

# Converting Colors

XYZ(33.6169, 17.1980, 7.5442)

Have a look what the booklet for  
XYZ(33.6169, 17.1980, 7.5442)  
contains.

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# Color

**XYZ(33.4504, 17.1129,  
7.5013)**

# Conversions

## Conversions Part 1

Format	Color
Hex	E50047
RGB	229, 0, 71
RGB Percent	90%, 0%, 28%
CMY	0.1020, 0.9998, 0.7216
CMYK	0.00, 1.00, 0.69, 0.10
HSL	341°, 100%, 45%
HSV	341°, 100%, 90%
XYZ	33.4504, 17.1129, 7.5013
YIQ	76.5650, 113.6930, 70.6290

# Conversions

## Conversions Part 2

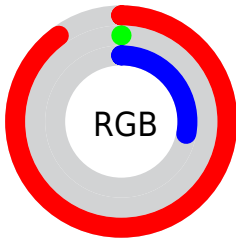
<b>Format</b>	<b>Color</b>
<b>RYB</b>	229, 0, 71
Decimal	15007815
CIELab	48.40, 75.42, 29.05
CIELCh	48, 80.819, 21.065
Yxy	17.1129, 0.5761, 0.2947
Android (android.graphics.Color)	4293197895 (0xFFE50047)
YUV	76.5650, -2.7435, 133.6855
Hunter-Lab	41.3677, 71.9435, 18.2062

# Details

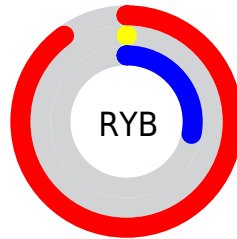
The XYZ color **33.4504, 17.1129, 7.5013** is a dark color, and the websafe version is hex **CC0033**. The color can be described as dark washed red. A complement of this color would be **34.1958, 58.5090, 41.8621**, and the grayscale version is **6.9689, 7.3318, 7.9843**.

A 20% lighter version of the original color is **48.3969, 30.2462, 20.7401**, and **15.7388, 8.0880, 1.8940** is the 20% darker color. If you saturate the color by 10%, you get **33.4491, 17.1124, 7.4952**, and if you desaturate by 10%, it is **34.3306, 17.9537, 10.6308**.

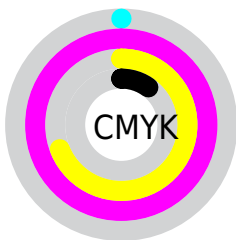
# Distribution



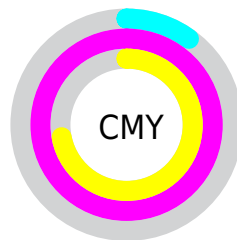
- Red (90%)
- Green (0%)
- Blue (28%)



- 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 33.4504, 17.1129, 7.5013 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 33.4504, 17.1129, 7.5013 by changing the saturation by 10% instead.




