

# Converting Colors

XYZ(16.7493, 6.6383, 0.0000)

Have a look what the booklet for  
XYZ(16.7493, 6.6383, 0.0000)  
contains.

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# Color

**XYZ(18.1315, 9.3471,  
0.8485)**

# Conversions

## Conversions Part 1

Format	Color
Hex	B10000
RGB	177, 0, 0
RGB Percent	69%, 0%, 0%
CMY	0.3059, 0.9999, 1.0000
CMYK	0.00, 1.00, 1.00, 0.31
HSL	0°, 100%, 35%
HSV	0°, 100%, 69%
XYZ	18.1315, 9.3471, 0.8485
YIQ	52.9230, 105.4920, 37.5240

# Conversions

## Conversions Part 2

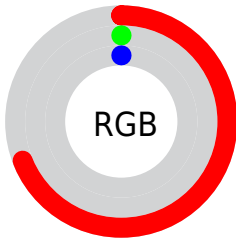
Format	Color
<b>R<sub>YB</sub></b>	177, 0, 0
Decimal	11599872
CIE Lab	36.64, 60.91, 51.04
CIE LCh	37, 79.473, 39.961
Yxy	9.3471, 0.6401, 0.3300
Android (android.graphics.Color)	4289789952 (0xFFB10000)
YUV	52.9230, -26.0910, 108.8155
Hunter-Lab	30.5730, 52.3576, 19.7556

# Details

The XYZ color **18.1315, 9.3471, 0.8485** is a dark color, and the websafe version is hex **990000**. A complement of this color would be **23.6520, 34.6068, 47.0280**, and the grayscale version is **3.3981, 3.5751, 3.8933**.

A 20% lighter version of the original color is **39.9683, 24.6910, 5.5650**, and **6.9394, 3.5774, 0.3248** is the 20% darker color. If you saturate the color by 10%, you get **18.1317, 9.3477, 0.8486**, and if you desaturate by 10%, it is **18.4500, 9.8136, 1.4813**.

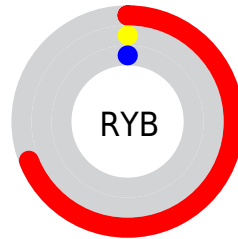
# Distribution



Red (69%)

Green (0%)

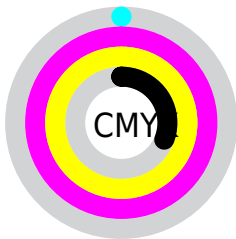
Blue (0%)



Red (69%)

Yellow (0%)

Blue (0%)

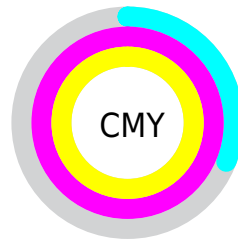


Cyan (0%)

Magenta (100%)

Yellow (100%)

Black (31%)



Cyan (31%)

Magenta (100%)


Yellow (100%)


# Brightness & Saturation Gradients


These gradients show how the XYZ color 18.1315, 9.3471, 0.8485 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 18.1315, 9.3471, 0.8485 by changing the saturation by 10% instead.





