

# Converting Colors

XYZ(32.8048, 16.8732, 3.2676)

Have a look what the booklet for  
XYZ(32.8048, 16.8732, 3.2676)  
contains.

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# Color

**XYZ(32.6470, 16.7916,  
3.2707)**

# Conversions

## Conversions Part 1

Format	Color
Hex	E50025
RGB	229, 0, 37
RGB Percent	90%, 0%, 15%
CMY	0.1020, 0.9998, 0.8549
CMYK	0.00, 1.00, 0.84, 0.10
HSL	350°, 100%, 45%
HSV	350°, 100%, 90%
XYZ	32.6470, 16.7916, 3.2707
YIQ	72.6890, 124.6070, 60.0550

# Conversions

## Conversions Part 2

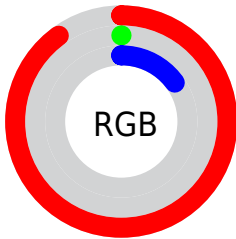
Format	Color
<a href="#">RYB</a>	<a href="#">229, 0, 37</a>
Decimal	<a href="#">15007781</a>
CIELab	<a href="#">48.00, 74.32, 48.17</a>
CIElCh	<a href="#">48, 88.562, 32.948</a>
Yxy	<a href="#">16.7916, 0.6194, 0.3186</a>
Android (android.graphics.Color)	<a href="#">4293197861 (0xFFE50025)</a>
YUV	<a href="#">72.6890, -17.5947, 137.0847</a>
Hunter-Lab	<a href="#">40.9776, 70.5010, 23.9519</a>

# Details

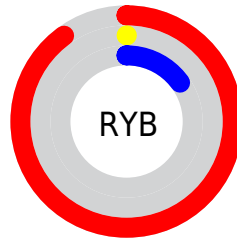
The XYZ color **32.6470, 16.7916, 3.2707** is a dark color, and the websafe version is hex **FF3333**. The color can be described as dark washed red. A complement of this color would be **37.5404, 59.8467, 59.4745**, and the grayscale version is **6.2985, 6.6266, 7.2163**.

A 20% lighter version of the original color is **46.5813, 29.3823, 11.6037**, and **15.3098, 7.8925, 0.7165** is the 20% darker color. If you saturate the color by 10%, you get **32.6460, 16.7911, 3.2667**, and if you desaturate by 10%, it is **33.3372, 17.5565, 5.3994**.

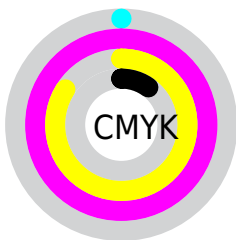
# Distribution



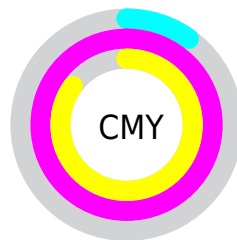
- Red (90%)
- Green (0%)
- Blue (15%)



- Red (90%)
- Yellow (0%)
- Blue (15%)



- Cyan (0%)
- Magenta (100%)
- Yellow (84%)
- Black (10%)




- Cyan (10%)
- Magenta (100%)
- Yellow (85%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 32.6470, 16.7916, 3.2707 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 32.6470, 16.7916, 3.2707 by changing the saturation by 10% instead.