 33.4504, 17.1129,  
7.5013


 33.4504, 17.1129,  
7.5013

309.3036,  
235.8222, 181.5524


 22.6326, 10.3150,  
3.6944


 64.4281, 38.5198,  
21.5046

 14.4416, 5.6083,  
1.4592


 85.3186, 53.8976,  
32.5381


 8.5122, 2.6084,  
0.1873


 110.2975, 72.9041,  
46.8175

 4.4790, 0.9309,  
0.0000

 139.7300, 95.9239,  
64.7614

 1.9765, 0.0000,  
0.0000

 173.9815,  
123.3411, 86.7883

 0.6207, 0.0000,  
0.0000

 213.4174,

 0.0000, 0.0000,

155.5403, 113.3167

0.0000

258.4030,  
192.9059, 144.7653

■ 33.4504, 17.1129,  
7.5013

■ 33.4504, 17.1129,  
7.5013

■ 33.4491, 17.1124,  
7.4952

■ 34.3306, 17.9537,  
10.6308

■ 35.7126, 19.5718,  
14.6243

■ 37.7203, 22.2015,  
19.5650

■ 40.4280, 25.9793,  
25.5164

■ 43.8991, 31.0200,  
32.5354

■ 48.1895, 37.4246,  
40.6743

■ 53.3496, 45.2836,  
49.9818

■ 59.4256, 54.6797,  
60.5032

■ 66.4605, 65.6895,  
72.2818

# Harmonies

## Analogous

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



34.7228, 17.1129, 25.6933



33.4504, 17.1129, 7.5013



26.9263, 17.1129, 1.5214

# Triad

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



33.4504, 17.1129, 7.5013



7.5283, 17.1129, 2.9764



14.1571, 17.1129, 94.6518

# Complementary

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



33.4504, 17.1129, 7.5013



34.1958, 58.5090, 41.8621

# 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.



8.8713, 17.1129, 71.5815



33.4504, 17.1129, 7.5013



5.8805, 17.1129, 13.0014

# Square

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



33.4504, 17.1129, 7.5013



11.6748, 17.1129, 0.5616



6.2837, 17.1129, 37.4164



21.9245, 17.1129, 88.2271



# Rectangle

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



33.4504, 17.1129, 7.5013



21.3244, 17.1129, 0.4898



6.2837, 17.1129, 37.4164



12.0772, 17.1129, 89.6940

# Sweetspot

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



33.4508, 17.1140, 7.5015



67.9452, 57.5742, 63.5372



27.9505, 12.7761, 75.1211



13.9175, 11.3662, 12.4842



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.



33.4508, 17.1140, 7.5015



42.6521, 21.8248, 9.3658



33.1421, 18.3158, 1.7900



14.5600, 14.4412, 15.8834



19.1722, 9.8031, 4.5358



1.4573, 0.7406, 0.5487



# Inverse Universe

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



33.4508, 17.1140, 7.5015



42.6521, 21.8248, 9.3658



31.9192, 41.2090, 80.4001



14.5600, 14.4412, 15.8834



19.1722, 9.8031, 4.5358



1.4573, 0.7406, 0.5487



# Previews

## White Background



This preview shows how the XYZ color 33.4504, 17.1129, 7.5013 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 33.4504, 17.1129, 7.5013**

## **Background**



This preview shows how black text looks on a background with the XYZ color 33.4504, 17.1129, 7.5013.



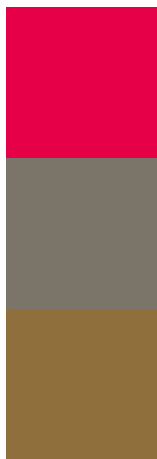
This preview shows how white text looks on a background with the XYZ color 33.4504, 17.1129,



# 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

33.4504, 17.1129, 7.5013

### Protanopia

16.8212, 17.6483, 15.8845

### Deuteranopia

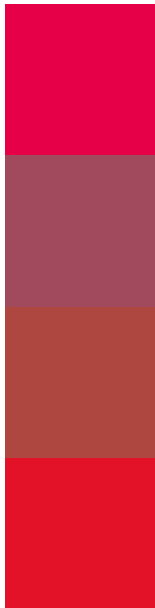
17.8277, 17.5348, 6.7199



## Tritanopia

32.5991, 17.4387, 2.5120

# Trichromacy



## Original Color

33.4504, 17.1129, 7.5013

## Protanomaly

19.1225, 13.2649, 11.9084

## Deuteranomaly

20.6342, 13.8753, 6.4411

## Tritanomaly

32.6115, 17.0867, 3.6771

# Monochromacy



## Original Color

33.4504, 17.1129, 7.5013

## 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 33.4504, 17.1129, 7.5013 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, 71)` looks like.

```
.text, #text, p{  
    color:rgb(229, 0, 71)  
}
```

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, 71) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(229, 0, 71) }
```

## Border

The CSS property to change the border of an element to XYZ 33.4504, 17.1129, 7.5013 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, 71) }
```



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

```
.border{ border-color:rgb(229, 0, 71) }
```

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, 71) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(229, 0, 71); -webkit-box-  
shadow:4px 4px 4px 4px rgb(229, 0, 71);  
box-shadow:4px 4px 4px 4px rgb(229, 0, 71)  
}
```

# Background

The CSS property to change the background color of an element to XYZ 33.4504, 17.1129, 7.5013 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, 71) }
```

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

```
.background{ background-color: rgb(229, 0,  
71) }
```

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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