 18.1315, 9.3471,  
0.8485


 18.1315, 9.3471,  
0.8485


 234.6425,  
185.9465, 100.7564


 11.1447, 4.9683,  
0.0000


 39.7896, 24.5600,  
5.5613


 6.2323, 2.2287,  
0.0000


 55.1916, 36.1629,  
10.4082


 3.0288, 0.7356,  
0.0000

 74.1294, 50.9425,  
17.4750

 1.1690, 0.0000,  
0.0000

 96.9683, 69.2834,  
27.1802


 0.0817, 0.0000,  
0.0000


 124.0737, 91.5698,  
39.9425


 0.0000, 0.0000,  
0.0000


 155.8110,

118.1862, 56.1802


 192.5455,  
149.5170, 76.3120


 18.1315, 9.3471,  
0.8485


 18.1315, 9.3471,  
0.8485


 18.1317, 9.3477,  
0.8486

 18.4500, 9.8136,  
1.4813

 19.0543, 10.6979,  
2.6821

 20.0549, 12.1622,  
4.6708

 21.5039, 14.2827,  
7.5511

 23.4457, 17.1242,  
11.4110

■ 25.9192, 20.7436,  
16.3280

■ 28.9593, 25.1922,  
22.3718

■ 32.5983, 30.5169,  
29.6061

■ 36.8657, 36.7612,  
38.0900

# Harmonies

## Analogous

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



21.6142, 9.3471, 6.2181



18.1315, 9.3471, 0.8485



12.4819, 9.3471, 0.0000

# Triad

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



18.1315, 9.3471, 0.8485



2.6836, 9.3471, 3.4904



10.5986, 9.3471, 65.7427

# Complementary

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



18.1315, 9.3471, 0.8485



23.6520, 34.6068, 47.0280

# 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.



6.0541, 9.3471, 61.6164



18.1315, 9.3471, 0.8485



2.4971, 9.3471, 15.5375

# Square

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



18.1315, 9.3471, 0.8485



4.1363, 9.3471, 0.1583



3.4782, 9.3471, 38.8133



16.3292, 9.3471, 47.4964



# Rectangle

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



18.1315, 9.3471, 0.8485



8.8905, 9.3471, 0.0000



3.4782, 9.3471, 38.8133



8.8778, 9.3471, 67.1504

# Sweetspot

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



18.1317, 9.3477, 0.8486



51.5609, 44.6728, 39.4618



26.0672, 12.5214, 42.6378



10.6667, 8.9388, 7.5433



84.5950, 89.0005, 96.9216



16.2198, 17.0645, 18.5832



# Same Dimension

The Same Dimension uses a secret algorithm to generate beautiful new colors.



18.1317, 9.3477, 0.8486



32.4733, 16.7412, 1.5198



21.6623, 16.4089, 2.0255



8.4965, 8.5055, 8.8464



13.1371, 6.7729, 0.6149



0.4134, 0.2132, 0.0194



# Inverse Universe

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



23.6520, 34.6068, 47.0280



42.3601, 61.9797, 84.2260



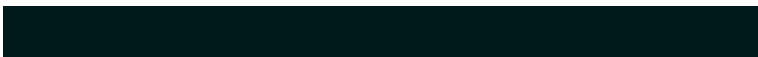
11.4667, 10.2361, 42.9662



8.7426, 9.6313, 10.9046



17.1368, 25.0741, 34.0736



0.5392, 0.7890, 1.0721



# Previews

## White Background



This preview shows how the XYZ color 18.1315, 9.3471, 0.8485 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

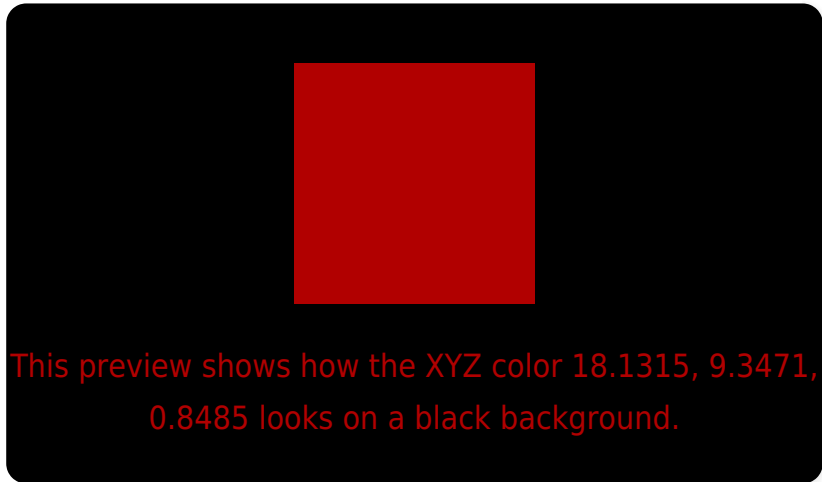
Any Text WCAG AA ✓ Pass

Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass



# Black Background



## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

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 18.1315, 9.3471, 0.8485**

## **Background**



This preview shows how black text looks on a background with the XYZ color 18.1315, 9.3471, 0.8485.



This preview shows how white text looks on a background with the XYZ color 18.1315, 9.3471,

0.8485.

# 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

18.1315, 9.3471, 0.8485

### Protanopia

8.9826, 9.9159, 2.2511

### Deuteranopia

9.9306, 9.9417, 1.3955



## Tritanopia

18.0898, 9.6007, 0.8997

# Trichromacy



## Original Color

18.1315, 9.3471, 0.8485

## Protanomaly

10.4514, 7.5499, 1.3584

## Deuteranomaly

11.4725, 7.8726, 0.9149

## Tritanomaly

18.0130, 9.4472, 0.8741

# Monochromacy



## Original Color

18.1315, 9.3471, 0.8485

## Achromatopsia

3.3839, 3.5601, 3.8770

## Achromatomaly

5.8978, 3.8562, 1.9469

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 18.1315, 9.3471, 0.8485 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(177, 0, 0)` looks like.

```
.text, #text, p{  
    color:rgb(177, 0, 0)  
}
```

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(177, 0, 0) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(177, 0, 0) }
```

## Border

The CSS property to change the border of an element to XYZ 18.1315, 9.3471, 0.8485 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(177, 0, 0) }
```



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

```
.border{ border-color:rgb(177, 0, 0) }
```

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

Here you see how a box with a 4 pixel rgb(177, 0, 0) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(177, 0, 0); -webkit-box-shadow:4px  
4px 4px 4px rgb(177, 0, 0); box-shadow:4px  
4px 4px 4px rgb(177, 0, 0) }
```

# Background

The CSS property to change the background color of an element to XYZ 18.1315, 9.3471, 0.8485 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(177, 0, 0) }
```

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

```
.background{ background-color: rgb(177, 0,  
0) }
```

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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