

# Converting Colors

XYZ(33.7159, 17.1440, 12.2933)

Have a look what the booklet for  
XYZ(33.7159, 17.1440, 12.2933)  
contains.

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# Color

**XYZ(33.7441, 17.1571,  
12.3596)**

# Conversions

## Conversions Part 1

Format	Color
Hex	E3005F
RGB	227, 0, 95
RGB Percent	89%, 0%, 37%
CMY	0.1098, 0.9998, 0.6275
CMYK	0.00, 1.00, 0.58, 0.11
HSL	335°, 100%, 45%
HSV	335°, 100%, 89%
XYZ	33.7441, 17.1571, 12.3596
YIQ	78.7030, 104.7970, 77.6690

# Conversions

## Conversions Part 2

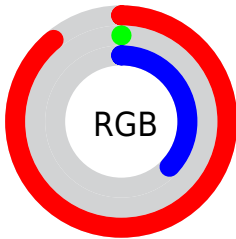
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	227, 0, 95
Decimal	14876767
CIE <sub>Lab</sub>	48.46, 76.21, 14.30
CIE <sub>LCh</sub>	48, 77.539, 10.624
Yxy	17.1571, 0.5334, 0.2712
Android (android.graphics.Color)	4293066847 (0xFFE3005F)
YUV	78.7030, 8.0344, 130.0565
Hunter-Lab	41.4211, 72.9297, 11.3033

# Details

The XYZ color **33.7441, 17.1571, 12.3596** is a dark color, and the websafe version is hex **FF0066**. The color can be described as dark washed red. A complement of this color would be **31.6379, 56.6056, 31.1064**, and the grayscale version is **7.3515, 7.7343, 8.4227**.

A 20% lighter version of the original color is **50.1780, 30.9586, 30.1190**, and **15.8856, 8.1228, 3.7482** is the 20% darker color. If you saturate the color by 10%, you get **33.7426, 17.1565, 12.3525**, and if you desaturate by 10%, it is **34.6975, 18.0208, 15.8937**.

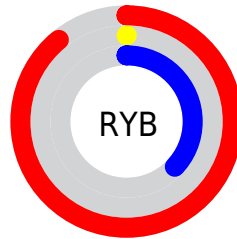
# Distribution



Red (89%)

Green (0%)

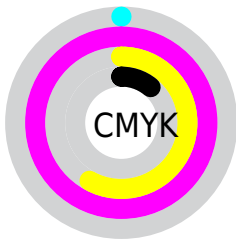
Blue (37%)



Red (89%)

Yellow (0%)

Blue (37%)

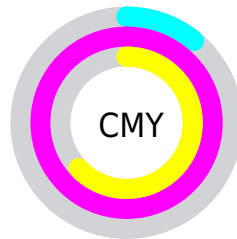


Cyan (0%)

Magenta (100%)

Yellow (58%)

Black (11%)



Cyan (11%)

Magenta (100%)

Yellow (63%)

# Brightness & Saturation Gradients

These gradients show how the XYZ color 33.7441, 17.1571, 12.3596 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 33.7441, 17.1571, 12.3596 by changing the saturation by 10% instead.





