

# Converting Colors

XYZ(32.2120, 17.3330, 2.5135)

Have a look what the booklet for  
XYZ(32.2120, 17.3330, 2.5135)  
contains.

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# Color

**XYZ(32.3599, 17.4299,  
2.5229)**

# Conversions

## Conversions Part 1

Format	Color
Hex	E32018
RGB	227, 32, 24
RGB Percent	89%, 13%, 9%
CMY	0.1098, 0.8744, 0.9059
CMYK	0.00, 0.86, 0.89, 0.11
HSL	2°, 81%, 49%
HSV	2°, 89%, 89%
XYZ	32.3599, 17.4299, 2.5229
YIQ	89.3930, 118.7880, 38.8520

# Conversions

## Conversions Part 2

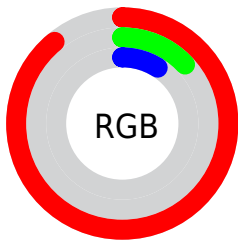
Format	Color
<a href="#">RYB</a>	227, 32, 24
Decimal	14884888
CIELab	48.80, 69.84, 54.70
CIElCh	49, 88.709, 38.071
Yxy	17.4299, 0.6186, 0.3332
Android (android.graphics.Color)	4293074968 (0xFFE32018)
YUV	89.3930, -32.2387, 120.6813
Hunter-Lab	41.7491, 65.2950, 25.6415

# Details

The XYZ color **32.3599, 17.4299, 2.5229** is a dark color, and the websafe version is hex **CC0000**. The color can be described as dark washed red. A complement of this color would be **39.5669, 56.3905, 81.4714**, and the grayscale version is **9.6362, 10.1381, 11.0403**.

A 20% lighter version of the original color is **47.0634, 31.0352, 9.6408**, and **14.9003, 7.6814, 0.6973** is the 20% darker color. If you saturate the color by 10%, you get **31.7963, 16.5555, 1.5570**, and if you desaturate by 10%, it is **33.4964, 19.1558, 4.5898**.

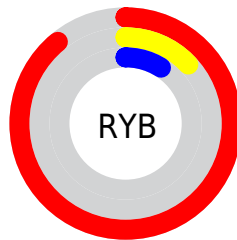
# Distribution



Red (89%)

Green (13%)

Blue (9%)



Red (89%)

Yellow (13%)

Blue (9%)

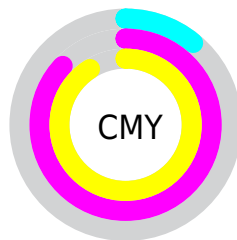


Cyan (0%)

Magenta (86%)

Yellow (89%)

Black (11%)



Cyan (11%)

Magenta (87%)


Yellow (91%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 32.3599, 17.4299, 2.5229 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 32.3599, 17.4299, 2.5229 by changing the saturation by 10% instead.





