

Converting Colors

XYZ(33.6413, 17.2078, 7.6727)

Have a look what the booklet for
XYZ(33.6413, 17.2078, 7.6727)
contains.

XYZ(33.4828, 17.1259, 7.6718)	3
<i>Conversions</i>	4
<i>Details</i>	6
<i>Harmonies</i>	12
<i>Previews</i>	24
<i>Color Blindness Simulation</i>	28
<i>CSS Examples</i>	31

Color

**XYZ(33.4828, 17.1259,
7.6718)**

Conversions

Conversions Part 1

Format	Color
Hex	E50048
RGB	229, 0, 72
RGB Percent	90%, 0%, 28%
CMY	0.1020, 0.9998, 0.7176
CMYK	0.00, 1.00, 0.69, 0.10
HSL	341°, 100%, 45%
HSV	341°, 100%, 90%
XYZ	33.4828, 17.1259, 7.6718
YIQ	76.6790, 113.3720, 70.9400

Conversions

Conversions Part 2

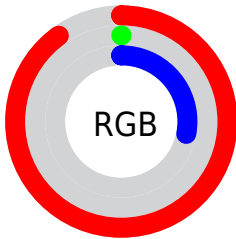
Format	Color
RYB	229, 0, 72
Decimal	15007816
CIELab	48.42, 75.46, 28.46
CIElCh	48, 80.651, 20.664
Yxy	17.1259, 0.5745, 0.2939
Android (android.graphics.Color)	4293197896 (0xFFE50048)
YUV	76.6790, -2.3067, 133.5855
Hunter-Lab	41.3835, 72.0009, 17.9770

Details

The XYZ color **33.4828, 17.1259, 7.6718** is a dark color, and the websafe version is hex **CC0033**. The color can be described as dark washed red. A complement of this color would be **34.1102, 58.4748, 41.4112**, and the grayscale version is **6.9895, 7.3535, 8.0079**.

A 20% lighter version of the original color is **48.4573, 30.2704, 21.0581**, and **15.7514, 8.0931, 1.9602** is the 20% darker color. If you saturate the color by 10%, you get **33.4814, 17.1253, 7.6654**, and if you desaturate by 10%, it is **34.3676, 17.9686, 10.8253**.

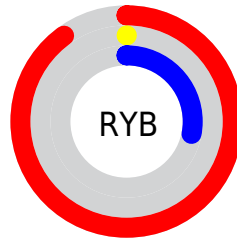
Distribution



Red (90%)

Green (0%)

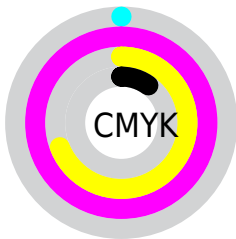
Blue (28%)



Red (90%)

Yellow (0%)

Blue (28%)

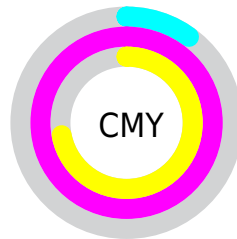


Cyan (0%)

Magenta (100%)

Yellow (69%)

Black (10%)



Cyan (10%)


Magenta (100%)


Yellow (72%)

Brightness & Saturation Gradients


These gradients show how the XYZ color 33.4828, 17.1259, 7.6718 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 33.4828, 17.1259, 7.6718 by changing the saturation by 10% instead.