 33.7441, 17.1571,  
12.3596


 33.7441, 17.1571,  
12.3596


310.5955,  
236.0761, 217.8333

 22.8590, 10.3466,  
6.8636


 64.8825, 38.5957,  
30.8225


 14.6096, 5.6293,  
3.2998


 85.8665, 53.9925,  
44.6265


 8.6304, 2.6210,  
1.2497


 110.9475, 73.0203,  
62.0368

 4.5560, 0.9373,  
0.0200

 140.4909, 96.0633,  
83.4721

 2.0213, 0.0000,  
0.0000

 174.8621,  
123.5060, 109.3508

 0.6459, 0.0000,  
0.0000

 214.4263,

 0.0000, 0.0000,

155.7327, 140.0916

0.0000

259.5490,  
193.1280, 176.1129

■ 33.7441, 17.1571,  
12.3596

■ 33.7441, 17.1571,  
12.3596

■ 33.7426, 17.1565,  
12.3525

■ 34.6975, 18.0208,  
15.8937

■ 36.1102, 19.6327,  
20.1062

■ 38.1003, 22.2216,  
25.0587

■ 40.7372, 25.9197,  
30.7949

■ 44.0795, 30.8381,  
37.3541

■ 48.1792, 37.0744,  
44.7725

■ 53.0828, 44.7161,  
53.0834

■ 58.8333, 53.8432,  
62.3183

■ 65.4702, 64.5296,  
72.5069

# Harmonies

## Analogous

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



32.8760, 17.1571, 34.8883



33.7441, 17.1571, 12.3596



29.0203, 17.1571, 3.0361

# Triad

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



33.7441, 17.1571, 12.3596



8.9352, 17.1571, 1.9450



12.1841, 17.1571, 85.1748

# Complementary

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



33.7441, 17.1571, 12.3596



31.6379, 56.6056, 31.1064

# 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.



7.9846, 17.1571, 57.4573



33.7441, 17.1571, 12.3596



6.5207, 17.1571, 8.4797

# Square

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



33.7441, 17.1571, 12.3596



13.9174, 17.1571, 0.5130



6.2324, 17.1571, 26.8574



18.9563, 17.1571, 89.4920



# Rectangle

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



33.7441, 17.1571, 12.3596



23.9635, 17.1571, 1.1253



6.2324, 17.1571, 26.8574



10.4849, 17.1571, 77.6717

# Sweetspot

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



33.7445, 17.1582, 12.3598



68.9560, 57.9785, 68.8601



22.8666, 10.1873, 73.4338



14.1536, 11.4607, 13.7276



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.



33.7445, 17.1582, 12.3598



43.8773, 22.3149, 15.8178



31.8521, 16.6777, 1.5418



14.6259, 14.4675, 16.2302



19.7341, 10.0279, 7.4947



1.5037, 0.7592, 0.7932



# Inverse Universe

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



33.7445, 17.1582, 12.3598



43.8773, 22.3149, 15.8178



37.3766, 52.5682, 80.8494



14.6259, 14.4675, 16.2302



19.7341, 10.0279, 7.4947



1.5037, 0.7592, 0.7932



# Previews

## White Background



This preview shows how the XYZ color 33.7441, 17.1571, 12.3596 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 33.7441, 17.1571, 12.3596 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 33.7441, 17.1571, 12.3596**

## **Background**



This preview shows how black text looks on a background with the XYZ color 33.7441, 17.1571, 12.3596.



This preview shows how white text looks on a background with the XYZ color 33.7441, 17.1571,



# 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

33.7441, 17.1571, 12.3596

### Protanopia

17.5149, 17.7705, 26.5517

### Deuteranopia

17.9151, 17.6475, 11.0564



## Tritanopia

32.0629, 17.5212, 3.3611

# Trichromacy



## Original Color

33.7441, 17.1571, 12.3596



## Protanomaly

19.2881, 13.1727, 19.9384



## Deuteranomaly

20.6340, 13.7738, 11.0223



## Tritanomaly

32.4292, 17.1174, 5.4657

# Monochromacy



## Original Color

33.7441, 17.1571, 12.3596



## Achromatopsia

7.4317, 7.8187, 8.5146



## Achromatomaly

12.4532, 7.9236, 9.4674

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 33.7441, 17.1571, 12.3596 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, 0, 95)` looks like.

```
.text, #text, p{  
    color:rgb(227, 0, 95)  
}
```

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, 0, 95) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(227, 0, 95) }
```

## Border

The CSS property to change the border of an element to XYZ 33.7441, 17.1571, 12.3596 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, 0, 95) }
```



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

```
.border{ border-color:rgb(227, 0, 95) }
```

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

Here you see how a box with a 4 pixel `rgb(227, 0, 95)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(227, 0, 95); -webkit-box-  
shadow:4px 4px 4px 4px rgb(227, 0, 95);  
box-shadow:4px 4px 4px 4px rgb(227, 0, 95)  
}
```

# Background

The CSS property to change the background color of an element to XYZ 33.7441, 17.1571, 12.3596 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(227, 0, 95) }
```

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

```
.background{ background-color: rgb(227, 0,  
95) }
```

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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