 32.6470, 16.7916,  
3.2707


 32.6470, 16.7916,  
3.2707


305.7493,  
233.9686, 139.7370


 22.0141, 10.0860,  
1.2345


 63.1824, 37.9671,  
12.2894


 13.9839, 5.4560,  
0.0072


 83.8156, 53.2058,  
20.1090


 8.1911, 2.5172,  
0.0000


 108.5129, 72.0577,  
30.6934

 4.2703, 0.8852,  
0.0000

 137.6398, 94.9072,  
44.4611

 1.8562, 0.0000,  
0.0000

 171.5615,  
122.1386, 61.8309


 0.5512, 0.0000,  
0.0000


 210.6434,


 0.0000, 0.0000,


154.1364, 83.2211


0.0000


 255.2509,  
191.2849, 109.0503


 32.6470, 16.7916,  
3.2707


 32.6470, 16.7916,  
3.2707


 32.6460, 16.7911,  
3.2667

 33.3372, 17.5565,  
5.3994

 34.5683, 19.1143,  
8.5979

 36.4741, 21.7035,  
13.0016

 39.1373, 25.4636,  
18.7179

 42.6284, 30.5126,  
25.8417

■ 47.0098, 36.9538,  
34.4591

■ 52.3376, 44.8801,  
44.6492

■ 58.6634, 54.3764,  
56.4853

■ 66.0350, 65.5211,  
70.0363

# Harmonies

## Analogous

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



36.7599, 16.7916, 16.1110



32.6470, 16.7916, 3.2707



24.0215, 16.7916, 0.2712

# Triad

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



32.6470, 16.7916, 3.2707



5.8110, 16.7916, 4.6806



16.7637, 16.7916, 106.9077

# Complementary

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



32.6470, 16.7916, 3.2707



37.5404, 59.8467, 59.4745

# 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.



9.9399, 16.7916, 92.1961



32.6470, 16.7916, 3.2707



5.0044, 16.7916, 20.6424

# Square

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



32.6470, 16.7916, 3.2707



8.9743, 16.7916, 0.5897



6.2236, 16.7916, 54.2008



25.8654, 16.7916, 85.6963



# Rectangle

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



32.6470, 16.7916, 3.2707



17.9224, 16.7916, 0.0000



6.2236, 16.7916, 54.2008



14.1462, 16.7916, 106.0185

# Sweetspot

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



32.6474, 16.7927, 3.2709



66.6469, 57.0549, 56.7006



35.5895, 16.7142, 75.4784



13.6177, 11.2463, 10.9057



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.



32.6474, 16.7927, 3.2709



41.6428, 21.4211, 4.0513



34.9232, 21.8782, 2.3839



14.4714, 14.4057, 15.4166



18.6944, 9.6120, 2.0197



1.4103, 0.7218, 0.3013



# Inverse Universe

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



32.6474, 16.7927, 3.2709



41.6428, 21.4211, 4.0513



25.4832, 28.3370, 78.2545



14.4714, 14.4057, 15.4166



18.6944, 9.6120, 2.0197



1.4103, 0.7218, 0.3013



# Previews

## White Background



This preview shows how the XYZ color 32.6470, 16.7916, 3.2707 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 32.6470, 16.7916, 3.2707 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 32.6470, 16.7916, 3.2707**

## **Background**



This preview shows how black text looks on a background with the XYZ color 32.6470, 16.7916, 3.2707.



This preview shows how white text looks on a background with the XYZ color 32.6470, 16.7916,



# 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

32.6470, 16.7916, 3.2707

### Protanopia

15.9631, 17.4062, 6.7934

### Deuteranopia

17.4738, 17.2804, 2.6442

# Trichromacy



## Original Color

32.6470, 16.7916, 3.2707

## Protanomaly

18.5857, 13.1448, 4.8064

## Deuteranomaly

20.2122, 13.6574, 2.1869

# Monochromacy



## Original Color

32.6470, 16.7916, 3.2707

## Achromatopsia

6.3328, 6.6626, 7.2556

## Achromatomaly

10.9985, 7.0261, 5.0514

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 32.6470, 16.7916, 3.2707 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, 37)` looks like.

```
.text, #text, p{  
    color:rgb(229, 0, 37)  
}
```

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, 37) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(229, 0, 37) }
```

## Border

The CSS property to change the border of an element to XYZ 32.6470, 16.7916, 3.2707 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, 37) }
```

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

```
.border{ border-color:rgb(229, 0, 37) }
```

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, 37) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(229, 0, 37); -webkit-box-  
shadow:4px 4px 4px 4px rgb(229, 0, 37);  
box-shadow:4px 4px 4px 4px rgb(229, 0, 37)  
}
```



# Background

The CSS property to change the background color of an element to XYZ 32.6470, 16.7916, 3.2707 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, 37) }
```

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

```
.background{ background-color: rgb(229, 0,  
37) }
```

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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