 33.4828, 17.1259,
7.6718


 33.4828, 17.1259,
7.6718


309.4463,
235.8969, 182.9720


 22.6576, 10.3243,
3.8009


 64.4782, 38.5421,
21.8479


 14.4602, 5.6145,
1.5168


 85.3791, 53.9255,
32.9903

 8.5252, 2.6121,
0.2304


 110.3693, 72.9383,
47.3935

 4.4874, 0.9328,
0.0000

 139.8140, 95.9649,
65.4762

 1.9814, 0.0000,
0.0000

 174.0787,
123.3896, 87.6568

 0.6235, 0.0000,
0.0000

 213.5288,

 0.0000, 0.0000,

155.5969, 114.3540

0.0000

258.5296,
192.9712, 145.9862

■ 33.4828, 17.1259,
7.6718

■ 33.4828, 17.1259,
7.6718

■ 33.4814, 17.1253,
7.6654

■ 34.3676, 17.9686,
10.8253

■ 35.7529, 19.5880,
14.8360

■ 37.7624, 22.2186,
19.7862

■ 40.4703, 25.9965,
25.7382

■ 43.9398, 31.0367,
32.7484

■ 48.2266, 37.4400,
40.8682

■ 53.3810, 45.2968,
50.1455

■ 59.4492, 54.6899,
60.6252

■ 66.4739, 65.6958,
72.3497

Harmonies

Analogous

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



34.6685, 17.1259, 26.0439



33.4828, 17.1259, 7.6718



27.0254, 17.1259, 1.5708

Triad

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



33.4828, 17.1259, 7.6718



7.5871, 17.1259, 2.9316



14.0834, 17.1259, 94.3126

Complementary

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



33.4828, 17.1259, 7.6718



34.1102, 58.4748, 41.4112

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.



8.8406, 17.1259, 71.0154



33.4828, 17.1259, 7.6718



5.9097, 17.1259, 12.8031

Square

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



33.4828, 17.1259, 7.6718



11.7678, 17.1259, 0.5605



6.2862, 17.1259, 36.9692



21.8136, 17.1259, 88.3290

Rectangle

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



33.4828, 17.1259, 7.6718



21.4403, 17.1259, 0.5158



6.2862, 17.1259, 36.9692



12.0184, 17.1259, 89.2403

Sweetspot

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



33.4832, 17.1270, 7.6720



67.9848, 57.5900, 63.7458



27.9507, 12.7762, 75.1212



13.9267, 11.3699, 12.5327



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.



33.4832, 17.1270, 7.6720



42.6929, 21.8412, 9.5809



33.1421, 18.3159, 1.7901



14.5626, 14.4422, 15.8972



19.1911, 9.8107, 4.6356



1.4590, 0.7413, 0.5574

Inverse Universe

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



33.4832, 17.1270, 7.6720



42.6929, 21.8412, 9.5809



31.9193, 41.2092, 80.4001



14.5626, 14.4422, 15.8972



19.1911, 9.8107, 4.6356



1.4590, 0.7413, 0.5574

Previews

White Background



This preview shows how the XYZ color 33.4828, 17.1259, 7.6718 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 33.4828, 17.1259, 7.6718 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 33.4828, 17.1259, 7.6718

Background



This preview shows how black text looks on a background with the XYZ color 33.4828, 17.1259, 7.6718.

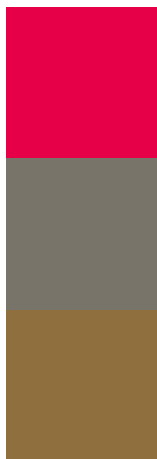


This preview shows how white text looks on a background with the XYZ color 33.4828, 17.1259,

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

33.4828, 17.1259, 7.6718

Protanopia

16.7321, 17.5963, 16.1502

Deuteranopia

17.8544, 17.5454, 6.8605



Tritanopia

32.5991, 17.4387, 2.5120

Trichromacy



Original Color

33.4828, 17.1259, 7.6718



Protanomaly

18.9664, 13.1793, 12.1339



Deuteranomaly

20.6629, 13.8868, 6.5924



Tritanomaly

32.6115, 17.0867, 3.6771

Monochromacy



Original Color

33.4828, 17.1259, 7.6718



Achromatopsia

7.0540, 7.4214, 8.0819



Achromatomaly

11.8840, 7.6102, 7.4992

CSS Examples

Text

The CSS property to change the color of the text to XYZ 33.4828, 17.1259, 7.6718 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(229, 0, 72)` looks like.

```
.text, #text, p{  
    color:rgb(229, 0, 72)  
}
```

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(229, 0, 72) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(229, 0, 72) }
```

Border

The CSS property to change the border of an element to XYZ 33.4828, 17.1259, 7.6718 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(229, 0, 72) }
```


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

```
.border{ border-color:rgb(229, 0, 72) }
```

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

Here you see how a box with a 4 pixel `rgb(229, 0, 72)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(229, 0, 72); -webkit-box-  
shadow:4px 4px 4px 4px rgb(229, 0, 72);  
box-shadow:4px 4px 4px 4px rgb(229, 0, 72)  
}
```

Background

The CSS property to change the background color of an element to XYZ 33.4828, 17.1259, 7.6718 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(229, 0, 72) }
```

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

```
.background{ background-color: rgb(229, 0,  
72) }
```

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