775, 1.5610

## Protanomaly

18.7821, 13.4040, 2.2134

## Deuteranomaly

20.6133, 13.9715, 1.6103

# Monochromacy



## Original Color

33.2896, 17.1775, 1.5610

## Achromatopsia

5.8214, 6.1246, 6.6697

## Achromatomaly

10.4653, 6.7334, 3.2307

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 33.2896, 17.1775, 1.5610 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, 1, 0)` looks like.

```
.text, #text, p{  
    color:rgb(232, 1, 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, 1, 0) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(232, 1, 0) }
```

## Border

The CSS property to change the border of an element to XYZ 33.2896, 17.1775, 1.5610 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, 1, 0) }
```

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

```
.border{ border-color:rgb(232, 1, 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, 1, 0)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(232, 1, 0); -webkit-box-shadow:4px  
4px 4px 4px rgb(232, 1, 0); box-shadow:4px  
4px 4px 4px rgb(232, 1, 0) }
```



# Background

The CSS property to change the background color of an element to XYZ 33.2896, 17.1775, 1.5610 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(232, 1, 0) }
```

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

```
.background{ background-color: rgb(232, 1,  
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](#).

Hey! You found this booklet interesting? Support Converting Colors with the new Membership Option!

The pro membership hides all ads, plus gives you double the colors in the color bucket, and more awesome pro features!

**[Learn more, Memberships starting at \\$2.50/m!](#)**

**Follow me  
on Twitter!**

**@ConvertingColor**