 32.3599, 17.4299,  
2.5229


 32.3599, 17.4299,  
2.5229


304.4717,  
237.6377, 130.0307


 21.7934, 10.5415,  
0.8523


 62.7363, 39.0635,  
10.4265


 13.8209, 5.7594,  
0.0000


 83.2769, 54.5774,  
17.5009

 8.0771, 2.6993,  
0.0000


 107.8729, 73.7353,  
27.2150

 4.1965, 0.9769,  
0.0000

 136.8897, 96.9215,  
39.9874

 1.8139, 0.0000,  
0.0000

 170.6926,  
124.5204, 56.2366


 0.5260, 0.0000,  
0.0000


 209.6470,


 0.0000, 0.0000,


156.9165, 76.3812


0.0000


 254.1183,  
194.4942, 100.8397


 32.3599, 17.4299,  
2.5229


 32.3599, 17.4299,  
2.5229


 31.7963, 16.5555,  
1.5570


 33.4964, 19.1558,  
4.5898

 31.7756, 16.5255,  
1.5150

 35.3239, 21.8834,  
8.0578

 37.9291, 25.7347,  
13.1165

 41.3861, 30.8136,  
19.9258

 45.7600, 37.2121,  
28.6263

■ 51.1098, 45.0135,  
39.3443

■ 57.4895, 54.2942,  
52.1951

■ 64.9490, 65.1251,  
67.2853

■ 73.5353, 77.5724,  
84.7145

# Harmonies

## Analogous

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



37.6257, 17.4299, 13.3123



32.3599, 17.4299, 2.5229



23.1887, 17.4299, 0.1288

# Triad

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



32.3599, 17.4299, 2.5229



5.8140, 17.4299, 6.6065



18.8832, 17.4299, 108.1499

# Complementary

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



32.3599, 17.4299, 2.5229



39.5669, 56.3905, 81.4714

# 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.



11.3430, 17.4299, 99.3906



32.3599, 17.4299, 2.5229



5.3372, 17.4299, 26.0593

# Square

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



32.3599, 17.4299, 2.5229



8.6147, 17.4299, 1.0000



6.9879, 17.4299, 62.7327



28.3314, 17.4299, 81.4515



# Rectangle

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



32.3599, 17.4299, 2.5229



17.1037, 17.4299, 0.0000



6.9879, 17.4299, 62.7327



16.0409, 17.4299, 109.5024

# Sweetspot

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



32.3603, 17.4310, 2.5231



68.2888, 61.1514, 54.7422



44.9540, 22.1637, 69.7803



14.0506, 12.2646, 10.5795



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.



32.3603, 17.4310, 2.5231



41.3494, 21.4788, 1.9665



40.1306, 32.9716, 5.1132



14.4224, 14.4588, 14.9351



18.5516, 9.6774, 0.8901



1.3871, 0.7476, 0.0712



# Inverse Universe

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



39.5669, 56.3905, 81.4714



50.6786, 72.4773, 105.9262



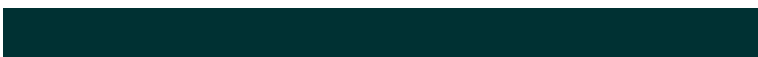
20.8068, 18.8704, 75.2180



14.7561, 16.2335, 18.5000



22.7333, 32.5287, 47.4637



1.6952, 2.4343, 3.5125



# Previews

## White Background



This preview shows how the XYZ color 32.3599, 17.4299, 2.5229 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 32.3599, 17.4299, 2.5229 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 32.3599, 17.4299, 2.5229**

## **Background**



This preview shows how black text looks on a background with the XYZ color 32.3599, 17.4299, 2.5229.



This preview shows how white text looks on a background with the XYZ color 32.3599, 17.4299,



# 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

32.3599, 17.4299, 2.5229

### Protanopia

16.0033, 17.6428, 4.8474

### Tritanopia

32.4047, 17.4478, 2.7584

# Trichromacy



## Original Color

32.3599, 17.4299, 2.5229

## Protanomaly

19.1633, 14.7823, 3.5123

## Tritanomaly

32.3929, 17.4430, 2.6965

# Monochromacy



## Original Color

32.3599, 17.4299, 2.5229

## Achromatopsia

9.4954, 9.9899, 10.8790

## Achromatomaly

13.6687, 10.0049, 6.2117

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 32.3599, 17.4299, 2.5229 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, 32, 24)` looks like.

```
.text, #text, p{  
    color:rgb(227, 32, 24)  
}
```

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, 32, 24) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(227, 32, 24) }
```

## Border

The CSS property to change the border of an element to XYZ 32.3599, 17.4299, 2.5229 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, 32, 24) }
```

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

```
.border{ border-color:rgb(227, 32, 24) }
```

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

Here you see how a box with a 4 pixel rgb(227, 32, 24) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(227, 32, 24); -webkit-box-  
shadow:4px 4px 4px 4px rgb(227, 32, 24);  
box-shadow:4px 4px 4px 4px rgb(227, 32,  
24) }
```



# Background

The CSS property to change the background color of an element to XYZ 32.3599, 17.4299, 2.5229 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(227, 32, 24) }
```

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

```
.background{ background-color: rgb(227, 32,  
24) }
```

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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